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**Monitoring Well Lithologic Logs and Well Construction Details**  
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**WATER WELL DRILLERS' REPORT**  
(Sections 7976, 7977, 7978, Water Code)  
**STATE OF CALIFORNIA**  
1530 ARABOTT STREET  
SALINAS, CALIFORNIA 94785

Do Not Fill In  
**No. 38096**

Edvia Ct. between 1109 & 1110  
Well #5

**(1) OWNER:** Vista Del Camino Co.  
Name: Vista Del Camino Co.  
Address: Sun Terrace Sub-Division Clayton Hall Rd. Box 11, Guaymas, California

**(2) LOCATION OF WELL:**  
County: Monterey  
Approximately 1/4 mile south of Reservation Road and about 1 mile east of State Highway #1 in Sun Terrace Sub-division

**(3) TYPE OF WORK (check):**  
New well  Deepening  Reconditioning  Abandon

**(4) PROPOSED USE (check):**  
Domestic  Industrial  Municipal  Irrigation  Test Well  Other

**(5) EQUIPMENT:**  
Rotary  Cable  Dug Well

**(6) CASING INSTALLED:**  
SINGLE  DOUBLE   
From 0' to 378' Dia. 12" 3/16"  
Diameter of bore 2 1/2" from 0' to 378'  
Type and size of shoe or well ring 3/8" nipple  
Describe joint: collars welded

**(7) PERFORATIONS:**  
Type of perforation used: Factory punched  
Size of perforations: 1-1/2"  
From 0' to 216' Blank  
From 216' to 378' Perforated

**(8) CONSTRUCTION:**  
Was a surface sanitary seal provided? Yes  No   
Were any struts sealed against pollution? Yes  No

**(9) WATER LEVELS:**  
Method of Sealing: 26" dia conductor pipe 26" bore with concrete between the two  
Depth at which water was first found: 127' on 9/23/61  
Standing level before perforating: \_\_\_\_\_  
Standing level after perforating: \_\_\_\_\_

**(10) WELL TESTS:**  
Was a pump test made? Yes  No   
Yield: \_\_\_\_\_ gal./min. with \_\_\_\_\_ hp.  
Temperature of water: \_\_\_\_\_ Was a chemical analysis made? Yes  No

**(11) WELL LOG:**  
Total depth 378' ft. Depth of completed well 378' ft.  
Formations: Description, color, character, size of material, and structure  
0 - 30 Sand  
30 - 35 Sand stone  
35 - 58 Tight sand  
58 - 103 Tight red sand  
103 - 118 Blue clay, sandy  
118 - 133 Blue clay, streaks of yellow clay  
133 - 143 Blue clay thin streaks of soft sand  
143 - 167 Hard blue clay  
167 - 178 Blue clay & sea shells  
178 - 193 Blue clay thin streaks of sandy clay  
193 - 208 Fine sand, thin streaks of blue clay  
208 - 223 Coarse sand, thin streaks of blue and yellow clay  
223 - 253 Coarse sand, thin streaks of soft yellow clay  
253 - 283 Coarse sand, fine soft gravel  
283 - 313 Sand & gravel  
313 - 358 Sand & gravel, streaks of blue shale  
358 - 378 Coarse sand & gravel.  
measured depth to water 127' on 9/23/61

DELIVERED MAY 11 1967

Work started 5-20-61 Completed 7-2-61  
WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
NAME: Valley Pump & Drilling Co. (typed or printed)  
Address: P. O. Box 157 1308 Abbott St., Salinas, California.  
[SIGNED] \_\_\_\_\_ Well Driller \_\_\_\_\_  
License No. 22452 Dated July 2, 1961  
DWR FORM No. 246 (REV. 5-61)



Well Construction Details and  
Log of Boring MCWD-05  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE

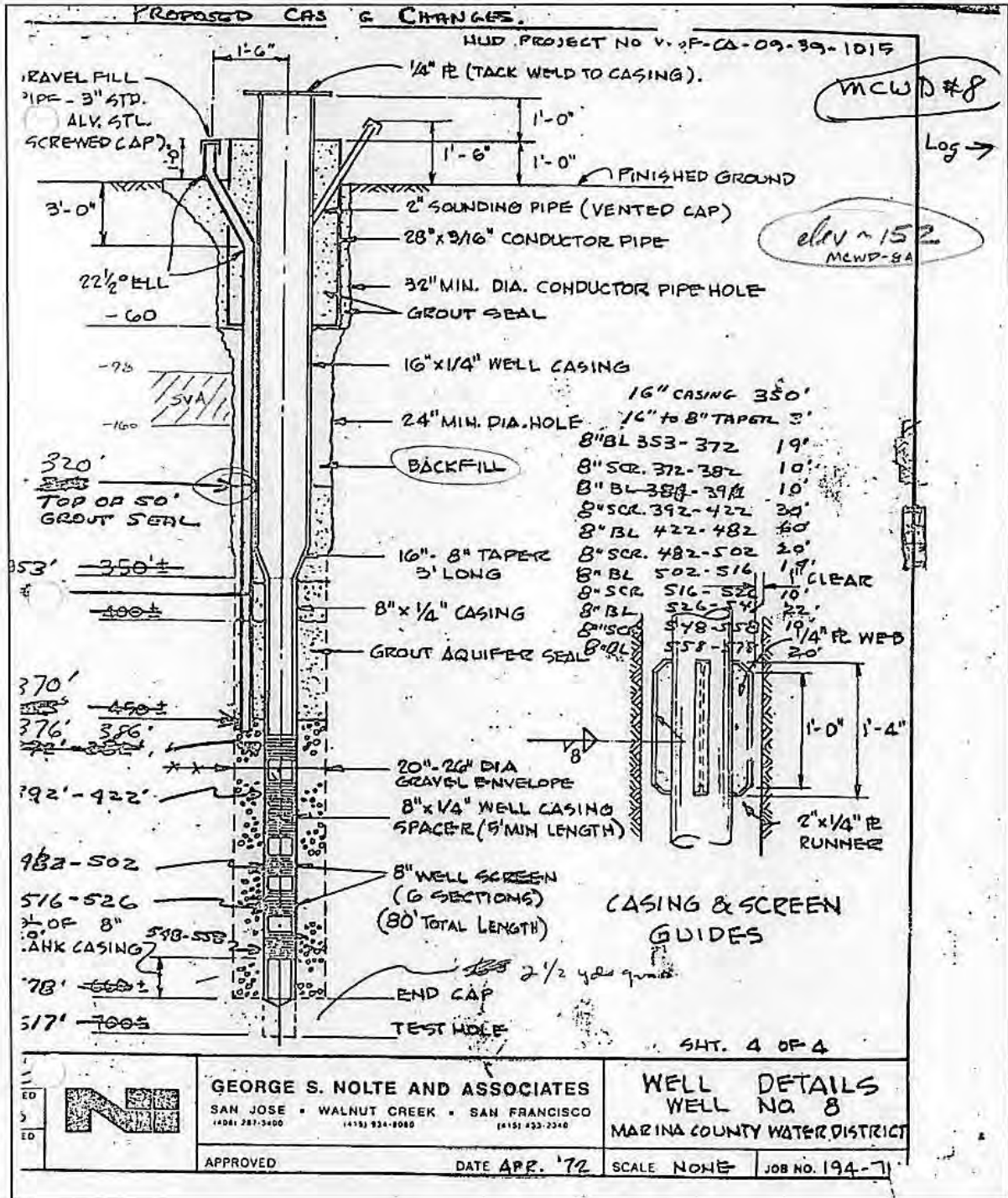
**A1**

DRAWN MBP	JOB NUMBER 55596 00171	APPROVED MDT/CM	DATE 12/04	REVISED DATE
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Well Construction Details and  
Log of Boring MCWD-08  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE

A2

DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
MDT / CAW

DATE  
12/04

REVISED DATE

NOTICE OF INTENT NO. 81023

145/2E-321  
Do Not Fill In

CONFIDENTIAL LOG

STATE OF CALIFORNIA  
THE RESOURCES AGENCY

ORIGINAL  
File with DWR

Water Code Sec. 13752

DEPARTMENT OF WATER RESOURCES  
WATER WELL DRILLERS REPORT

No 88151220

State Well No 14/2-31  
Other Well No

(1) OWNER: Name **Marina County Water District**  
Address **11 Beach Road, Marina, CA 93933**

(11) WELL LOG:  
Total depth **617** ft. Depth of completed well **578** ft.  
Formation: Describe by color, character, size of material, and structure

(2) LOCATION OF WELL:  
County **Monterey** Owner's number, if any **#8**  
Township, Range, and Section  
Distance from cities, roads, railroads, etc. **Reservation Road and Salinas Avenue**

(3) TYPE OF WORK (check):  
New Well  Deepening  Reconditioning  Destroying   
If destruction, describe material and procedure in item 11.

(4) PROPOSED USE (check):  
Domestic  Industrial  Municipal  Irrigation  Test Well  Other

(5) EQUIPMENT:  
Rotary  Cable  Other

(6) CASING INSTALLED:

From ft.	To ft.	Diam.	Gage or Wall	Diameter of Bore	From ft.	To ft.
0	353	16" ID	1/4"	24"	60	578
353	578	8" OD	1/4"	24"		
0	60	28" ID	3/16"	32"	0	60

Size of shoe or well ring: \_\_\_\_\_ Size of gravel: **Pea Gravel**

(7) PERFORATIONS OR SCREEN:  
Type of perforation or name of screen **Factory-milled**

From ft.	To ft.	Perf. per row	Rows per ft.	Size in. x in.
372	382			
392	422			
482	502			Tubeless Well Screen
516	526			
548	558			

(8) CONSTRUCTION:  
Was a surface sanitary seal provided? Yes  No  To what depth **60** ft.  
Were any struts used against pollution? Yes  No  If yes, note depth of struts

Work started **9/78** 19 **72**, Completed **11/76** 19 **72**  
Method of sealing **cement**

(9) WATER LEVELS:  
Depth at which water was first found, if known \_\_\_\_\_ ft.  
Standing level before perforating, if known \_\_\_\_\_ ft.  
Standing level after perforating and developing \_\_\_\_\_ ft.

(10) WELL TESTS:  
Was pump test made? Yes  No  If yes, by whom? **Driller**  
Rate **1900** gal./min. with **73** ft. drawdown after \_\_\_\_\_ hrs.  
Temperature of water \_\_\_\_\_ Was a chemical analysis made? Yes  No   
Was electric log made of well? Yes  No  If yes, attach copy

**CONFIDENTIAL**  
Water Code Sec. 13752

WELL DRILLER'S STATEMENT:  
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
NAME **Western Well Drilling Co., Ltd.**  
(Person, firm, or corporation) (Type or print)  
Address **P.O. Box 109, San Jose, CA 95103**  
(SIGNED) \_\_\_\_\_ (Well Driller)  
License No. **25182** Dated **Dec. 19, 1972**

SKETCH LOCATION OF WELL ON REVERSE SIDE

DWR 188 (REV. 9-68)

25175-230 9-68 50M TRIP ΔD C17

**MACTEC** Well Construction Details and Log of Boring MCWD-08  
Carbon Tetrachloride RI/FS Fort Ord, California

PLATE **A2**

DRAWN MBP	JOB NUMBER 55596 00171	APPROVED MDT/can	DATE 12/04	REVISED DATE
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LOG OF WELL FOR  
MARINA COUNTY WATER DISTRICT  
Marina, California

DRILLERS: F. Arthur  
O. Orum

0 to	58	58 Ft.	Sand, Brown
58	64	8	Clay, Yellow
64	98	34	Sand, Brown
98	160	62	Clay, Blue
160	215	55	Coarse Sand & Fine Gravel
215	260	45	Clay, Brown
260	315	55	Coarse Sand & Fine Gravel
315	355	40	Coarse Sand to Medium Gravel
355	370	15	Sand with Clay Streaks
370	500	130	Coarse Sand to Medium Gravel
500	545	45	Medium Sand
545	580	35	Fine Sand
580	585	5	Red Clay
585	609	24	Cemented Sand
609	617	8	Granite



Well Construction Details and  
Log of Boring MCWD-08  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE

A2

DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
MDT / CM

DATE  
12/04

REVISED DATE



October 19, 1972

SETTING CHART

MARINA COUNTY WATER DISTRICT #8

<u>SECTION</u>	<u>LENGTH</u>	<u>DIAMETER</u>	<u>TYPE</u>	<u>FROM</u>	<u>TO</u>
1	20'	8"	Blank with ball bottom	578	558
2	10'	8"	SS Screen	558	548
3 (Spacer)	22'	8"	Blank	548	526
4	10'	8"	SS Screen	526	516
5	14'	8"	Blank	516	502
6	10'	8"	SS Screen	502	492
7	10'	8"	SS Screen	492	482
8	30'	8"	Blank	482	452
9 (Spacer)	30'	8"	Blank	452	422
10	10'	8"	SS Screen	422	412
11	10'	8"	SS Screen	412	402
12	10'	8"	SS Screen	402	392
13	<del>10'</del> 6' act 4'	8"	Blank	<del>392</del> 392	<del>382</del> 382
14	10' - 4'	8"	SS Screen	382	372
<del>Start 3" pipe</del>		<del>add 4 1/2' note</del>		372	350
15	19' + 3'	8" to 16"	Blank 3' Taper to 16"	372	350
16	30'	16"	Blank	350	320
17	30'	16"	Blank	320	290
18	30'	16"	Blank	290	260
19	30'	16"	Blank	260	230
20	30'	16"	Blank	230	200
21	30'	16"	Blank	200	170
22	30'	16"	Blank	170	140
23	30'	16"	Blank	140	110
24	30'	16"	Blank	110	80
25	30'	16"	Blank	80	50
26	30'	16"	Blank	50	20
27	20'	16"	Blank	20	0



Well Construction Details and  
 Log of Boring MCWD-08  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE

**A2**

DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
MST / CM

DATE  
12/04

REVISED DATE

8A

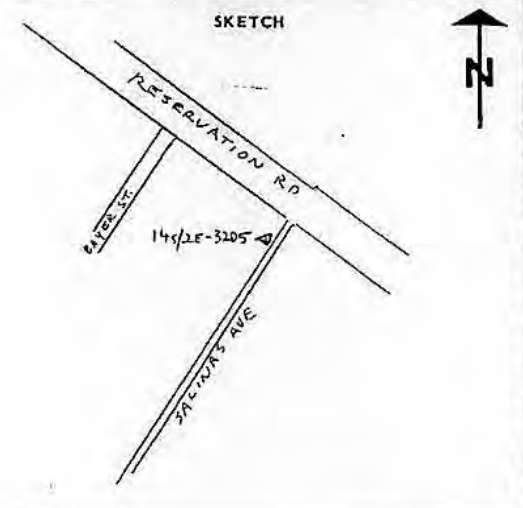
STATE OF CALIFORNIA  
THE RESOURCES AGENCY  
DEPARTMENT OF WATER RESOURCES

145/2E-32D5  
State No.

WELL DATA

DISTRICT MARINA

Owner MARINA COUNTY WATER DISTRICT State No. 145/2E-32D5  
 Address 11 RESERVATION RD., MARINA Other No. #8A  
 Tenant \_\_\_\_\_  
 Address \_\_\_\_\_  
 Type of Well: Hydrograph  | Key  | Index  | Semiannual  |  
 Location: County \_\_\_\_\_ Basin \_\_\_\_\_ No. \_\_\_\_\_  
 U.S.G.S. Quad. \_\_\_\_\_ U.S.G.S. Quad. No. \_\_\_\_\_  
 Description APPROX. 650' S. & 100' E. OF NW CORNER OF RESERVATION / SALINAS AVE. INTERSECTION  
 Reference Point description \_\_\_\_\_  
 which is \_\_\_\_\_ ft. above land surface. Ground Elevation \_\_\_\_\_  
 Reference Point Elev. \_\_\_\_\_ ft. Determined from \_\_\_\_\_  
 Well: Use MUNICIPAL Condition \_\_\_\_\_ Depth 680'  
 Casing, size \_\_\_\_\_ in., perforations 280'-300', 320'-360', 390'-410'  
 Measurements By: DWR  | USGS  | USBR  | County  | Irr. Dist.  | Water Dist.  | Cons. Dist.  |  
 Chief Aquifer: Name \_\_\_\_\_ Depth to Top Aq. \_\_\_\_\_ Depth to Bot. Aq. \_\_\_\_\_  
 Type of Material \_\_\_\_\_ Perm. Rating \_\_\_\_\_ Thickness \_\_\_\_\_  
 Gravel Packed? Yes  | No  | Depth to Top Gr. 223' Depth to Bot. Gr. 420'  
 Supp. Aquifer \_\_\_\_\_ Depth to Top Aq. \_\_\_\_\_ Depth to Bot. Aq. \_\_\_\_\_  
 Driller ROY ALSOP & SON  
 Date drilled 12-82 Log, filed \_\_\_\_\_ open (1) \_\_\_\_\_ confidential (2) \_\_\_\_\_  
 Equipment: Pump, type \_\_\_\_\_ make \_\_\_\_\_  
 Serial No. \_\_\_\_\_ Size of discharge pipe \_\_\_\_\_ in.  
 Power, Kind \_\_\_\_\_ Make \_\_\_\_\_  
 H. P. \_\_\_\_\_ Motor Serial No. \_\_\_\_\_  
 Elec. Meter No. \_\_\_\_\_ Transformer No. \_\_\_\_\_  
 Yield \_\_\_\_\_ G.P.M. Pumping level \_\_\_\_\_ ft.



REMARKS

Water Analysis: Min. (1) \_\_\_\_\_ San. (2) \_\_\_\_\_ H.M. (3) \_\_\_\_\_  
 Water Levels available: Yes (1) \_\_\_\_\_ No \_\_\_\_\_  
 Period of Record: Begin \_\_\_\_\_ End \_\_\_\_\_  
 Collecting Agency: \_\_\_\_\_  
 Prod. Rec. (1) \_\_\_\_\_ Pump Test (2) \_\_\_\_\_ Yield (3) \_\_\_\_\_

Recorded by: \_\_\_\_\_  
 Date \_\_\_\_\_



Well Construction Details and  
Log of Boring MCWD-08A  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE

A3

DRAWN MBP	JOB NUMBER 55596 00171	APPROVED <i>MAST / cm</i>	DATE 12/04	REVISED DATE
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WELL 8A

test 1/12

P.O. BOX 178  
1508 ABBOTT ST.

TELEPHONE  
408 424-3949

# ROY V. ALSOP & SON, INC.

SINCE 1873  
*Well Drilling*

FAIRBANKS-MORSE PUMPS AND PRESSURE SYSTEMS P O M O N A  
INDUSTRIAL PUMPS  
SALES AND SERVICE  
SALINAS, CALIFORNIA 93902

LOG OF WELL  
Marina Water District - Well # 8A

December 12, 1982

*100-110*

*100-110*

*200-110*

*300-110*

0	-	24	Sandy Loam
24	-	92	Sand
92	-	122	Brown Sandy Clay
122	-	134	Grey Clay
134	-	142	Grey Sandy Clay
142	-	153	Blue Clay
153	-	178	Blue Clay with Sand Streaks
178	-	185	Sandy Clay
185	-	216	Coarse Sand
216	-	236	Clay with Sand Streaks
236	-	240	Sand
240	-	262	Brown Clay
262	-	284	Coarse Sand
284	-	315	Gravel with Clay Streaks
315	-	355	Tight Sand & Cobbles (hard)
355	-	366	Boulders & Tight Sand
366	-	425	Sand & Gravel
425	-	431	Sandy Clay & Fine Sand Streaks
431	-	485	Coarse Sand
485	-	556	Medium Sand
556	-	533	Clay
533	-	597	Red Clay
597	-	636	Red Clay & Sand Streaks
636	-	642	Clay
642	-	670	Clay with Gravel Streaks
670	-	630	Clay

Well Construction Details and  
Log of Boring MCWD-08A  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE



# A3

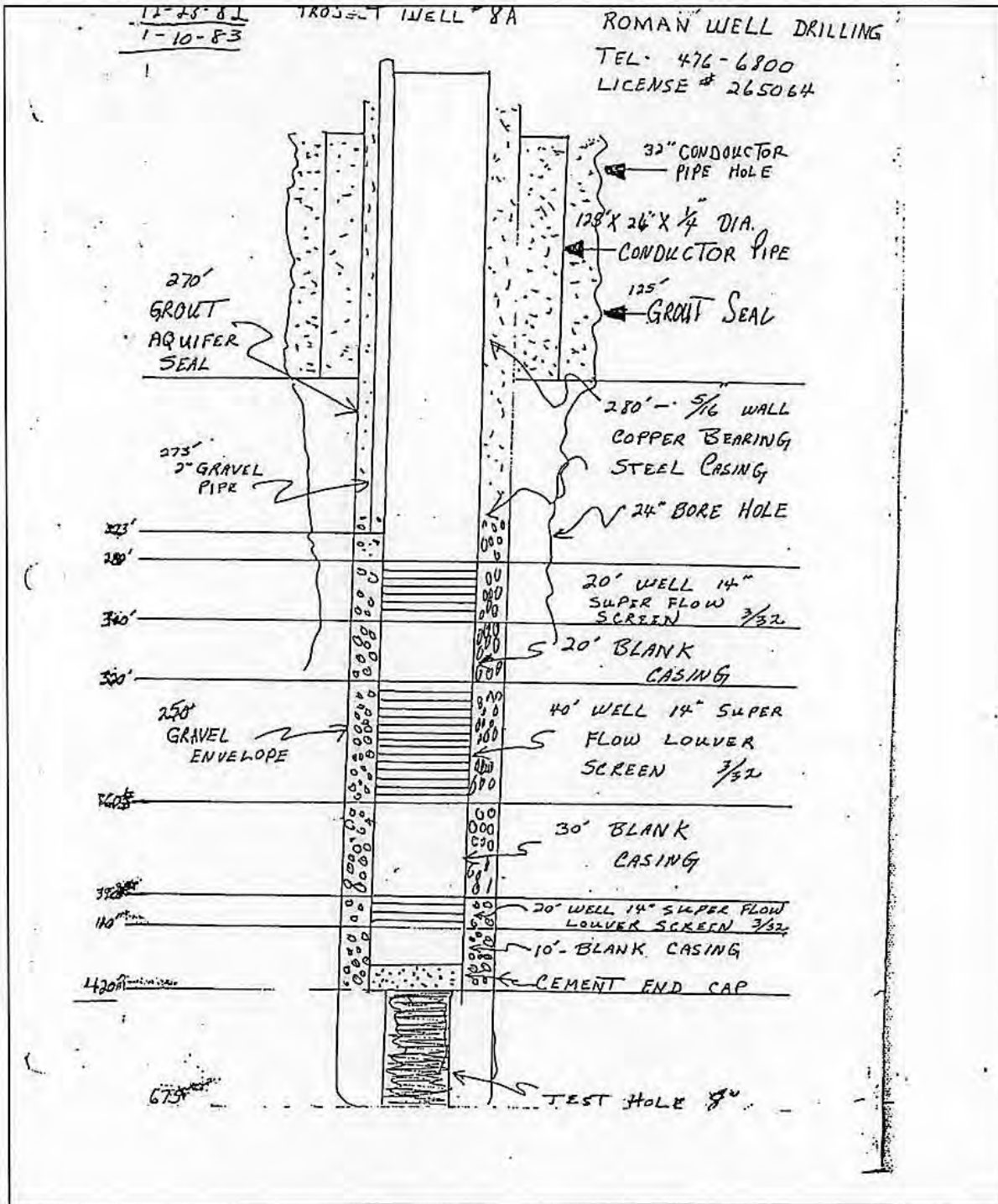
DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
*MDT / cm*

DATE  
12/04

REVISED DATE



Well Construction Details and  
Log of Boring MCWD-08A  
Carbon Tetrachloride  
RI/FS  
Fort Ord, California

PLATE

**A3**

DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
MDT/ML

DATE  
12/04

REVISED DATE

QUADRUPPLICATE  
For Local Requirements  
Page 1 of 1

14158843300  
STATE OF CALIFORNIA  
**WELL COMPLETION REPORT**  
Refer to Installation Certificate No. 503251

DWR USE ONLY - DO NOT FILL IN  
14158843300  
LATITUDE: 14158843300  
LONGITUDE: 14158843300  
WELL OWNERS: PRESSURE - 180 FT.

Owner's Well No. 503251  
Date Work Began 10.23.96 Ended 11.6.96  
Local Permit Agency: Monterey County Health Dept.  
Permit No. WASH 96-236 Permit Date 10.18.96

**GEOLOGIC LOG**

ORIENTATION (Z)  VERTICAL  HORIZONTAL  INCLINE  DISCRETE

DEPTH TO FIRST WATER: 80 (ft.) BELOW SURFACE

DESCRIPTION: RECEIVED  
*Describe material, state its color, etc.*

DEPTH FROM SURFACE (ft.)	FL. TO FL.	DESCRIPTION
0	5	top soil
5	108	dry sand
108	114	brown clay
114	136	sand
136	152	tan sand clay
152	218	yellow sand
218	244	tan clay
244	356	gravel
356	460	tan sandy clay
460	500	gravel
500	527	tan clay

APR 21 1998

Name: A. Bahawandian  
Mailing Address: 407 Reservation Rd.  
Marina, CA 93933  
Address: 407 Reservation Rd.  
City: Marina, CA  
County: Monterey Co.  
APN Block: 032 Page: 121 Parcel: 022  
Township: Range: Section:  
Latitude: Longitude:



- ACTIVITY (Z):  
 NEW WELL  
 REPAIR  
 OTHER (Specify)
- DETECTIVE (Specify):  
 GEOPHYSICAL  
 PLANNED USE(S):  
 IRRIGATION  
 WATER SUPPLY  
 OTHER (Specify)

Drillings Method: **Handy Rotary** FLUID: **Water**

WATER LEVEL & YIELD OF COMPLETED WELL:  
DEPTH OF STAT. WATER: 200 (ft.) & DATE MEASURED: 11.10.96  
ESTIMATED YIELD: 200 (GPM) & TEST TYPE: Air  
TEST LENGTH: 8 (ft.) TOTAL DRAINDOWN: 100 (ft.)

\* May not be representative of a 4000' long-term yield.

DEPTH FROM SURFACE (ft.)	BORE HOLE DIA. (inches)	TYPE (Z)	CASING (Z)				ANNULAR MATERIAL			
			MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)	DEPTH FROM SURFACE (ft.)	TYPE	DEPTH FROM SURFACE (ft.)	TYPE
0 - 257	16"	X	PVC	8"	CLASS 200 40 GR.	0 - 250				
250 - 330	15"	X	PVC	8"	CLASS 200 40 GR.					

- ATTACHMENTS (Z):  
 Geologic Log  
 Well Construction Diagram  
 Geophysical Logs  
 Soil/Water Chemical Analysis  
 Other

**CERTIFICATION STATEMENT**  
I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.  
NAME: L E McVillie & Son Drilling Co  
ADDRESS: 37750 PINECREST LANE  
CITY: Marina, CA  
DATE: 11-19-96

ATTACH ADDITIONAL INFORMATION IF IT EXISTS.  
DWR FORM W-140 \* ADDITIONAL SPACE IS NEEDED, USE NEXT CONSECUTIVELY NUMBERED FORM

**MACTEC** Well Construction Details and Log of Boring Mini-Storage Carbon Tetrachloride RI/FS Fort Ord, California

PLATE **A4**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED MDT/ML	DATE 12/04	REVISED DATE
--------------	----------------------------	--------------------	---------------	--------------



Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Top of PVC Casing  
 Elev. 135.76 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

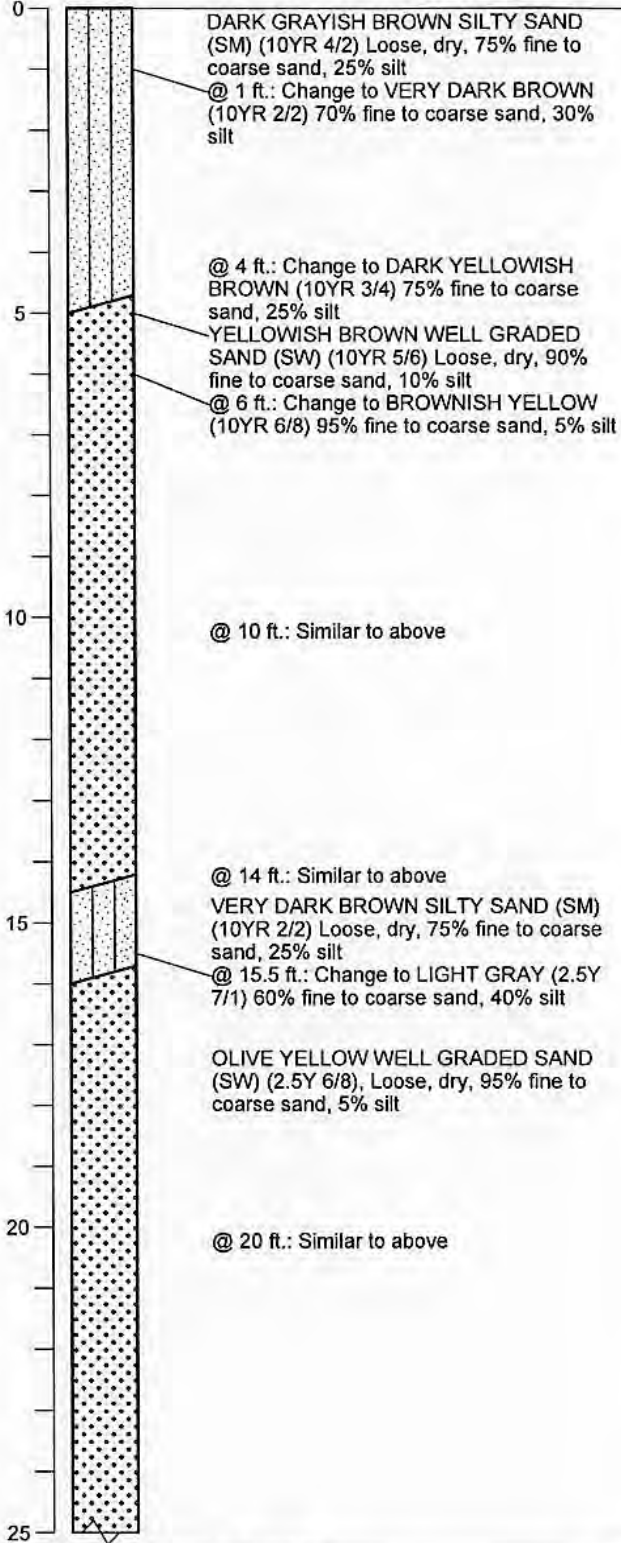
Top of casing at  
 0.5 ft. bgs

7 in. DIAMETER  
 BOREHOLE: 0 to  
 477 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 475  
 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-37  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A5**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

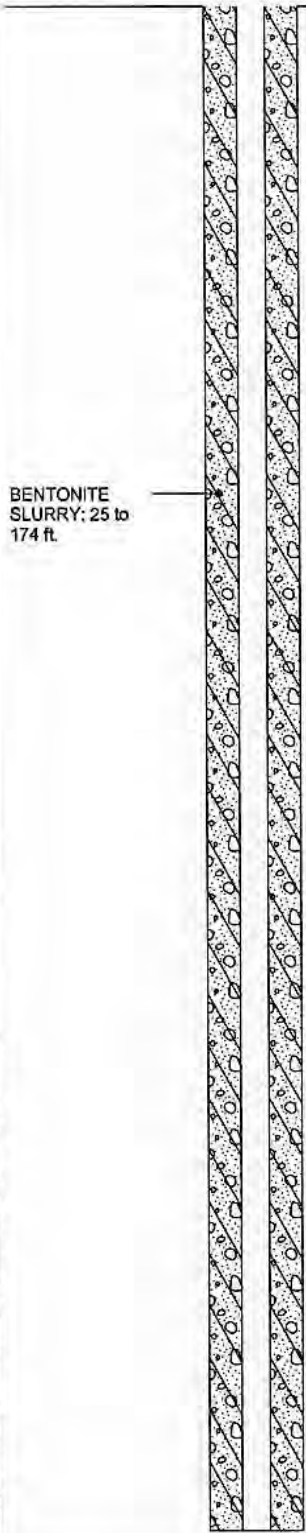
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DATE  
 11/04

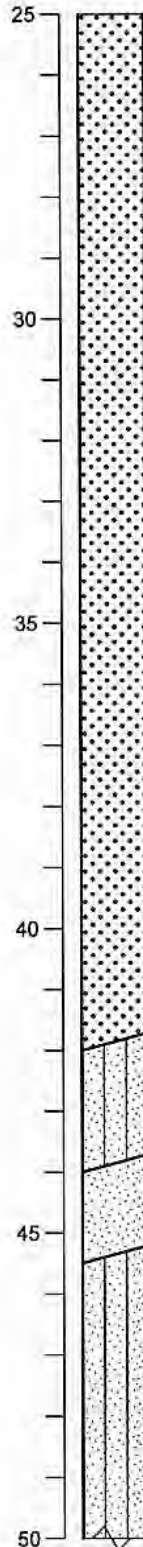
REVISED DATE

Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
174 ft.



@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 41 ft.: Similar to above

LIGHT OLIVE BROWN SILTY SAND (SM)  
(2.5Y 5/6) Loose, dry, 85% fine to coarse  
sand, 15% silt

OLIVE YELLOW POORLY GRADED SAND  
(SP) (2.5Y 6/8) Loose, dry, 95% fine sand,  
5% silt

DARK YELLOWISH BROWN SILTY SAND  
(SM) (10YR 4/4) 80% fine to medium sand,  
20% silt, sharp contact with overlying unit,  
visible bedding planes

@ 49 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-37  
OUCTP

PLATE



MACTEC

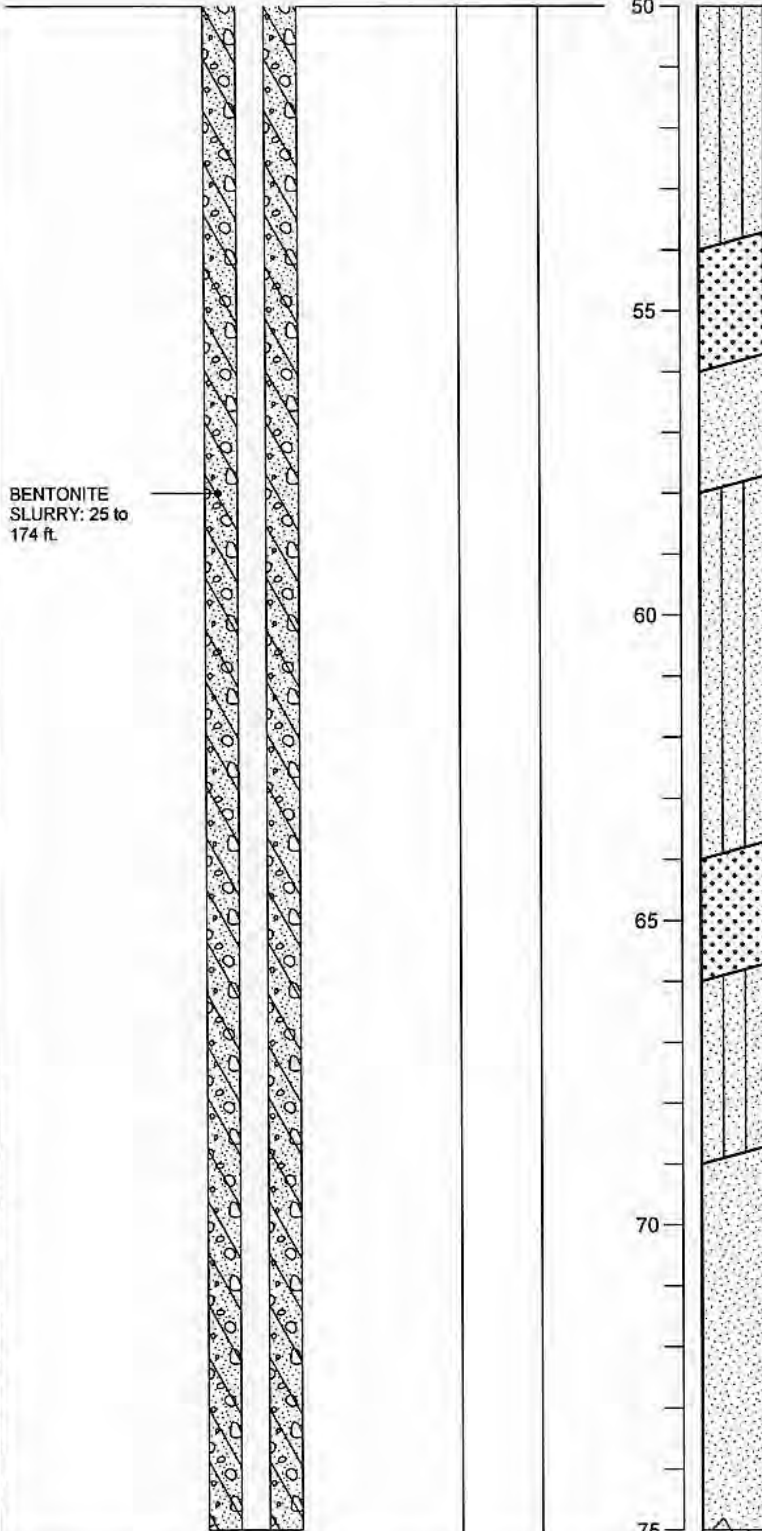
Fort Ord, California

**A5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / cm	11/04	

Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
174 ft.

@ 50 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/6)

DARK YELLOWISH BROWN WELL  
GRADED SAND (SW) (10YR 4/6) Loose,  
dry, 90% fine to coarse sand, 10% silt

DARK YELLOWISH BROWN POORLY  
GRADED SAND (SP) (10YR 4/6) Loose, dry

@ 57 ft.: Visible bedding planes

DARK YELLOWISH BROWN SILTY SAND  
(SM) (10YR 4/6) Loose, dry, 80% fine to  
medium sand, 20% silt

@ 60 ft.: Change to Moist, Increase to 25%  
silt

BROWNISH YELLOW WELL GRADED  
SAND (SW) (10YR 6/6) Loose, moist, 90%  
fine to coarse sand, 10% silt

BROWNISH YELLOW SILTY SAND (SM)  
(10YR 6/6) Loose, moist, 75% fine to  
medium sand, 25% silt

LIGHT YELLOWISH BROWN POORLY  
GRADED SAND (SP) (2.5Y 6/4) Loose,  
moist, 90% fine to medium sand, 10% silt

@ 72 ft.: Change to PALE YELLOW (2.5Y  
7/4)

@ 74 ft.: Change to LIGHT YELLOWISH  
BROWN (2.5Y 6/4)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-37

PLATE

OUCTP

Fort Ord, California

**A5**



MACTEC

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

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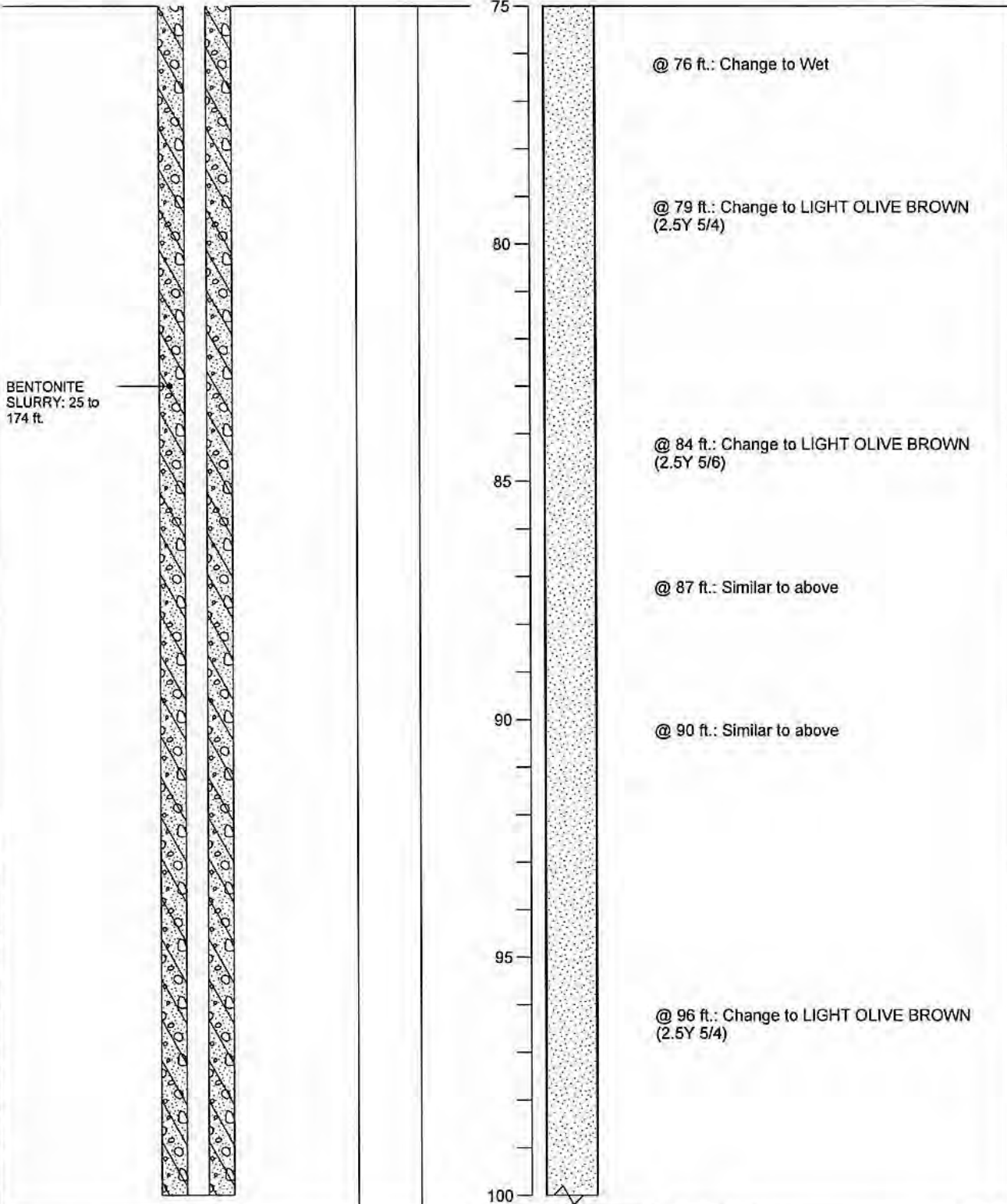
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11/04

REVISED DATE



Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE  
SLURRY: 25 to  
174 ft.

@ 76 ft.: Change to Wet

@ 79 ft.: Change to LIGHT OLIVE BROWN  
(2.5Y 5/4)

@ 84 ft.: Change to LIGHT OLIVE BROWN  
(2.5Y 5/6)

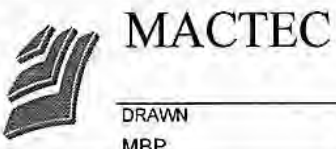
@ 87 ft.: Similar to above

@ 90 ft.: Similar to above

@ 96 ft.: Change to LIGHT OLIVE BROWN  
(2.5Y 5/4)

100

Well Construction Details and Log of Boring MP-BW-37 PLATE



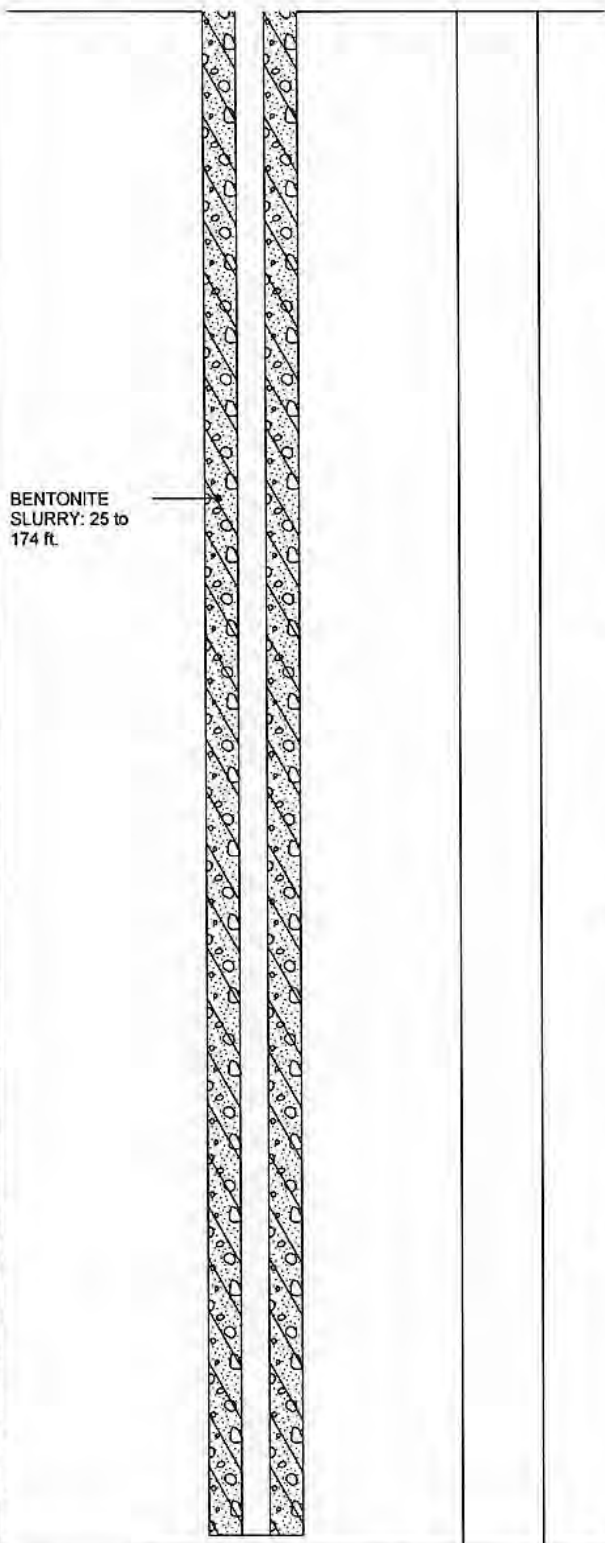
OUCTP  
 Fort Ord, California

**A5**

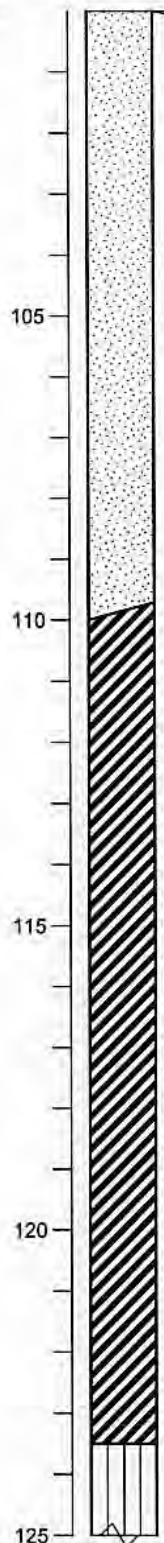
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MBP	55596 001701	MDT / cm	11/04	

Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
174 ft.



@ 100 ft.: Similar to above

@ 105 ft.: Similar to above

@ 107 ft.: Similar to above, From 107-117 ft. 10 ft. sample yields 14 ft. of material recovery, suspect clay expanded and pushed up sand, contact depth not clear

110

OLIVE FAT CLAY (CH) (5Y 5/3) Stiff, moist, 95% fat clay, 5% silt, top 3 in. of clay reworked and mixed with sand unit from above

@ 112 ft.: Increase to 5% marbled DARK GRAY SANDS (5Y 4/1)

@ 113 ft.: DARK GRAY SANDS GONE

@ 114 ft.: Change to OLIVE (5Y 5/4) Dry

115

@ 115 ft.: Similar to above

120

@ 120 ft.: Change to PALE OLIVE (5Y 6/4) Medium stiff

@ 122 ft.: Increase to 30% silt

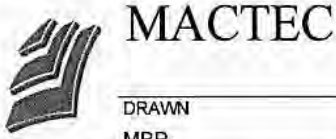
OLIVE SILT WITH SAND (ML) (5Y 4/3) Soft, dry, 80% silt, 20% fine sand

125

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37

PLATE



DRAWN MBP  
 JOB NUMBER 55596 001701

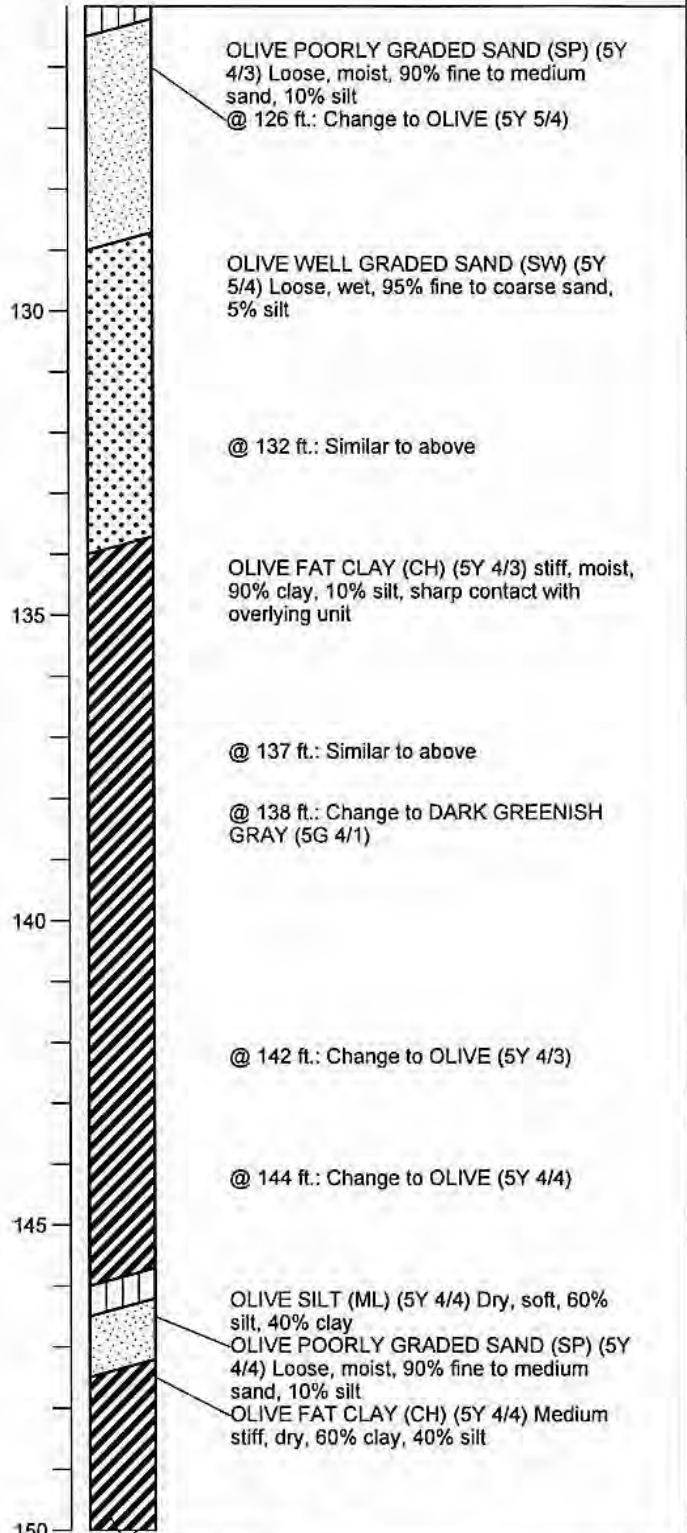
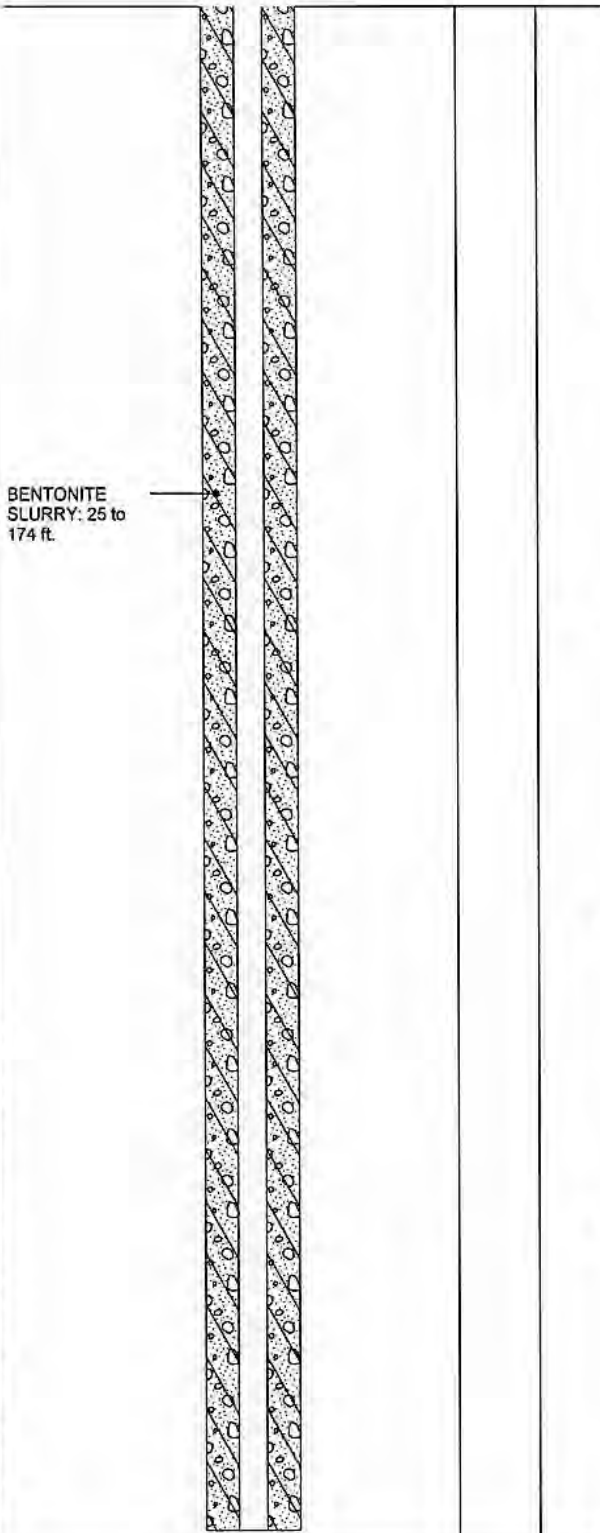
APPROVED MDT / cm

DATE 11/04  
 REVISED DATE

A5

Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV8.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37

PLATE

OUCTP

Fort Ord, California

**A5**



MACTEC

DRAWN  
MBP

JOB NUMBER  
55596 001701

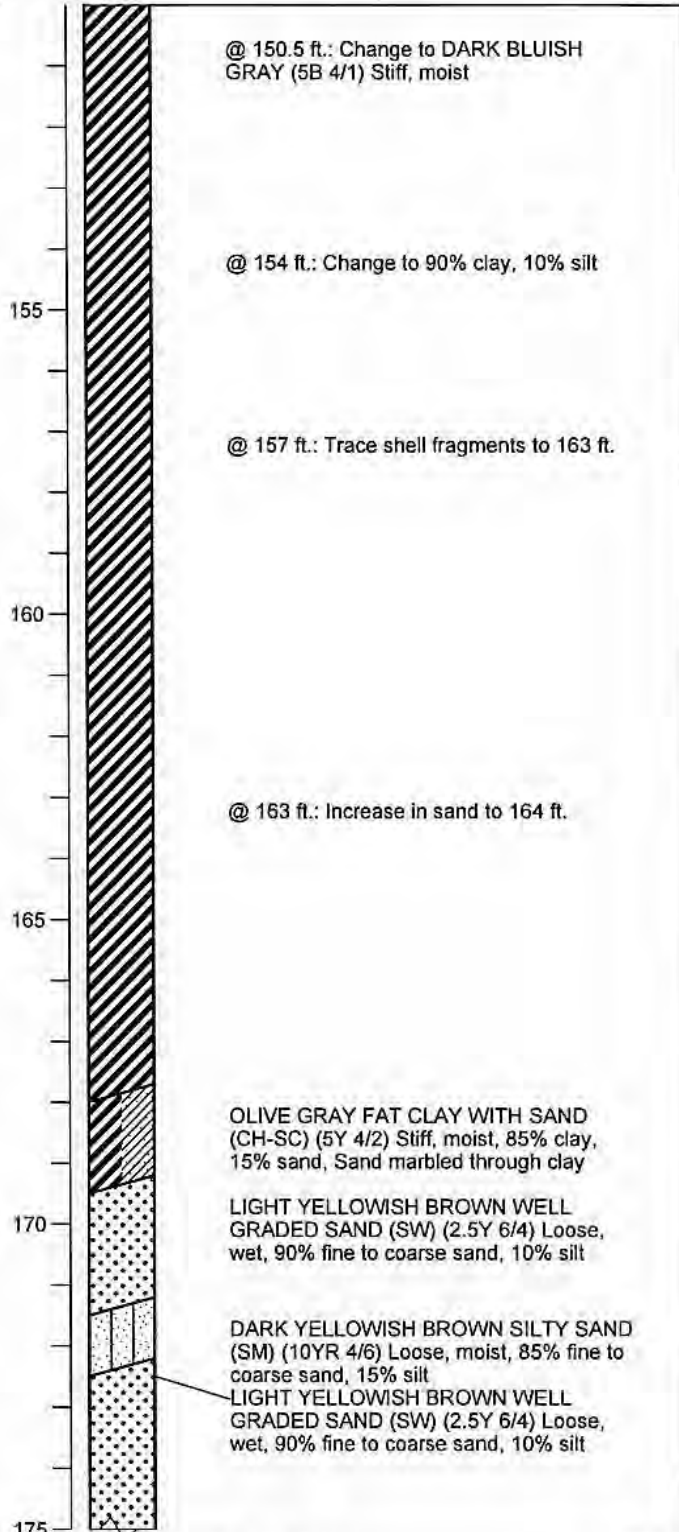
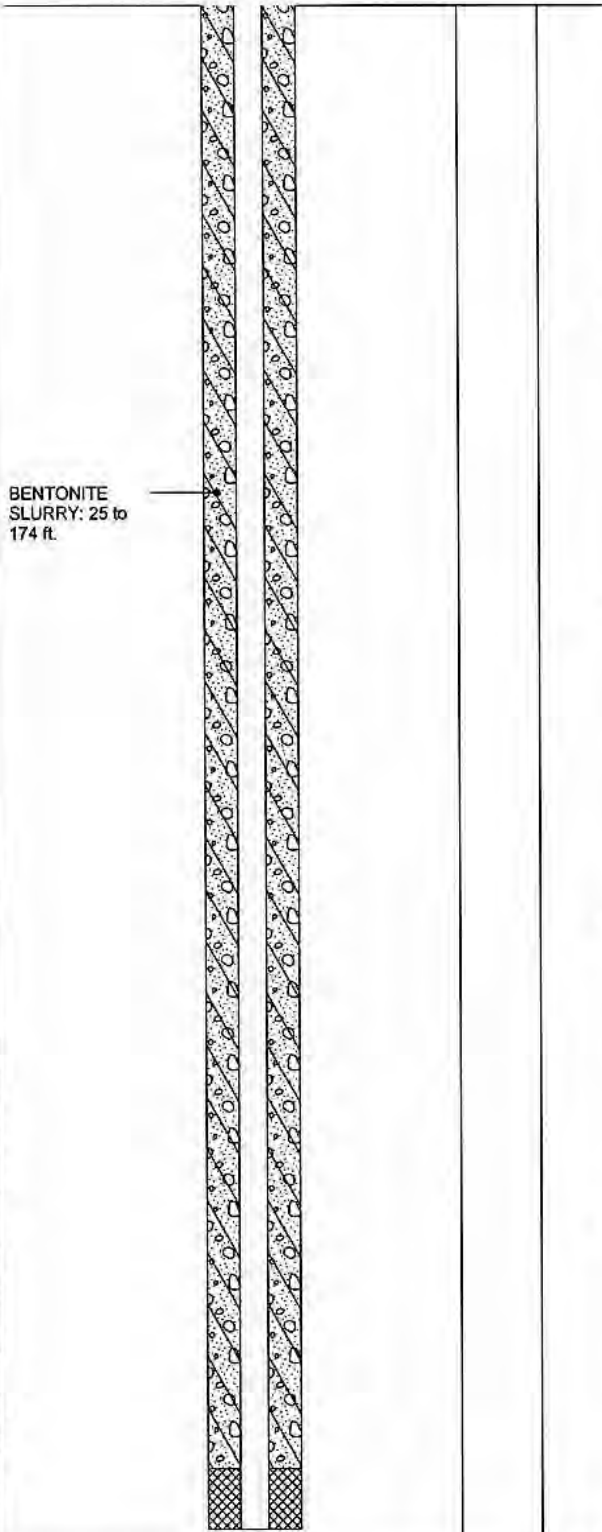
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MDT / cm

DATE  
11/04

REVISED DATE

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Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A5**

DRAWN  
MBP

JOB NUMBER  
55596 001701

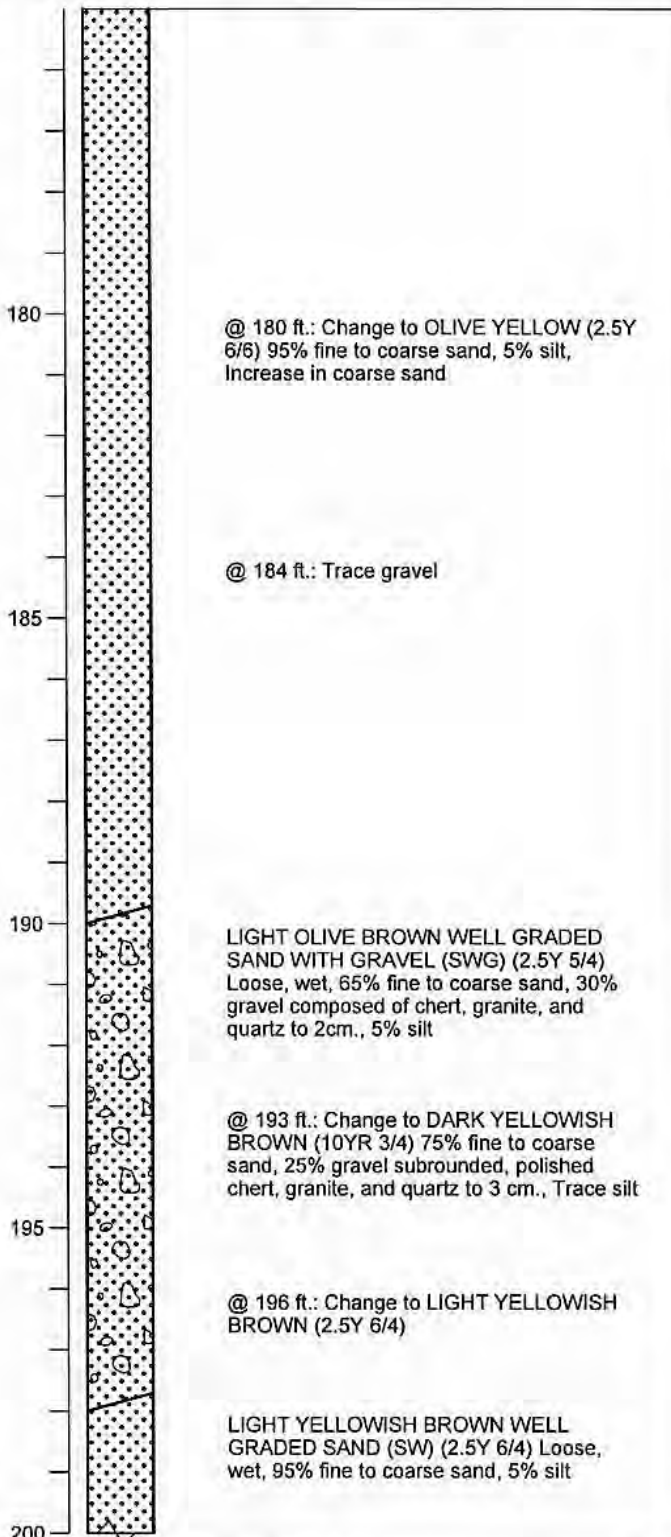
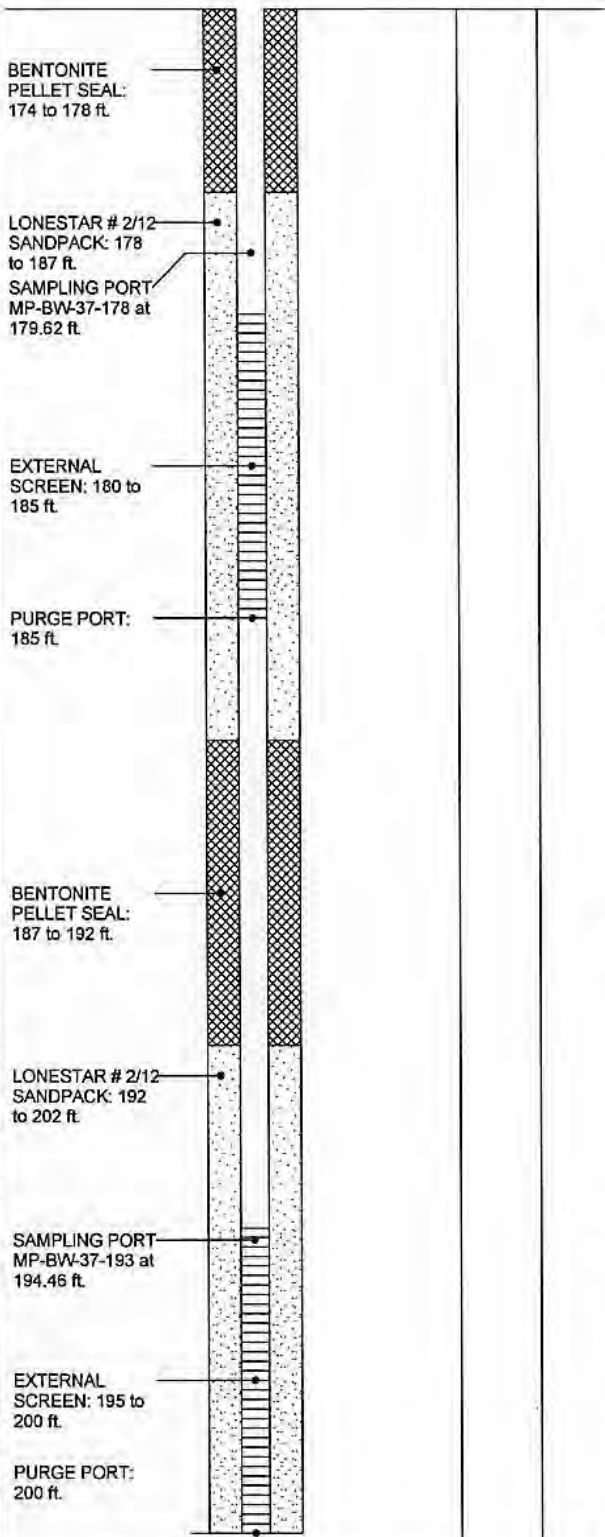
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DATE  
11/04

REVISED DATE

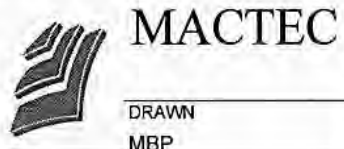
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 Drilling Method Sonic  
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 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37** PLATE  
 OUCTP



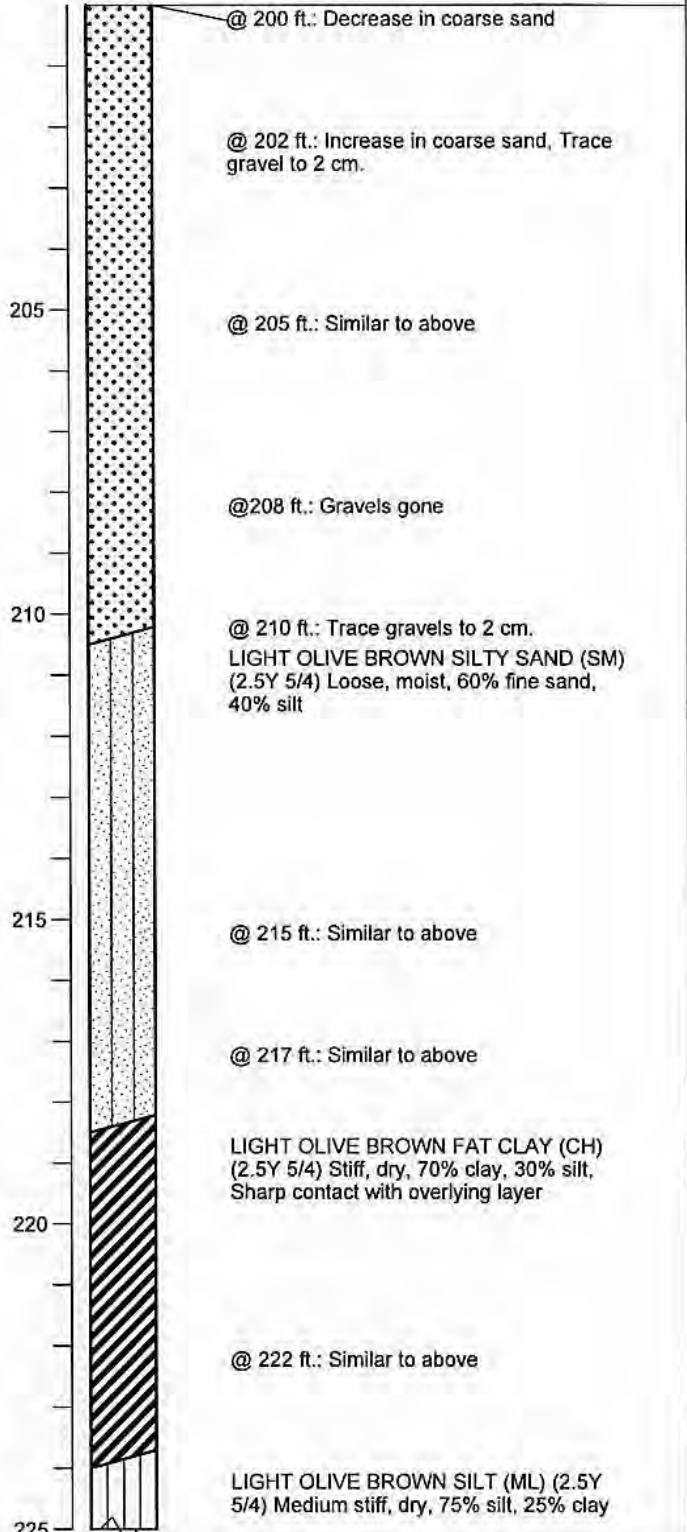
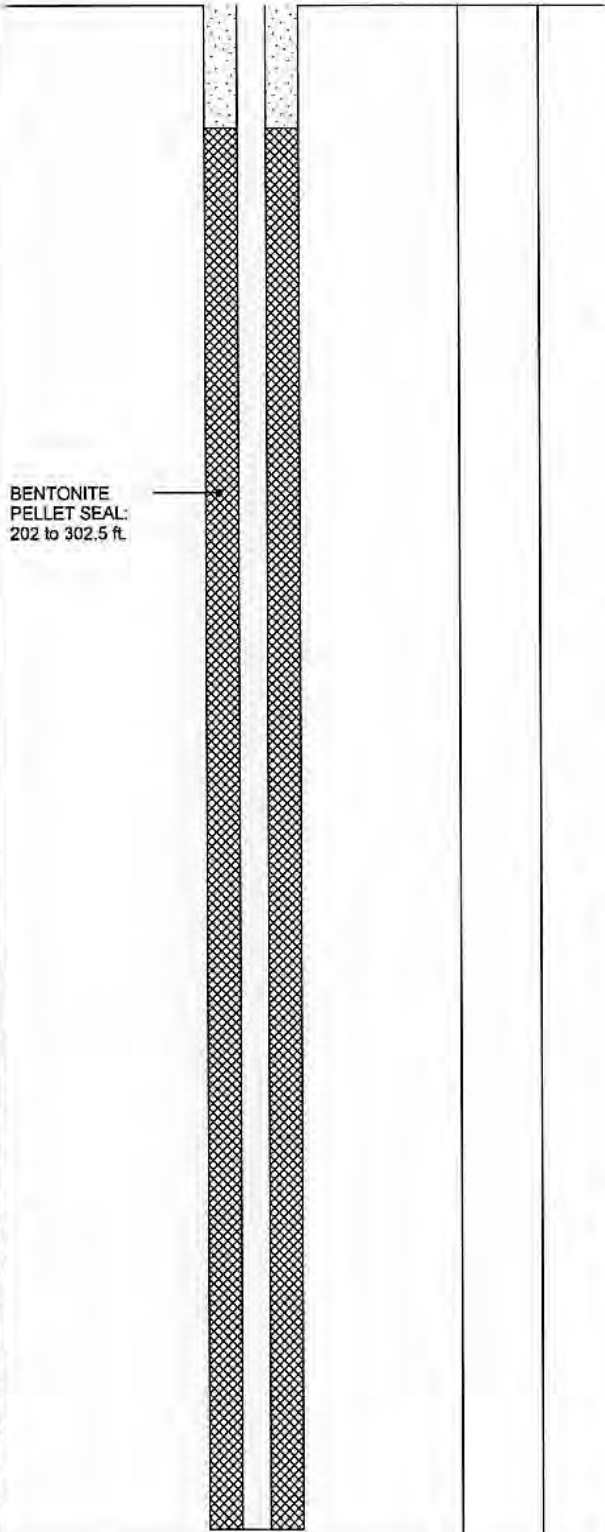
Fort Ord, California **A5**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT</i> / <i>ew</i>	DATE 11/04
			REVISED DATE



Completion Date 11/17/2002  
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPVE.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MP-BW-37**  
 OUCTP

PLATE

**A5**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

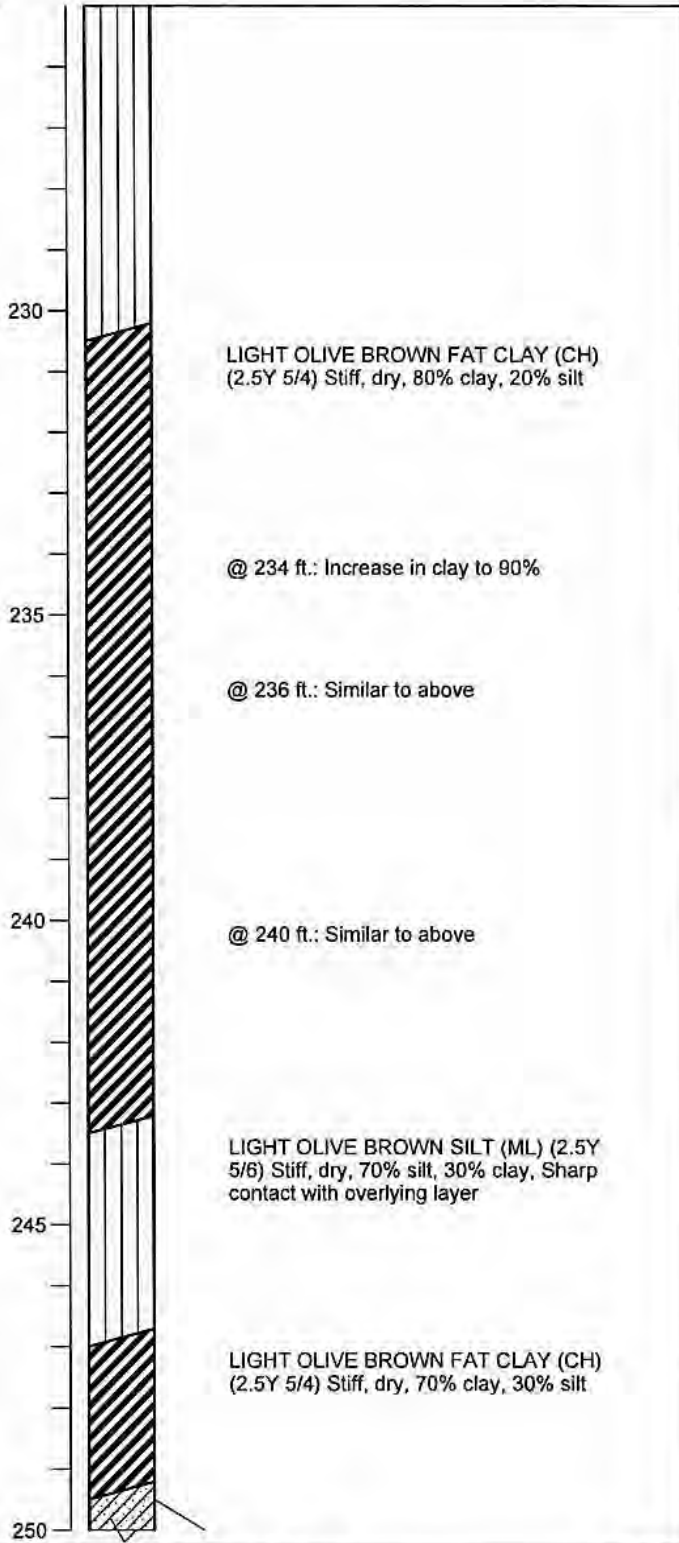
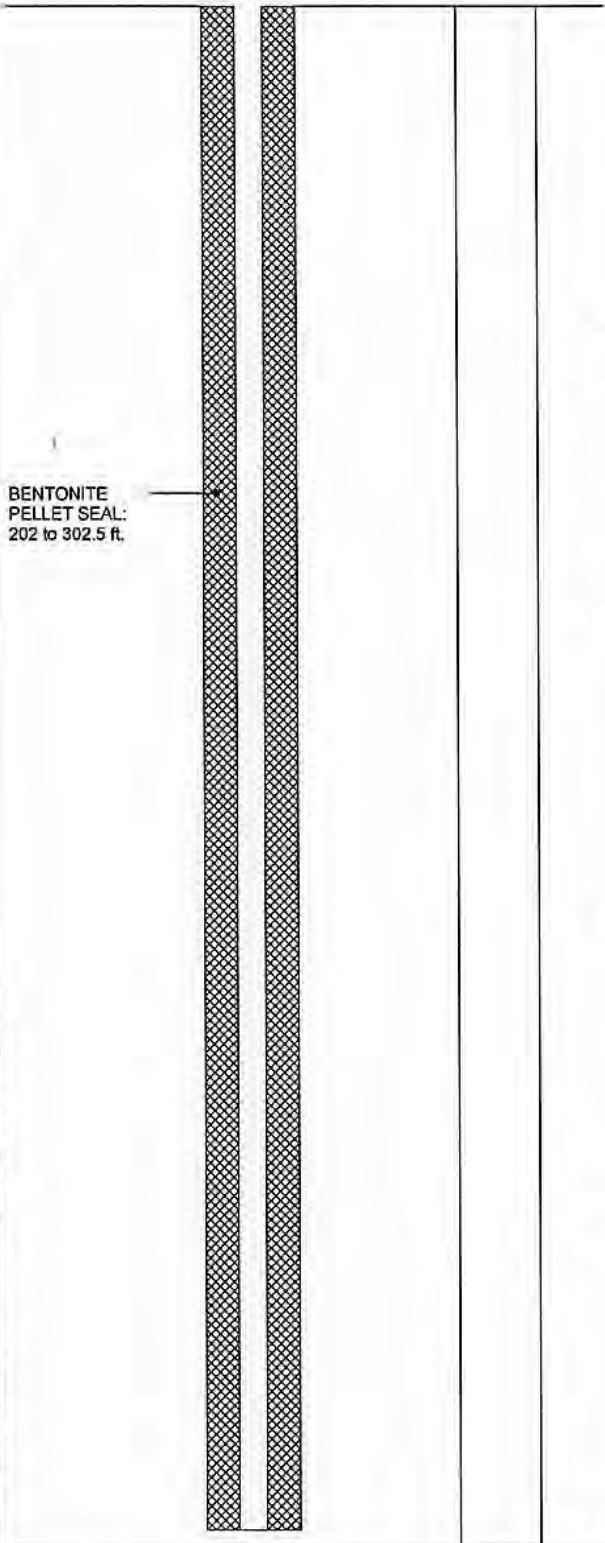
Fort Ord, California  
 APPROVED  
*MDT / MBP*

DATE  
 11/04

REVISED DATE

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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-37**

PLATE



**MACTEC**

Fort Ord, California

**A5**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

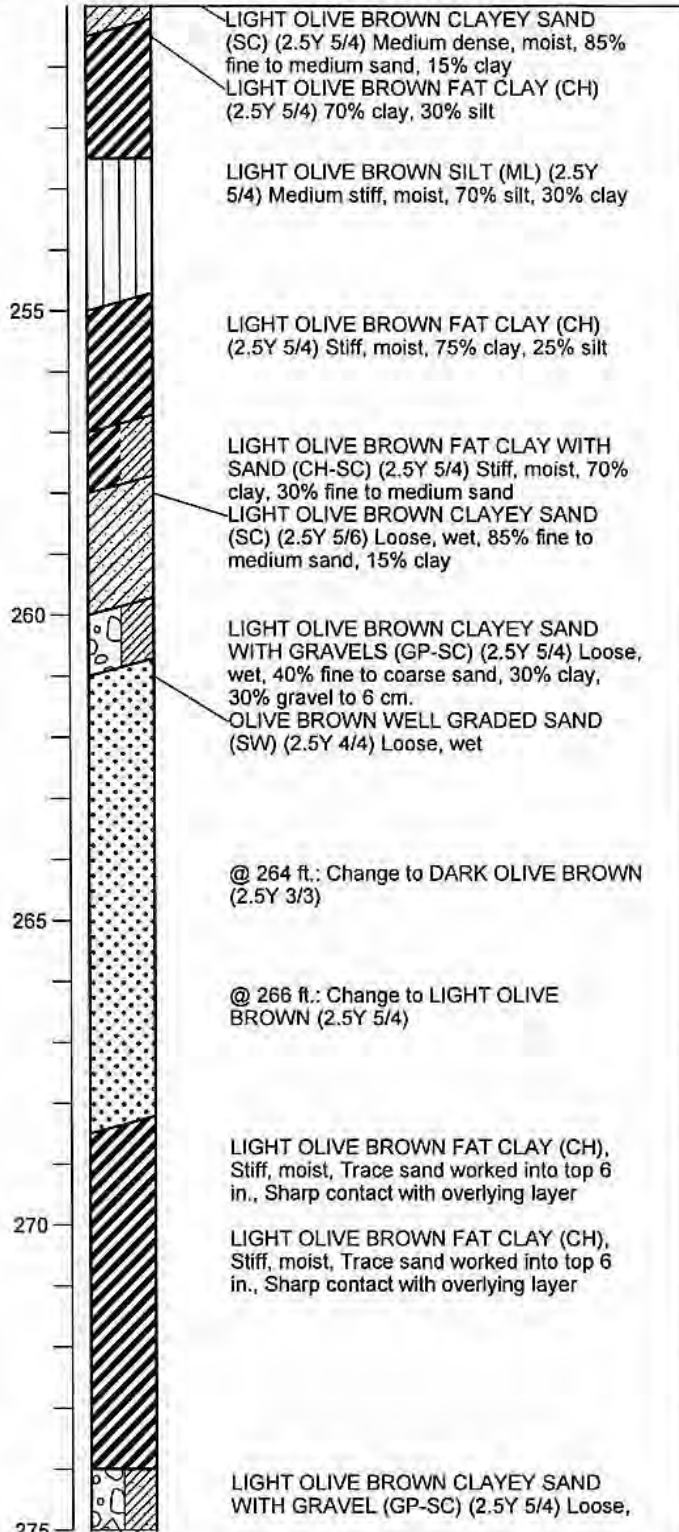
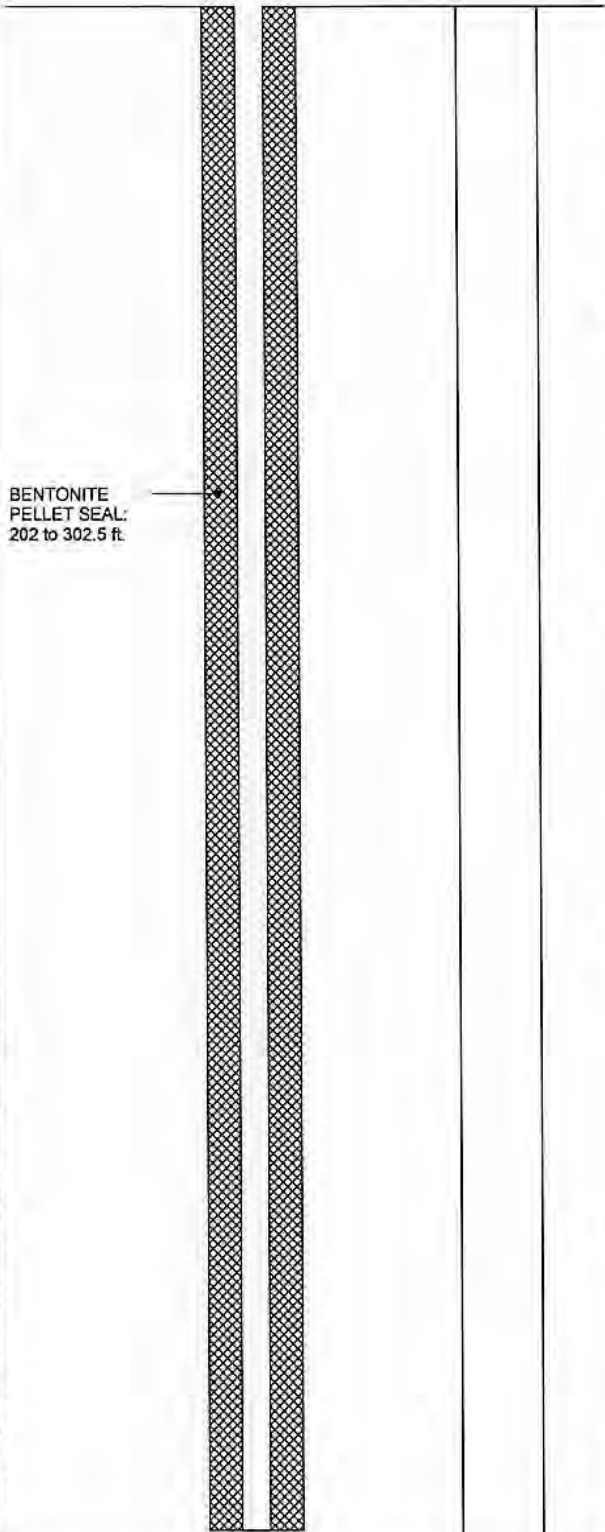
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DATE  
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37**

PLATE



**MACTEC**

Fort Ord, California

**A5**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / um*

DATE  
11/04

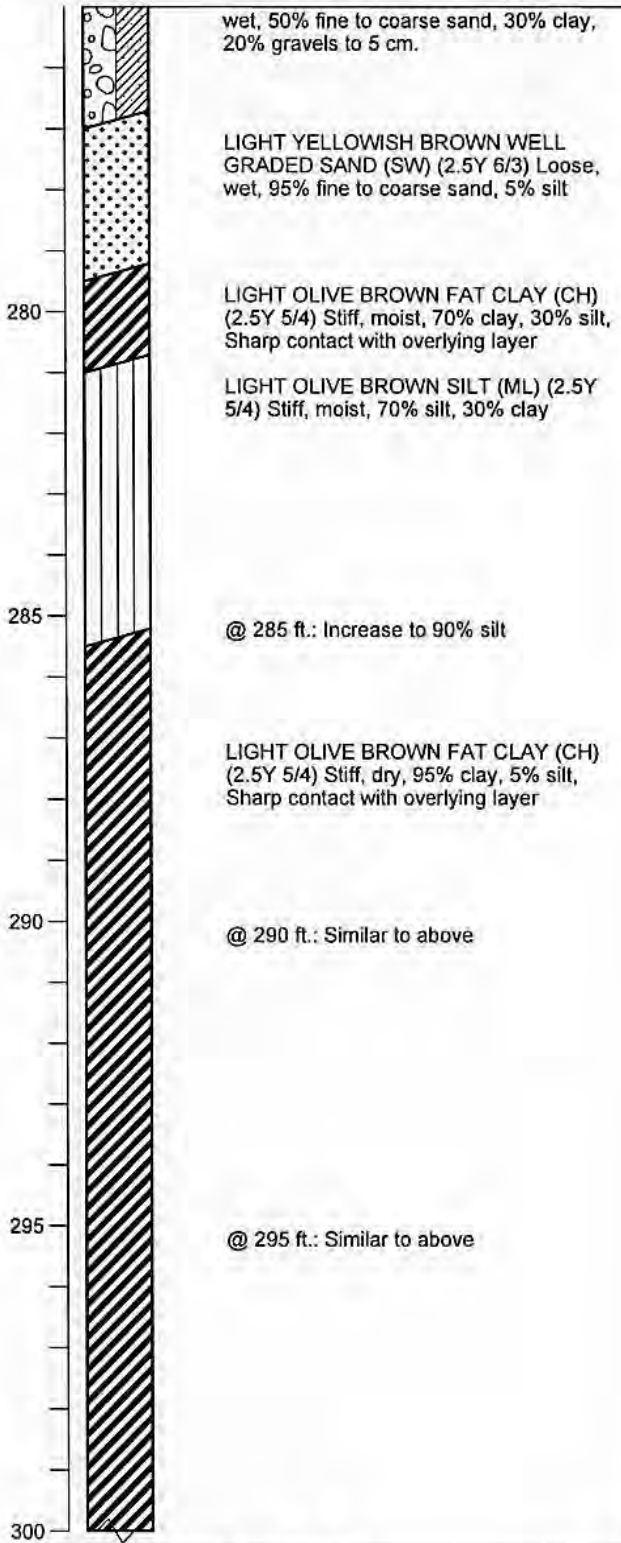
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Depth (ft.)  
 Sample

BENTONITE  
 PELLET SEAL:  
 202 to 302.5 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37

PLATE



MACTEC

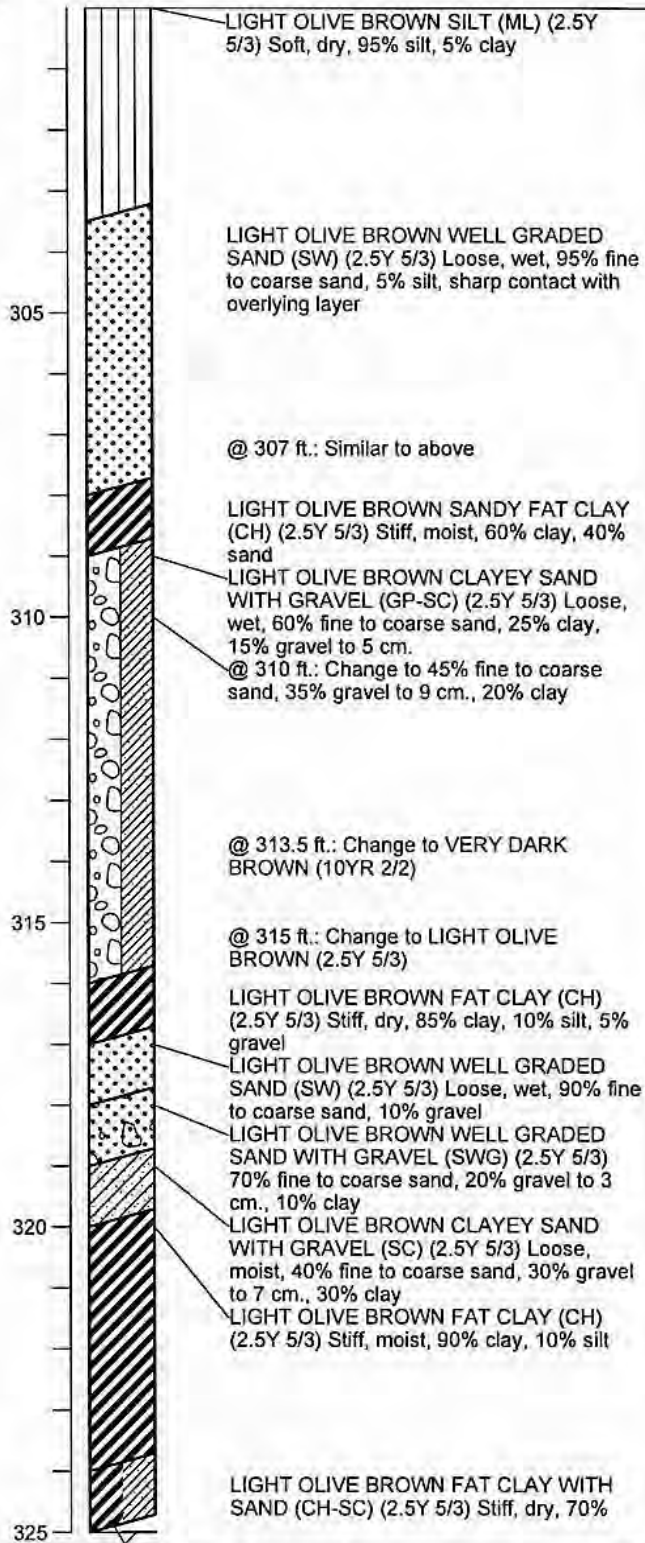
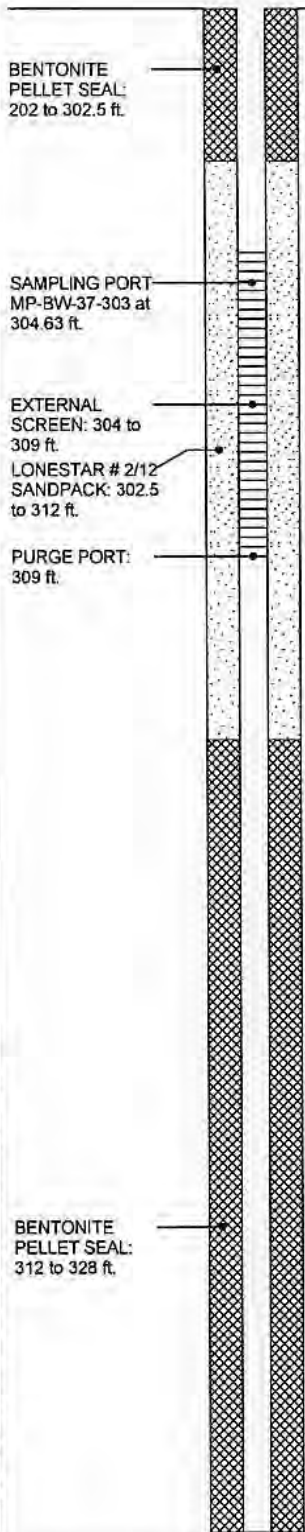
Fort Ord, California

A5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
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Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37** PLATE  
 OUCTP



**MACTEC**

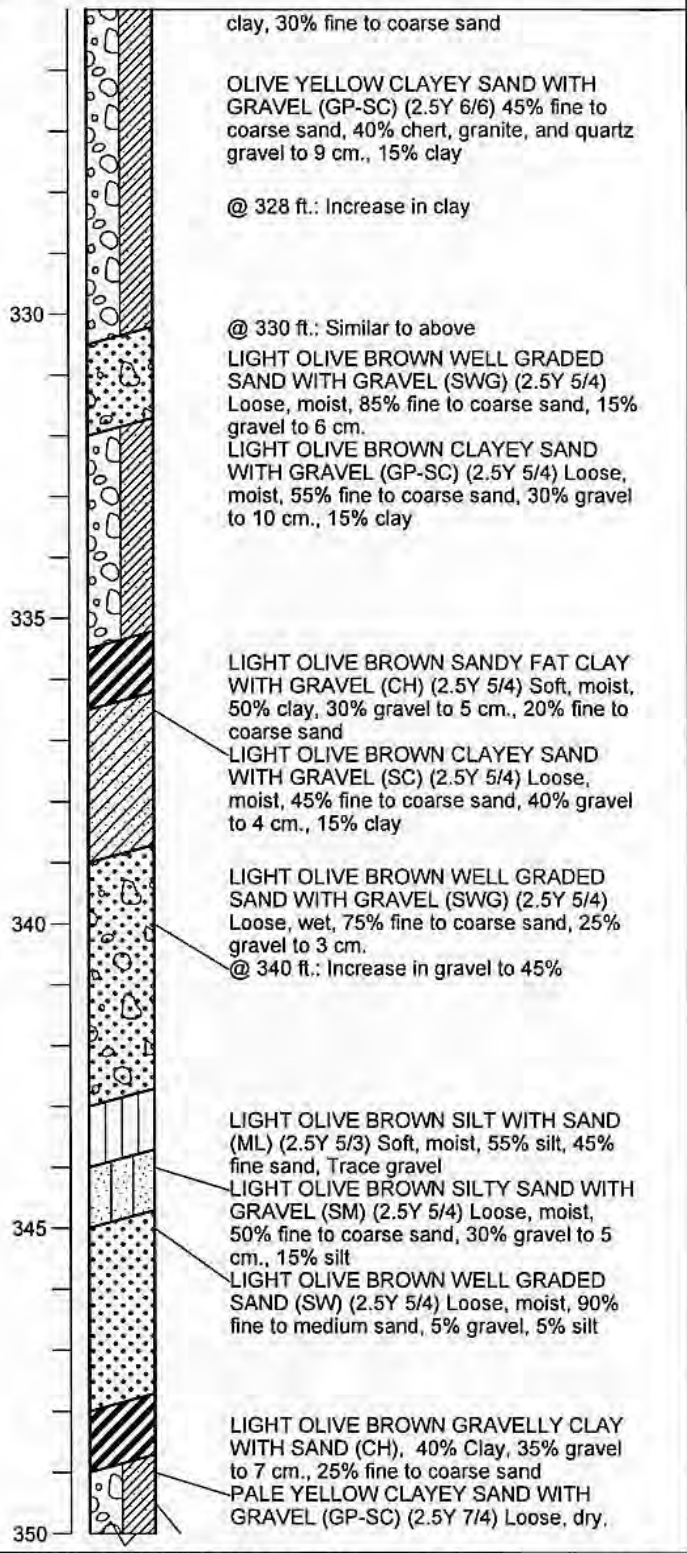
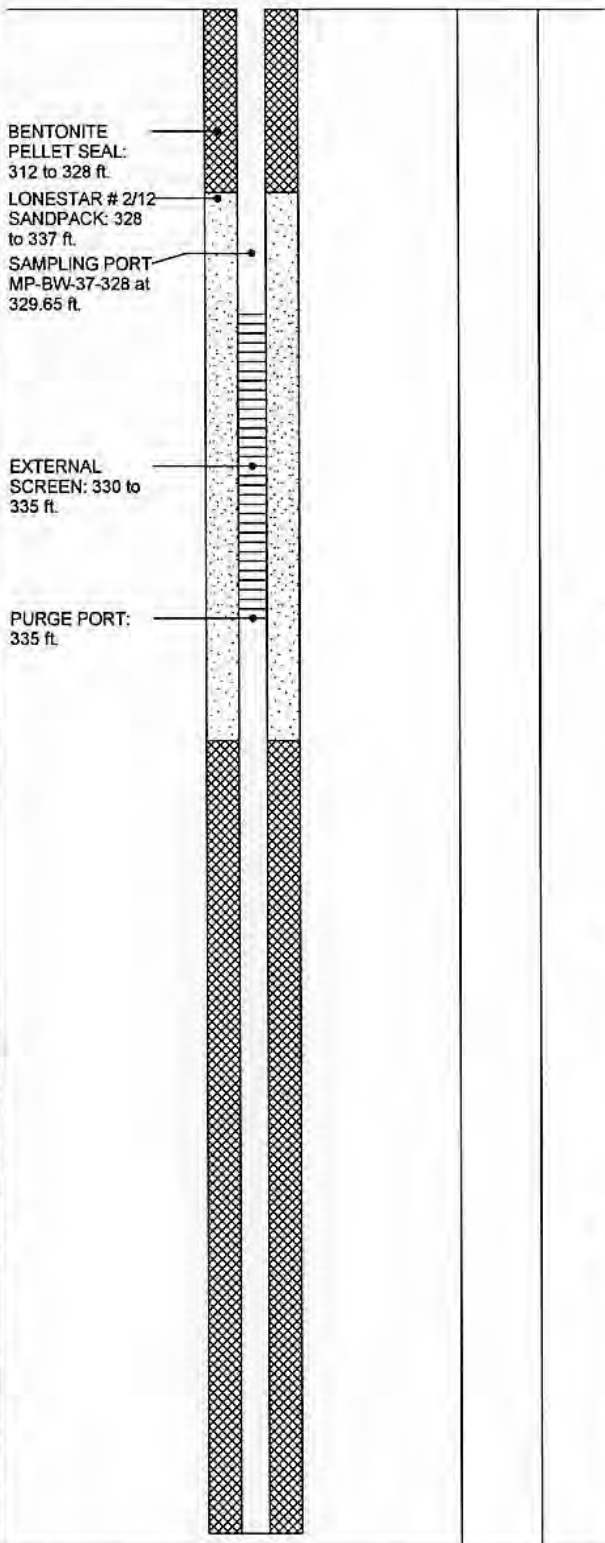
Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/lm</i>	11/04	

**A5**

Completion Date 11/17/2002  
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37 PLATE



**MACTEC**

DRAWN MBP  
 JOB NUMBER 55596 001701

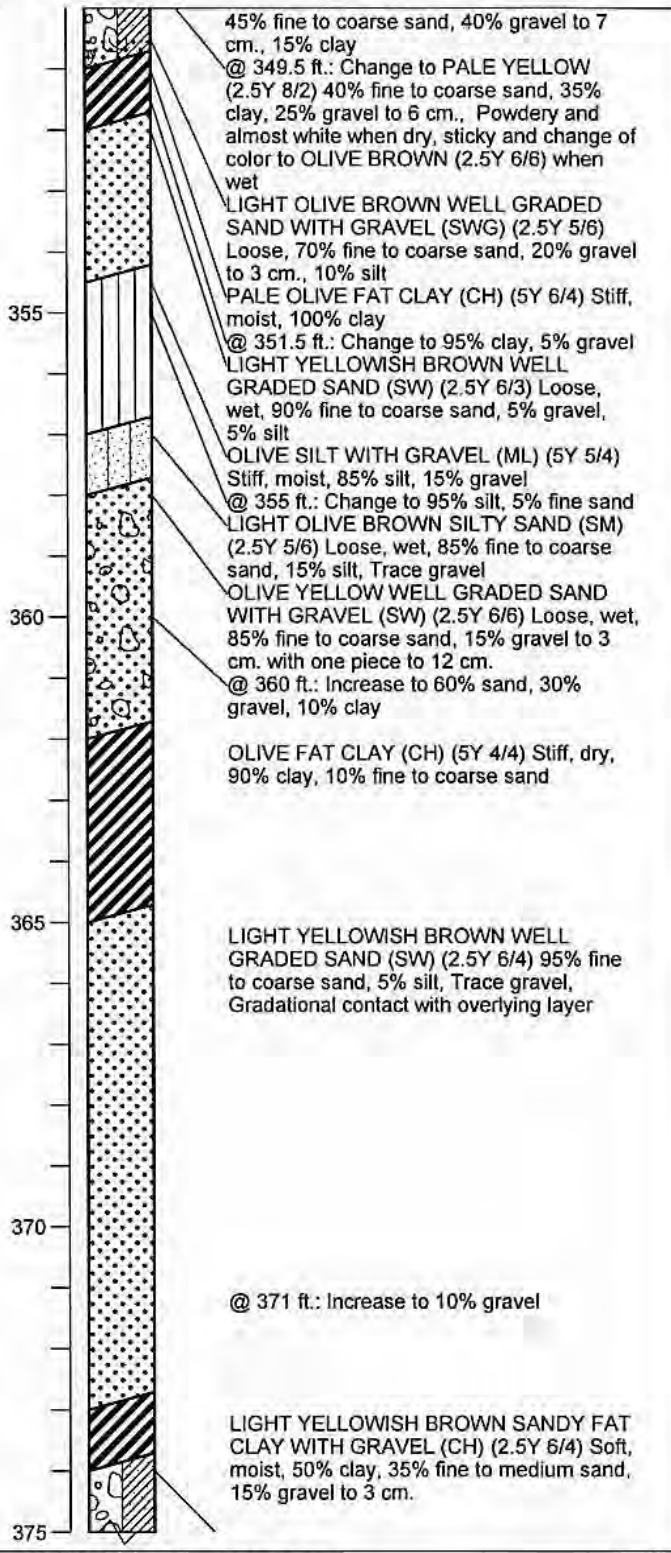
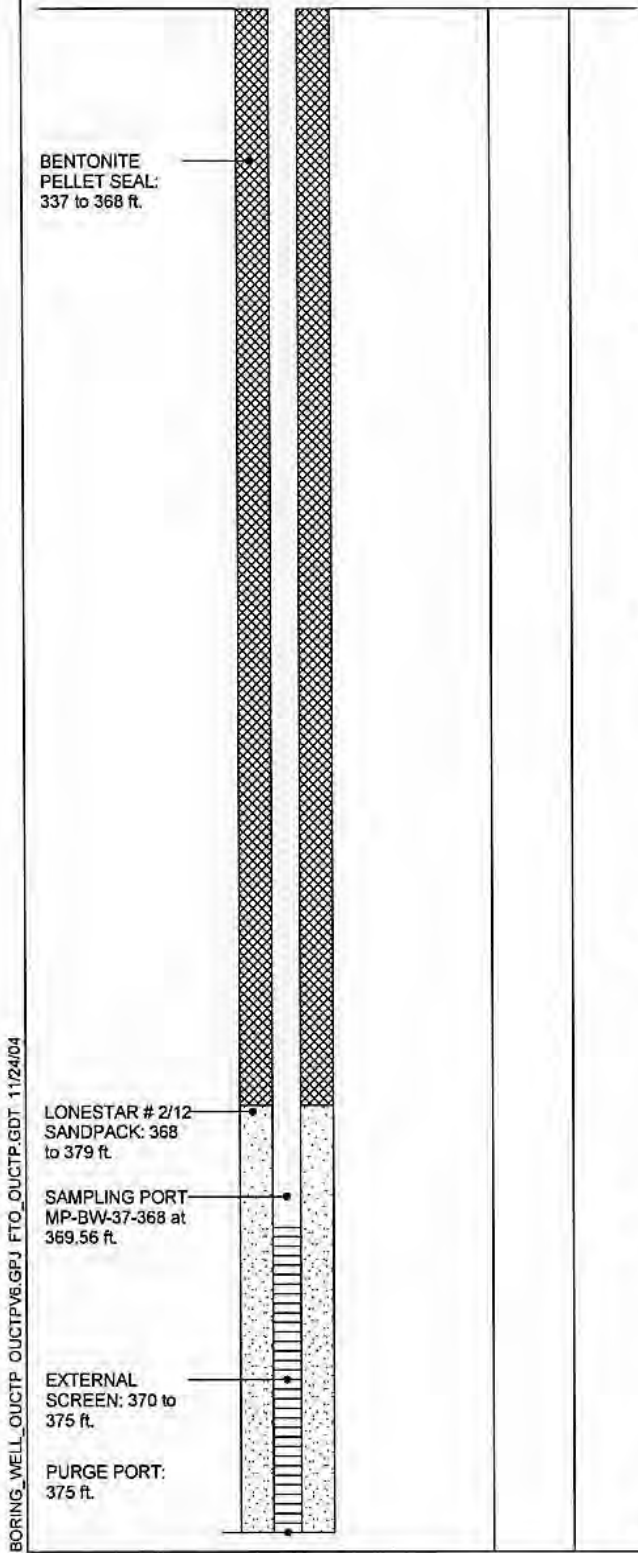
Fort Ord, California  
 APPROVED *MST / cu*

DATE 11/04  
 REVISED DATE

**A5**

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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37** PLATE  
 OUCTP

**A5**



**MACTEC**

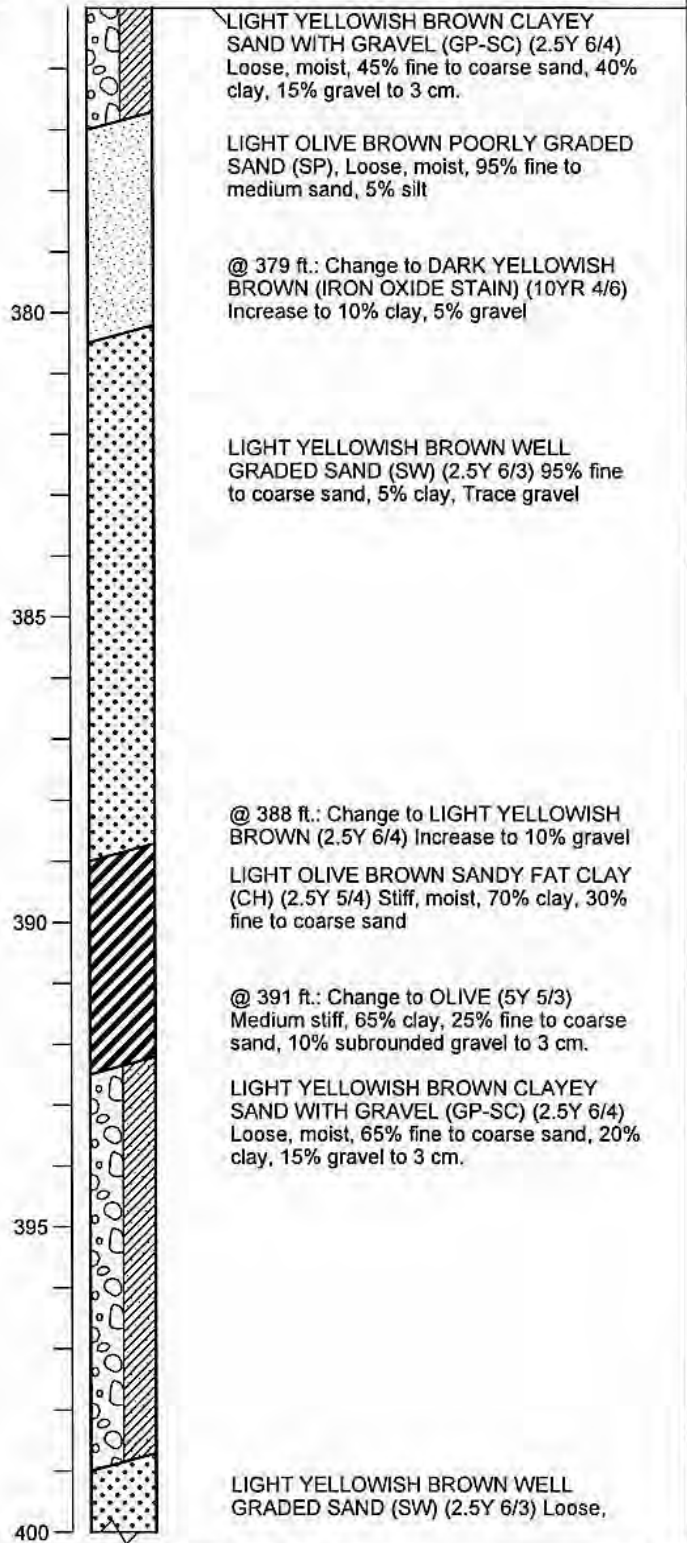
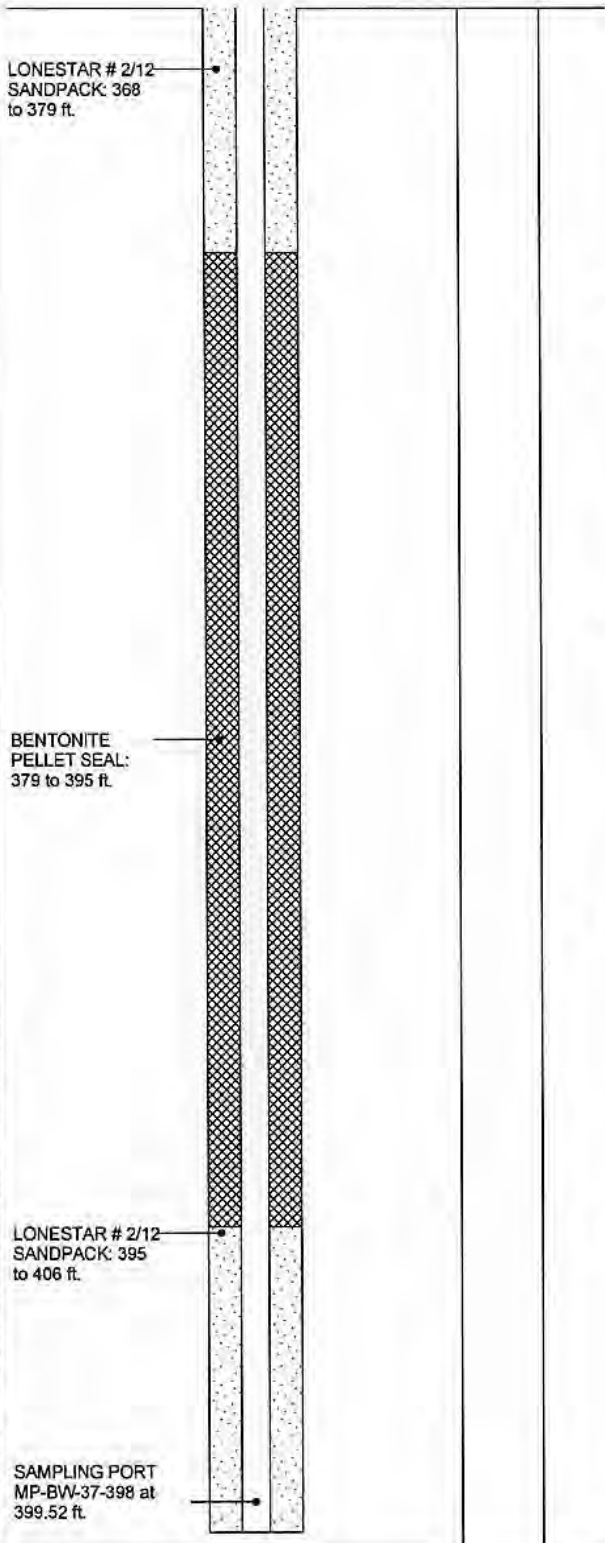
Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37  
 OUCTP

PLATE



MACTEC

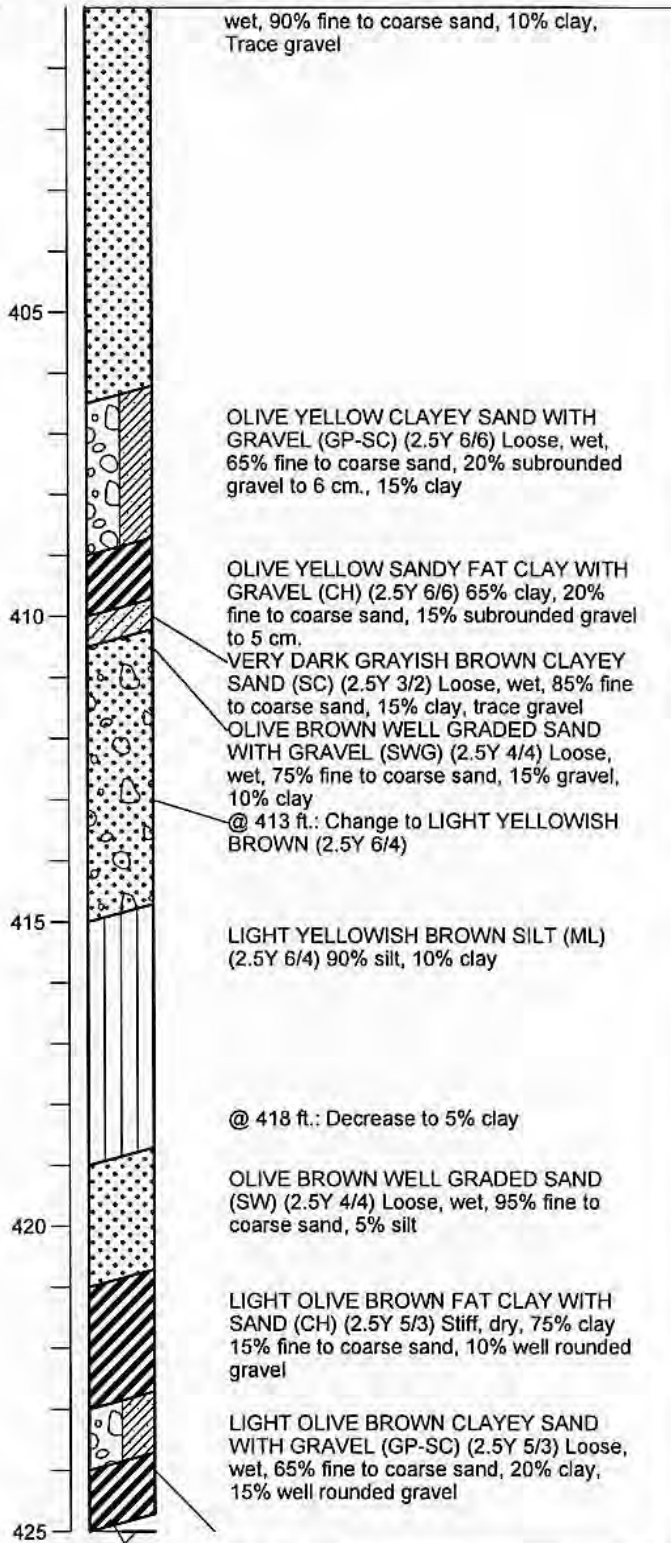
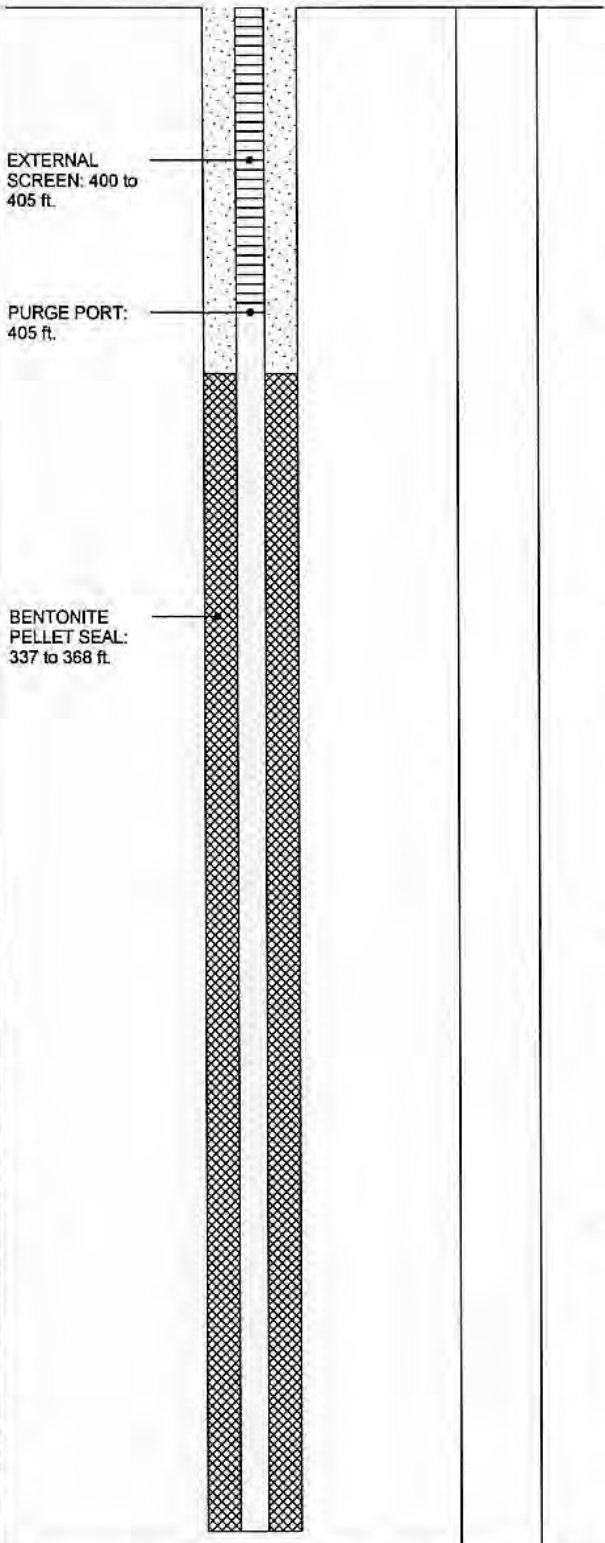
Fort Ord, California

A5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
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 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-37** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

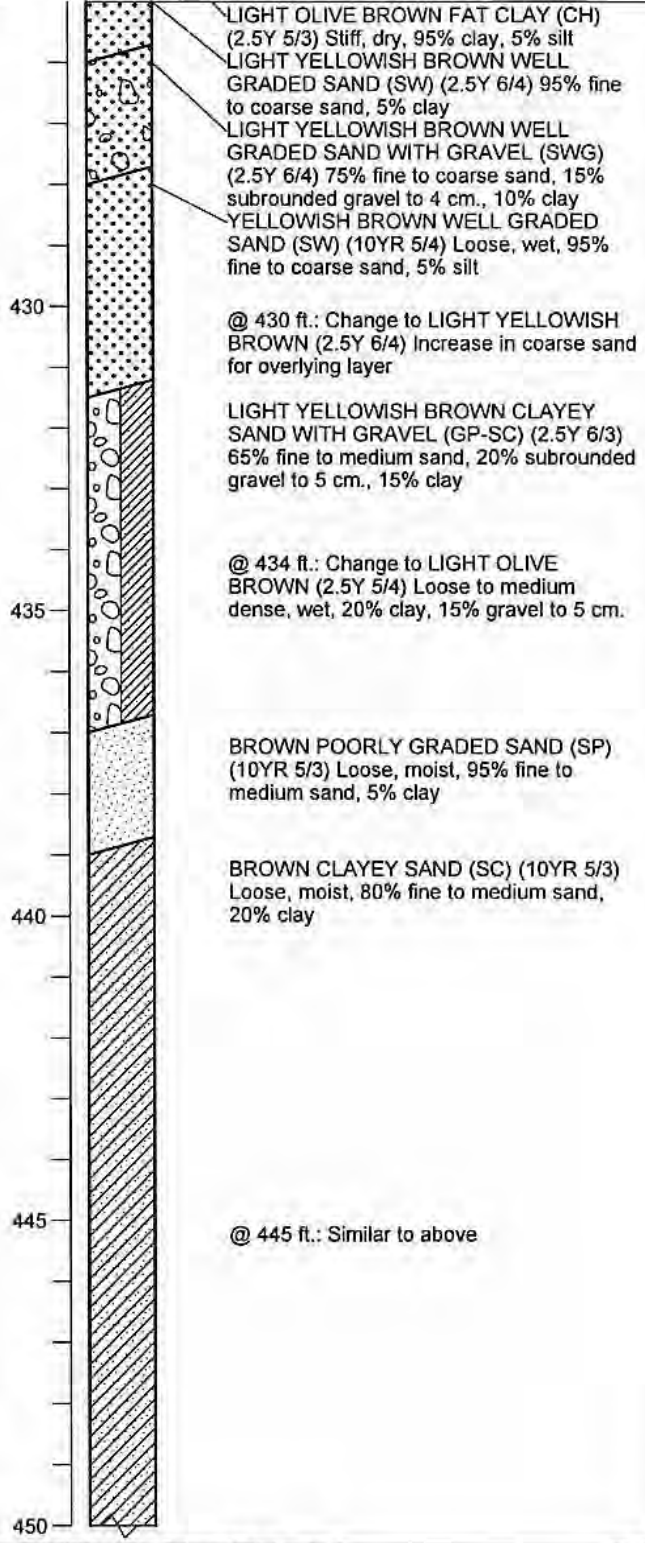
**A5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 11/17/2002  
 Drilling Method Sonic  
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 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
 Sample

BENTONITE  
 PELLET SEAL:  
 405 to 452 ft.



BORING WELL OUCTP V6 GPJ FTO OUCTP GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MP-BW-37  
 OUCTP

PLATE

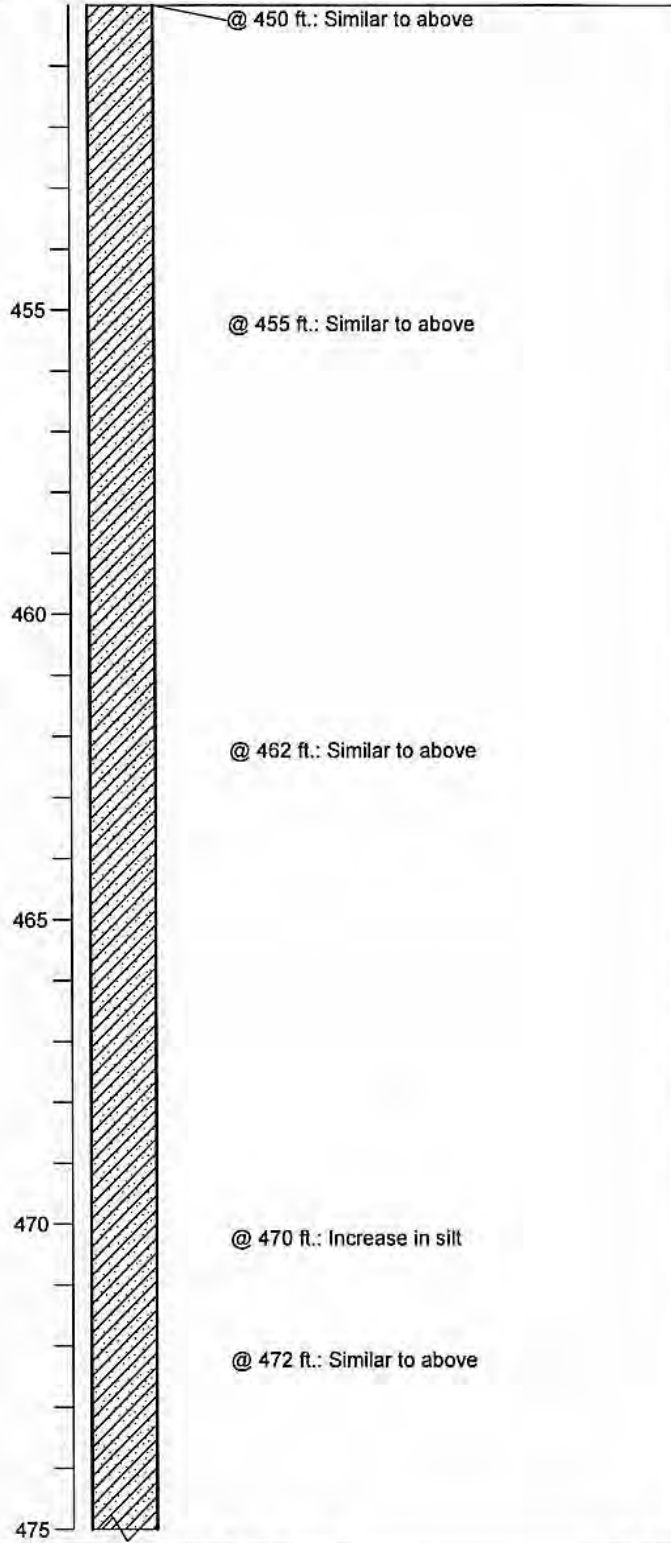
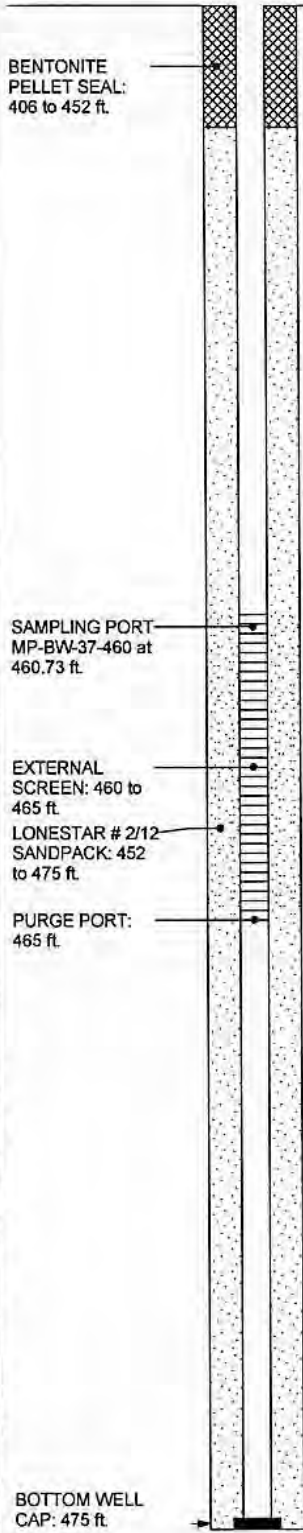
**A5**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-37 PLATE  
 OUCTP



Fort Ord, California

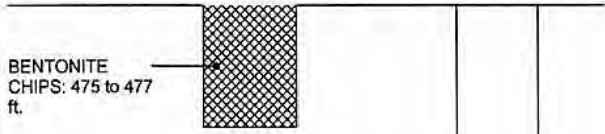
**A5**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / CW</i>	11/04	

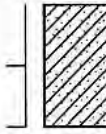


Completion Date 11/17/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 137.14 ft. Hole Dia. 7 in.  
 Northing 2141842.89 Easting 5747152.99

Depth (ft.)  
 Sample



BENTONITE  
 CHIPS: 475 to 477  
 ft.



Bottom of boring at 477 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-37  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A5**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

DATE  
 11/04

REVISED DATE

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Top of PVC Casing  
 Elev. 126.17 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

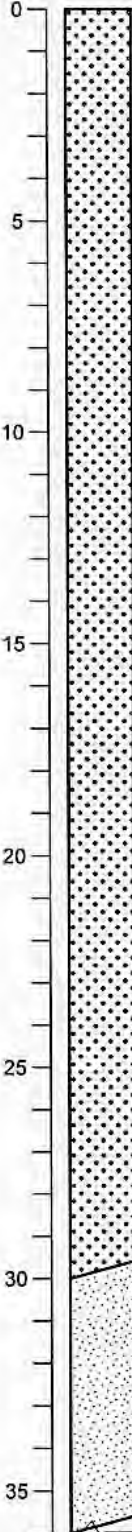
7 in. DIAMETER  
 BOREHOLE: 0 to  
 457 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 433  
 ft.

BENTONITE  
 -CEMENT SEAL: 0  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 314.5 ft.

Depth (ft.)  
 Sample



LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 6/4) Loose,  
 dry, 90% fine to coarse sand, 10% silt

@ 4 ft.: Change to BROWNISH YELLOW  
 WELL GRADED SAND (10YR 6/6)  
 @ 5 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6)

@ 10 ft.: Similar to above

@ 12 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6) 95% fine to coarse sand, 5% silt

@ 14 ft.: Increase in coarse sand

@ 15 ft.: Similar to above

@ 16 ft.: Increase to 10% silt

@ 18 ft.: 95% fine to coarse sand, 5% silt

@ 20 ft.: Similar to above

@ 22 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Similar to above

@ 26 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/4)

OLIVE YELLOW POORLY GRADED SAND  
 (SP) (2.5Y 6/6) Loose, dry, 95% fine to  
 medium sand, 5% silt

@ 35 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-38  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A6**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

DATE  
 11/04

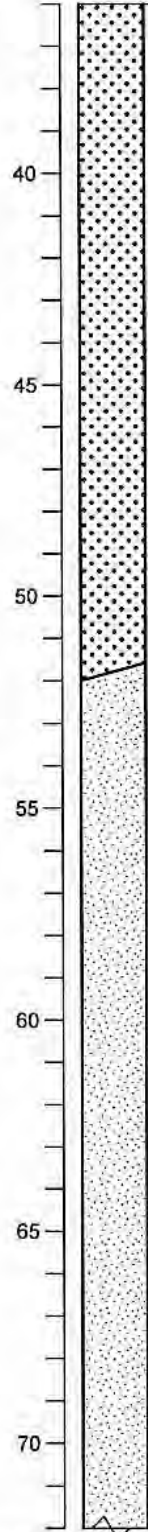
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Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 314.5 ft.



YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

@ 40 ft.: Similar to above

@ 42 ft.: Change to BROWNISH YELLOW (10YR 6/6) Loose, dry

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/8) Loose, dry, 95% fine to medium sand, 5% silt

@ 55 ft.: Similar to above

@ 60 ft.: Change to OLIVE YELLOW (2.5Y 6/6)

@ 62 ft.: Change to BROWNISH YELLOW (10YR 6/6)

@ 65 ft.: Similar to above

@ 68 ft.: Change to YELLOWISH BROWN (10YR 5/8)

@ 70 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-38**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A6**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

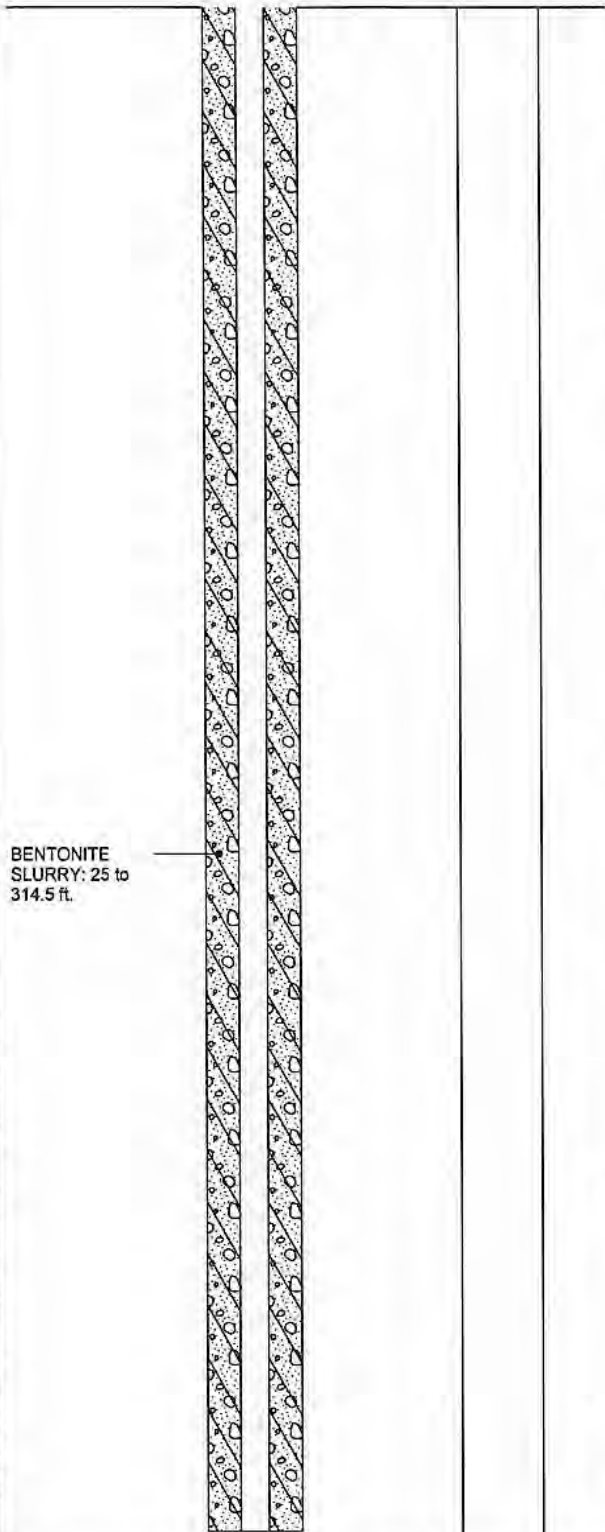
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*MDT Jan*

DATE  
 11/04

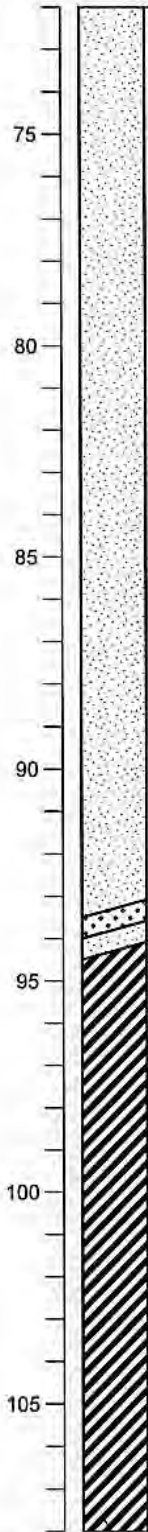
REVISED DATE

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 314.5 ft.



@ 72 ft.: Change to Loose, wet,  
 @ 75 ft.: Similar to above  
 @ 80 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6)  
 @ 84 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/3)  
 @ 86 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6) 90% fine to medium sand, 10%  
 silt  
 @ 90 ft.: Similar to above  
 @ 92 ft.: Similar to above  
 LIGHT OLIVE BROWN WELL GRADED  
 SAND (SW) (2.5Y 5/4) Loose, wet, 95% fine  
 to coarse sand, 5% silt  
 LIGHT OLIVE BROWN POORLY GRADED  
 SAND (SP) (2.5Y 5/4) Loose, wet, 90% fine  
 to medium sand, 10% silt  
 OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff,  
 dry, 90% clay, 10% silt  
 @ 98 ft.: Change to LIGHT OLIVE BROWN  
 FAT CLAY (2.5Y 5/3) Medium stiff, dry,  
 mottled with white powdery chalky clay  
 @ 100 ft.: Similar to above  
 @ 102 ft.: Change to White chalky clay  
 gone

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38 PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

**A6**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

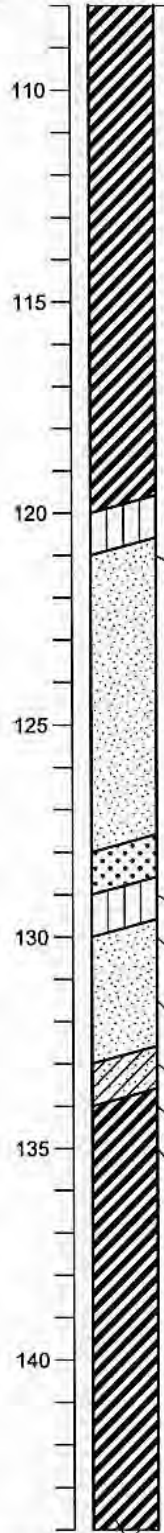
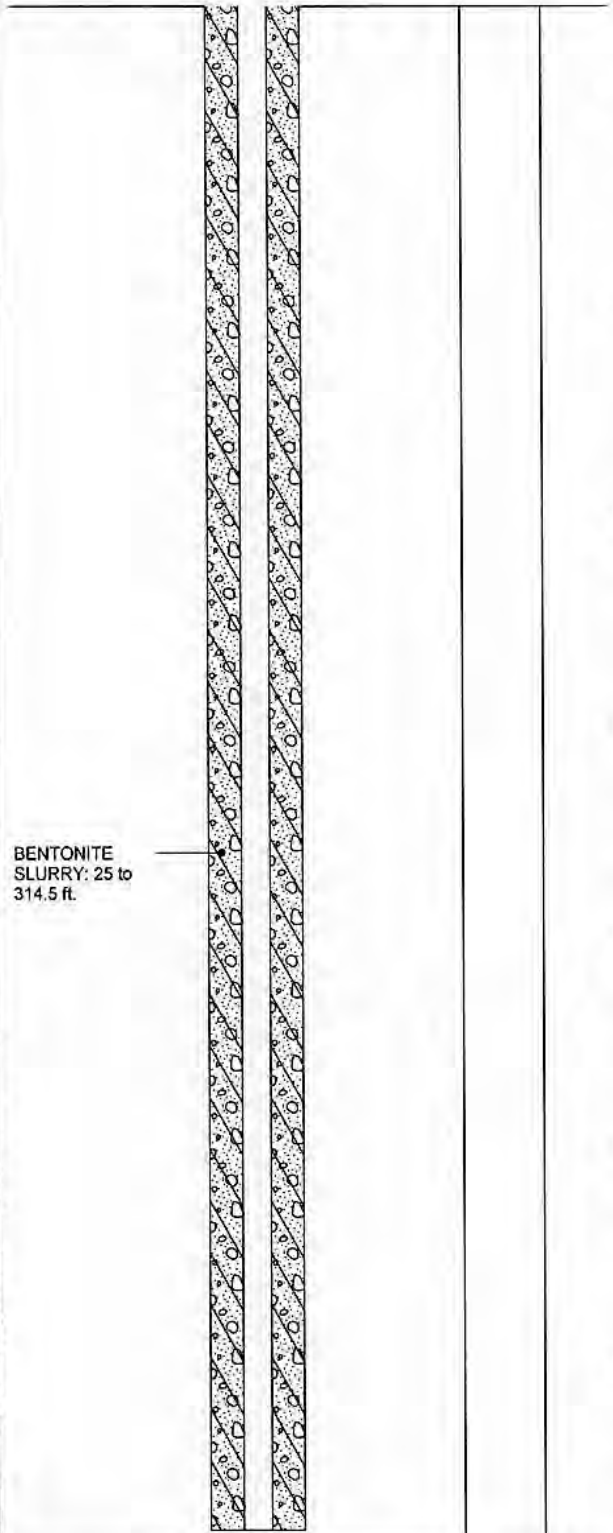
APPROVED  
*MDT*

DATE  
 11/04

REVISED DATE

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
Sample



@ 108 ft.: Change to DARK GREENISH GRAY (5G 4/1) Very stiff, dry, White chalky material appears at less than 5%

@ 110 ft.: Change to OLIVE (5Y 4/3)

@ 111 ft.: Change to OLIVE BROWN (2.5Y 4/4) 95% clay, 5% silt, White chalky material gone

@ 114 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 119 ft.: Change to 80% clay, 20% silt  
 LIGHT OLIVE BROWN SILT (ML) (2.5Y 5/4) Medium stiff, dry, 80% silt, 20% clay, Driller notes change at 120 ft.  
 LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, moist, 90% fine to medium sand, 10% silt

@ 126 ft.: Change to OLIVE (5Y 5/3) Slight increase in coarse sand

OLIVE WELL GRADED SAND (SW) (5Y 5/3) Loose, moist, 90% fine to coarse sand, 10% silt  
 LIGHT OLIVE BROWN SANDY SILT (ML) (2.5Y 5/4) Soft, moist, 60% silt, 40% fine sand  
 LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/4) Loose, moist, 90% sand, 10% silt  
 @ 131.5 Change to LIGHT GRAY (2.5Y 7/2) Loose, dry  
 OLIVE CLAYEY SAND (SC) (5Y 4/3) Loose, wet, 80% fine to coarse sand, 20% clay  
 OLIVE FAT CLAY (CH) (5Y 4/3) Stiff, dry, 95% clay, 5% silt, Appears to be sharp contact with an erosional surface

@ 135 ft.: Similar to above

@ 140 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE SLURRY: 25 to 314.5 ft.

Well Construction Details and Log of Boring MP-BW-38 PLATE  
 OUCTP



MACTEC

Fort Ord, California

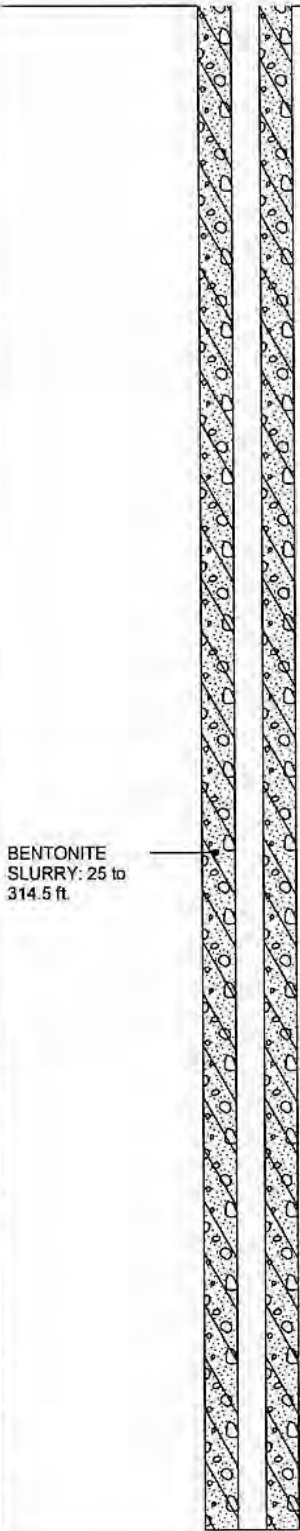
**A6**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

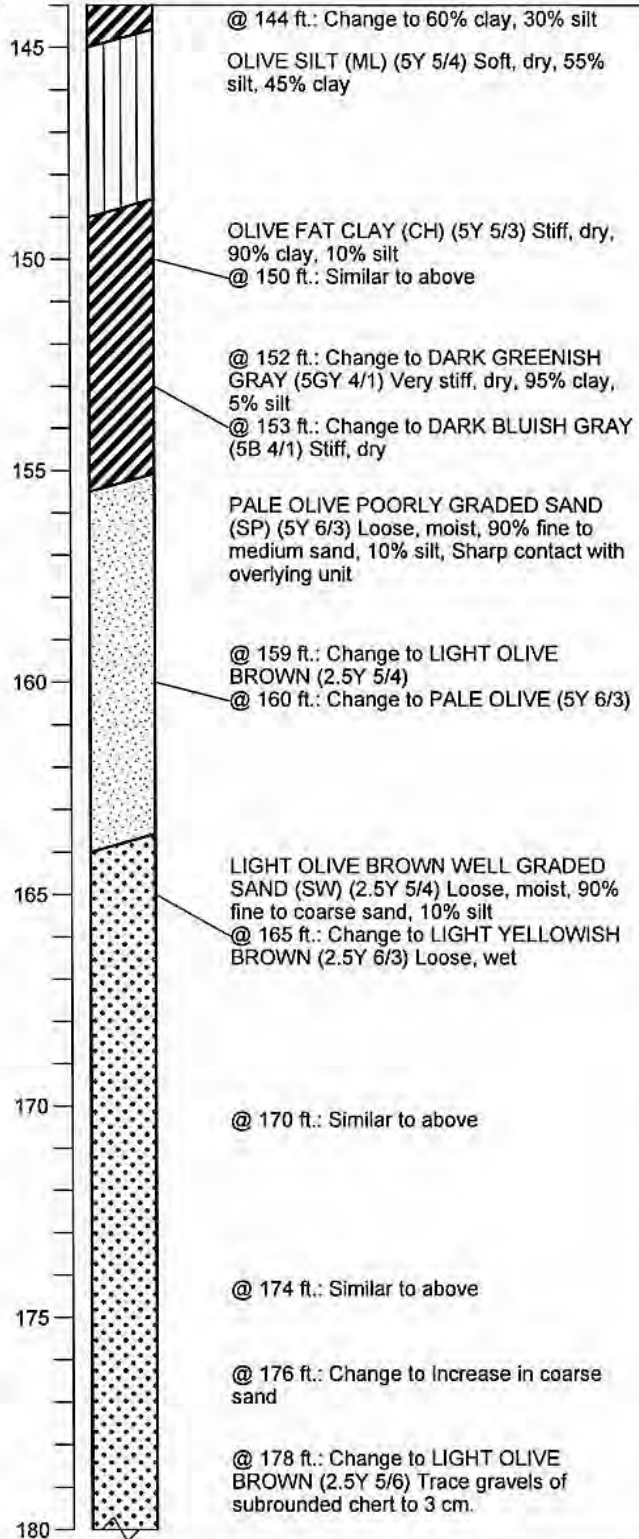


Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
314.5 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-38  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A6**

DRAWN  
MBP

JOB NUMBER  
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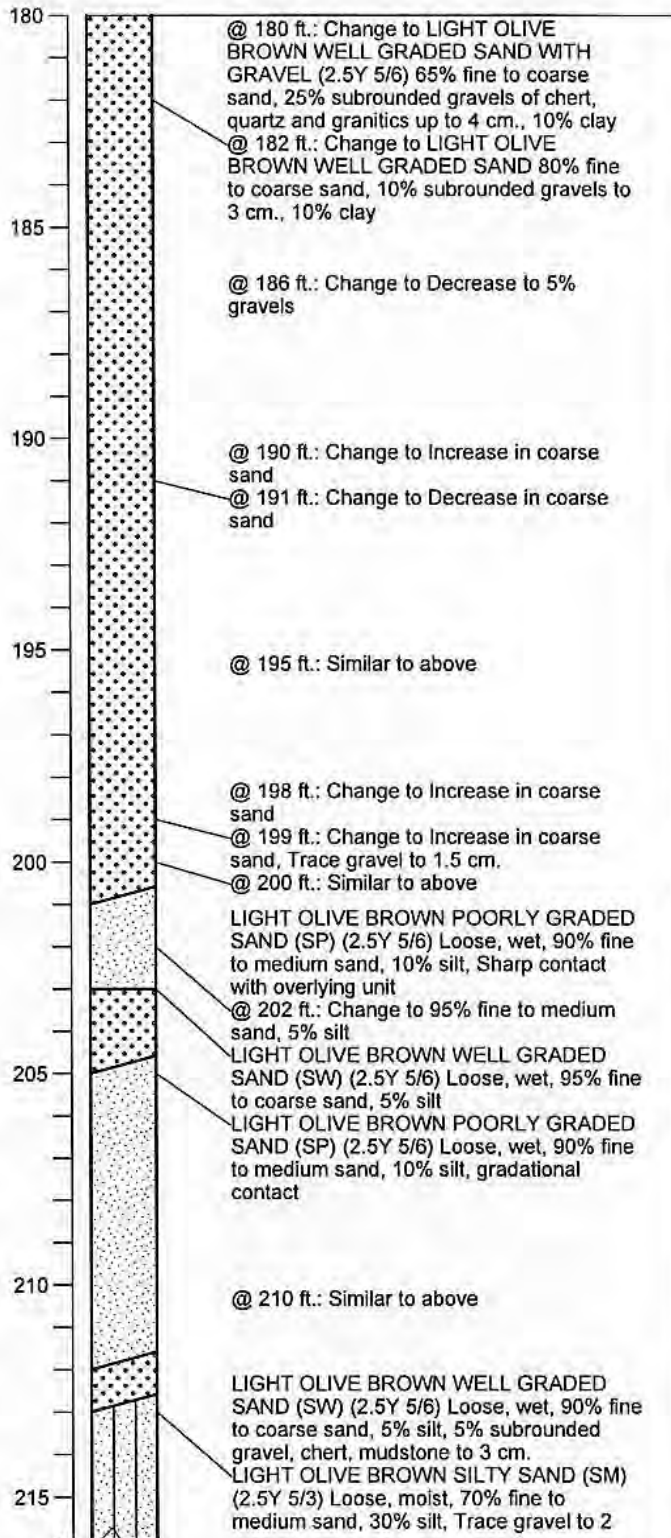
APPROVED  
*MDT/cm*

DATE  
11/04

REVISED DATE

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-38  
 OUCTP

PLATE



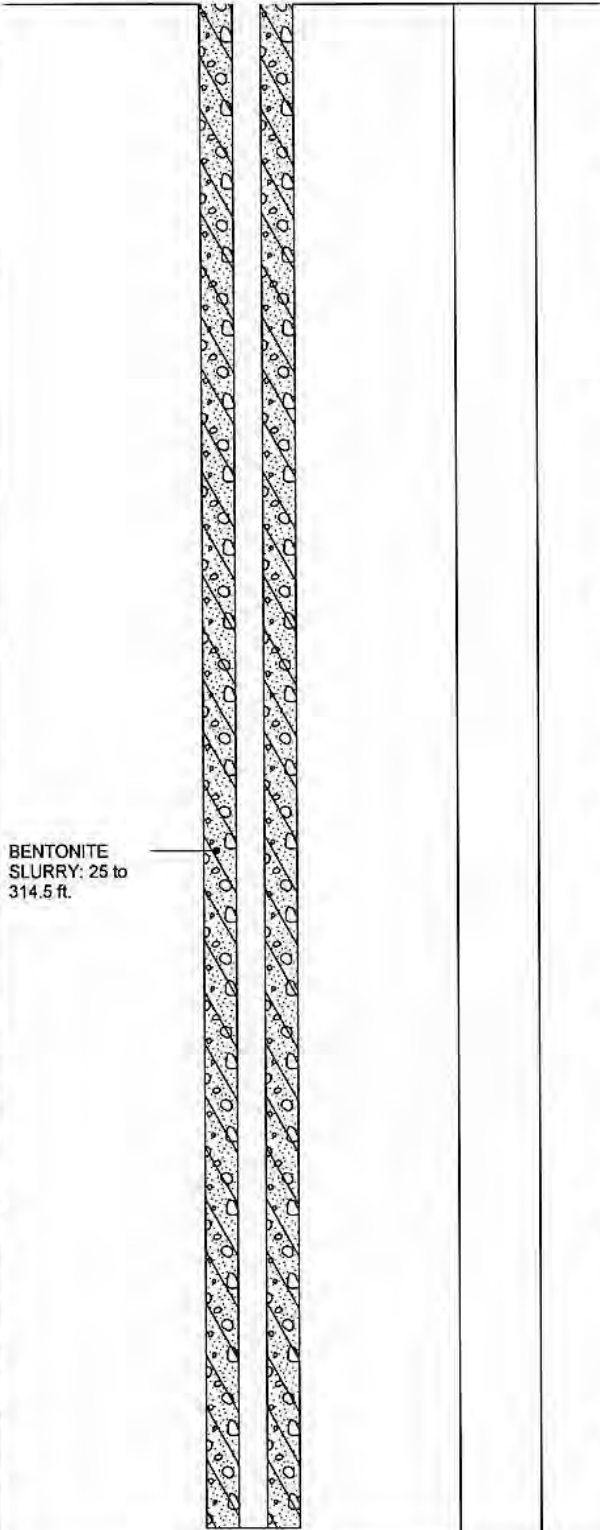
Fort Ord, California

**A6**

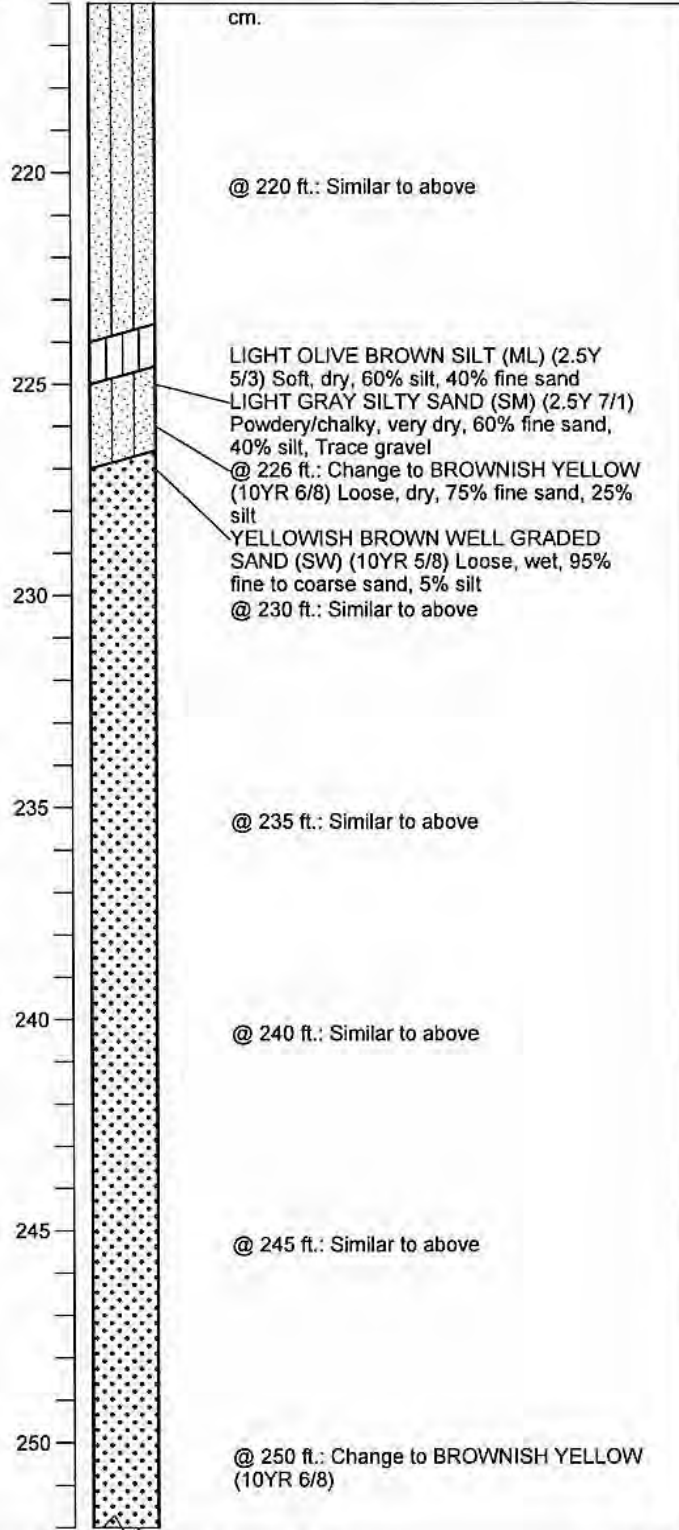
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MBP	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 314.5 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-38**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A6**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

DATE  
 11/04

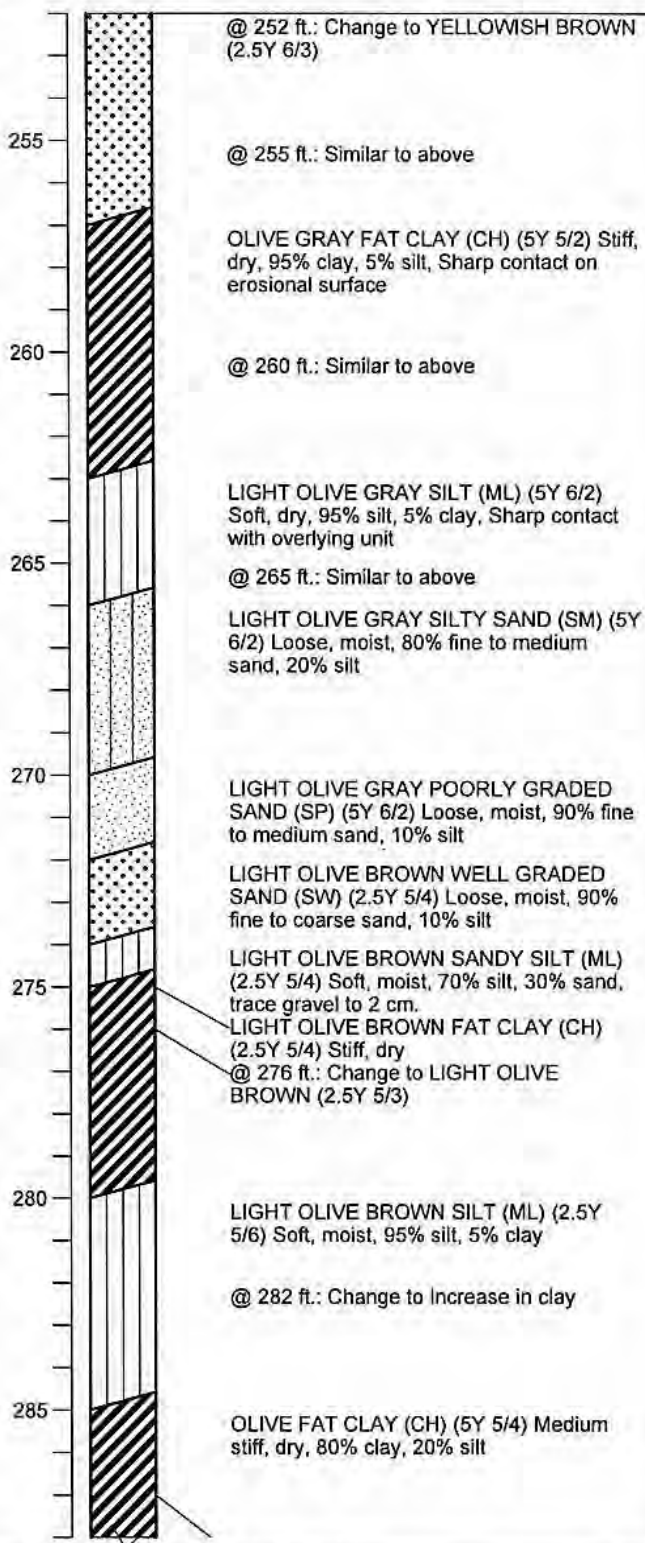
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Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
314.5 ft.

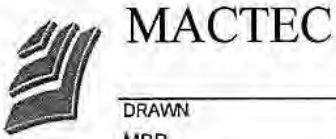


@ 252 ft.: Change to YELLOWISH BROWN (2.5Y 6/3)  
 @ 255 ft.: Similar to above  
 OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 95% clay, 5% silt, Sharp contact on erosional surface  
 @ 260 ft.: Similar to above  
 LIGHT OLIVE GRAY SILT (ML) (5Y 6/2) Soft, dry, 95% silt, 5% clay, Sharp contact with overlying unit  
 @ 265 ft.: Similar to above  
 LIGHT OLIVE GRAY SILTY SAND (SM) (5Y 6/2) Loose, moist, 80% fine to medium sand, 20% silt  
 LIGHT OLIVE GRAY POORLY GRADED SAND (SP) (5Y 6/2) Loose, moist, 90% fine to medium sand, 10% silt  
 LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, moist, 90% fine to coarse sand, 10% silt  
 LIGHT OLIVE BROWN SANDY SILT (ML) (2.5Y 5/4) Soft, moist, 70% silt, 30% sand, trace gravel to 2 cm.  
 LIGHT OLIVE BROWN FAT CLAY (CH) (2.5Y 5/4) Stiff, dry  
 @ 276 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)  
 LIGHT OLIVE BROWN SILT (ML) (2.5Y 5/6) Soft, moist, 95% silt, 5% clay  
 @ 282 ft.: Change to Increase in clay  
 OLIVE FAT CLAY (CH) (5Y 5/4) Medium stiff, dry, 80% clay, 20% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38

PLATE



DRAWN  
MBP

JOB NUMBER  
55596 001701

Fort Ord, California  
 APPROVED  
*M.D.T. / C.M.*

DATE  
11/04

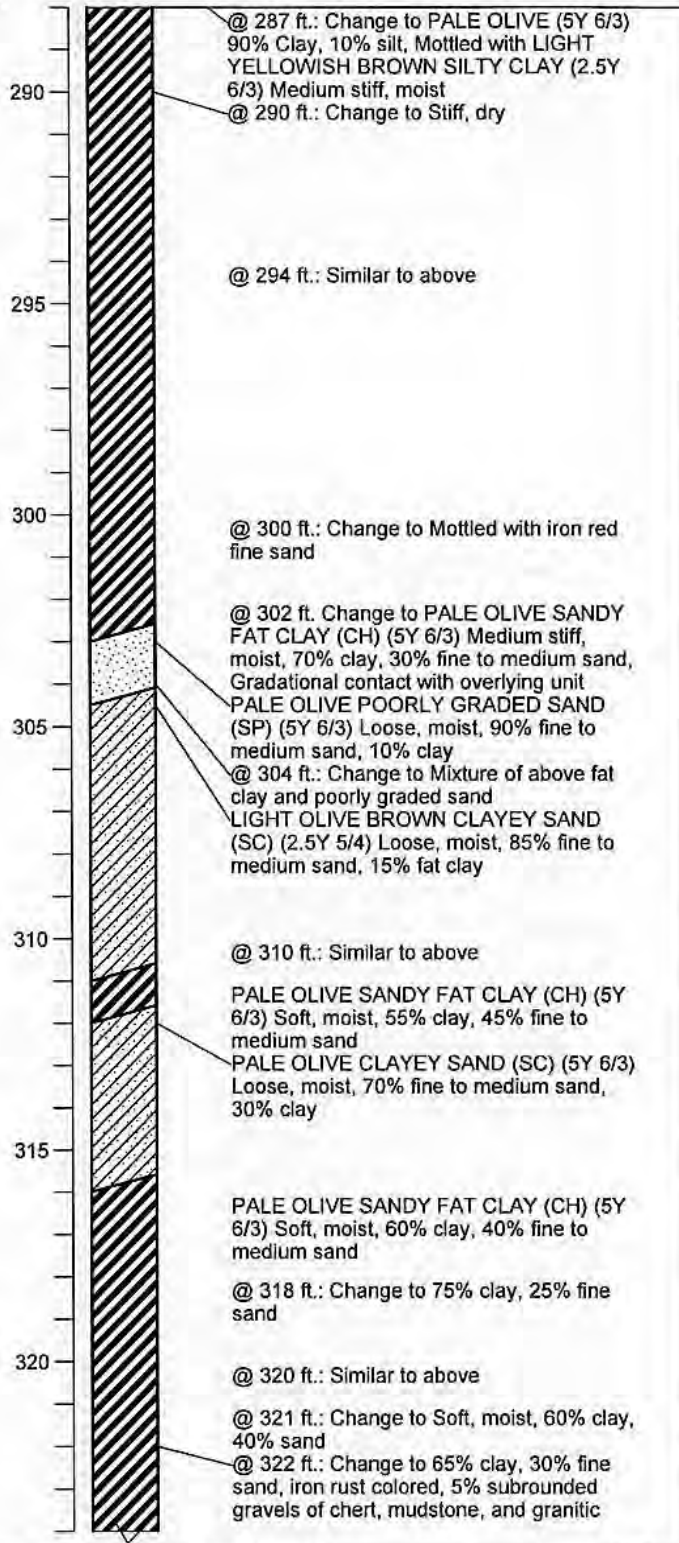
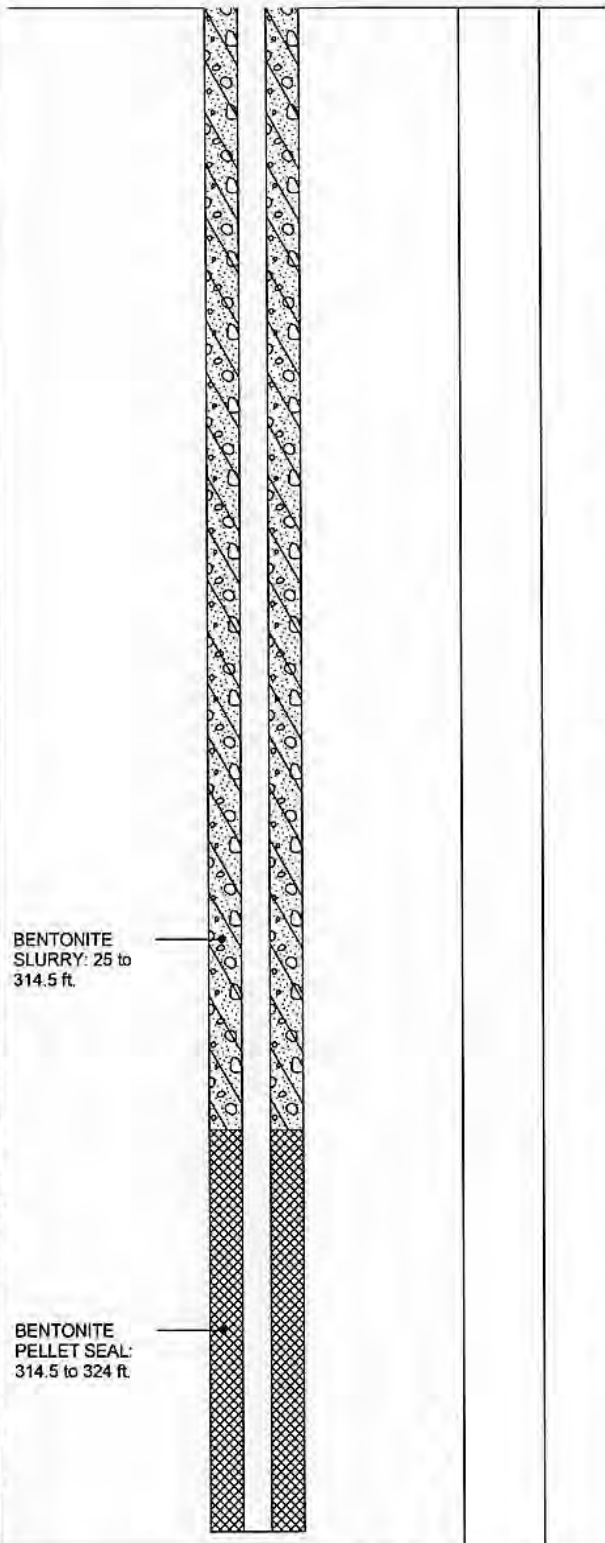
REVISED DATE

**A6**



Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38 PLATE  
 OUCTP



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Fort Ord, California

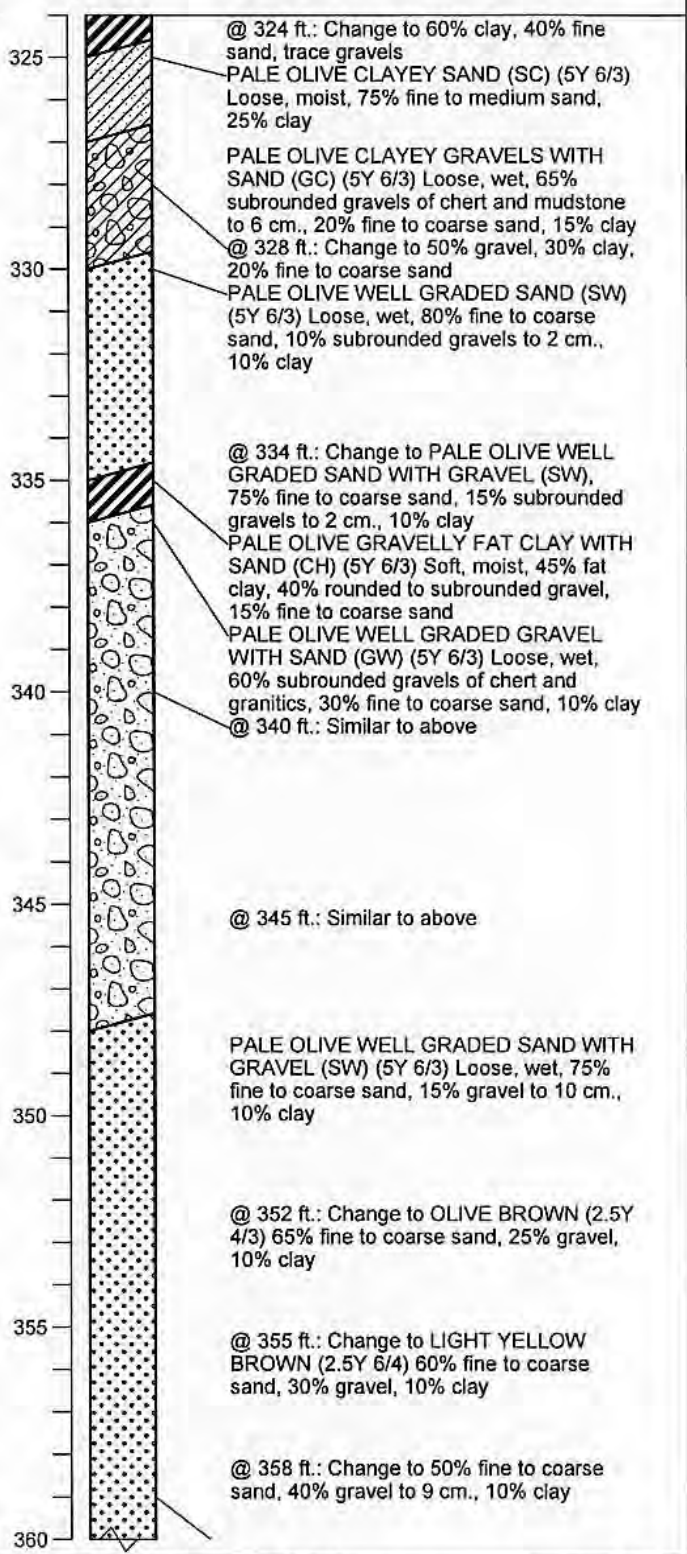
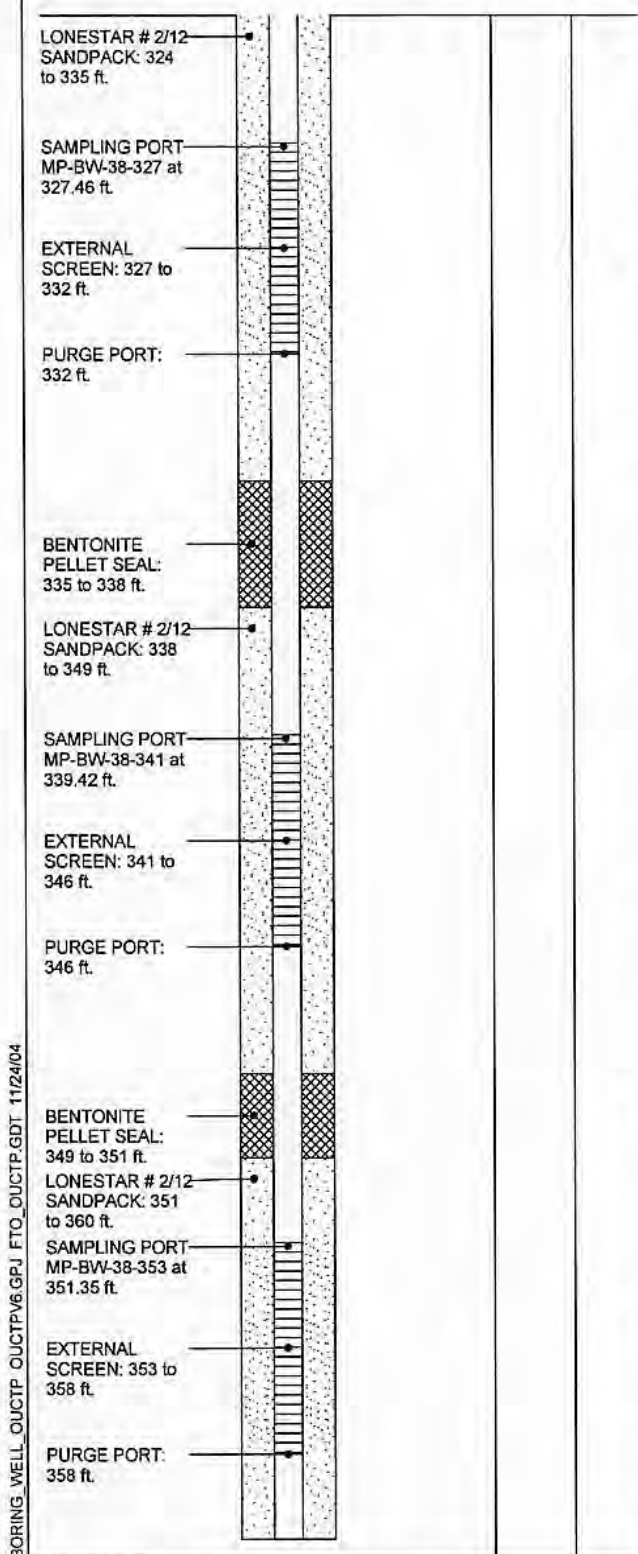
A6

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDST</i>	11/04	



Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-38** PLATE

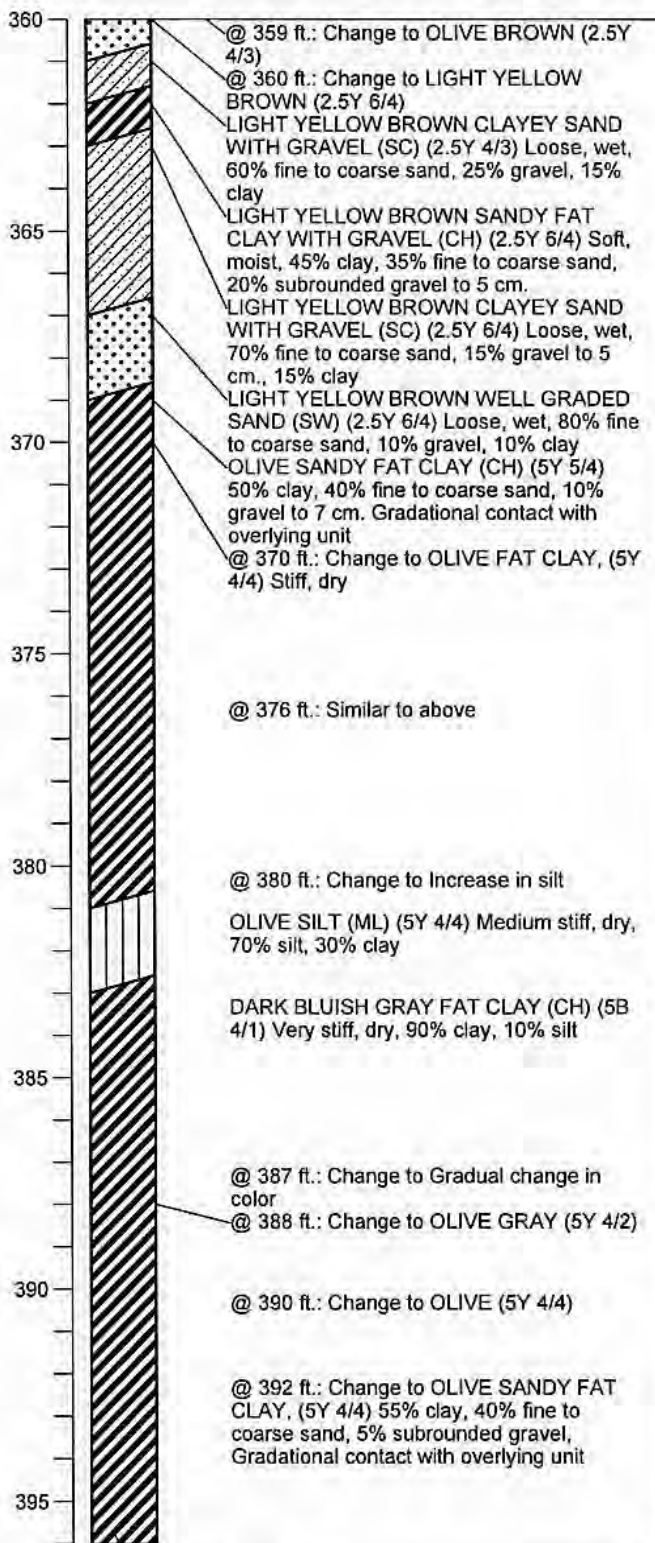
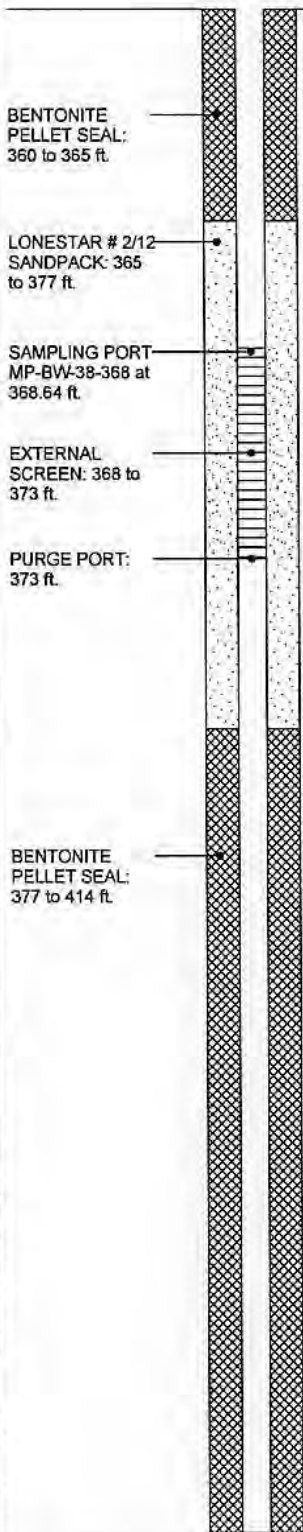
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 DRAWN MBP  
 JOB NUMBER 55596 001701

Fort Ord, California  
 APPROVED *[Signature]*  
 DATE 11/04

**A6**  
 REVISED DATE

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
Sample



BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-38** PLATE  
 OUCTP



**MACTEC**

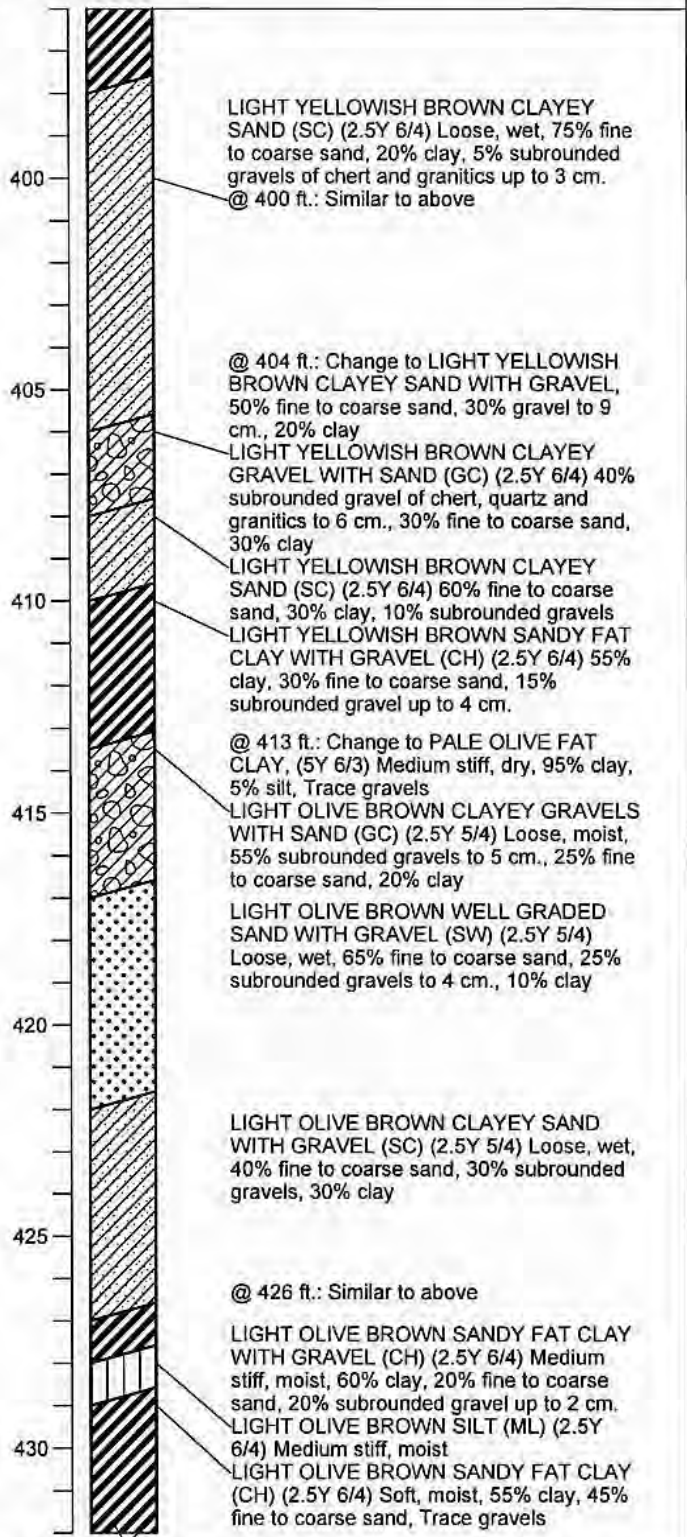
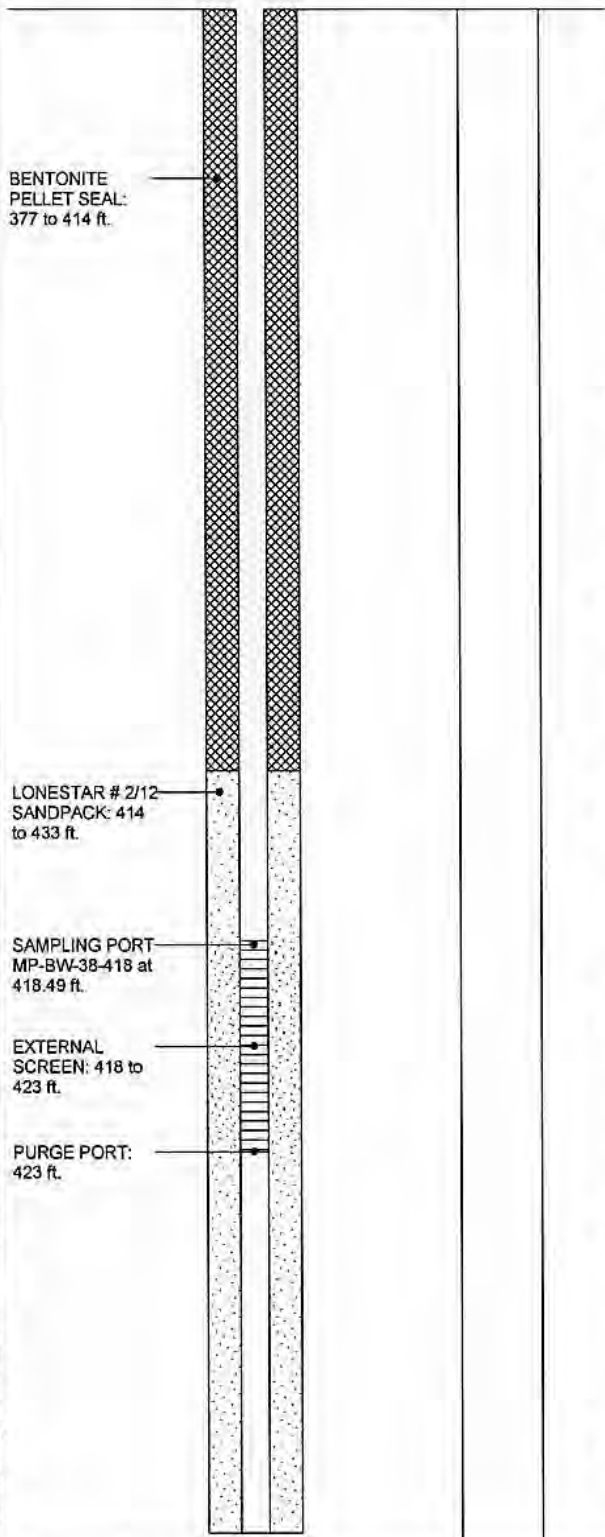
Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / am</i>	11/04	

**A6**

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-38

PLATE

DRAWN  
MBP

JOB NUMBER  
55596 001701

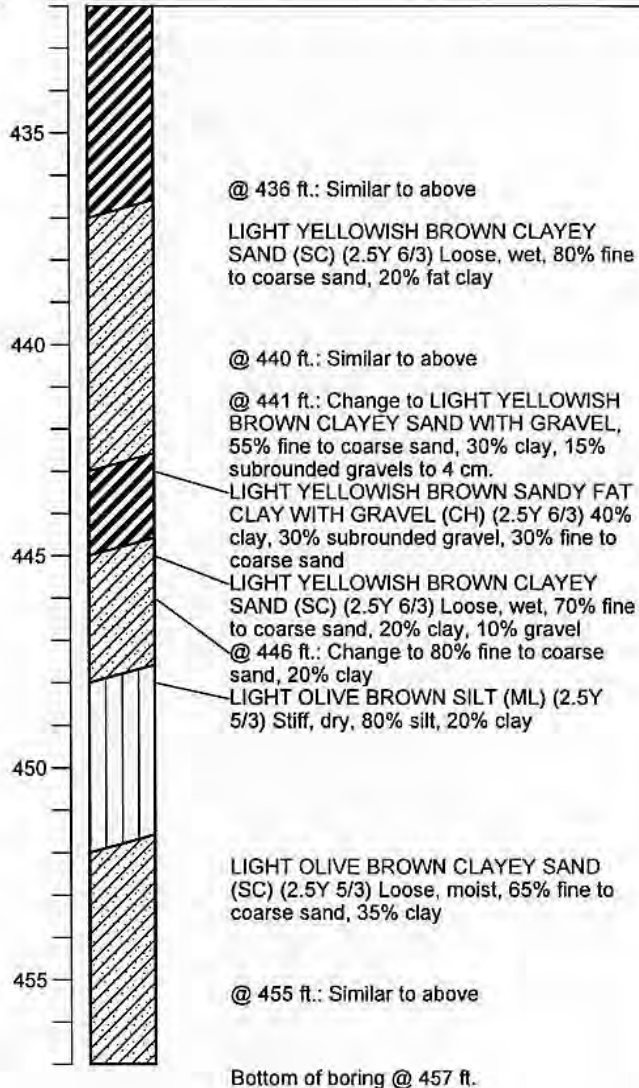
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MDT / cm

DATE  
11/04

REVISED DATE  
**A6**

Completion Date 10/27/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.22 ft. Hole Dia. 7 in.  
 Northing 2142962 Easting 5751301.43

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MP-BW-38

PLATE



MACTEC

OUCTP

Fort Ord, California

**A6**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

DATE  
 11/04

REVISED DATE



Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Top of PVC Casing  
 Elev. 140.42 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

7 in. DIAMETER  
 BOREHOLE: 0 to  
 467 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 20 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 415  
 ft.

BENTONITE  
 SLURRY: 20 to  
 299 ft.

Depth (ft.)  
 Sample

0  
5  
10  
15  
20  
25  
30

Asphalt gravel backfill

DARK YELLOWISH BROWN SILTY SAND  
 (SM) (10YR 4/4) Loose, moist, 85% fine to  
 coarse sand, 15% silt

BROWNISH YELLOW WELL GRADED  
 SAND (SW) (10YR 6/8) Loose, dry, 90%  
 fine to coarse sand, 10% silt

@ 5 ft.: Similar to above

@ 10 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4)

@ 18 ft.: Change to YELLOWISH BROWN  
 (10YR 6/6) 95% fine to coarse sand, 5% silt

OLIVE YELLOW POORLY GRADED SAND  
 (SP) (2.5Y 6/6) Loose, dry, 95% fine to  
 medium sand, 5% silt

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04


Well Construction Details and  
 Log of Boring MP-BW-39

PLATE

OUCTP

Fort Ord, California

**A7**



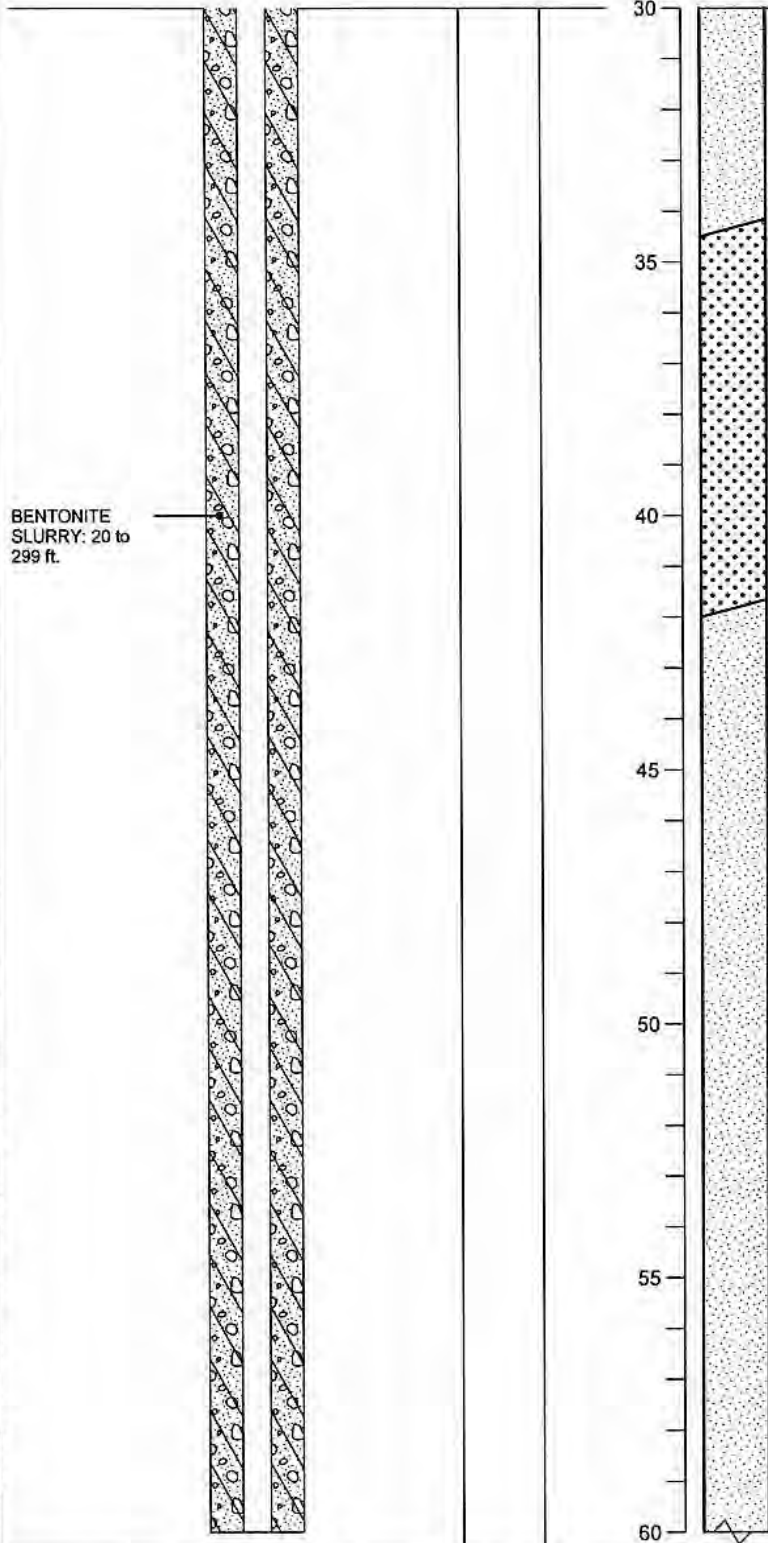
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 JOB NUMBER 55596 001701

APPROVED *MDT / am* DATE 11/04  
 REVISED DATE

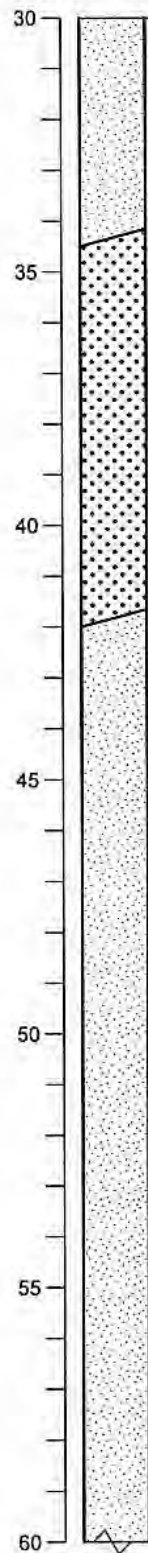


Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 20 to  
299 ft.



@ 30 ft.: Similar to above

YELLOWISH BROWN WELL GRADED  
SAND (SW) (10YR 5/6) Loose, dry, 95%  
fine to coarse sand, 5% silt

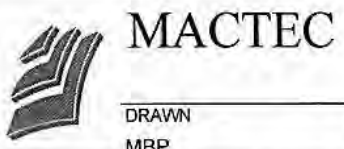
YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR 5/6) Loose, dry, 95% fine  
to medium sand, 5% silt

@ 50 ft.: Similar to above

@ 55 ft.: Change to OLIVE YELLOW (2.5Y  
6/6) 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-39 PLATE  
 OUCTP



Fort Ord, California

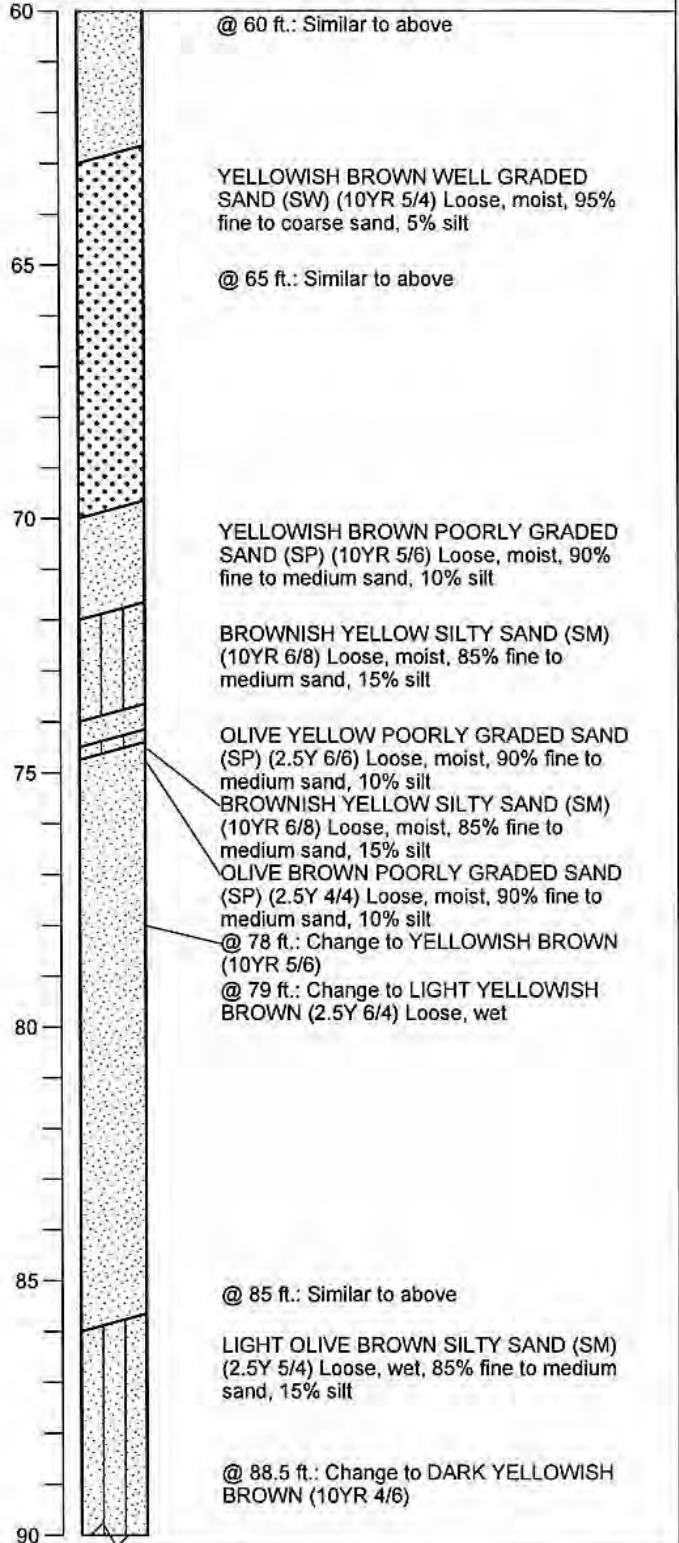
**A7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / am</i>	11/04	

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample

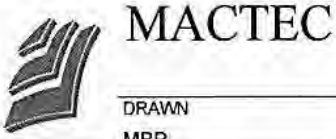
BENTONITE  
 SLURRY: 20 to  
 299 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-39**

PLATE



DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

*MDT / cm*

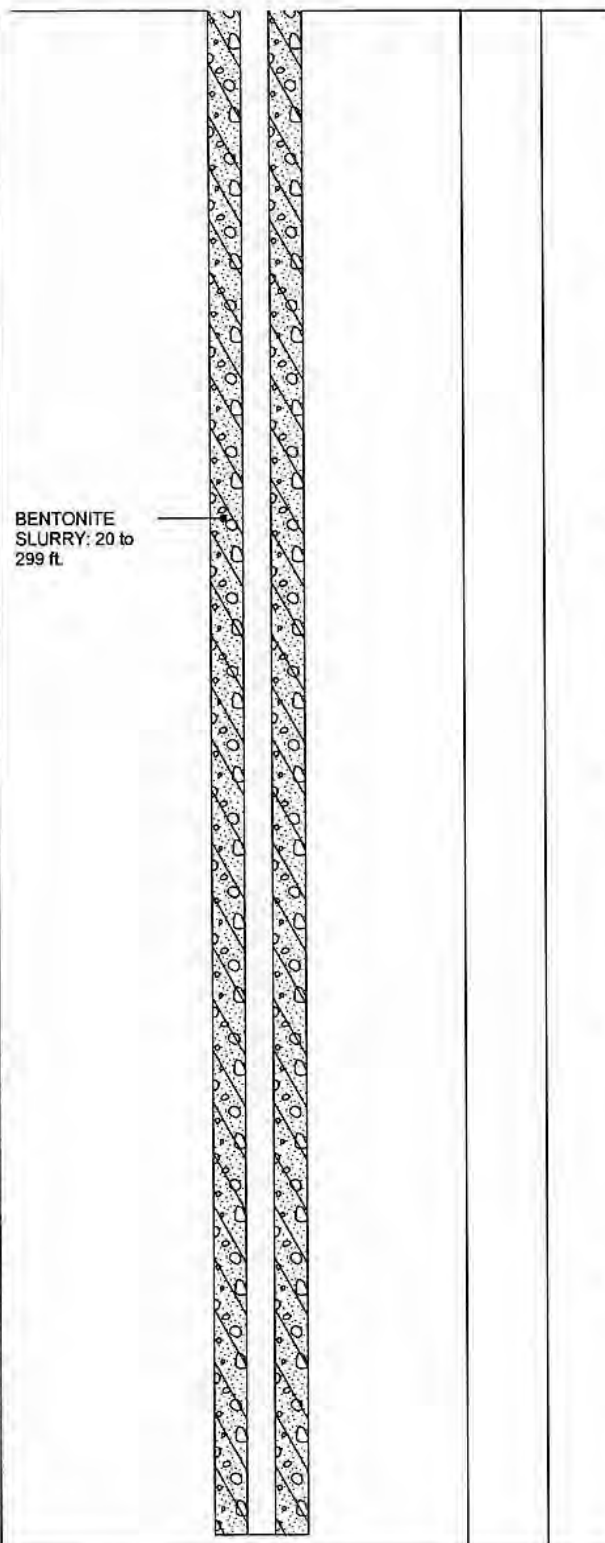
DATE  
 11/04

REVISED DATE

**A7**

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



@ 90 ft.: Similar to above

@ 91 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 96 ft.: Similar to above

OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 85% clay, 15% silt, Trace iron colored fine sand, Sharp contact with overlying sand

@ 102 ft.: Change to Olive (5Y 4/4)

@ 106 ft.: Similar to above

@ 107 ft.: Change to GREENISH GRAY (5GY 5/1) Soft, moist

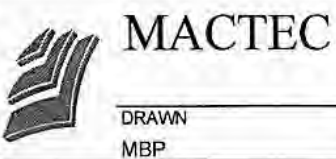
@ 110 ft.: Similar to above

@ 112 ft.: Change to Medium stiff, dry, 90% clay, 10% silt

@ 115 ft.: Similar to above

@ 116 ft.: Change to OLIVE GRAY (5Y 5/2) Inclusion of white chalky powdery material up to 2 cm.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
 Log of Boring MP-BW-39  
 OUCTP  
 Fort Ord, California

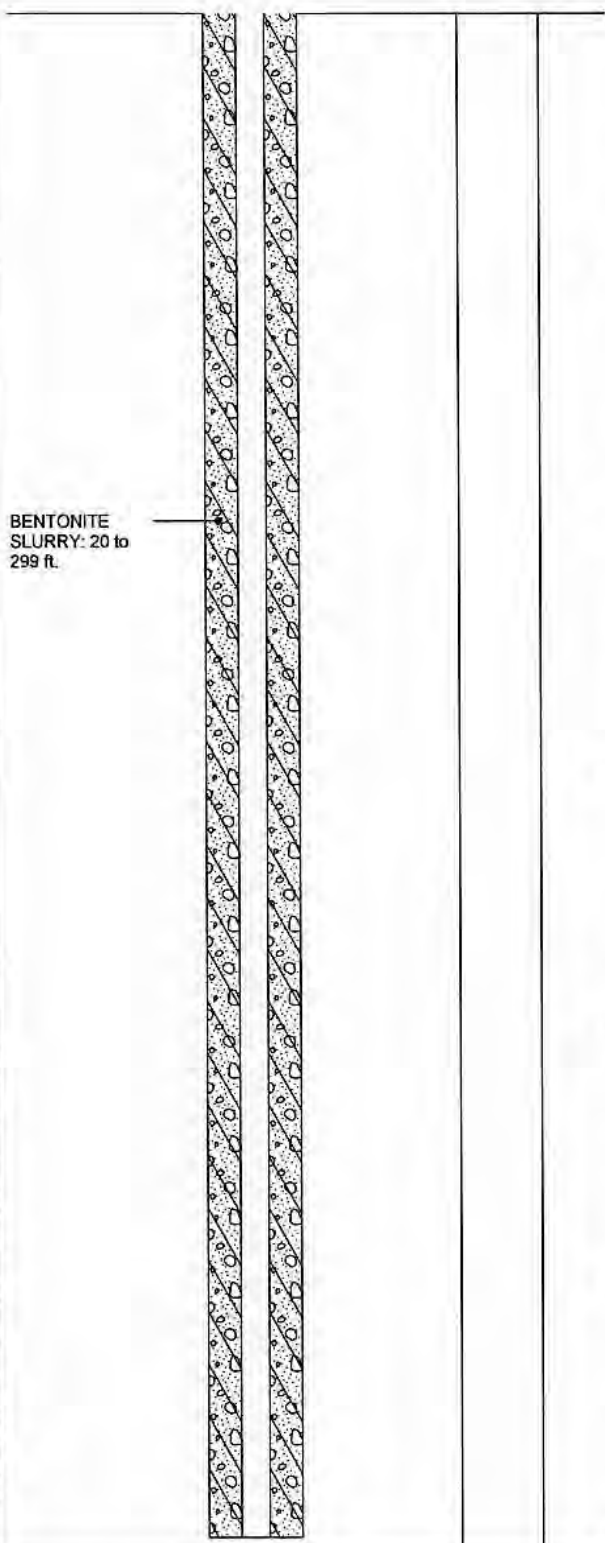
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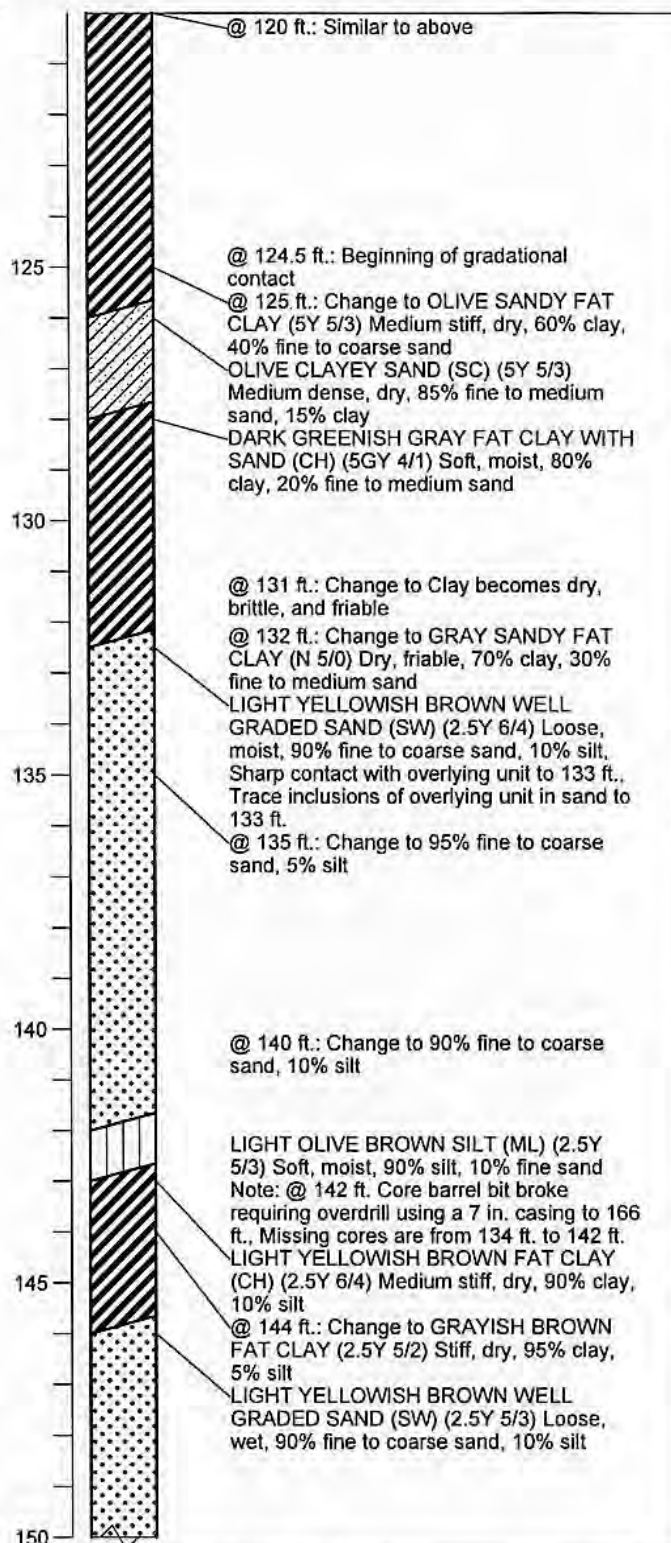
DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / am</i>	DATE 11/04	REVISED DATE
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Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 20 to  
 299 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-39

PLATE



MACTEC

OUCTP

Fort Ord, California

A7

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

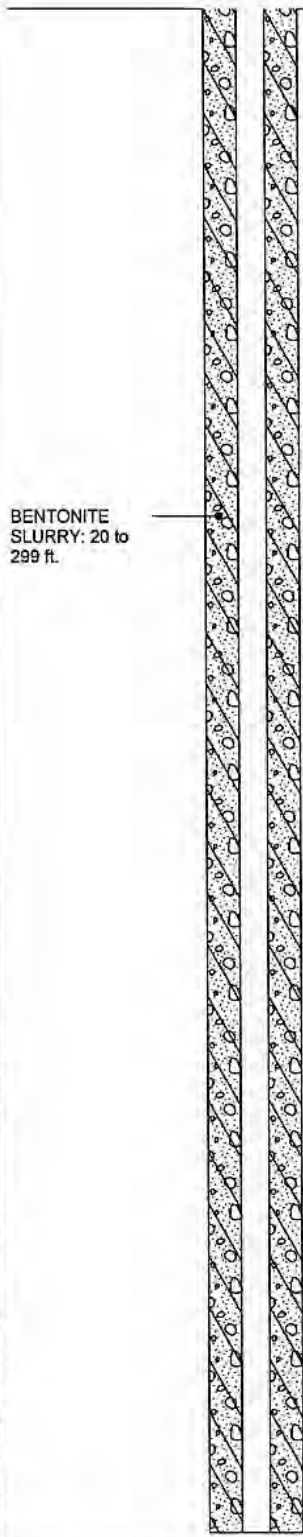
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DATE  
 11/04

REVISED DATE

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



BENTONITE SLURRY: 20 to 299 ft.

150  
 155  
 160  
 165  
 170  
 175  
 180

@ 150 ft.: Similar to above

LIGHT OLIVE BROWN FAT CLAY (CH) (2.5Y 5/3) Medium stiff, dry, 90% clay, 5% stringers and inclusions of STRONG BROWN (7.5YR 5/6) fine to medium sand, 5% silt

LIGHT YELLOWISH BROWN CLAYEY SAND (SC) (2.5Y 6/3) Loose, moist, 85% fine to medium sand, 15% clay

@ 155 ft.: Change to 75% fine to medium sand, 25% clay

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, wet, 90% fine to medium sand, 10% silt

LIGHT OLIVE BROWN SILT (ML) (2.5Y 5/4) Soft, moist, 95% silt, 5% fine sand

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, wet, 90% fine to coarse sand, 10% silt

@ 165 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/3) Loose, moist, 95% fine to medium sand, 5% silt

@ 170 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 172 ft.: Similar to above

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) Loose, moist, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-39**

PLATE



**MACTEC**

Fort Ord, California

**A7**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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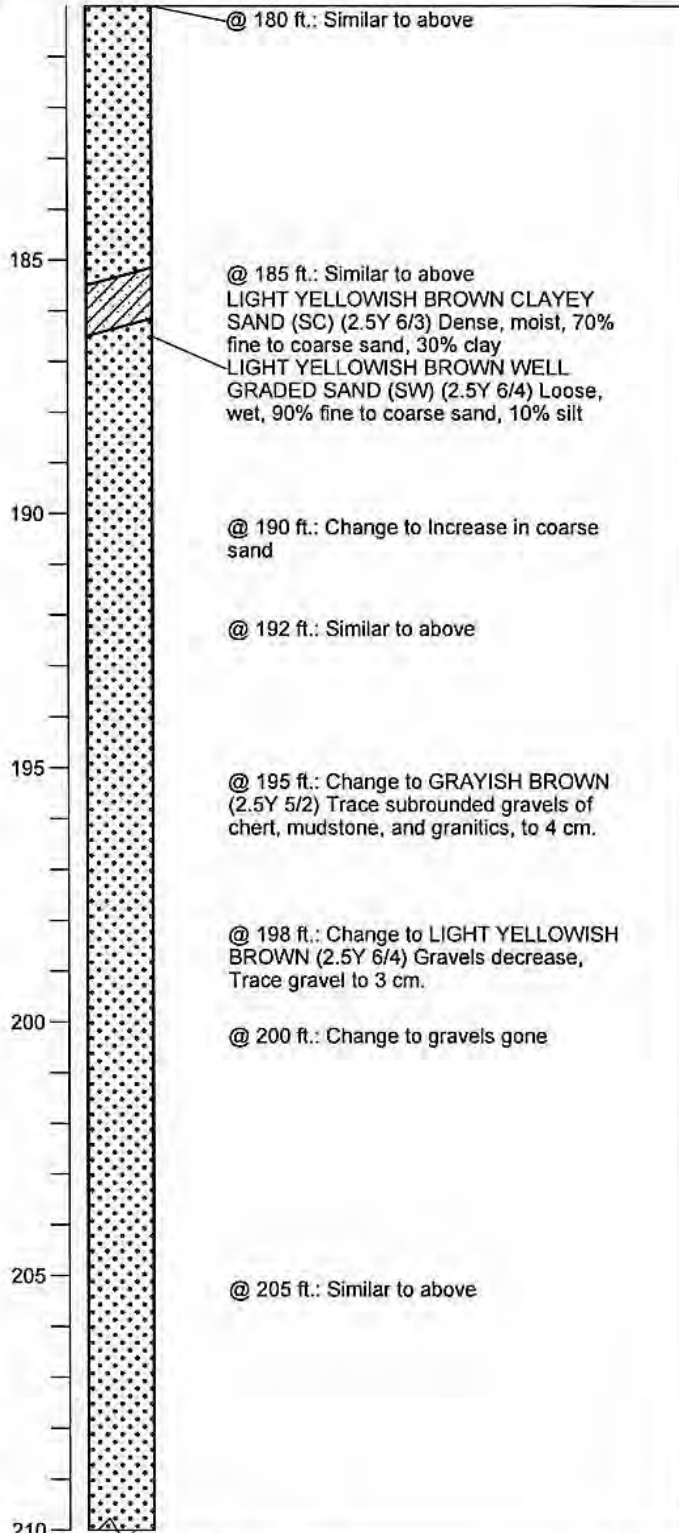
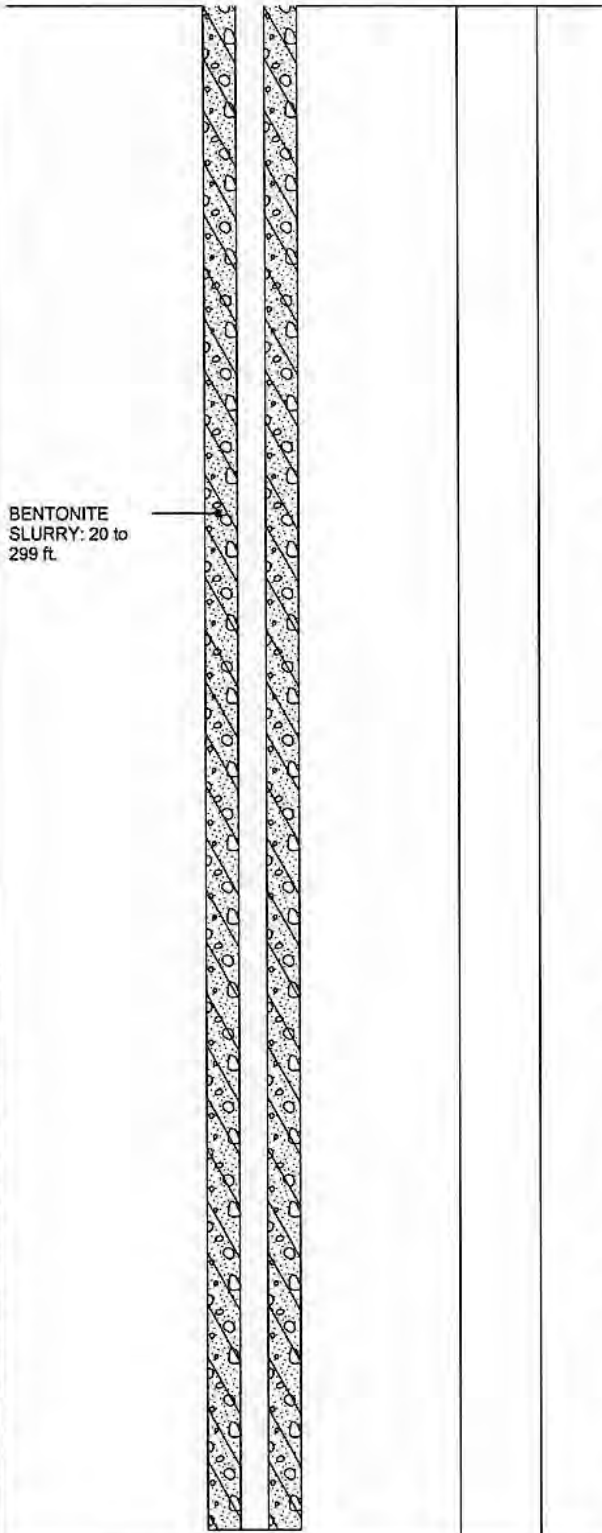
DATE  
11/04

REVISED DATE



Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-39**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A7**

DRAWN  
MBP

JOB NUMBER  
55596 001701

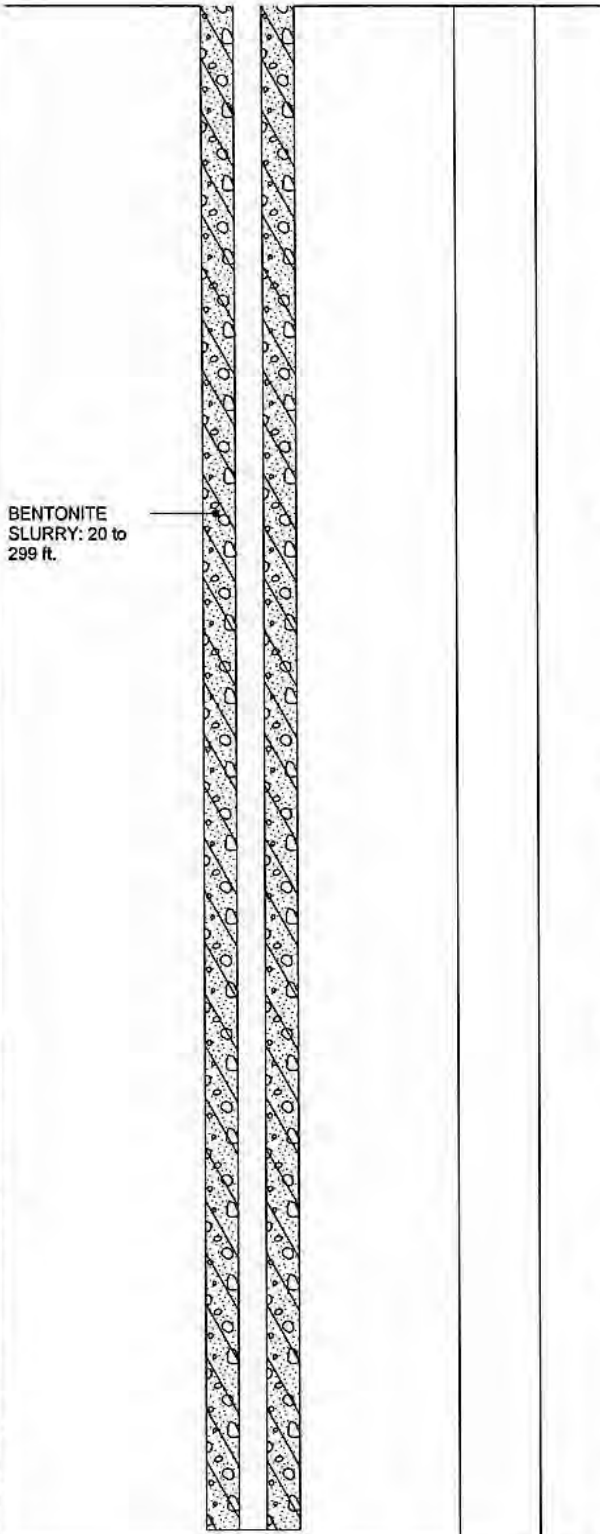
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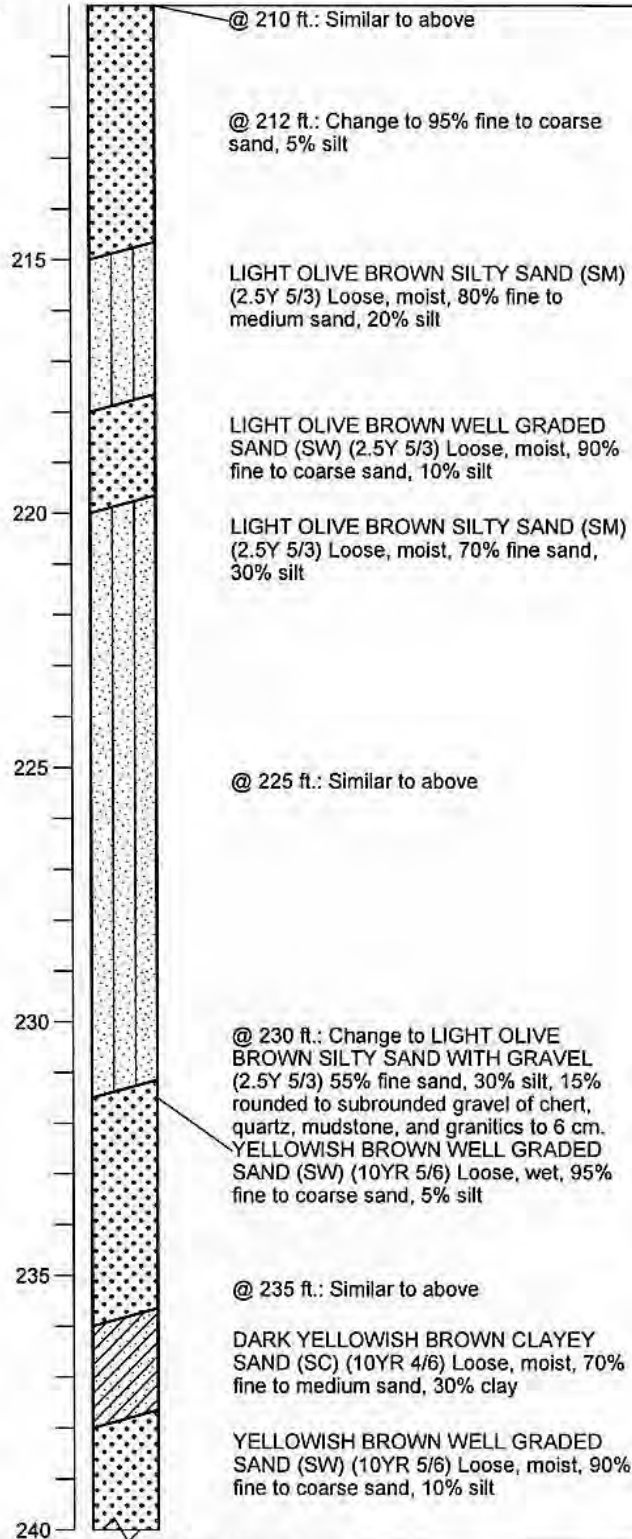
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Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 20 to  
 299 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MP-BW-39  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A7**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

*MDT / cm*

DATE  
 11/04

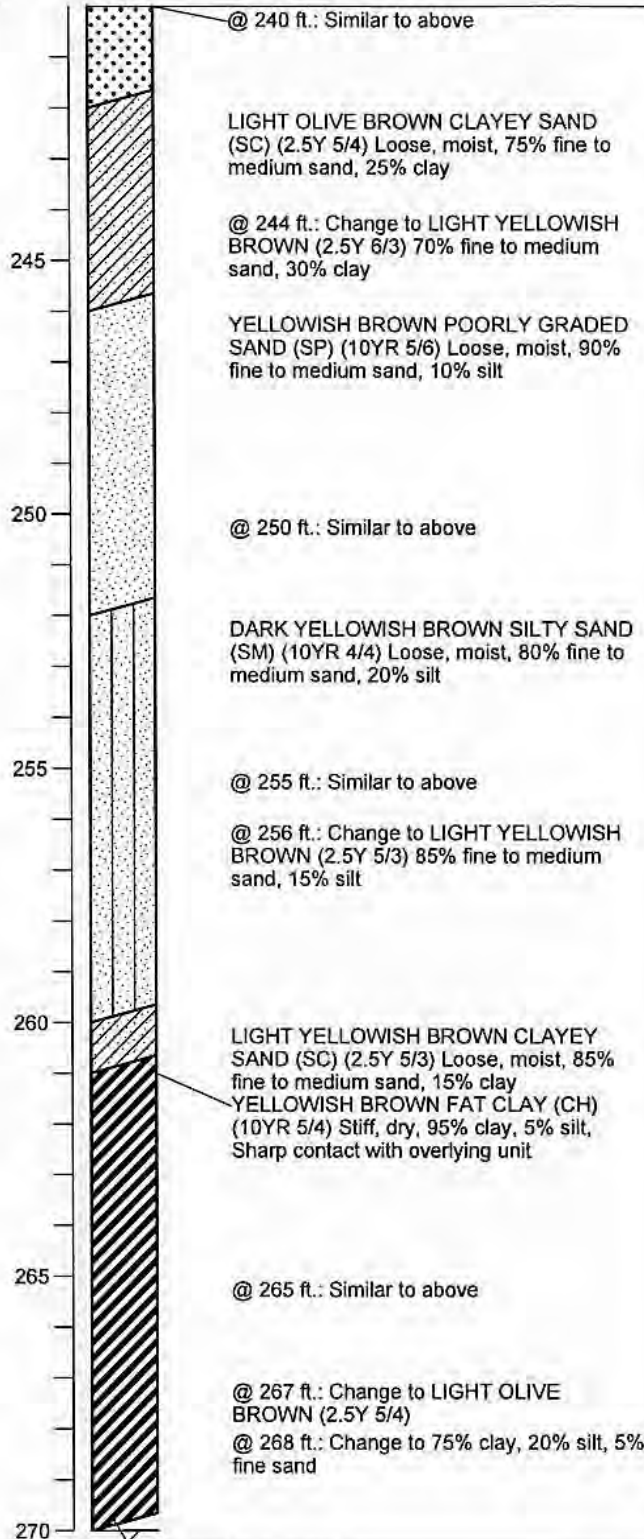
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Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 20 to  
299 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-39  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A7**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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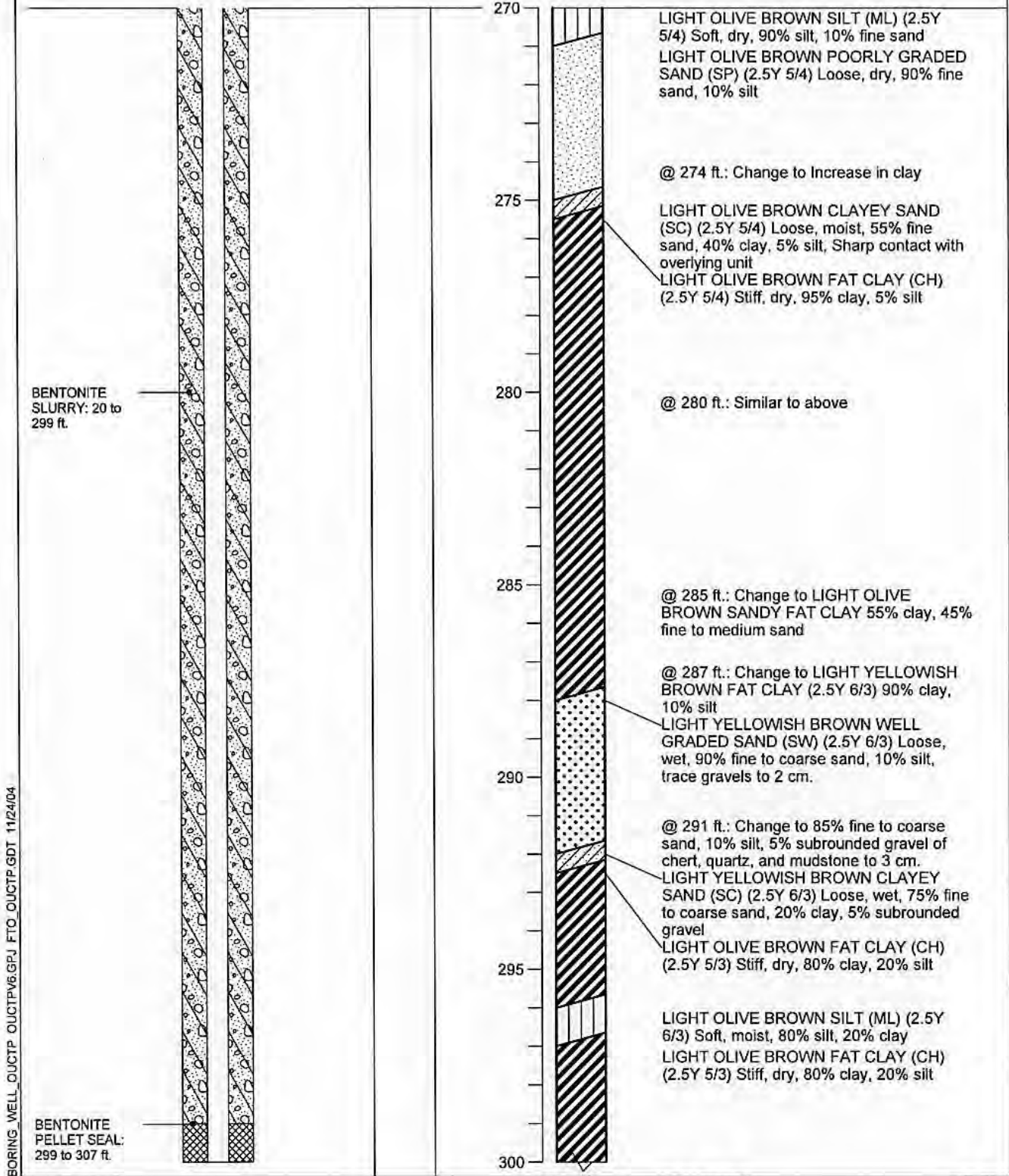
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DATE  
11/04

REVISED DATE


Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-39 PLATE  
 OUCTP

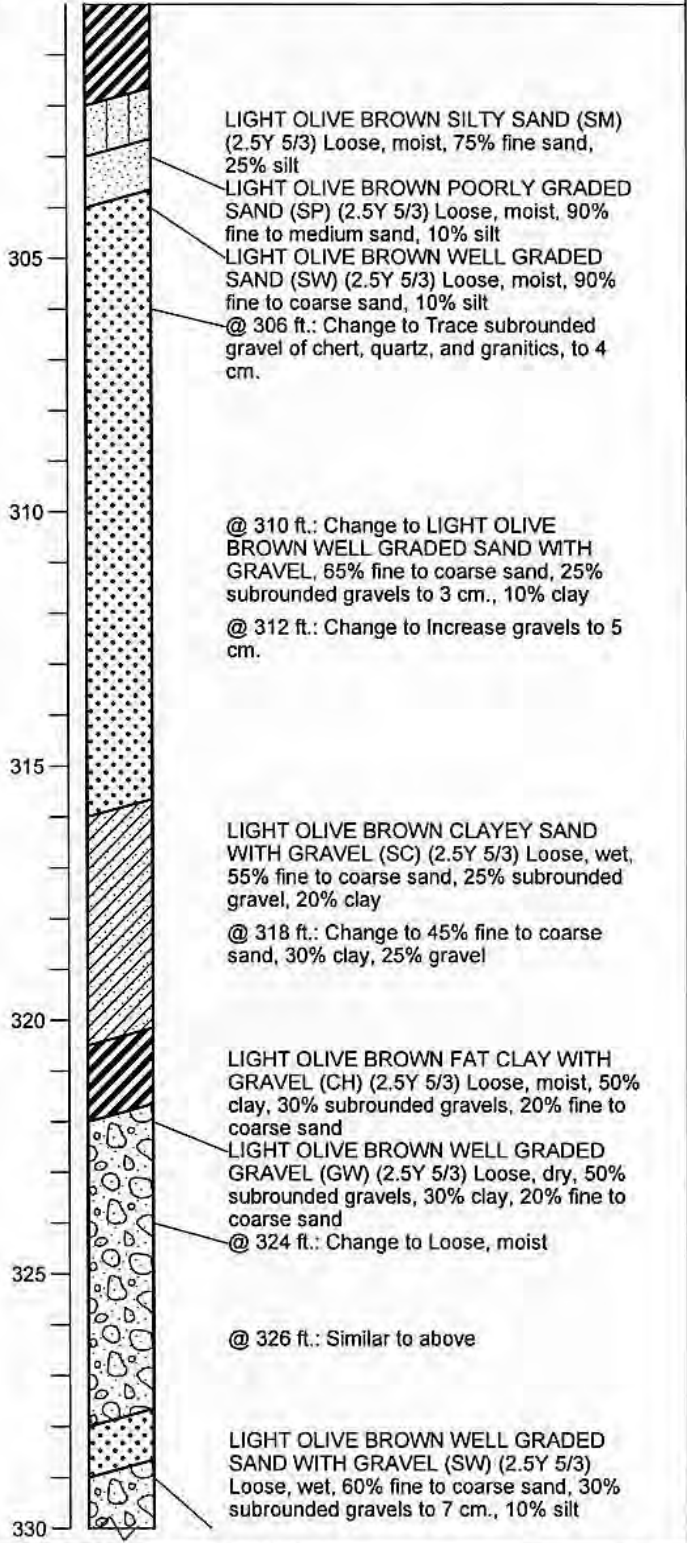
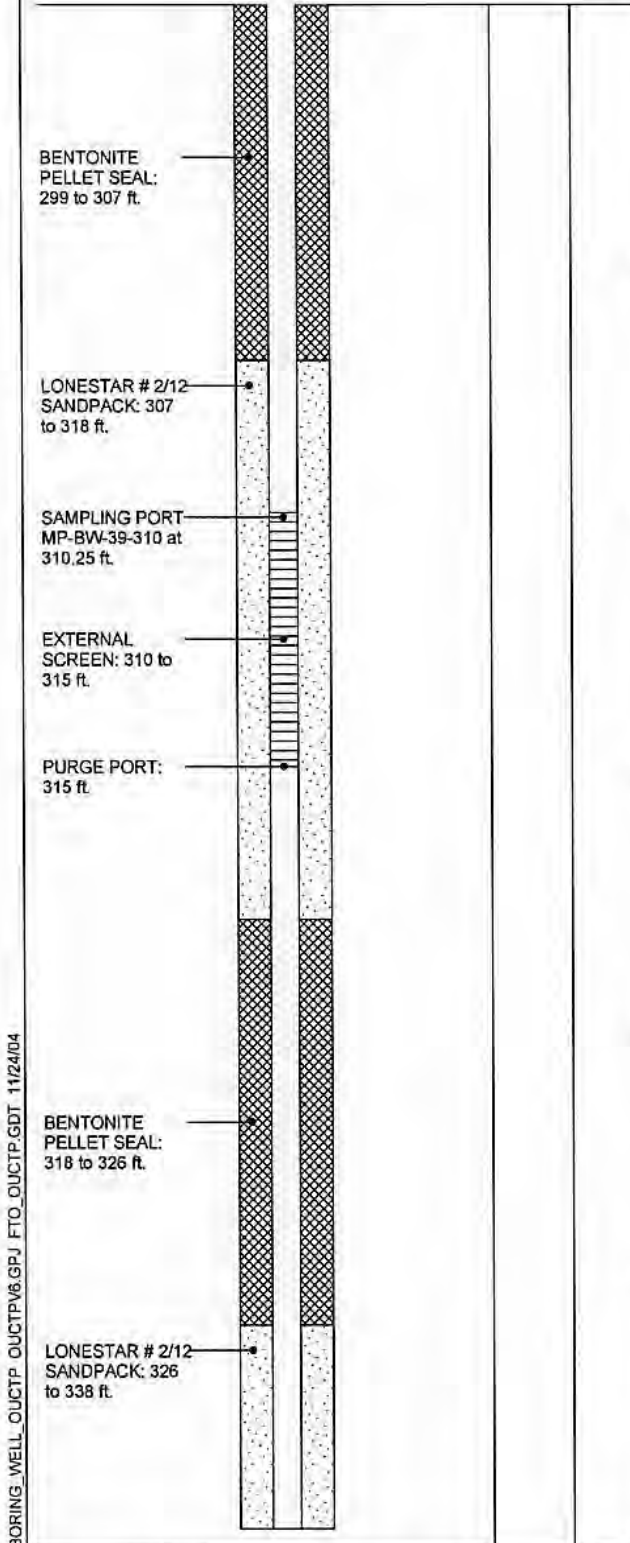
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 DRAWN: MBP  
 JOB NUMBER: 55596 001701

Fort Ord, California **A7**  
 APPROVED: *MDT / cu* DATE: 11/04  
 REVISED DATE:



Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV&GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-39 PLATE



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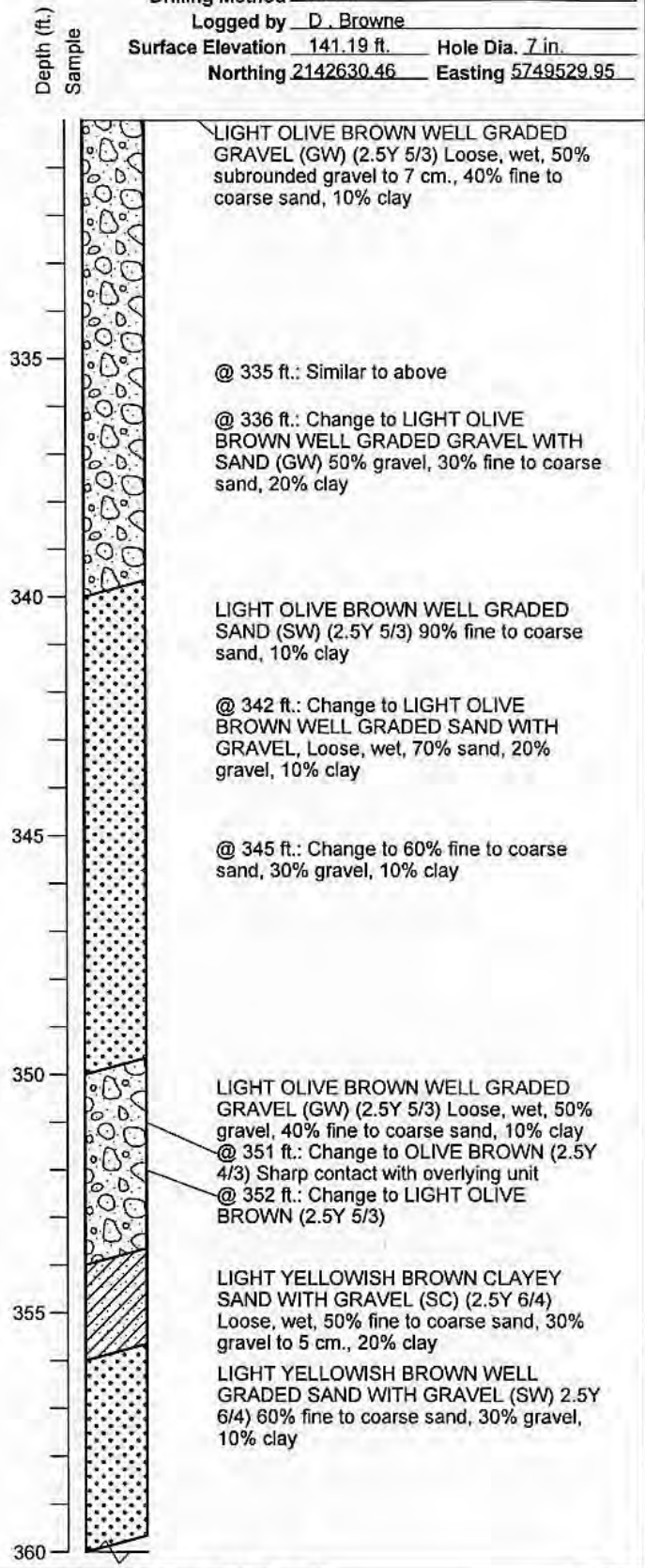
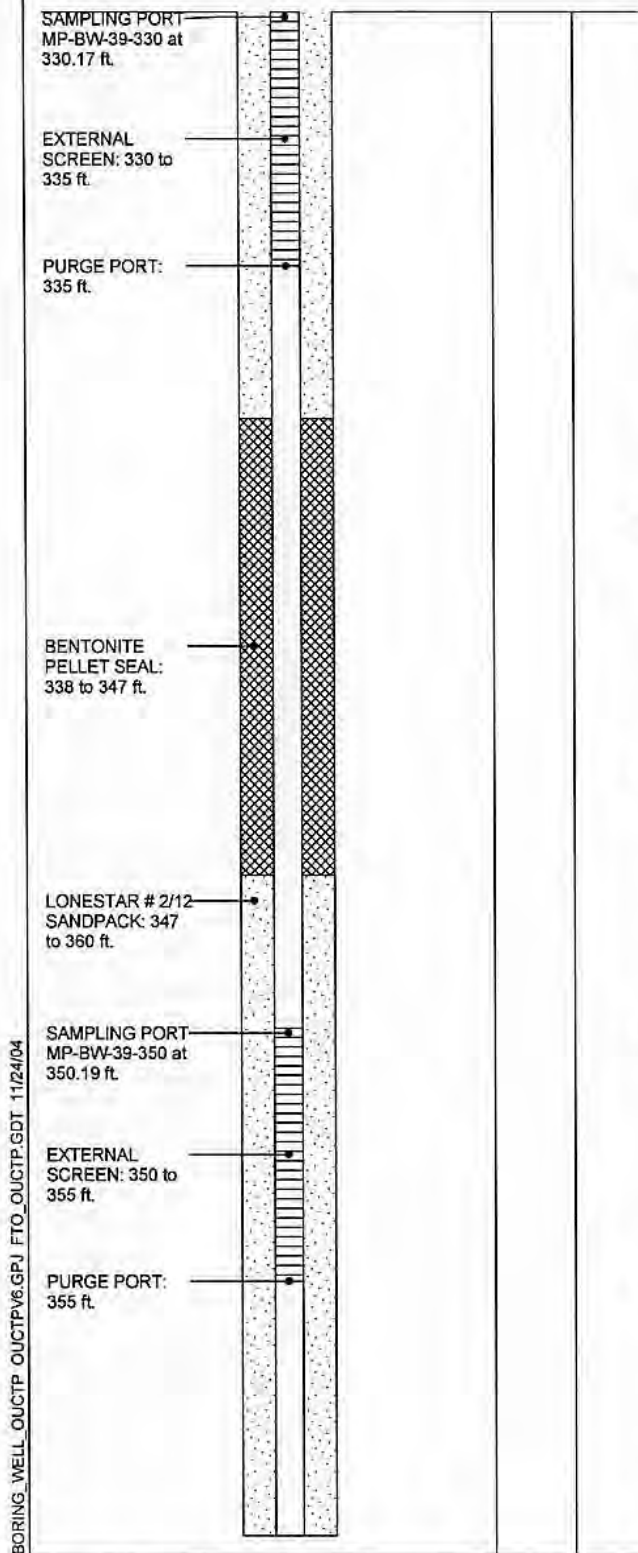
Fort Ord, California

**A7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MST/cm</i>	11/04	



Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95



BORING WELL OUCTP V6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-39** PLATE  
 OUCTP



**MACTEC**

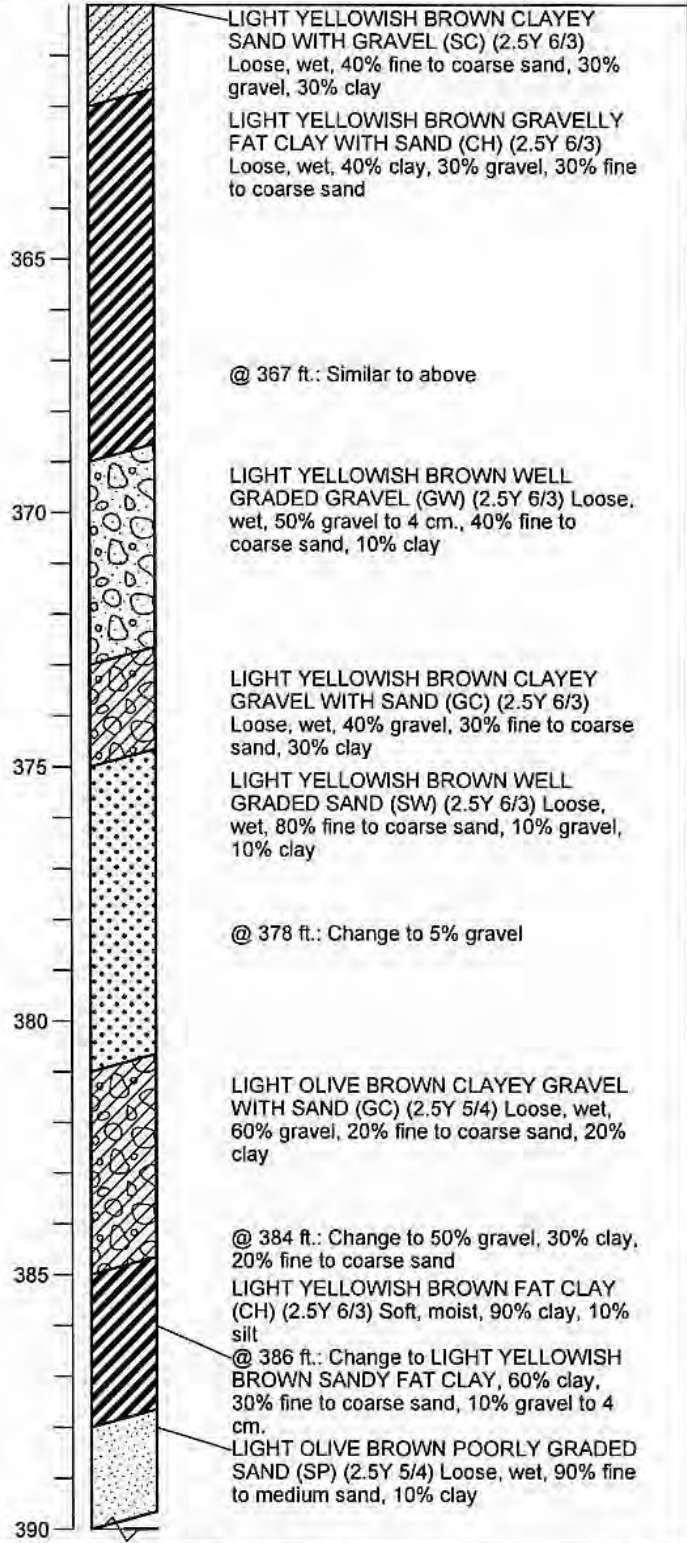
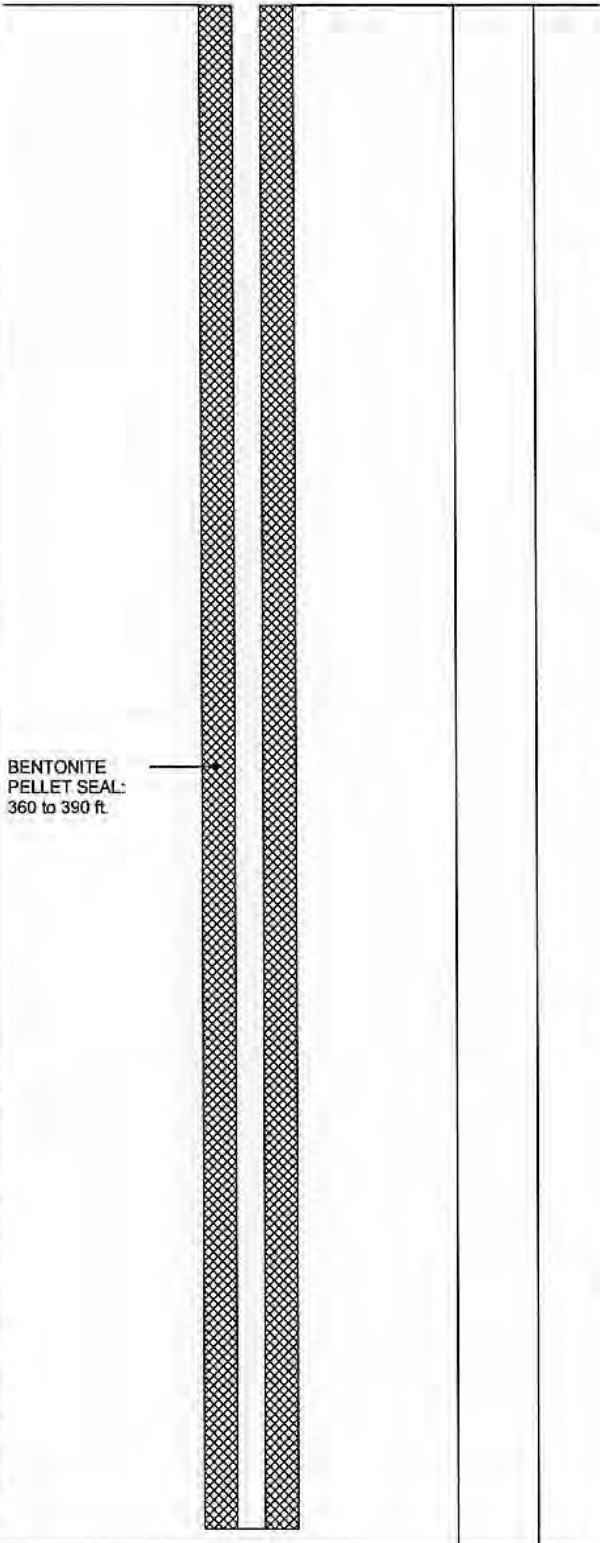
Fort Ord, California

**A7**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-39  
 OUCTP

PLATE



MACTEC

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

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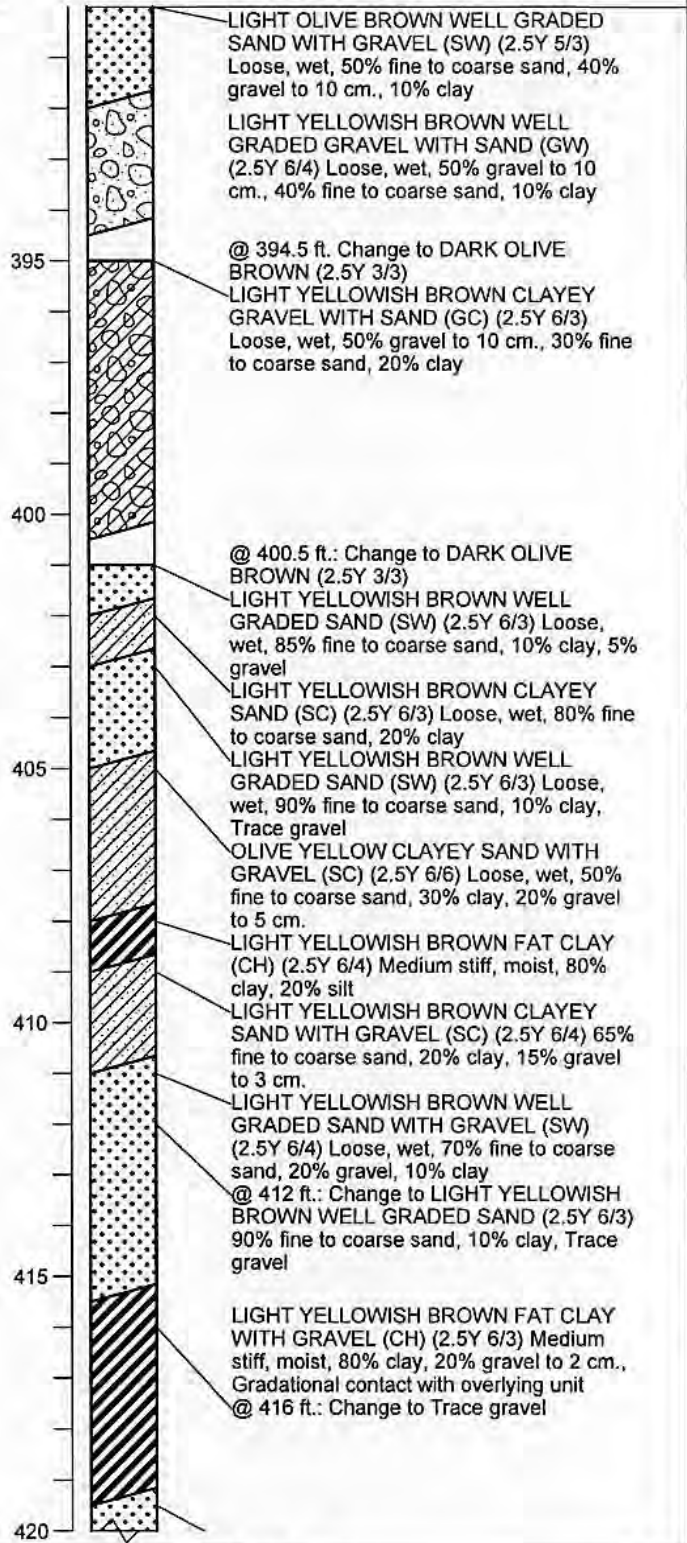
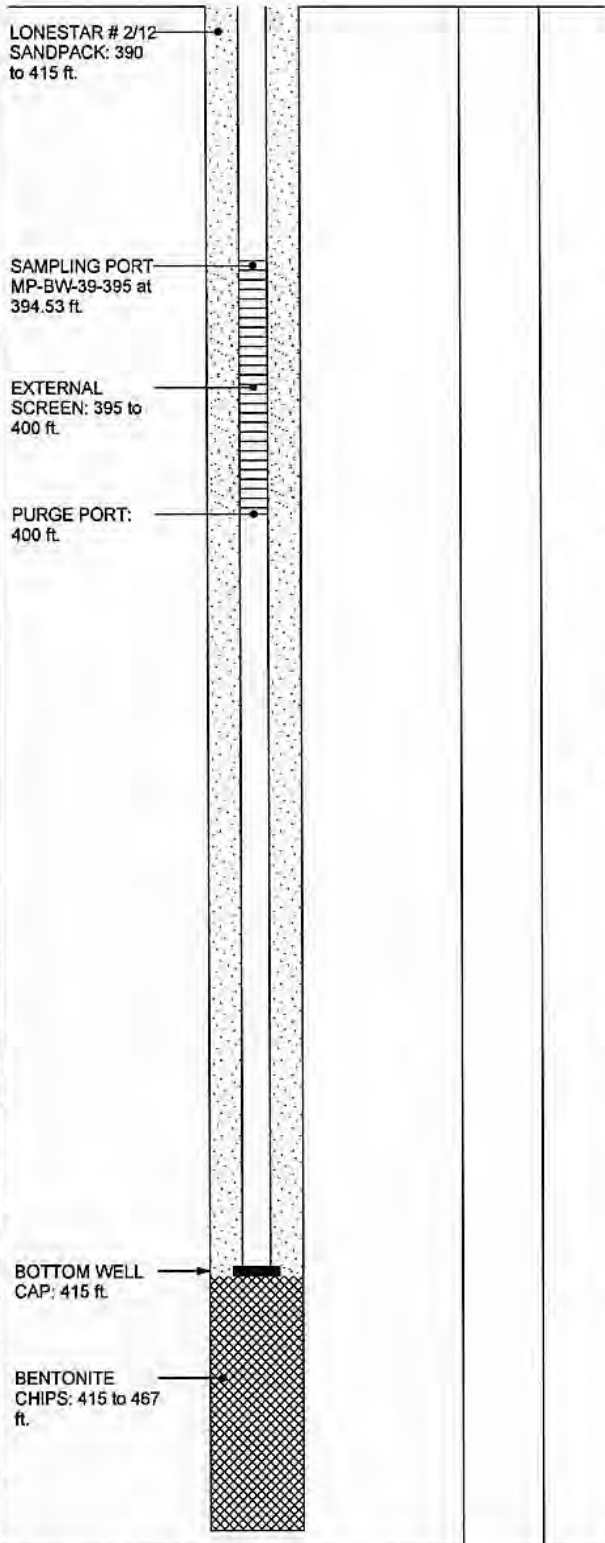
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REVISED DATE

**A7**

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-39 PLATE  
 OUCTP



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Fort Ord, California

DRAWN  
MBP

JOB NUMBER  
55596 001701

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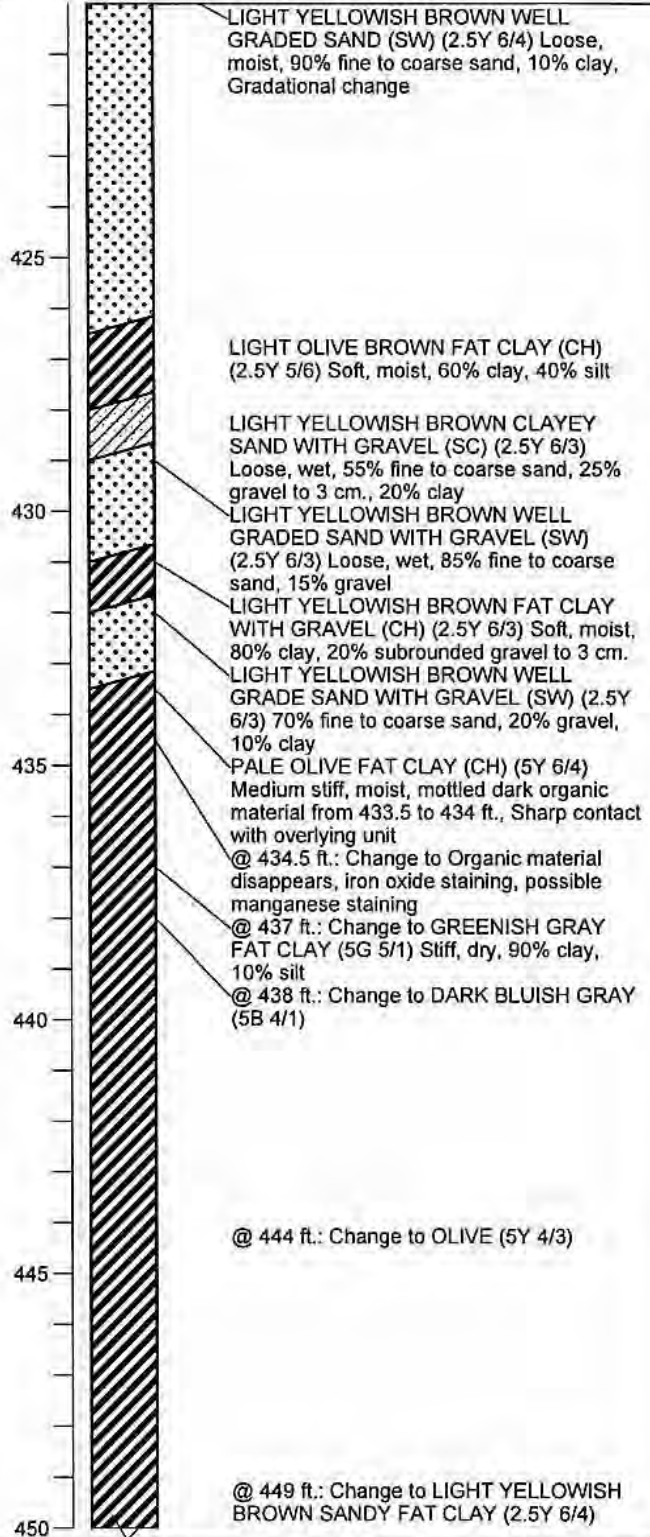
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**A7**  
REVISED DATE

Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
 Sample

BENTONITE  
 CHIPS: 415 to 467  
 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-39  
 OUCTP

PLATE



MACTEC

Fort Ord, California

A7

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

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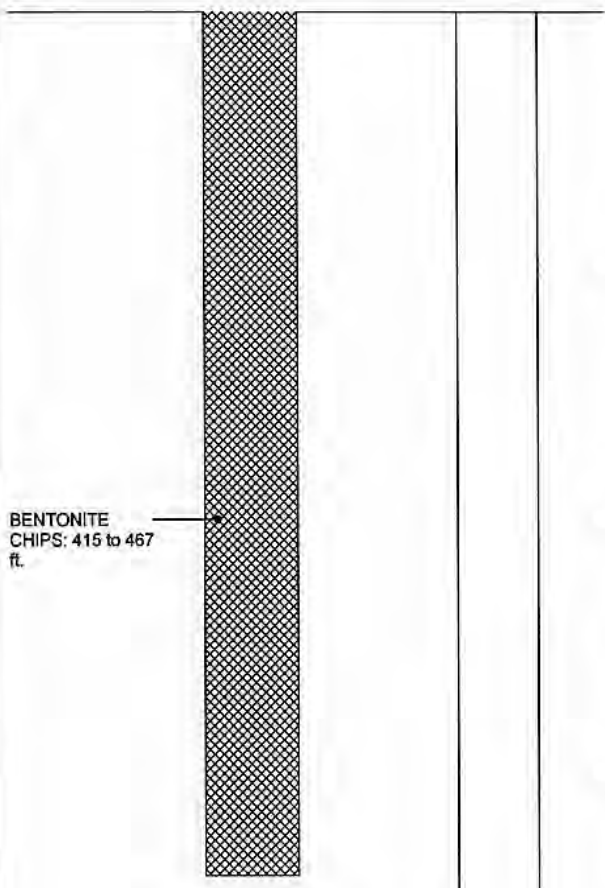
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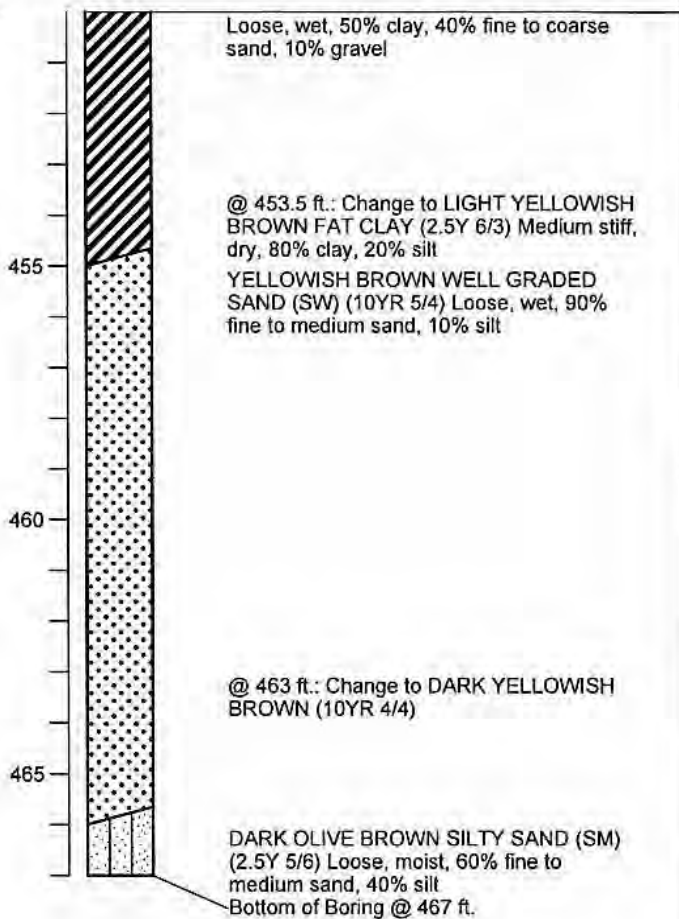


Completion Date 11/12/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.19 ft. Hole Dia. 7 in.  
 Northing 2142630.46 Easting 5749529.95

Depth (ft.)  
Sample



BENTONITE CHIPS: 415 to 467 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and Log of Boring MP-BW-39  
OUCTP

PLATE

**A7**

DRAWN MBP  
 JOB NUMBER 55596 001701

Fort Ord, California  
 APPROVED *MDT / am*

DATE 11/04  
 REVISED DATE



Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Top of PVC Casing  
 Elev. 126.42 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

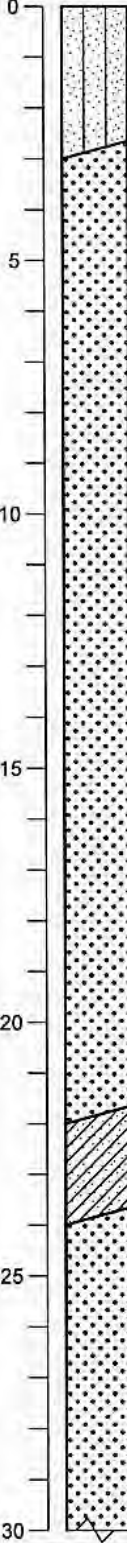
7 in. DIAMETER  
 BOREHOLE: 0 to  
 496 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 416  
 ft.

BENTONITE  
 SLURRY: 25 to  
 319 ft.

Depth (ft.)  
 Sample



LIGHT OLIVE BROWN SILTY SAND (SM)  
 (2.5Y 5/3) Loose, dry, 80% fine to coarse  
 sand, 20% silt

BROWNISH YELLOW WELL GRADED  
 SAND (SW) (10YR 6/6) Loose, dry, 90%  
 fine to coarse sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 12 ft.: Change to VERY DARK GRAY  
 (2.5Y 3/1) Loose, dry, 90% fine to coarse  
 sand, 10% silt

@ 14 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/4)  
 @ 15 ft.: Change to BROWN (10YR 5/3)

@ 18 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6) Loose, dry, increase in coarse  
 sand

@ 20 ft.: Change to Decrease in coarse  
 sand

DARK GRAYISH BROWN CLAYEY SAND  
 (SC) (10YR 4/2) Loose, dry, 85% fine to  
 coarse sand, 15% lean clay

YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/6) Loose, dry, 90%  
 fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A8**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
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DATE  
 11/04

REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 319 ft.

30  
 35  
 40  
 45  
 50  
 55  
 60

@ 30 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 6/4) Loose, dry, 90% sand, 10% silt

@ 34 to 36 ft.: OLIVE GRAY CLAYEY SAND (SC) (5Y 5/2) 85% fine to medium sand, 15% clay, Note: Above material present on outer core as smearing  
 LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 40 ft.: Change to YELLOWISH BROWN (10YR 5/6)

YELLOWISH BROWN SILTY SAND (SM) (10YR 5/6) Loose, dry, 75% fine to coarse sand, 25% silt

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 6/4) Loose, dry, 90% fine to medium sand, 10% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

@ 48 ft.: Change to Decrease in coarse sand

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6) Loose, dry, 90% fine to medium sand, 10% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/8) Loose, dry, 95% fine to coarse sand, 5% silt

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6) Loose, dry, 90% fine to medium sand, 10% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



MACTEC

Fort Ord, California

A8

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

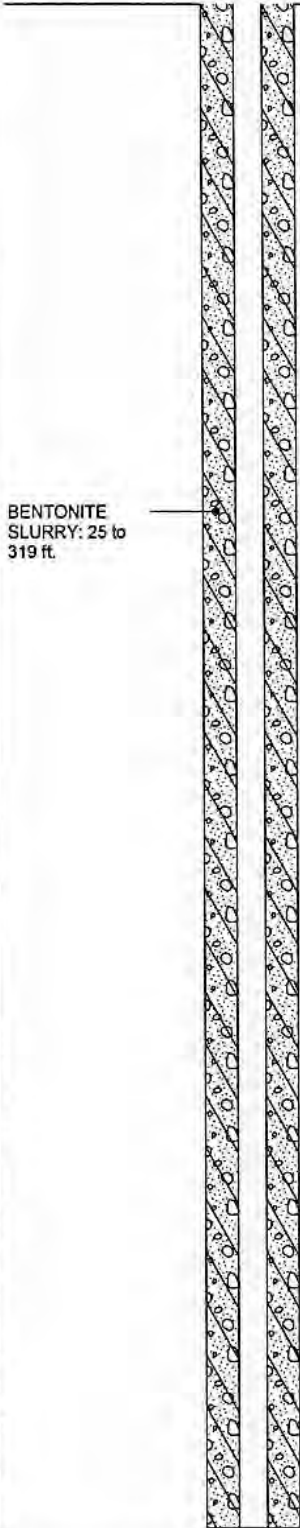
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DATE  
 11/04

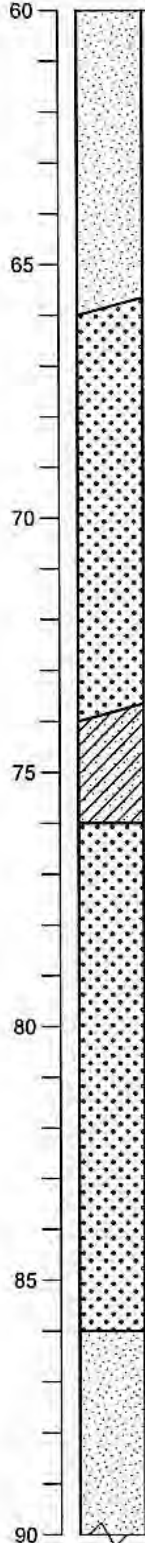
REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 319 ft.



BROWNISH YELLOW WELL GRADED  
 SAND (SW) (10YR 6/6) Loose, dry, 95%  
 fine to coarse sand, 5% silt

@ 72-76 ft.: OLIVE CLAYEY SAND (SC)  
 (5Y 5/3) 85% fine sand, 15% clay, Note:  
 Above material present as smearing on  
 outer 0.125 of core.

BROWNISH YELLOW WELL GRADED  
 SAND (SW) (10YR 6/6) Loose, moist, 95%  
 fine to coarse sand, 5% silt

@ 80 ft.: Change to Loose, wet

@ 82 ft.: Change to BROWN (10YR 5/3)

BROWN POORLY GRADED SAND (SP)  
 (10YR 5/3) Loose, wet, 90% fine to medium  
 sand, 10% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A8**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

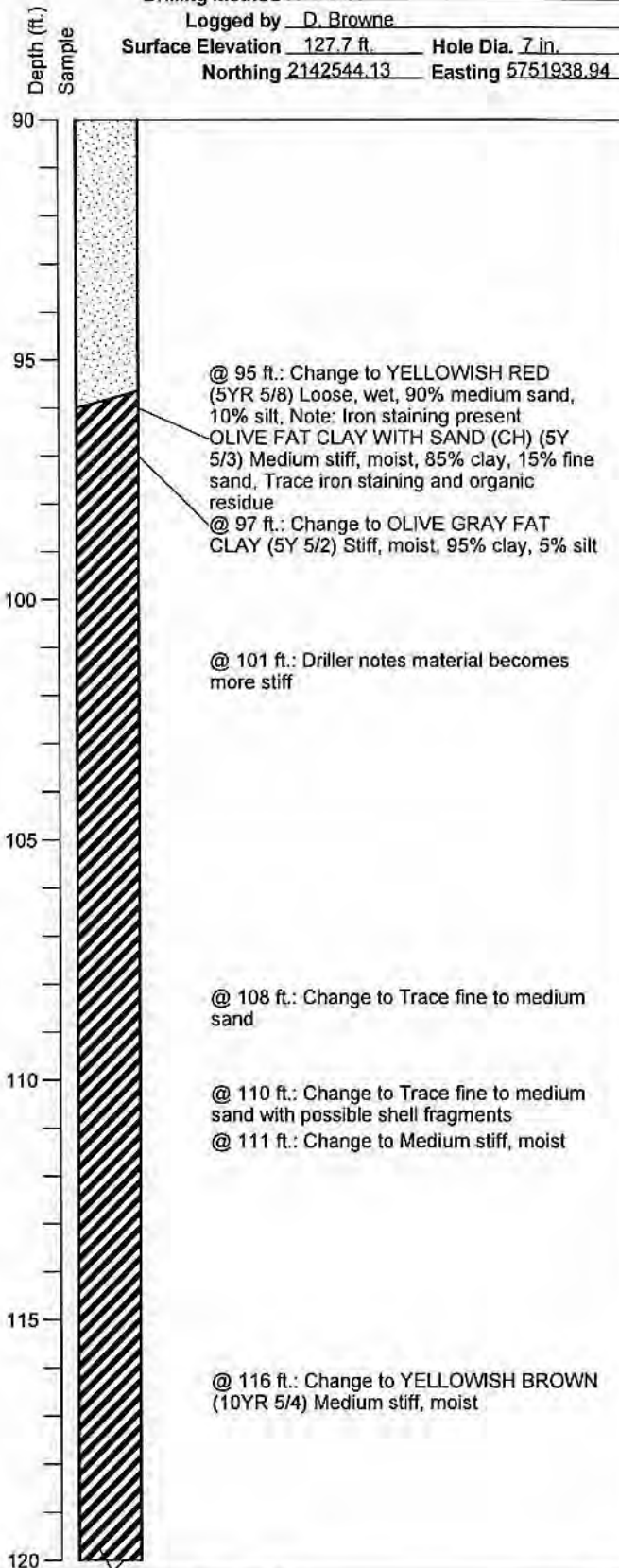
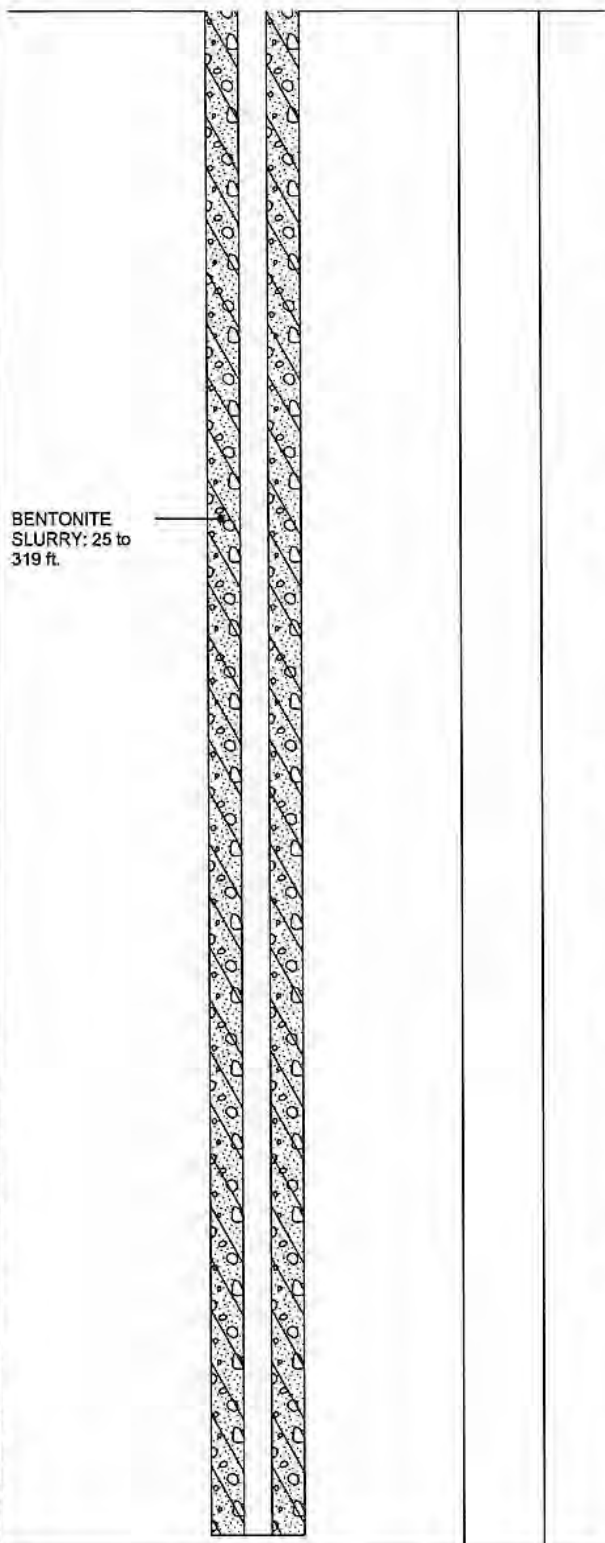
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DATE  
 11/04

REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

BORING\_WELL\_OUCTP\_OUCTPV8.GPJ\_FTO\_OUCTP.GDT\_11/24/04



BENTONITE SLURRY: 25 to 319 ft.

Well Construction Details and Log of Boring MP-BW-40  
 OUCTP

PLATE



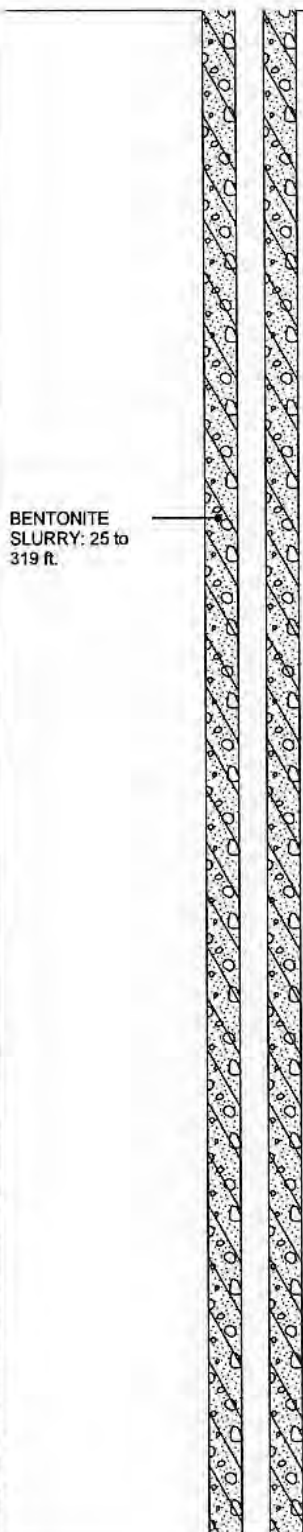
Fort Ord, California

**A8**

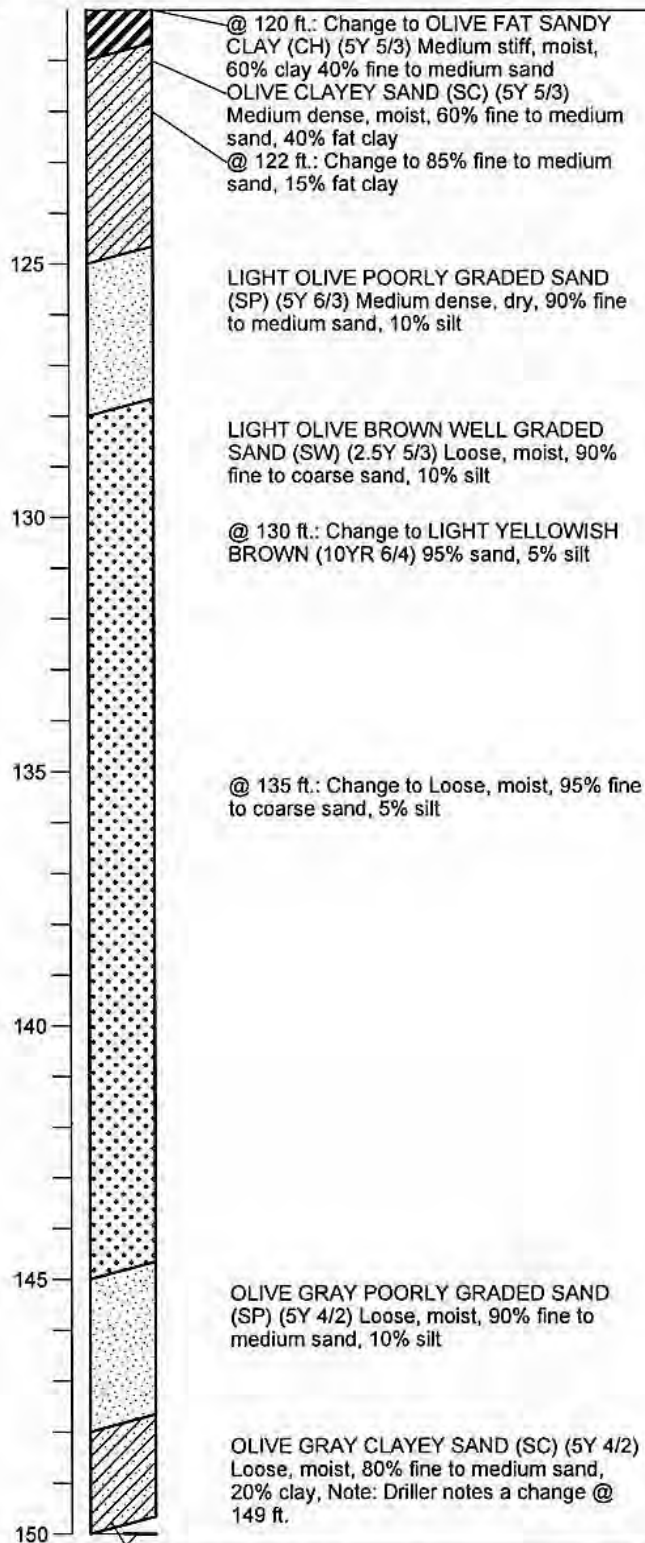
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Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 319 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	



Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
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 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 319 ft.



OLIVE GRAY POORLY GRADED SAND (SP) (5Y 4/2) Loose, moist, 90% fine to medium sand, 10% silt

@ 156 ft.: Similar to above, Note: OLIVE GRAY fines smeared on outer core 0.125 thick from 147 to 156 ft.

DARK BLUISH GRAY FAT CLAY (CH) (5B 4/1) Medium stiff, dry to moist, 95% clay, 5% silt

@ 166 ft.: Change to Clay marbled with DARK GREENISH GRAY FAT CLAY with small lens of YELLOWISH RED WELL GRADED SAND at bottom including iron or rust color  
 LIGHT OLIVE GRAY WELL GRADED SAND (SW) (5Y 6/2) Loose, wet, 90% fine to coarse sand, 10% silt

@ 171 ft.: Change to Increase in coarse sand

@ 173 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 176 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/3) Increasing grain size

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE

**A8**

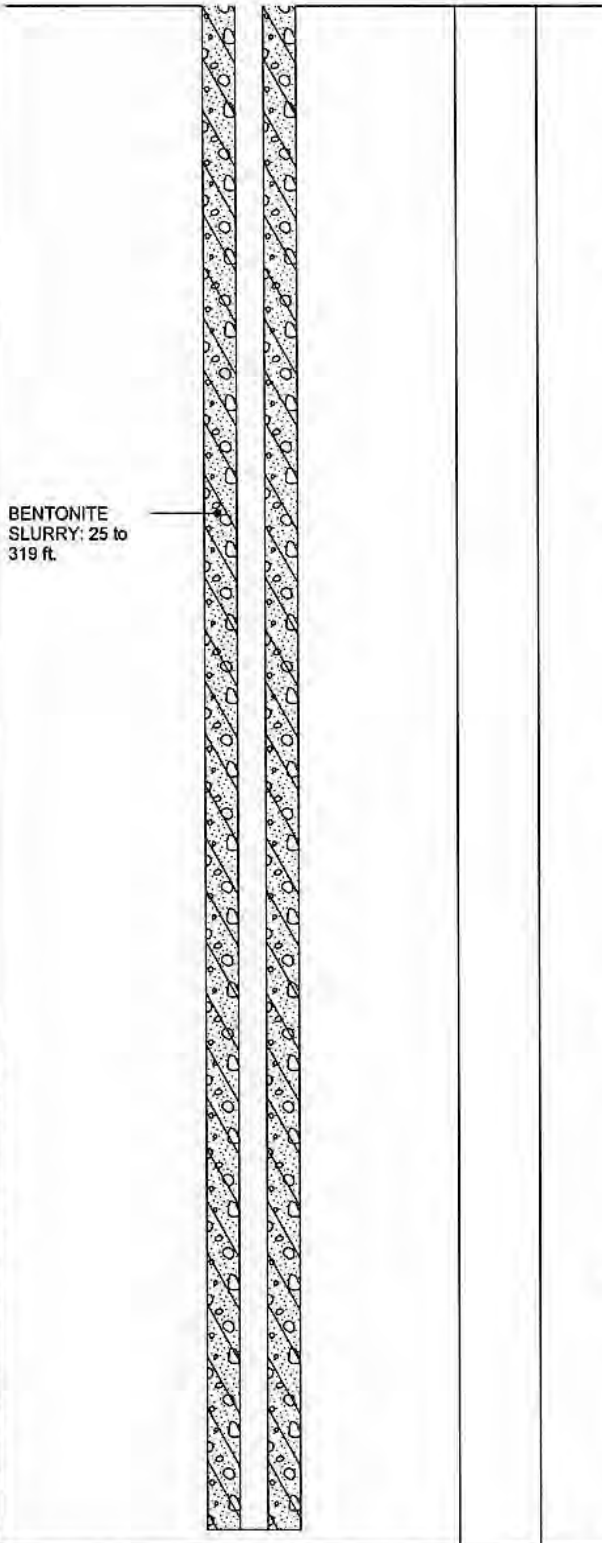
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Fort Ord, California  
 APPROVED *WST/cw*

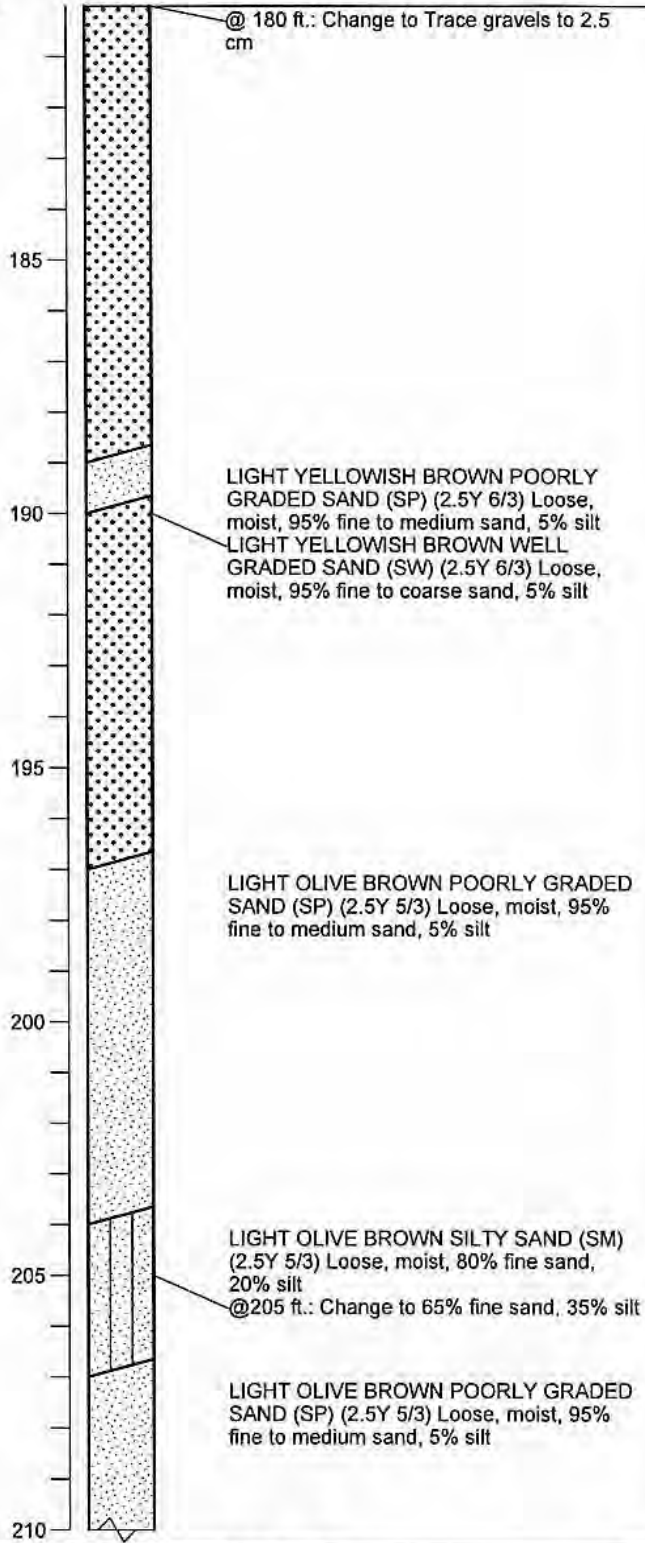
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 REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 319 ft.



@ 180 ft.: Change to Trace gravels to 2.5 cm

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/3) Loose, moist, 95% fine to medium sand, 5% silt  
 LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) Loose, moist, 95% fine to coarse sand, 5% silt

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, moist, 95% fine to medium sand, 5% silt

LIGHT OLIVE BROWN SILTY SAND (SM) (2.5Y 5/3) Loose, moist, 80% fine sand, 20% silt

@205 ft.: Change to 65% fine sand, 35% silt

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, moist, 95% fine to medium sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTD\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



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Fort Ord, California

A8

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JOB NUMBER  
 55596 001701

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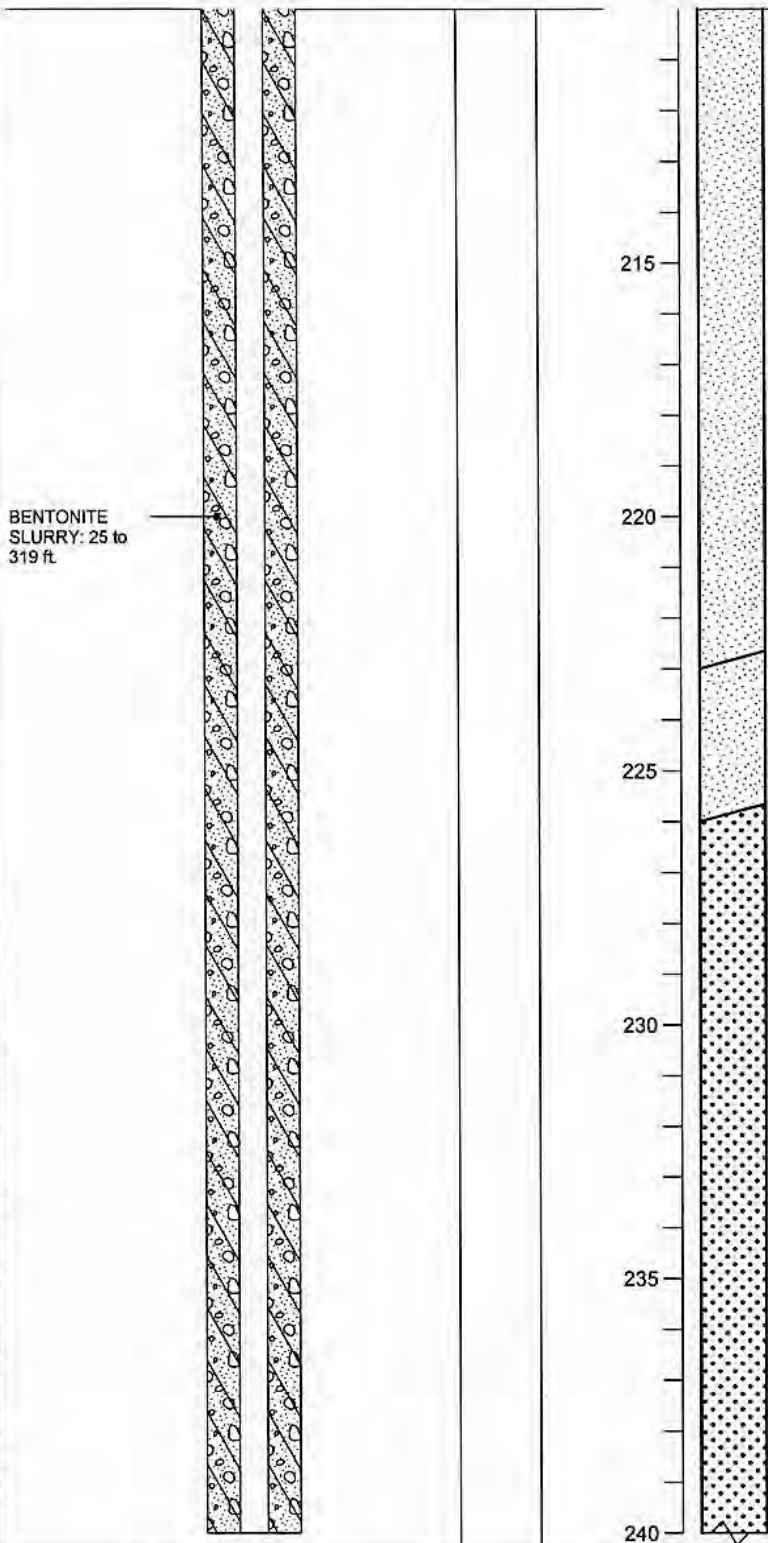
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DATE  
 11/04

REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 319 ft.

@ 218 ft.: Change to 90% fine to medium sand, 10% silt

@ 223 ft.: Change to LIGHT OLIVE BROWN POORLY GRADED SAND WITH GRAVEL, Loose, moist to wet, 80% fine to medium sand, 15% gravel, 5% silt, Gravels subrounded green and white chert and granite up to 3 cm.

BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/6) Loose, moist, 95% fine to coarse sand, 5% silt

@ 228 ft.: Change to Increase in coarse sand

@ 235 ft.: Change to YELLOWISH BROWN (10YR 5/6) Loose, moist, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-40**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A8**

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 MBP

JOB NUMBER  
 55596 001701

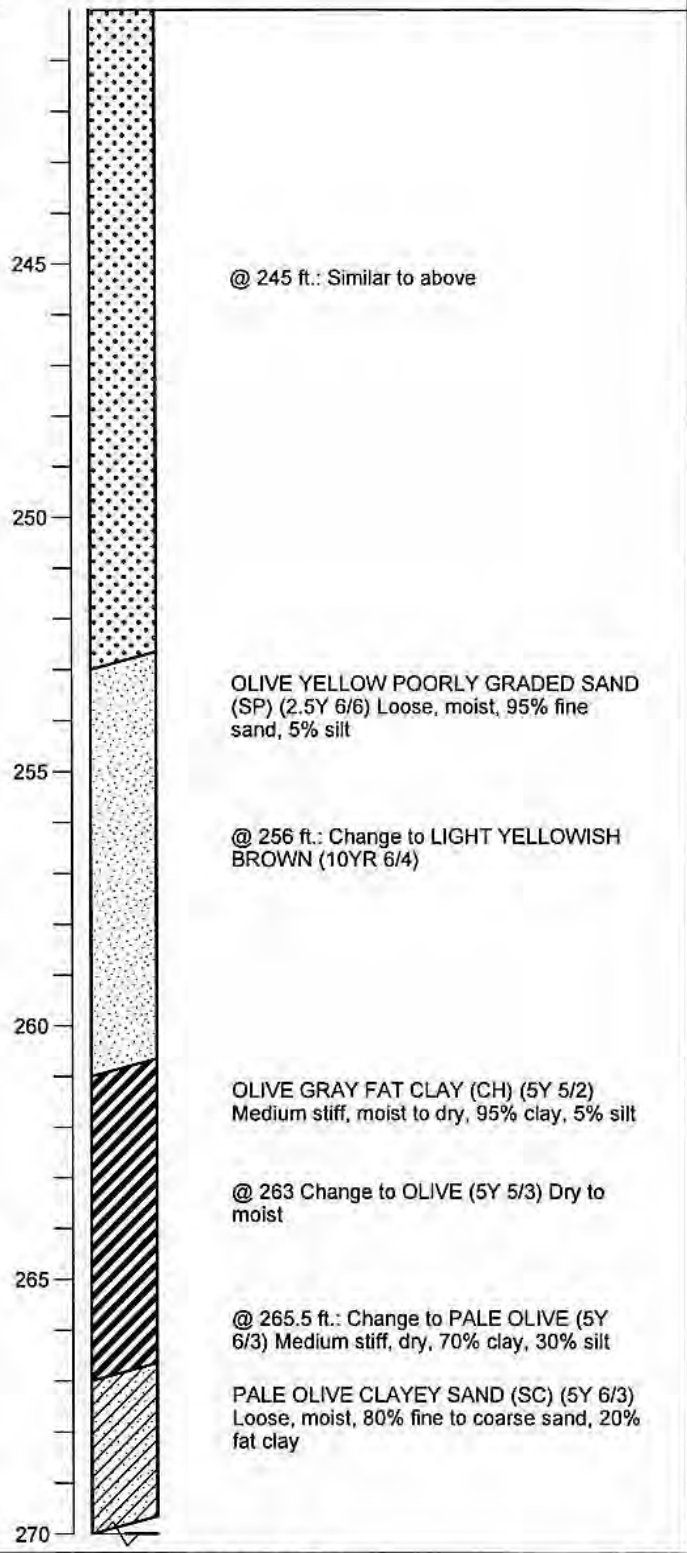
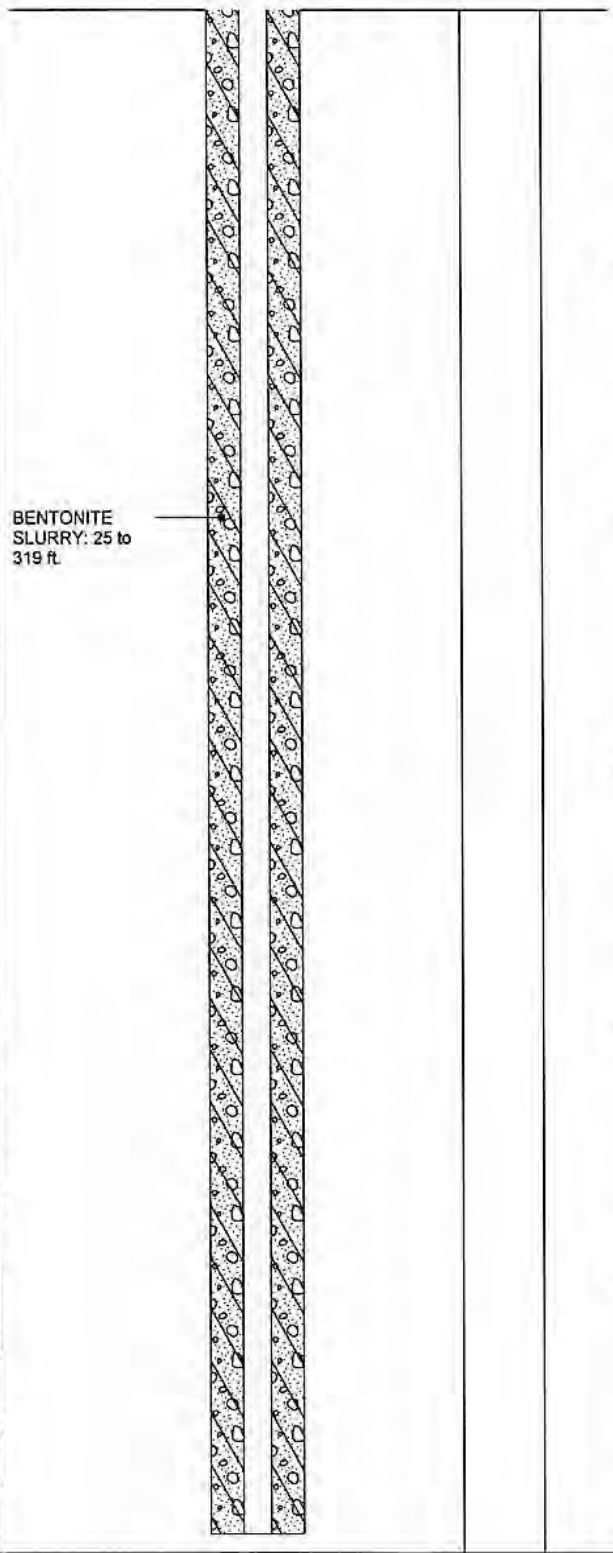
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 11/04

REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BORING WELL\_OUCTP\_OUCTPV6.GPJ FTQ\_OUCTP.GDT 11/24/04

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DRAWN MBP JOB NUMBER 55596 001701

Well Construction Details and Log of Boring MP-BW-40  
 OUCTP

PLATE

Fort Ord, California

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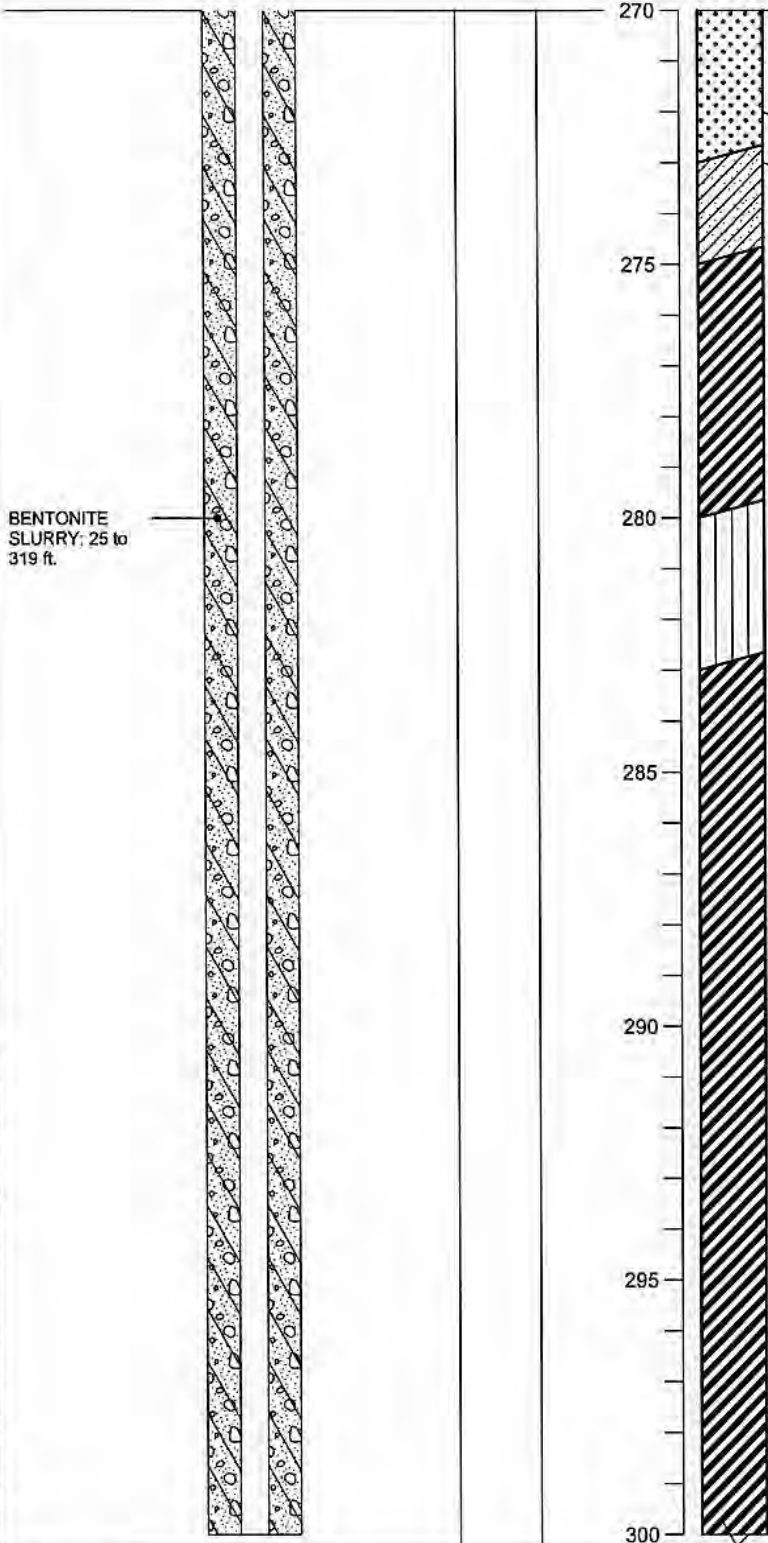
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REVISED DATE

**A8**

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



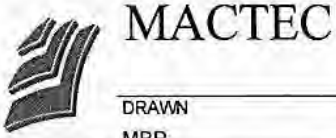
BENTONITE  
 SLURRY: 25 to  
 319 ft.

270 PALE OLIVE WELL GRADED SAND (SW) (5Y 6/3) Loose, moist to wet, 90% fine to coarse sand, 10% silt, Trace gravel to 6 cm. (One only, flat mudstone), Possible shell fragments  
 @ 272 ft.: Change to Decrease in coarse sand  
 PALE OLIVE CLAYEY SAND (SC) (5Y 6/3) Loose, moist, 80% fine to coarse sand, 20% clay  
 275 DARK YELLOWISH BROWN FAT CLAY (CH) (10YR 4/6) Stiff, dry, 90% clay, 10% silt  
 280 DARK YELLOWISH BROWN SILT (ML) (10YR 4/4) Medium stiff, dry, 80% silt, 20% clay  
 DARK YELLOWISH BROWN FAT CLAY (CH) (10YR 4/6) Stiff, dry, 95% clay, 5% silt  
 285  
 290 @ 290 ft.: Change to 70% clay, 30% silt, Medium stiff, dry  
 @ 293 ft.: Change to Soft, moist, 70% fat clay, 30% silt  
 295  
 @ 297 ft.: Change to Medium stiff, dry, 90% fat clay, 10% silt, Mottled with PALE OLIVE FAT CLAY (5Y 6/4)  
 300

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE



Fort Ord, California

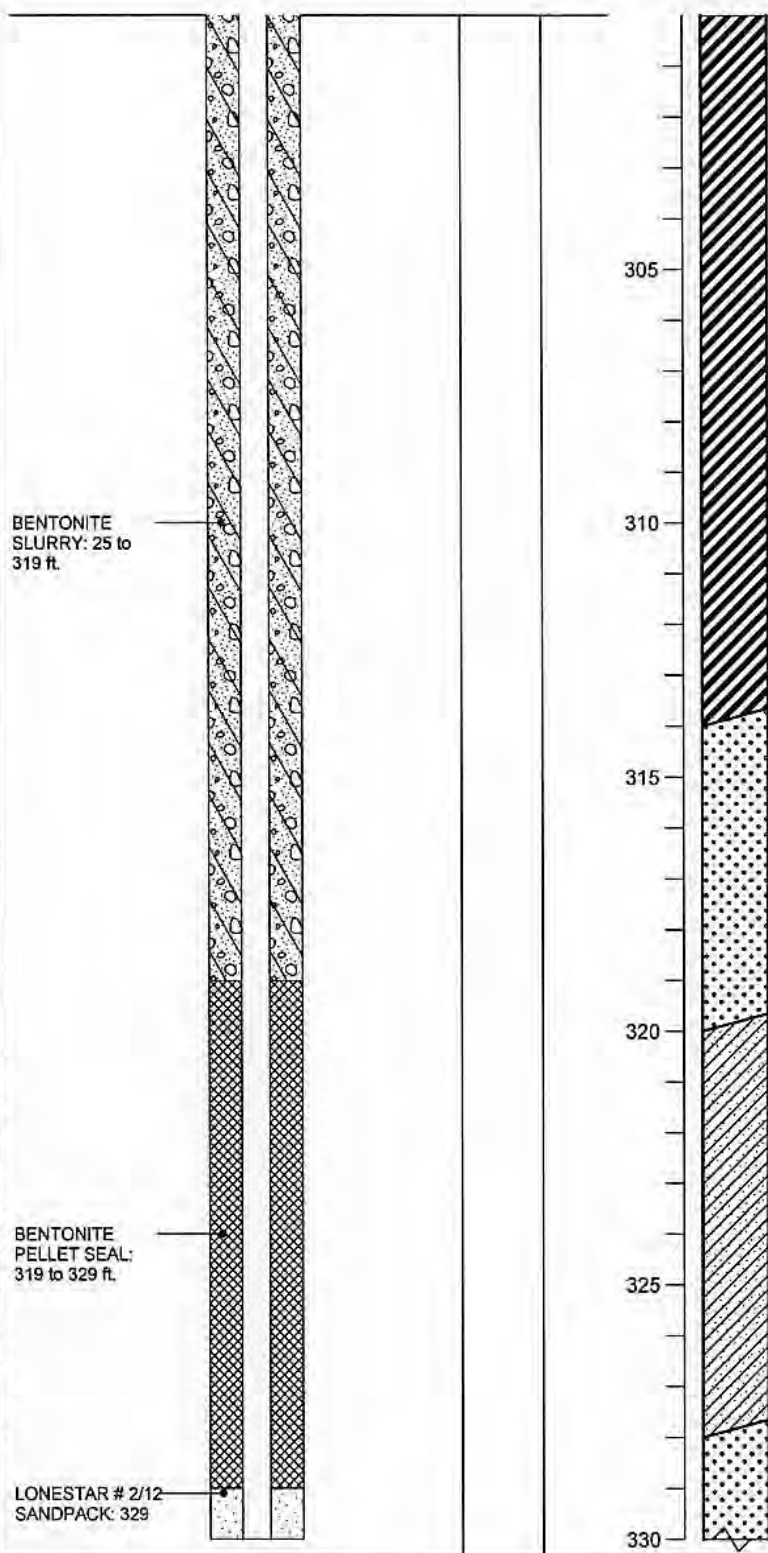
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DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 11/04	REVISED DATE
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Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
Sample



@ 300 ft.: Change to Streaks of possible Manganese staining

@ 304 ft.: Change to PALE OLIVE (5Y 6/4) Soft, moist, 70% clay, 30% silt

@ 307 ft.: Change to 90% clay, 10% silt

@ 311 ft.: Change to Medium stiff, dry to moist

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) Loose, wet, 95% fine to coarse sand, 5% silt

@ 316 ft.: Change to PALE OLIVE (5Y 6/4)

@ 318 ft.: Change to increase silt to 10%, Trace gravels to 2 cm.

OLIVE CLAYEY SAND (SC) (5Y 5/3) Loose, wet, 80% fine to coarse sand, 20% clay, Trace gravels of subrounded mudstone, chert, and granitic to 4 cm.

@ 322 ft.: Change to Increase sand grain size, 5% subrounded gravels to 3 cm.

@ 327 ft.: Change to Trace gravels to 2 cm.

OLIVE WELL GRADED SAND (SW) (5Y 5/3) Loose, wet, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

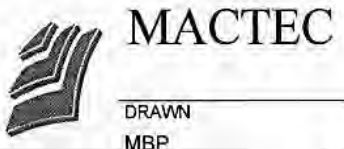
BENTONITE SLURRY: 25 to 319 ft.

BENTONITE PELLET SEAL: 319 to 329 ft.

LONESTAR # 2/12 SANDPACK: 329

Well Construction Details and Log of Boring MP-BW-40  
OUCTP

PLATE



Fort Ord, California

**A8**

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MBP

JOB NUMBER  
55596 001701

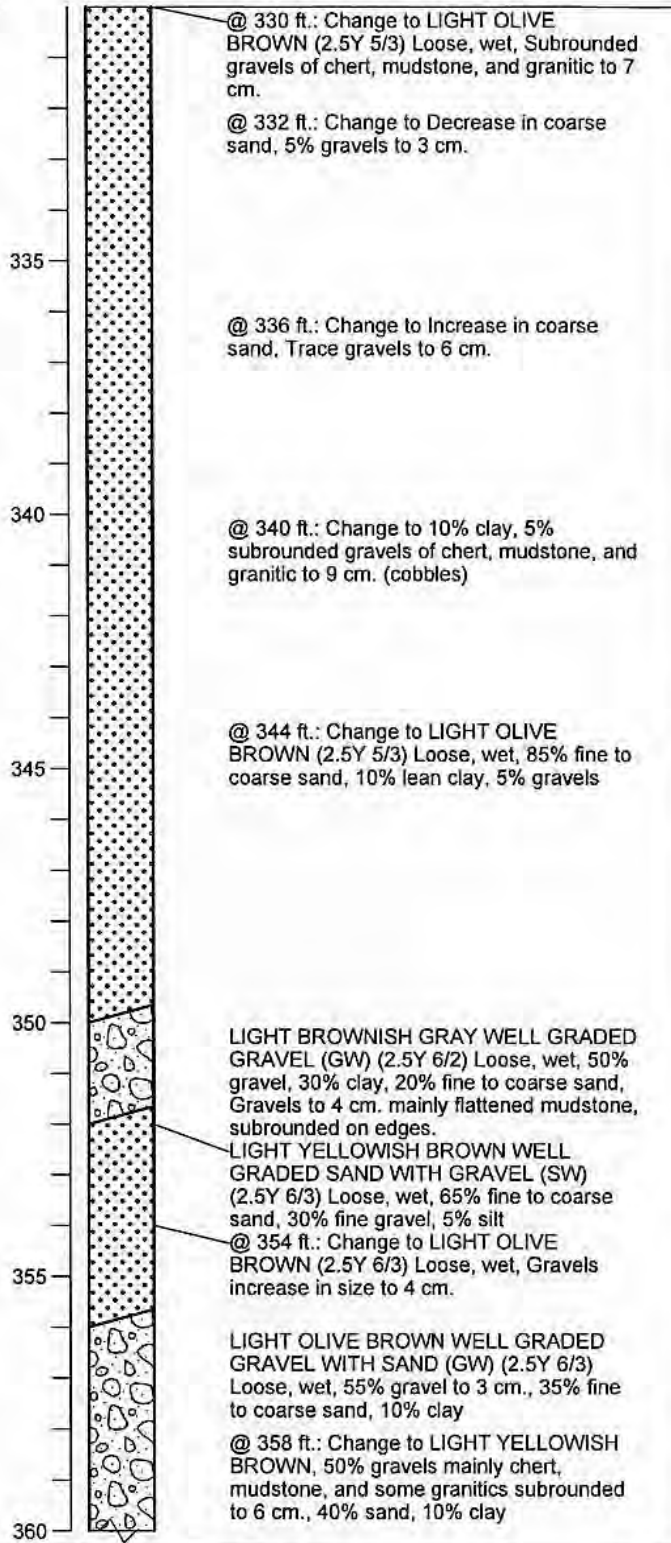
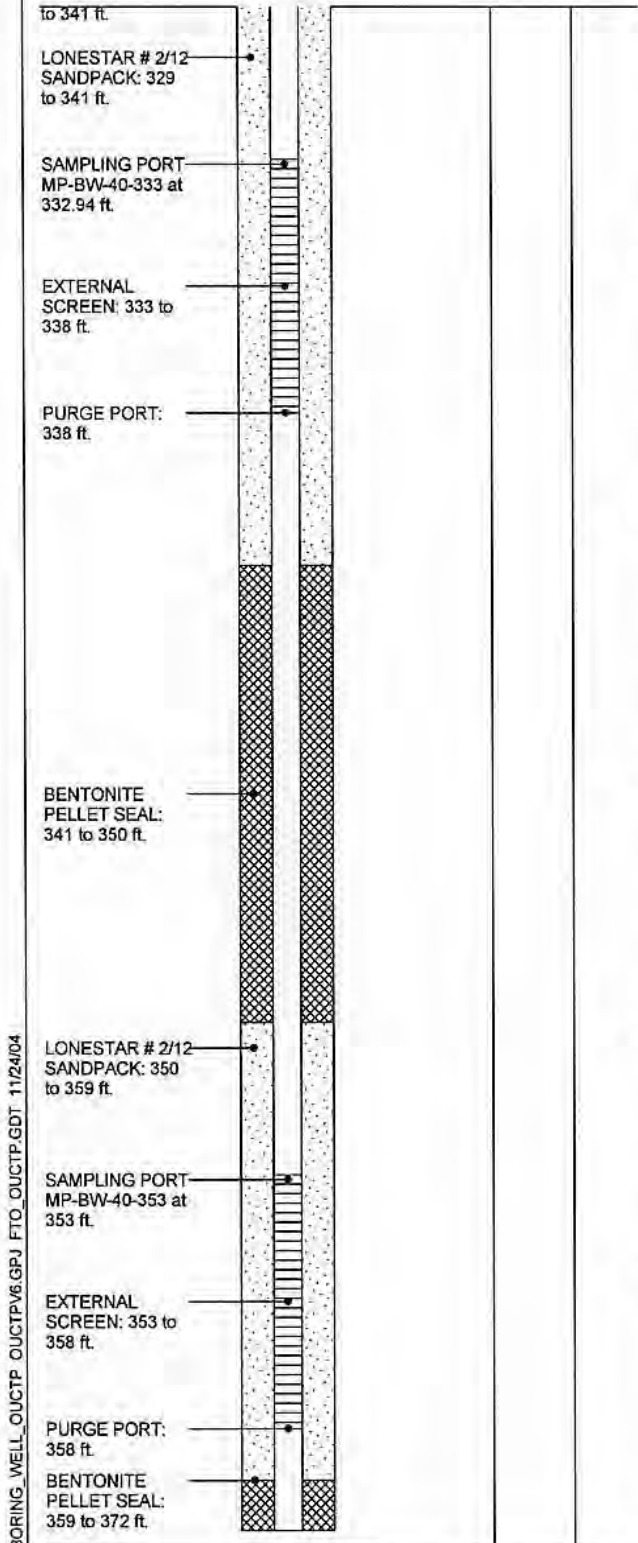
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DATE  
11/04

REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MP-BW-40 PLATE



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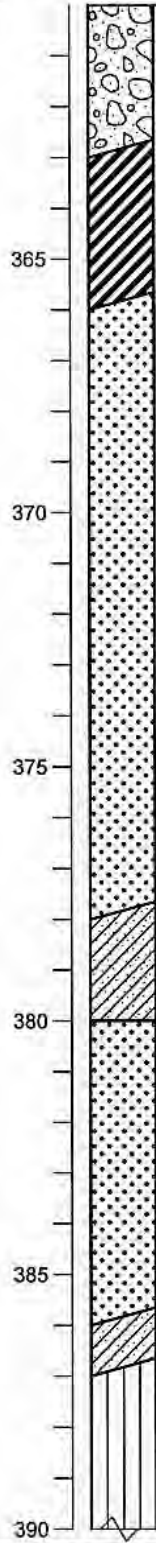
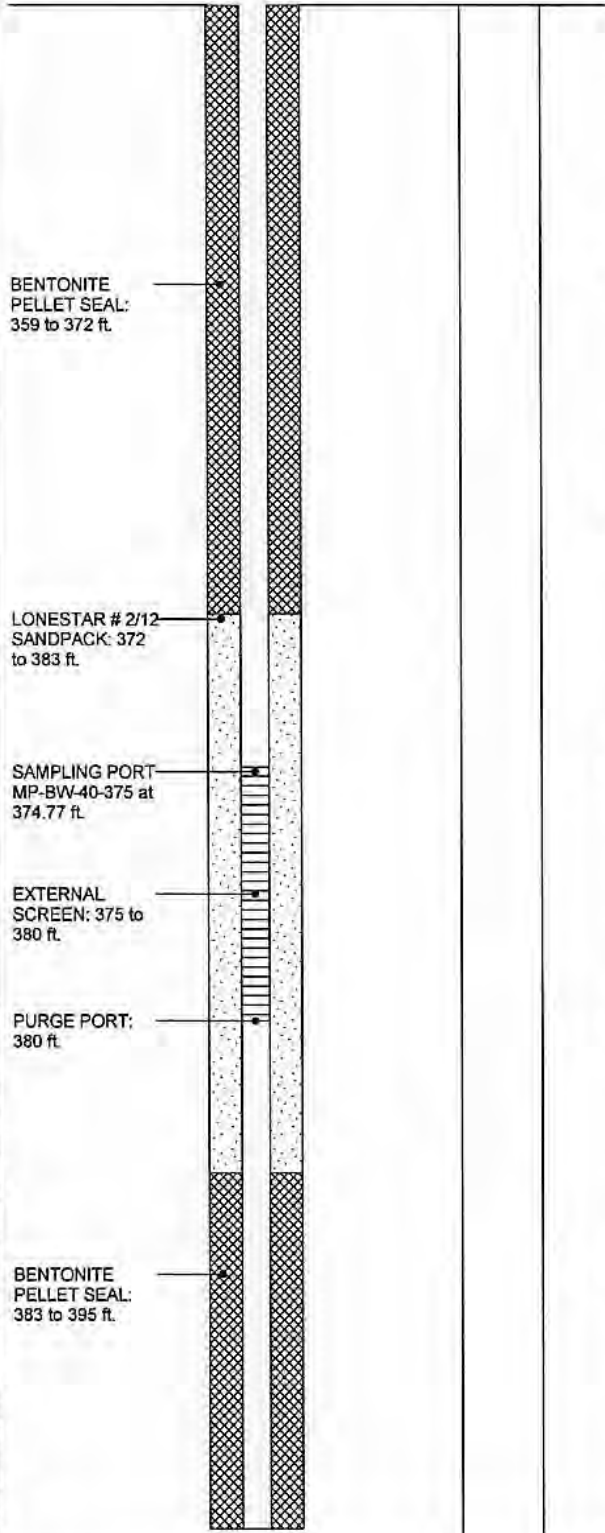
Fort Ord, California

**A8**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



@ 362 ft.: Change to OLIVE GRAY, Gravels to 4 cm., Gradational contact to 363 ft.  
 PALE OLIVE FAT CLAY (CH) (5Y 6/3)  
 Medium stiff, moist to dry, 85% fat clay, 5% fine sand, 5% silt, 5% gravel of subrounded granitics and chert

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) Loose, wet, 80% fine to coarse sand, 10% clay, 10% gravels to 5 cm.

@ 372 ft.: Change to 90% fine to coarse grained sand, 10% gravel, Trace clay

@ 374 ft.: Change to Increase gravels to 5%

LIGHT YELLOWISH BROWN CLAYEY SAND (SC) (2.5Y 6/3) 85% fine to coarse sand, 15% clay

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) 85% fine to coarse sand, 10% subrounded gravel to 3 cm., 5% silt

@ 384 ft.: Change to Gravels up to 5cm.

OLIVE CLAYEY SAND (SC) (5Y 5/3) Loose, wet, 50% fine to coarse sand, 40% clay, 10% subrounded gravel up to 3 cm.  
 OLIVE SILT (ML) (5Y 5/3) Medium stiff, dry, 75% silt, 25% fat clay

BORING\_WELL\_OUCTP\_V6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-40  
 OUCTP

PLATE

**MACTEC**  
 DRAWN: MBP  
 JOB NUMBER: 55596 001701

Fort Ord, California

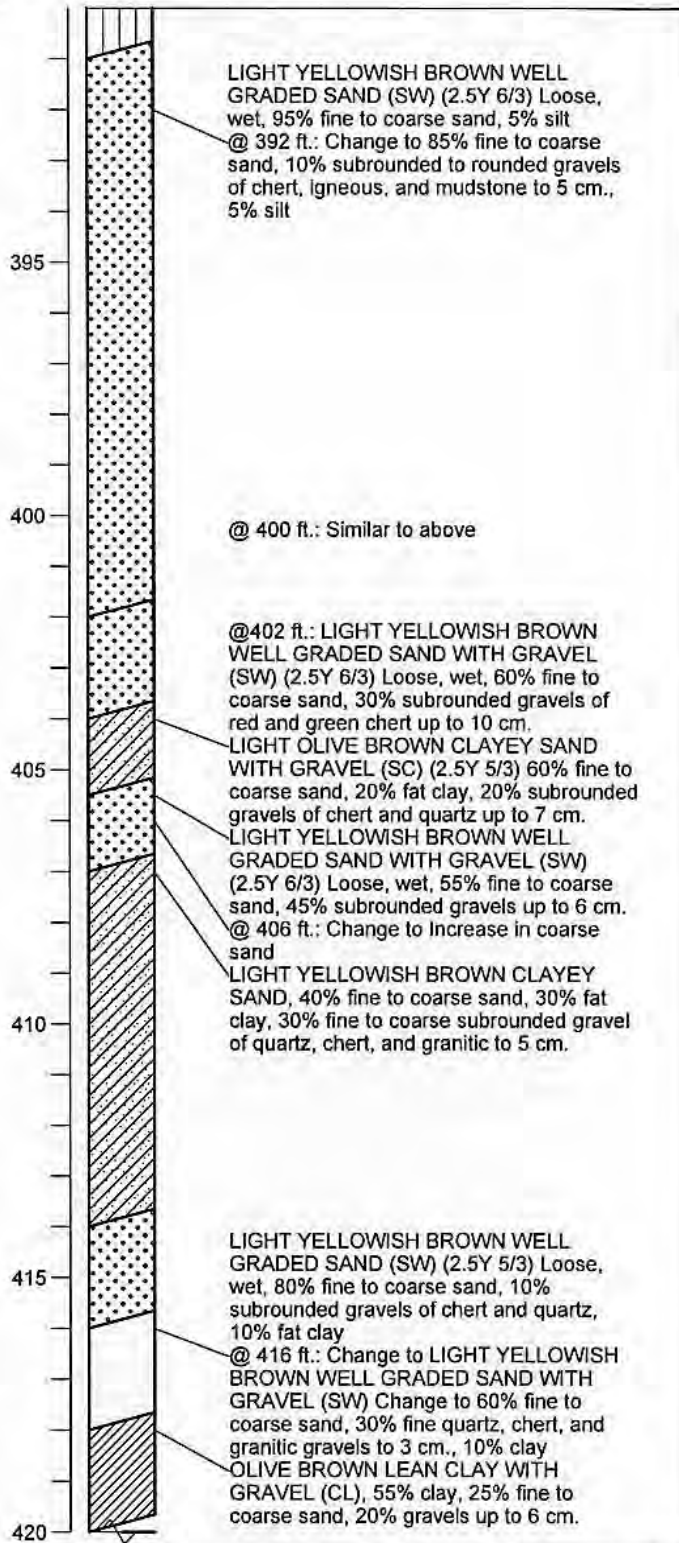
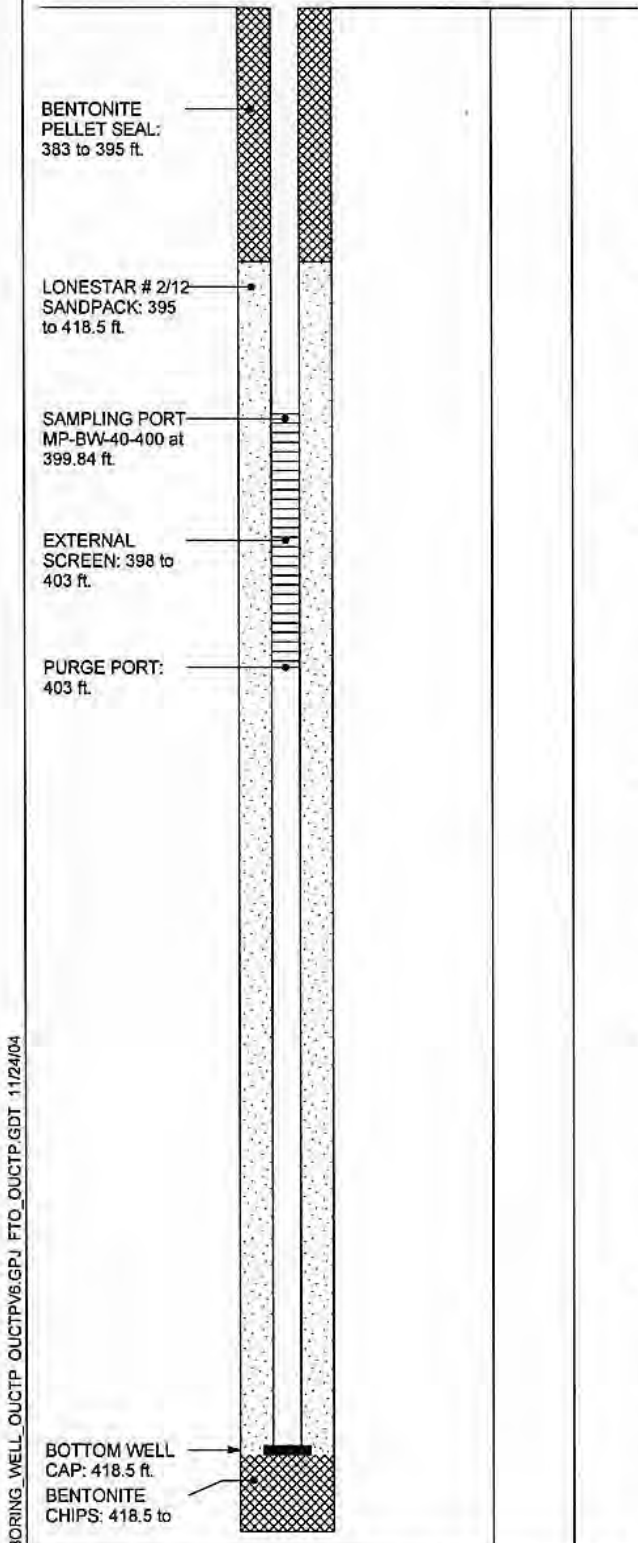
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**A8**  
 REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV&G.PJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MP-BW-40

PLATE



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Fort Ord, California

**A8**

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55596 001701

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DATE  
11/04

REVISED DATE

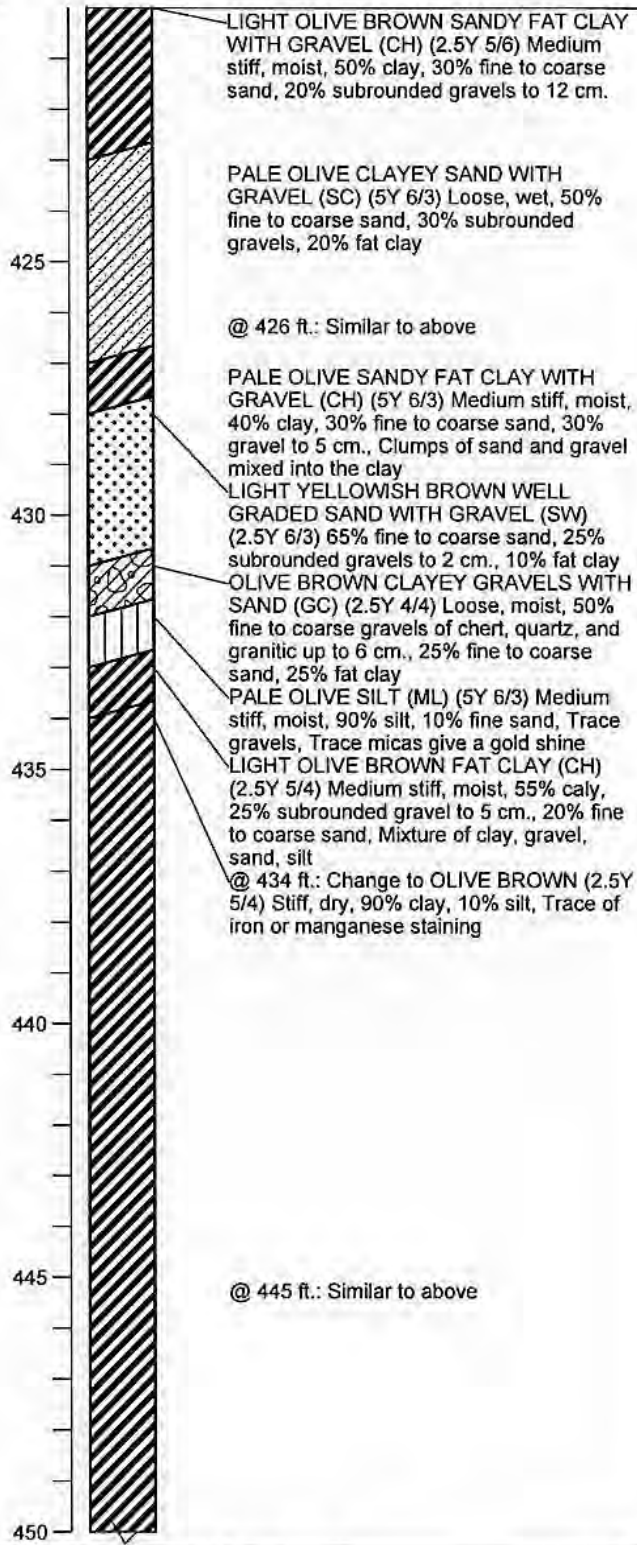


Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
Sample

496 ft

BENTONITE  
CHIPS: 418.5 to  
496 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-40

PLATE



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Fort Ord, California

**A8**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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*ADD / cm*

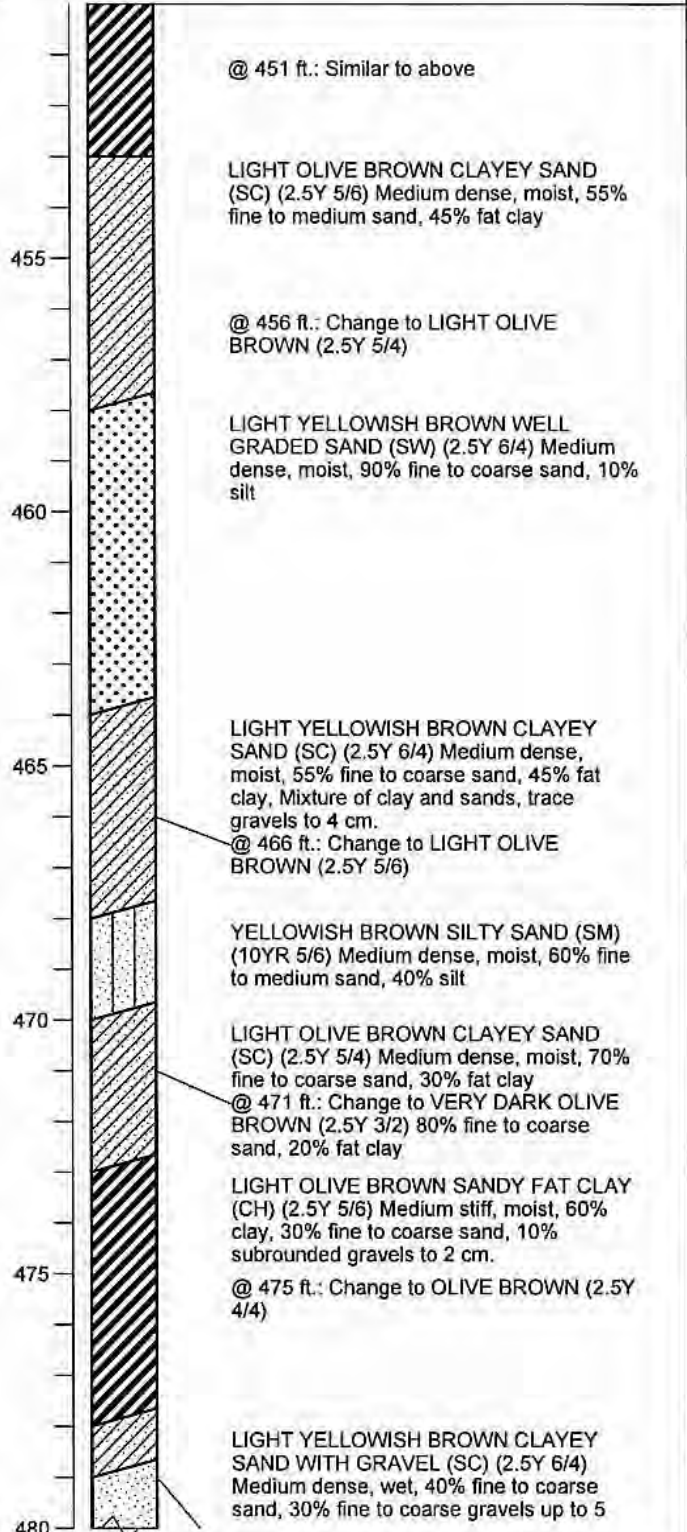
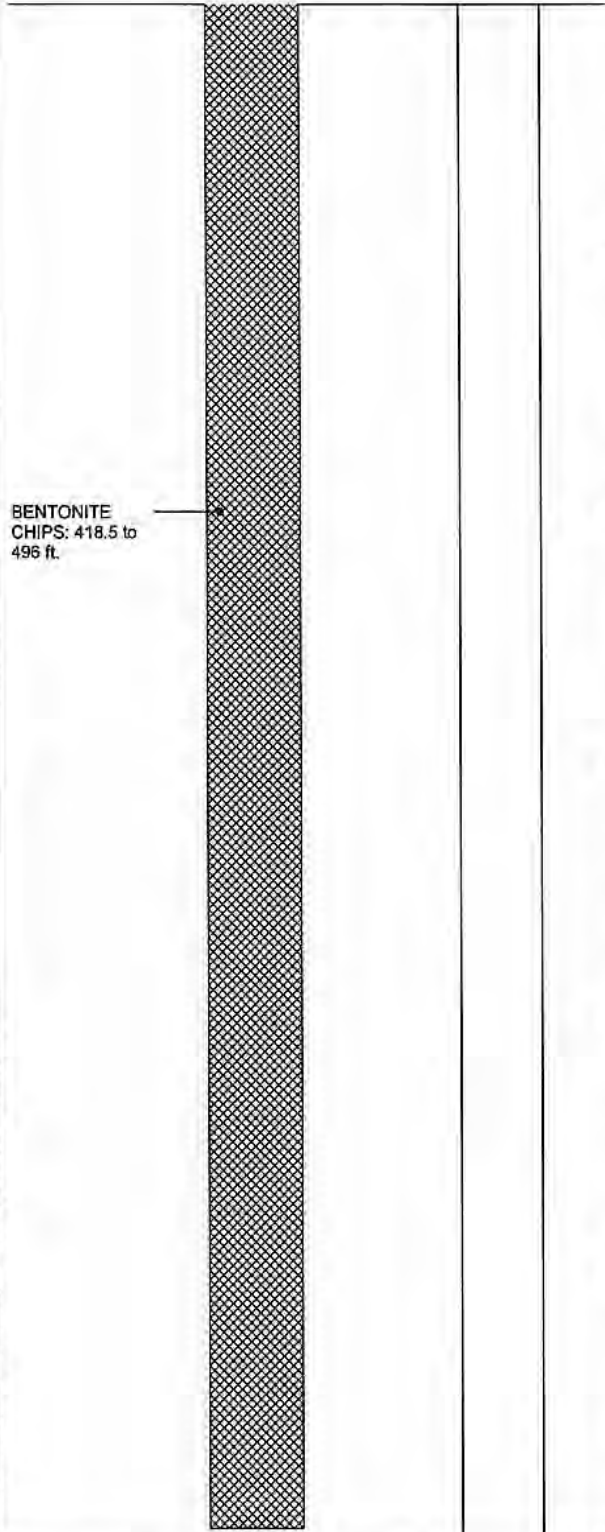
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Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-40**

PLATE

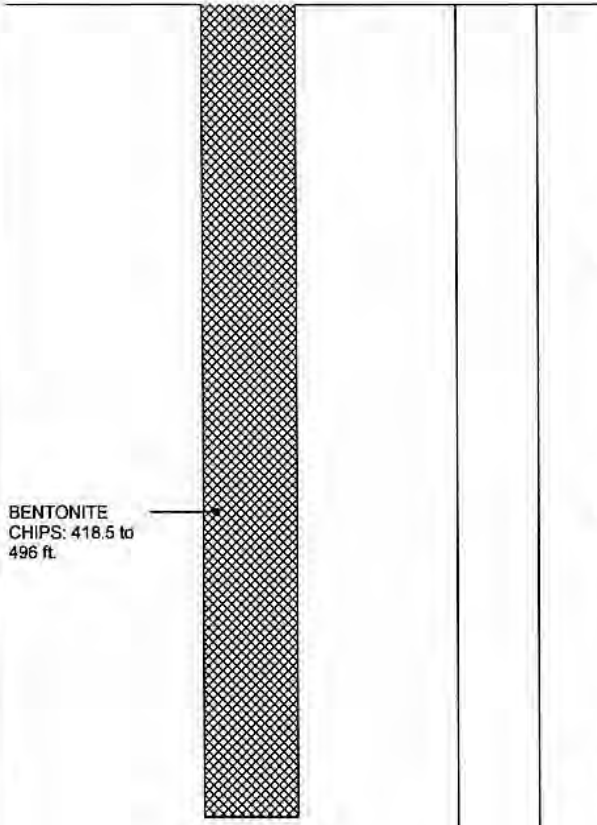
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 JOB NUMBER 55596 001701

Fort Ord, California  
 APPROVED *[Signature]*

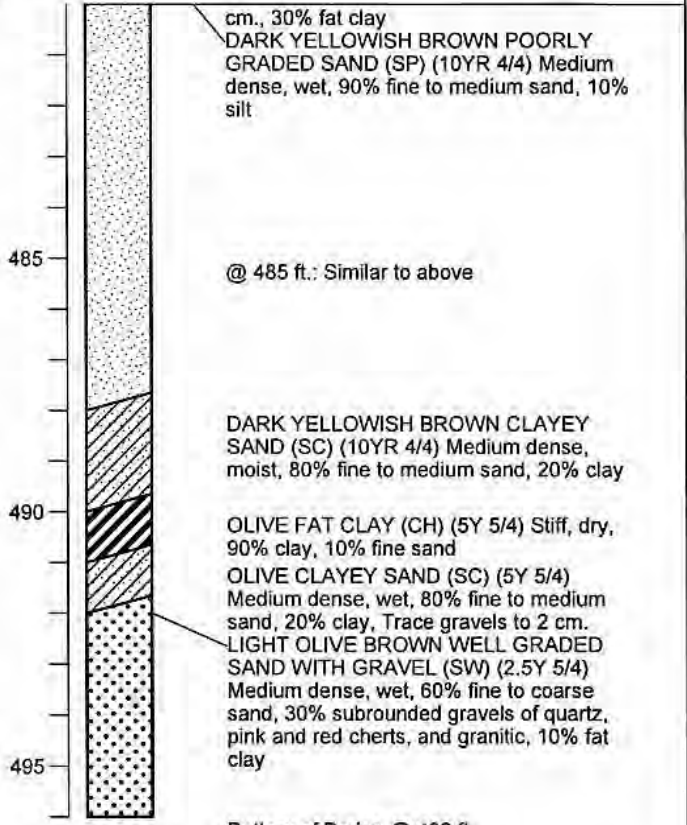
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 REVISED DATE

Completion Date 10/13/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 127.7 ft. Hole Dia. 7 in.  
 Northing 2142544.13 Easting 5751938.94

Depth (ft.)  
 Sample



BENTONITE  
 CHIPS: 418.5 to  
 496 ft.



cm., 30% fat clay  
 DARK YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (10YR 4/4) Medium  
 dense, wet, 90% fine to medium sand, 10%  
 silt

@ 485 ft.: Similar to above

DARK YELLOWISH BROWN CLAYEY  
 SAND (SC) (10YR 4/4) Medium dense,  
 moist, 80% fine to medium sand, 20% clay

OLIVE FAT CLAY (CH) (5Y 5/4) Stiff, dry,  
 90% clay, 10% fine sand

OLIVE CLAYEY SAND (SC) (5Y 5/4)  
 Medium dense, wet, 80% fine to medium  
 sand, 20% clay, Trace gravels to 2 cm.

LIGHT OLIVE BROWN WELL GRADED  
 SAND WITH GRAVEL (SW) (2.5Y 5/4)  
 Medium dense, wet, 60% fine to coarse  
 sand, 30% subrounded gravels of quartz,  
 pink and red cherts, and granitic, 10% fat  
 clay

Bottom of Boring @ 496 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and  
 Log of Boring MP-BW-40  
 OUCTP

PLATE

**A8**

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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*[Signature]*

DATE  
 11/04

REVISED DATE

Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

Top of PVC Casing  
 Elev. 157.05 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

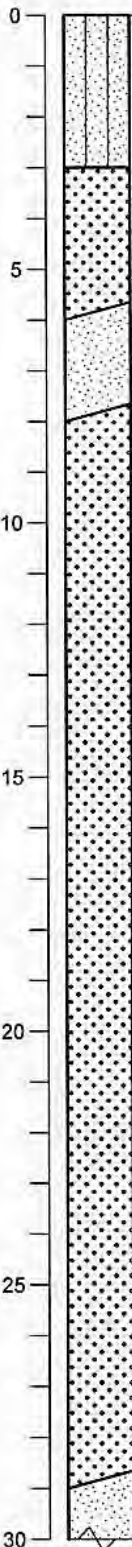
7 in. DIAMETER  
 BOREHOLE: 0 to  
 407 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 404  
 ft.

BENTONITE  
 SLURRY: 25 to  
 188 ft.

Depth (ft.)  
 Sample



VERY DARK GRAYISH BROWN SILTY  
 SAND (SM) (2.5Y 3/2) Loose, moist, 85%  
 fine to coarse sand, 15% silt

DARK GRAYISH BROWN WELL GRADED  
 SAND (SW) (2.5Y 4/2) Loose, moist, 90%  
 fine to coarse sand, 10% silt

@ 5 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 95% fine  
 to medium sand, 5% silt

LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 6/4) Loose,  
 dry, 95% fine to coarse sand, 5% silt

@ 12 ft.: Similar to above

@ 16 ft.: Similar to above

@ 20 ft.: Similar to above

@ 26 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (2.5Y 6/4) Loose, dry,

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-41  
 OUCTP

PLATE



Fort Ord, California

**A9**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

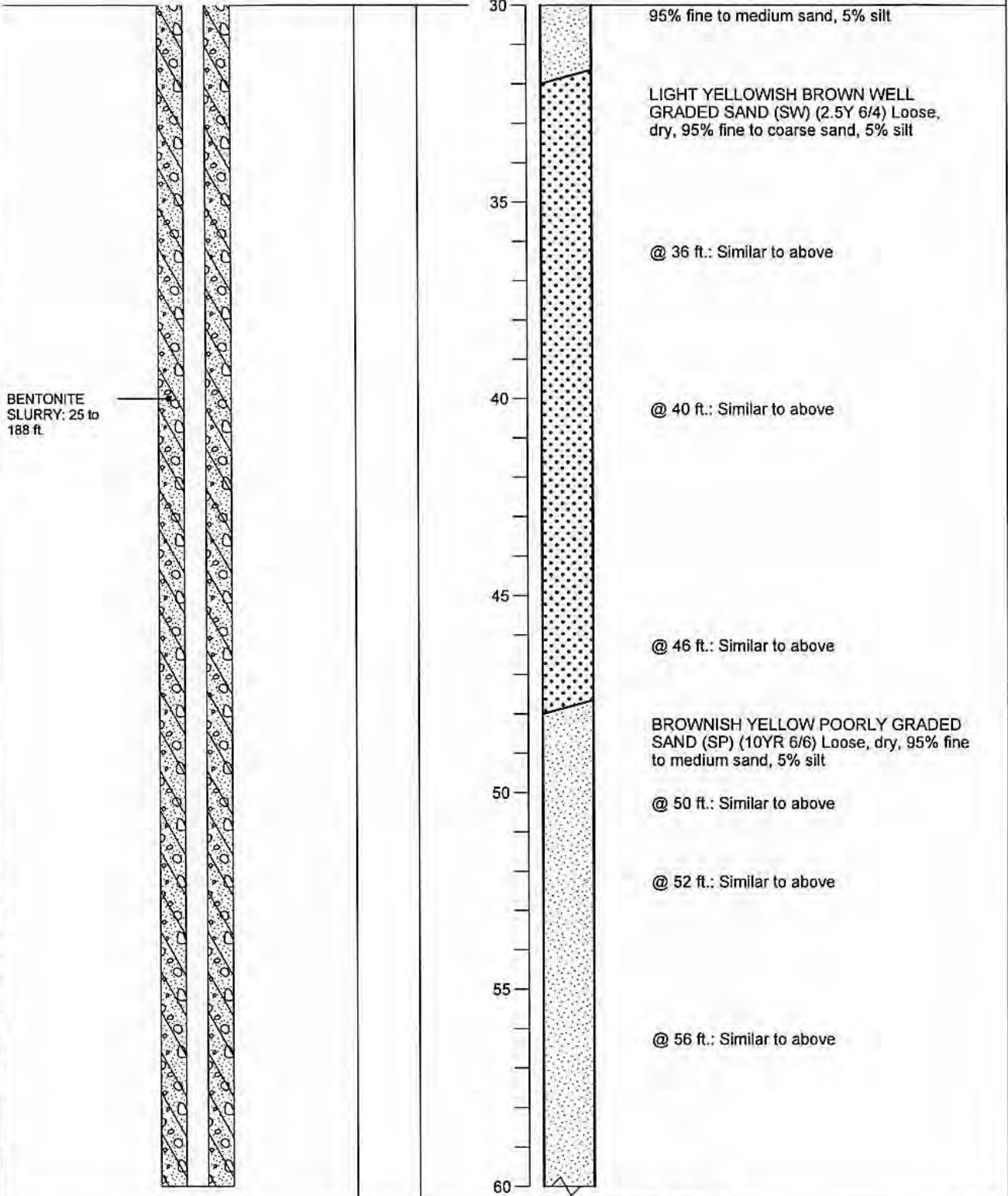
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DATE  
 11/04

REVISED DATE

Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-41  
 OUCTP

PLATE



MACTEC

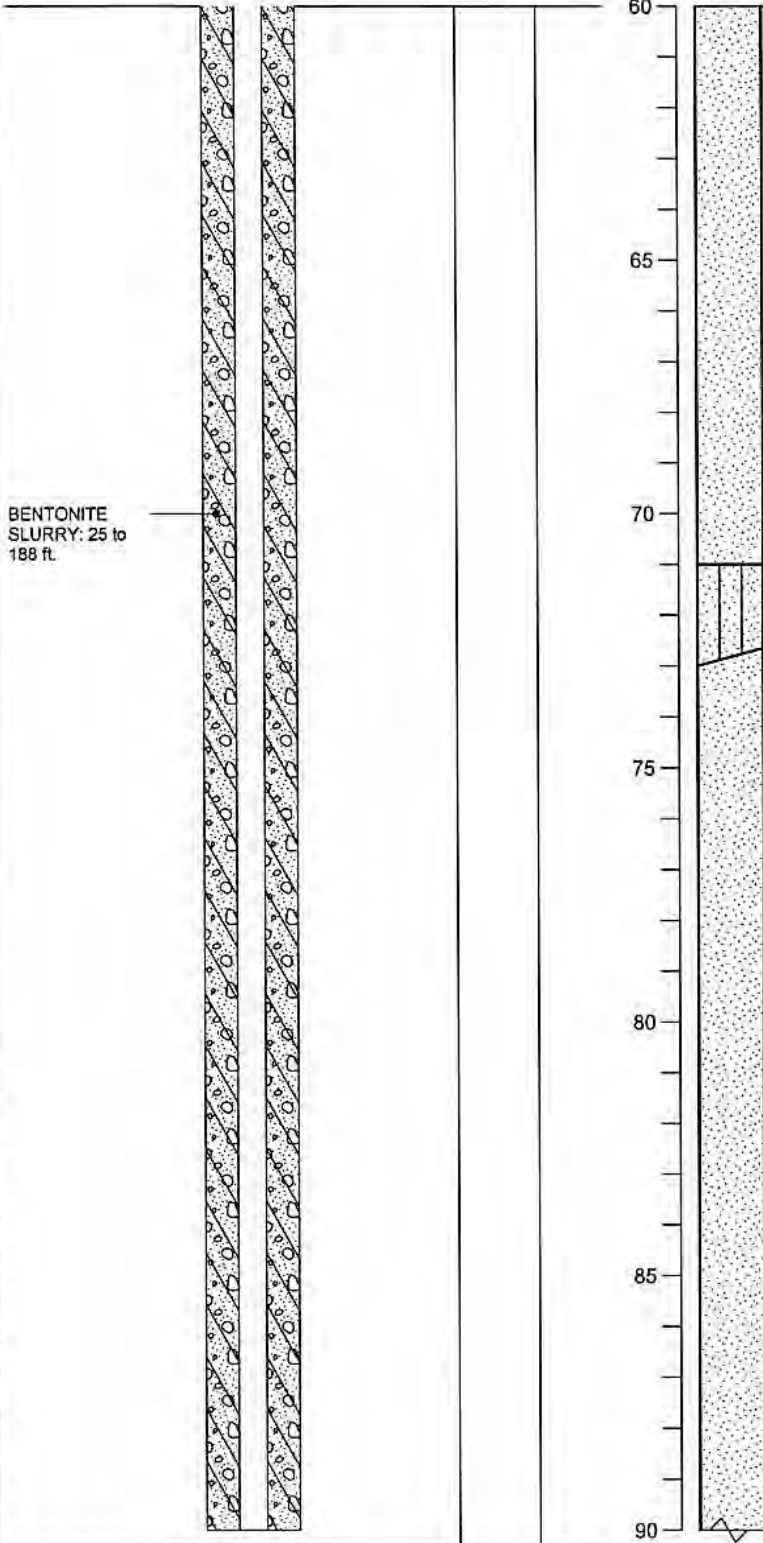
Fort Ord, California

**A9**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 11/04	REVISED DATE
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Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
188 ft.

@ 60 ft.: Change to YELLOWISH BROWN  
(10YR 5/6)

@ 65 ft.: Similar to above

@ 69 ft.: Change to Loose, wet

@ 70 ft.: Similar to above

STRONG BROWN SILTY SAND (SM)  
(7.5YR 4/6) Loose, wet, 85% fine to coarse  
sand, 15% silt

YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR 5/4) Loose, wet, 95%  
fine to medium sand, 5% silt

@ 76 ft.: Similar to above

@ 80 ft.: Similar to above

@ 85 ft.: Similar to above

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-41  
OUCTP

PLATE



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Fort Ord, California

**A9**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

*MDT / km*

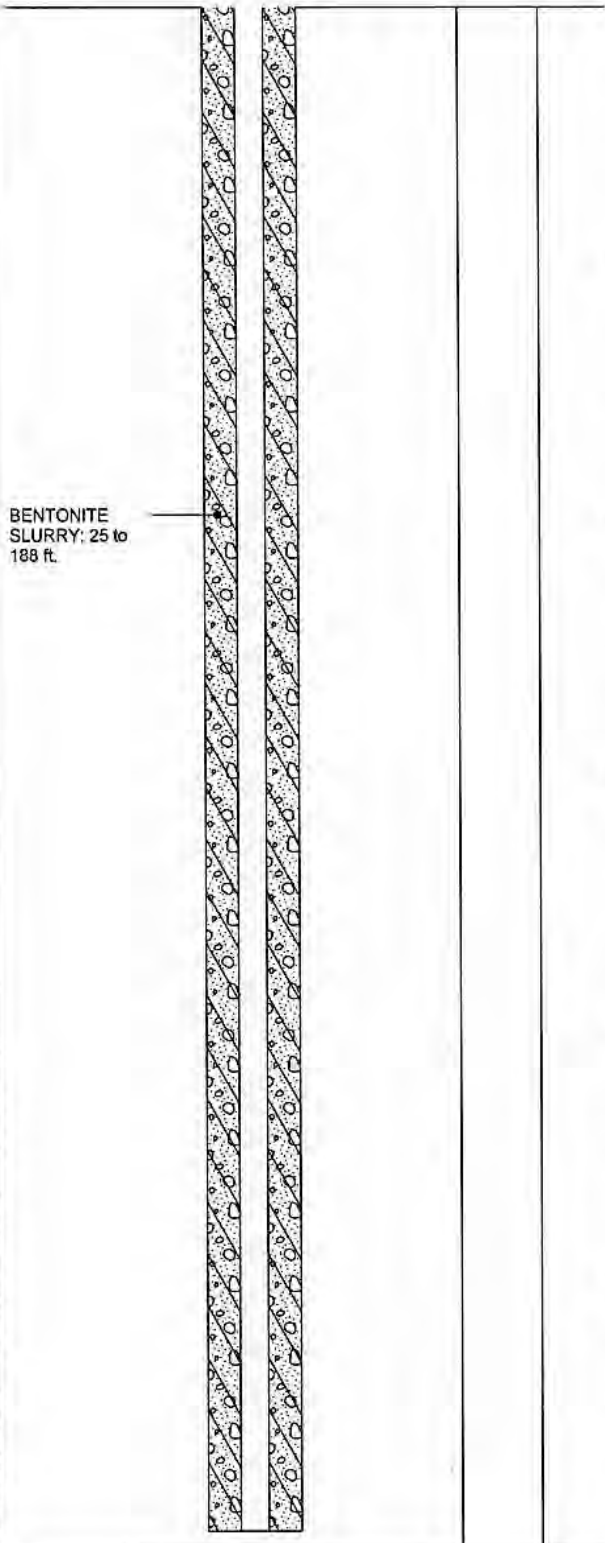
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11/04

REVISED DATE

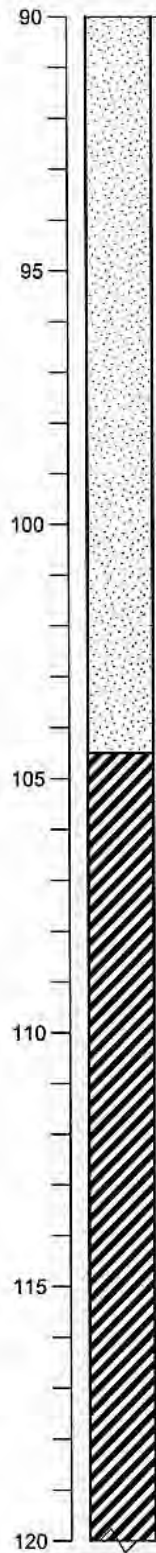


Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
Sample



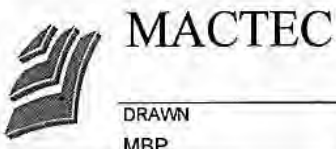
BENTONITE SLURRY: 25 to 188 ft.



@ 90 ft.: Similar to above  
 @ 92 ft.: Similar to above  
 @ 96 ft.: Similar to above  
 @ 100 ft.: Similar to above  
 @ 102 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 OLIVE GRAY FAT CLAY (CH) (5Y 4/2) Stiff, dry, 80% clay, 20% silt, Iron staining on less than 5%  
 @ 108 ft.: Change to 90% clay, 10% silt, White residue throughout reacts violently with HCL  
 @ 110 ft.: Change to OLIVE (5Y 5/4) No visible white residue. Reacts mildly with HCL  
 @ 112 ft.: Similar to above  
 @ 116 ft.: Change to DARK GREENISH GRAY (5G 4/1)  
 @ 118 ft.: Change to OLIVE GRAY (5Y 4/2) 10-15% white residue reacts violently with HCL

BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41 PLATE  
 OUCTP



Fort Ord, California

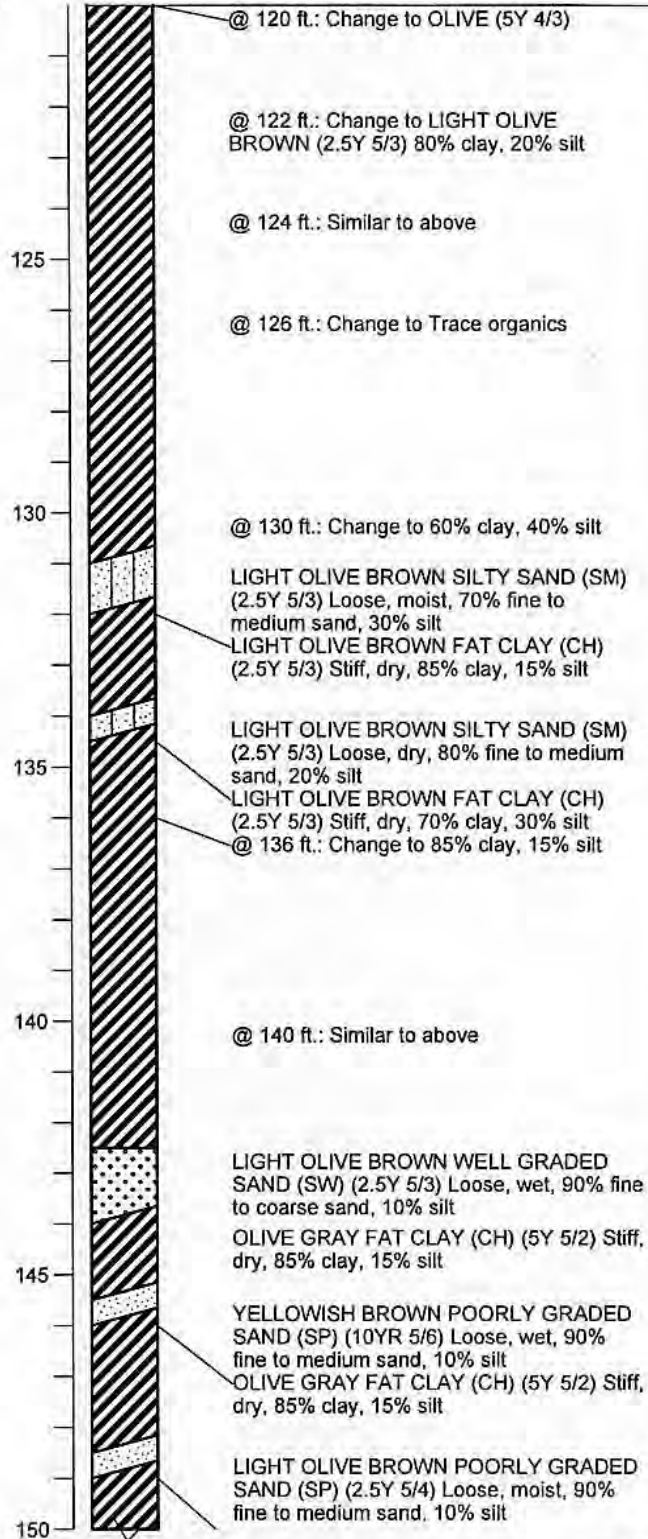
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DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / con</i>	11/04	

Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 188 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTD\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-41  
 OUCTP

PLATE



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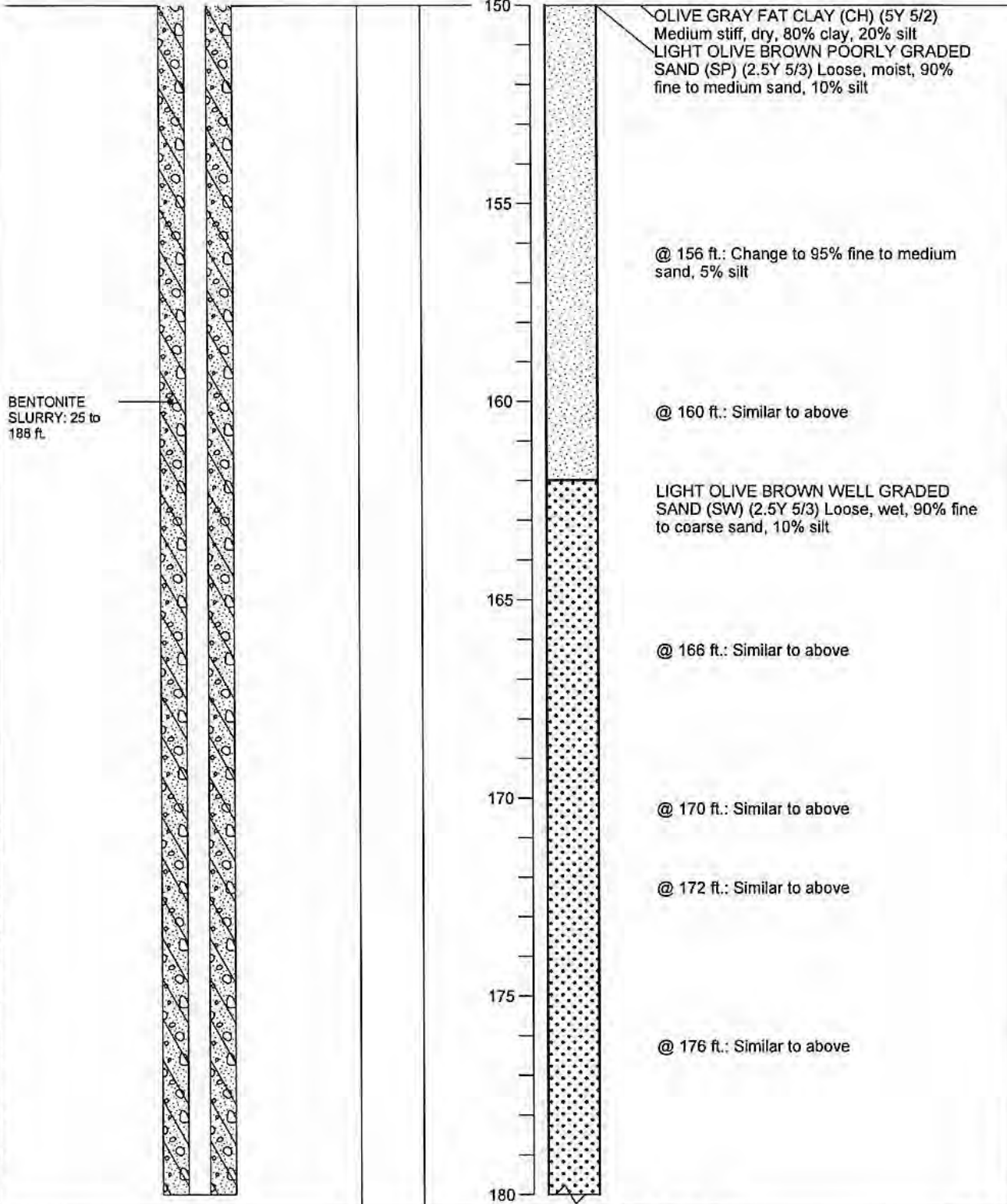
Fort Ord, California

**A9**

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MBP	55596 001701	<i>MDT / MBP</i>	11/04	

Completion Date 3/11/2003  
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 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
Sample



BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41 PLATE  
 OUCTP



**MACTEC**

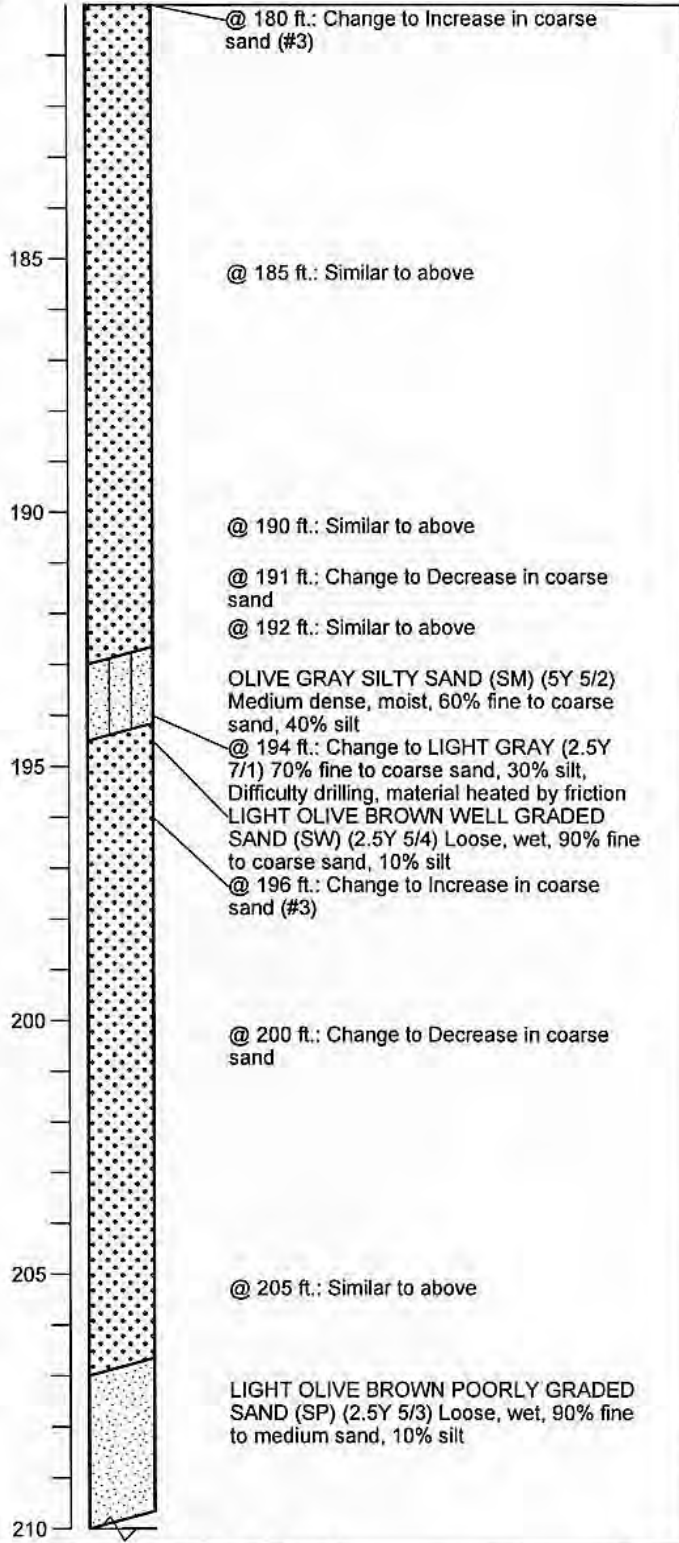
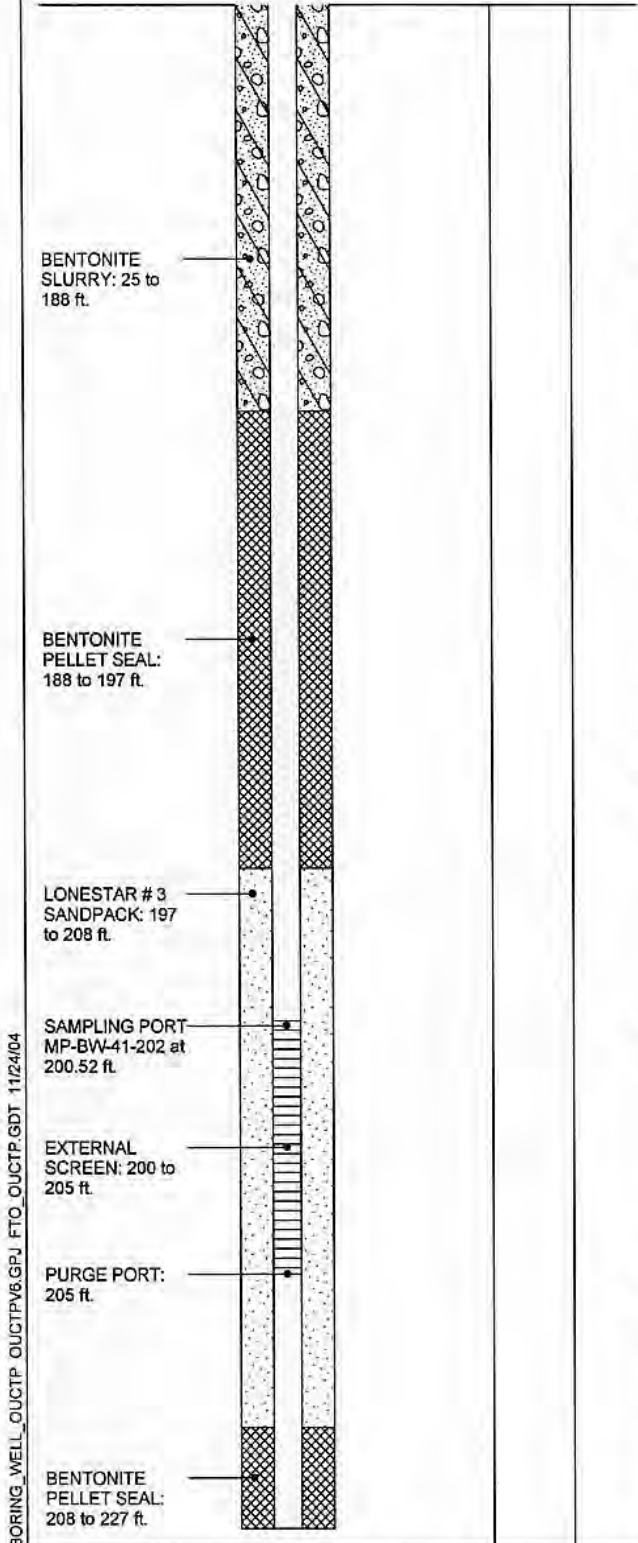
Fort Ord, California

**A9**

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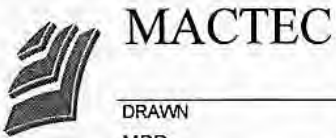
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 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41 PLATE  
 OUCTP



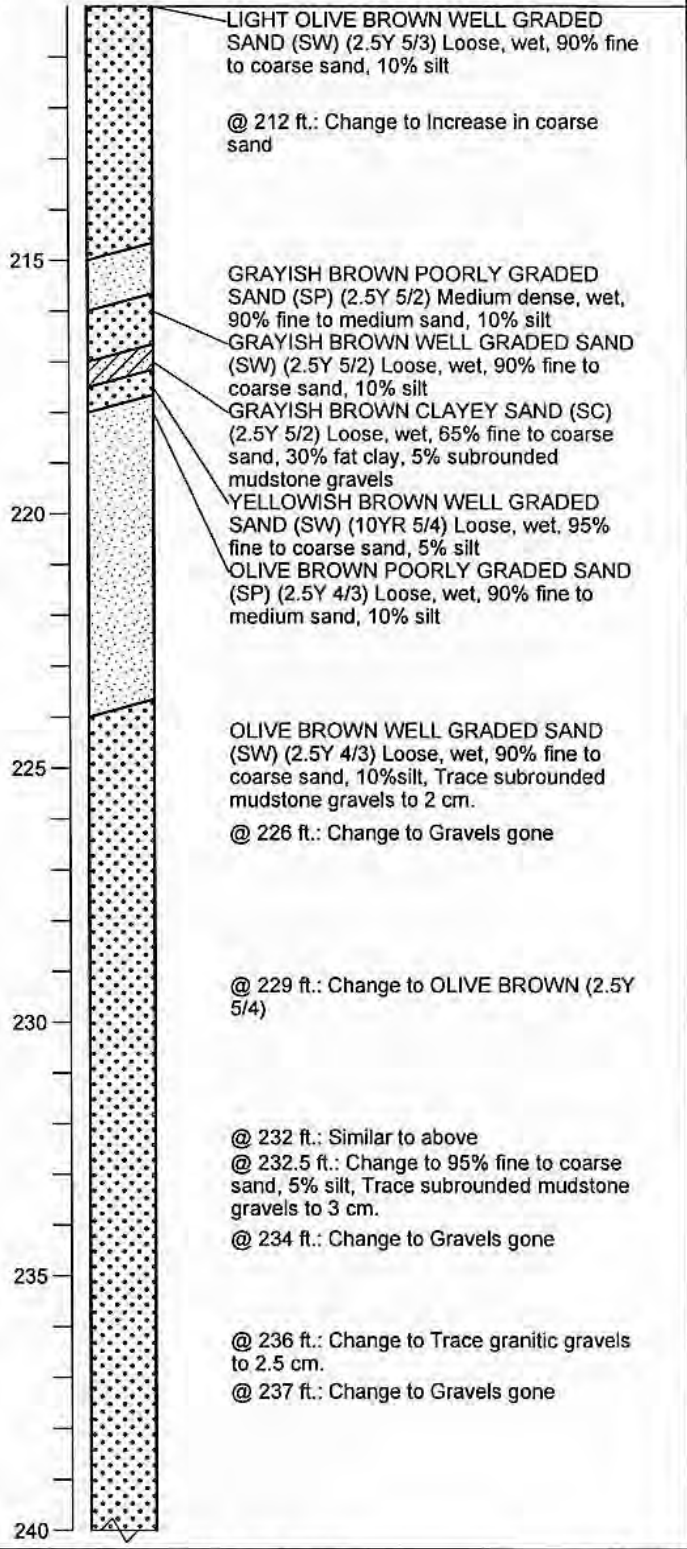
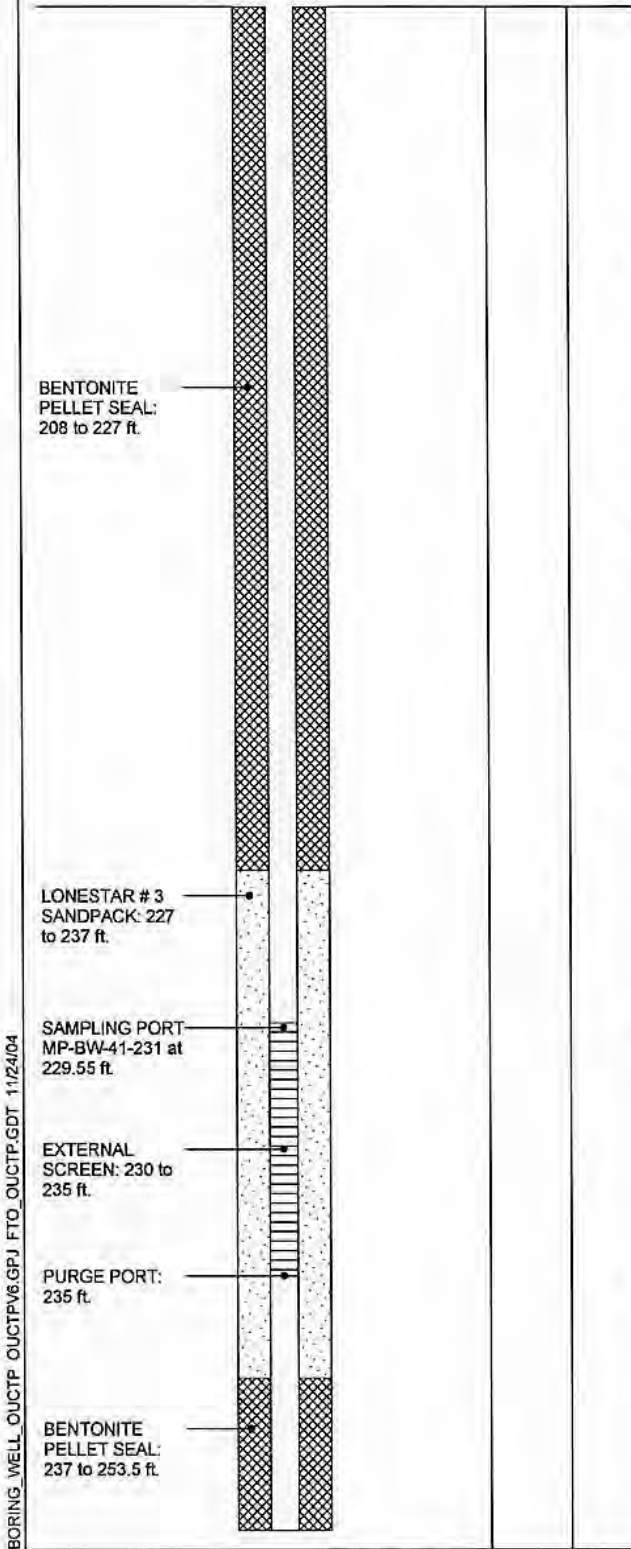
Fort Ord, California

**A9**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 3/11/2003  
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 Northing 2137147.84 Easting 5749841.52

Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41  
 OUCTP

PLATE



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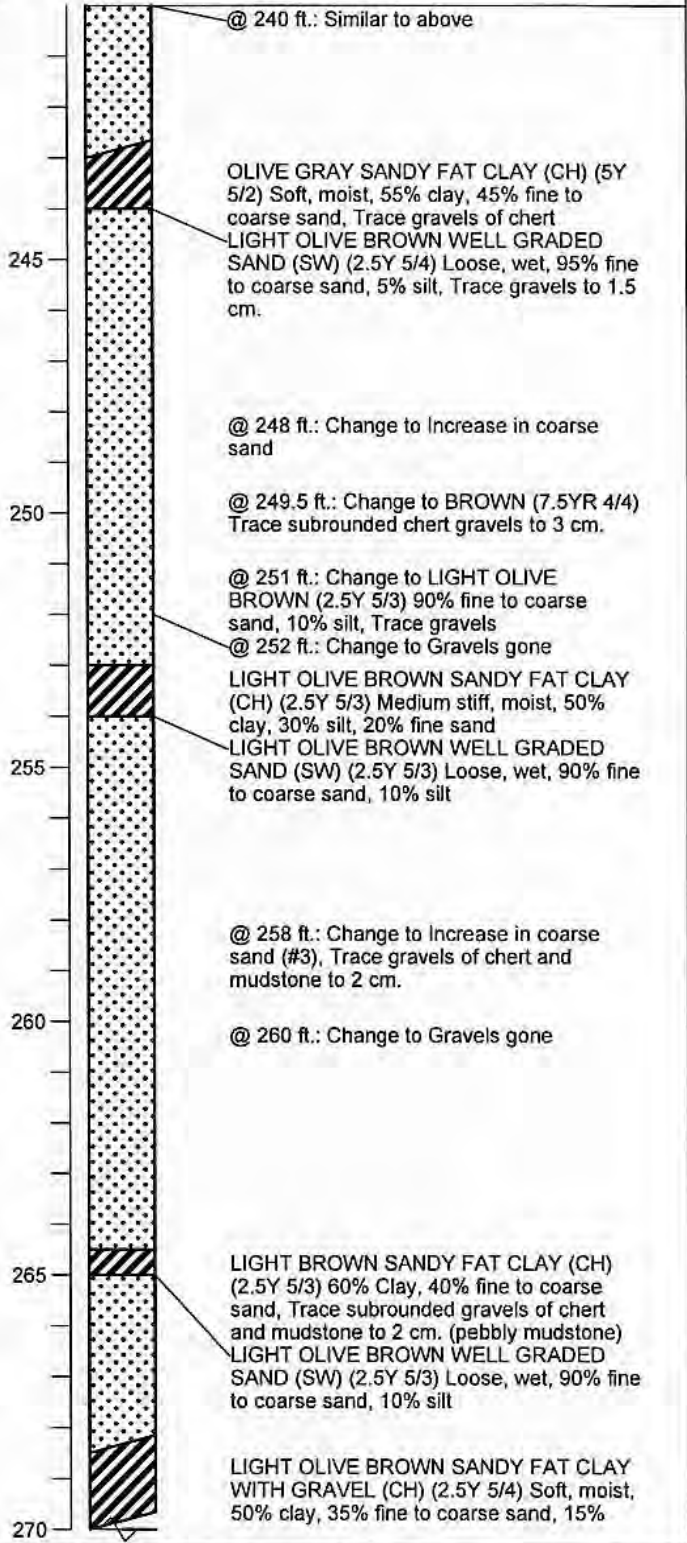
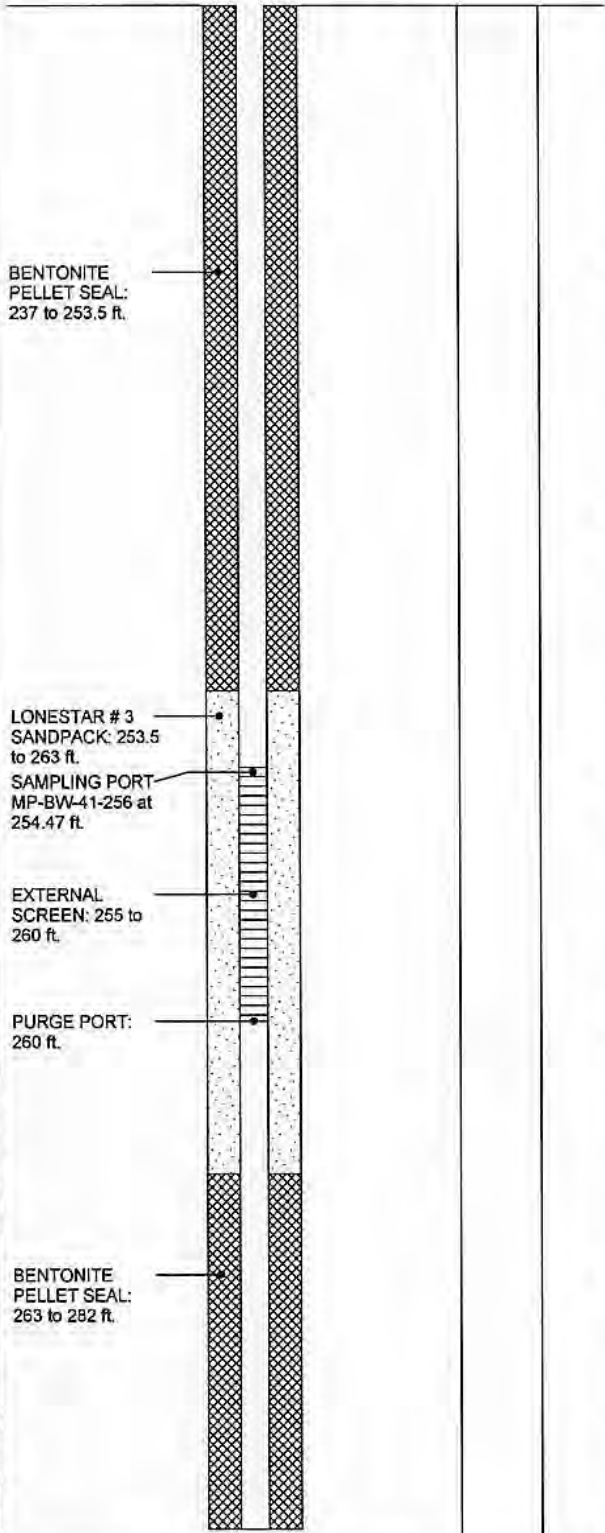
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DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 11/04	REVISED DATE
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Completion Date 3/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 157.66 ft. Hole Dia. 7 in.  
 Northing 2137147.84 Easting 5749841.52

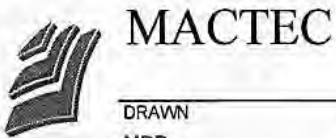
Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41  
 OUCTP

PLATE

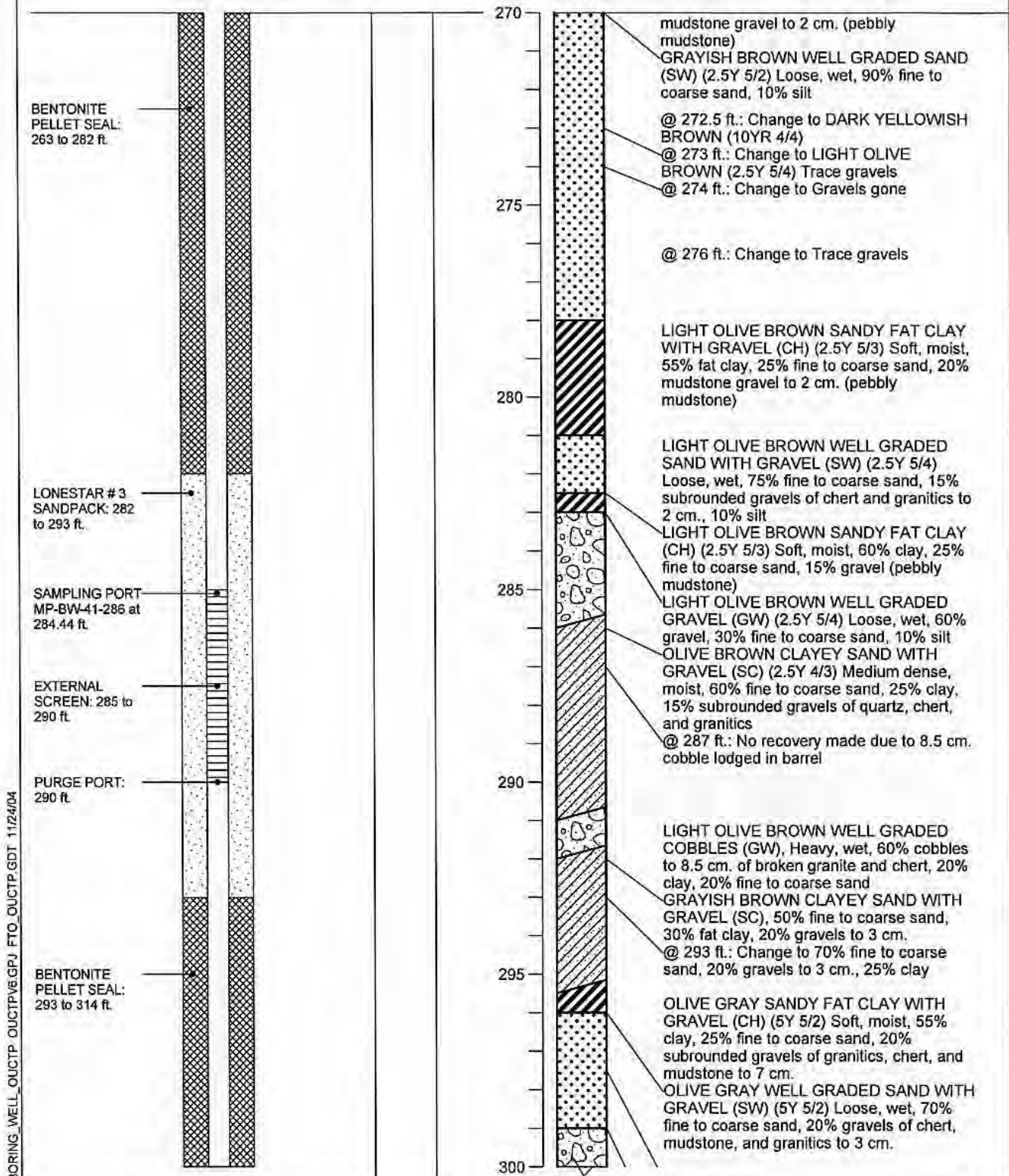


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**A9**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
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BORING\_WELL\_OUCTP\_OUCTPV6GPJ\_FTO\_OUCTP\_GDT\_11/24/04

Well Construction Details and Log of Boring MP-BW-41  
 OUCTP

PLATE



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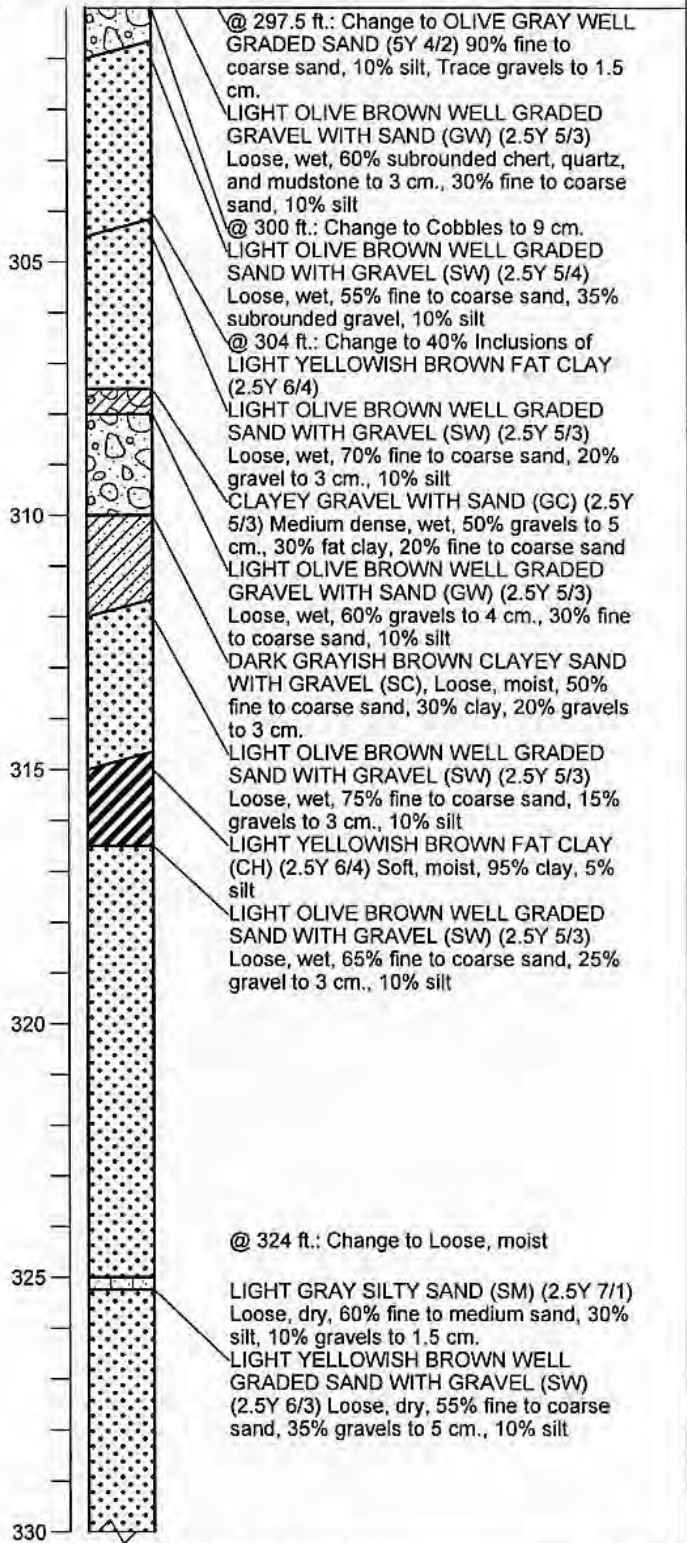
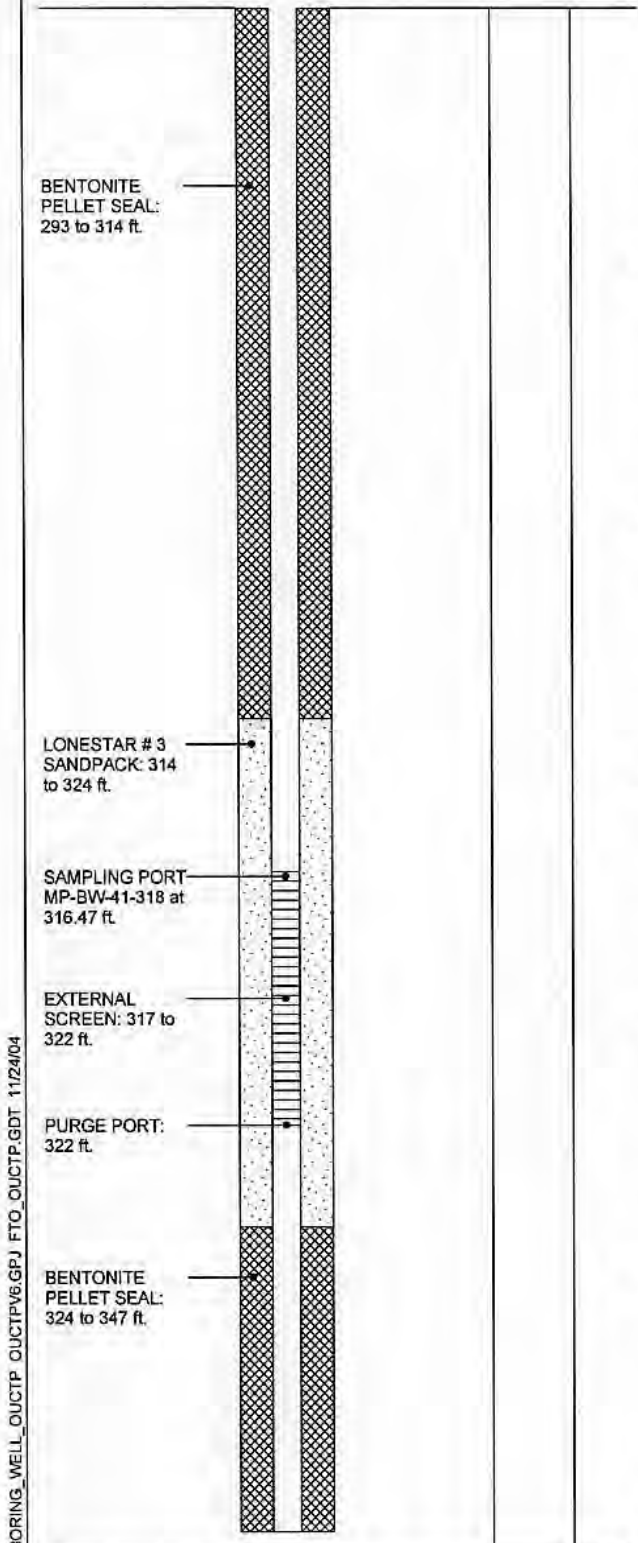
Fort Ord, California

**A9**

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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-41**  
 OUCTP

PLATE

**A9**



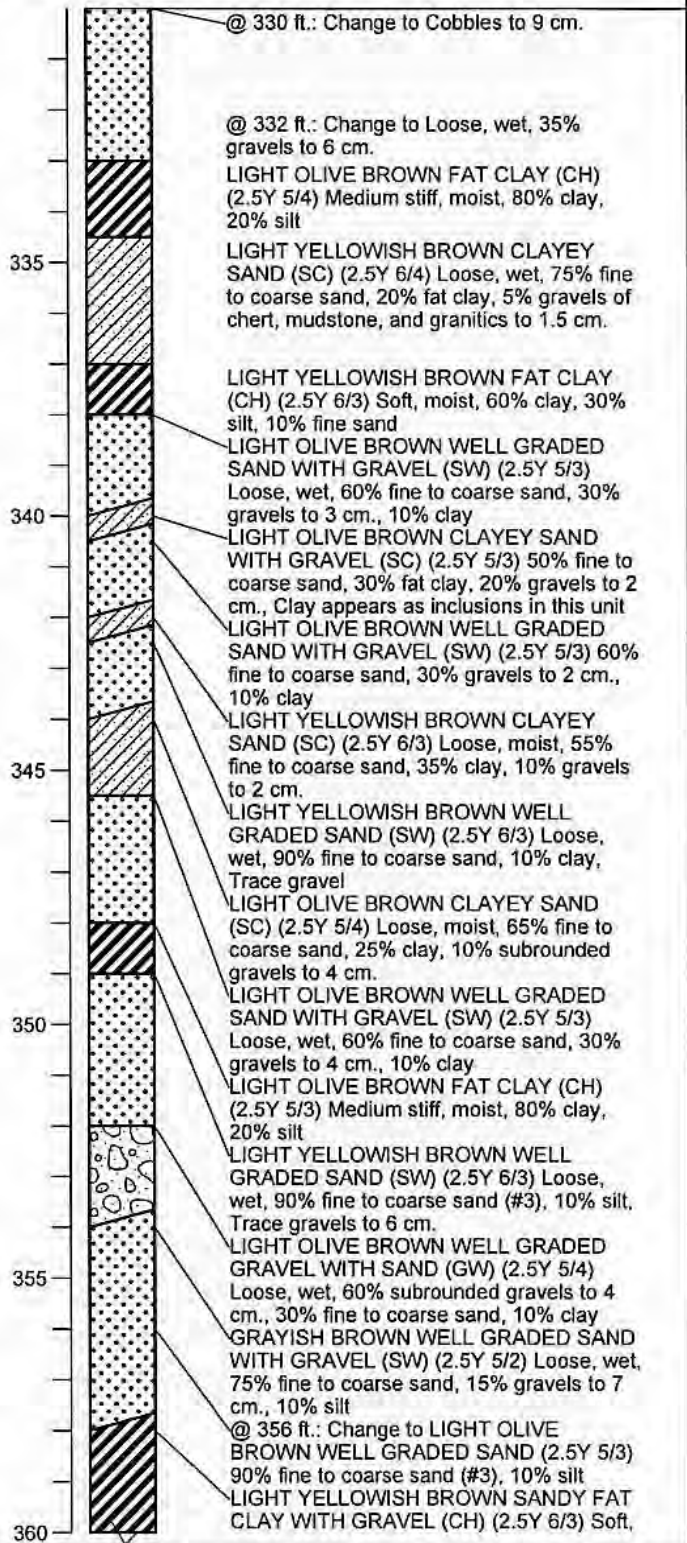
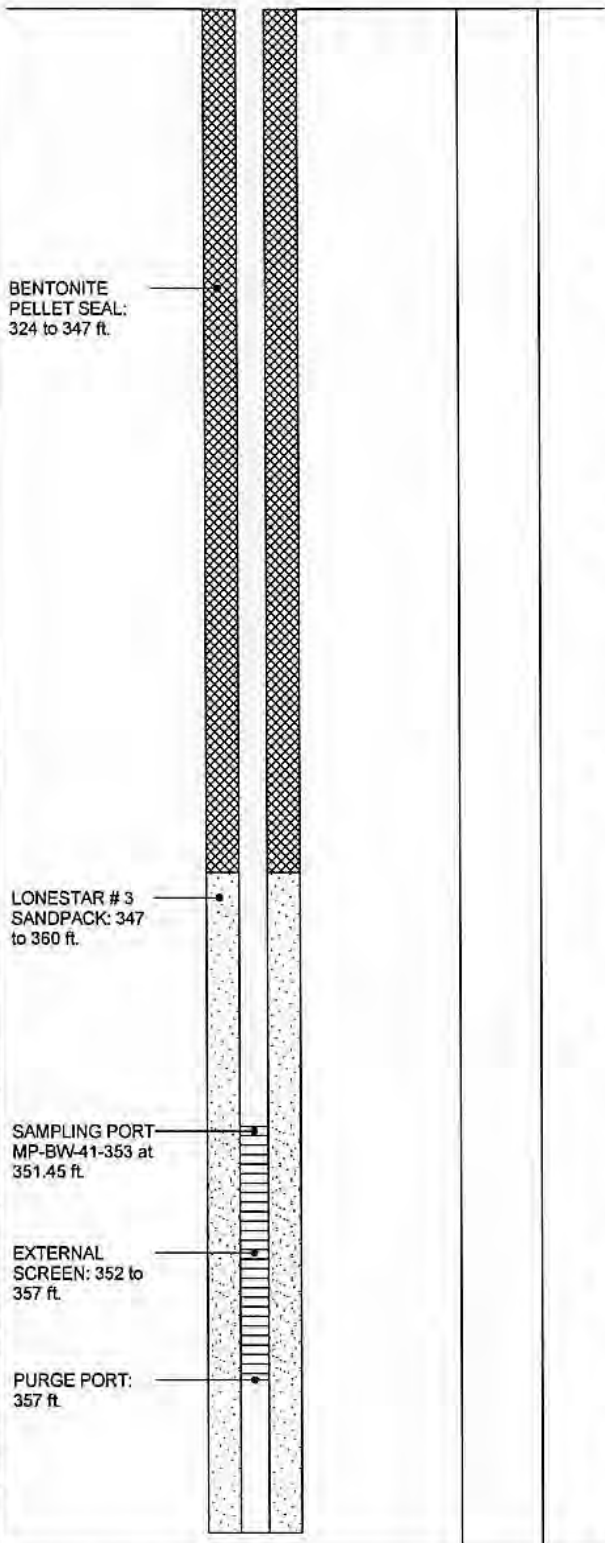
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Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

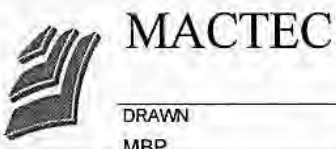
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-41 PLATE  
 OUCTP



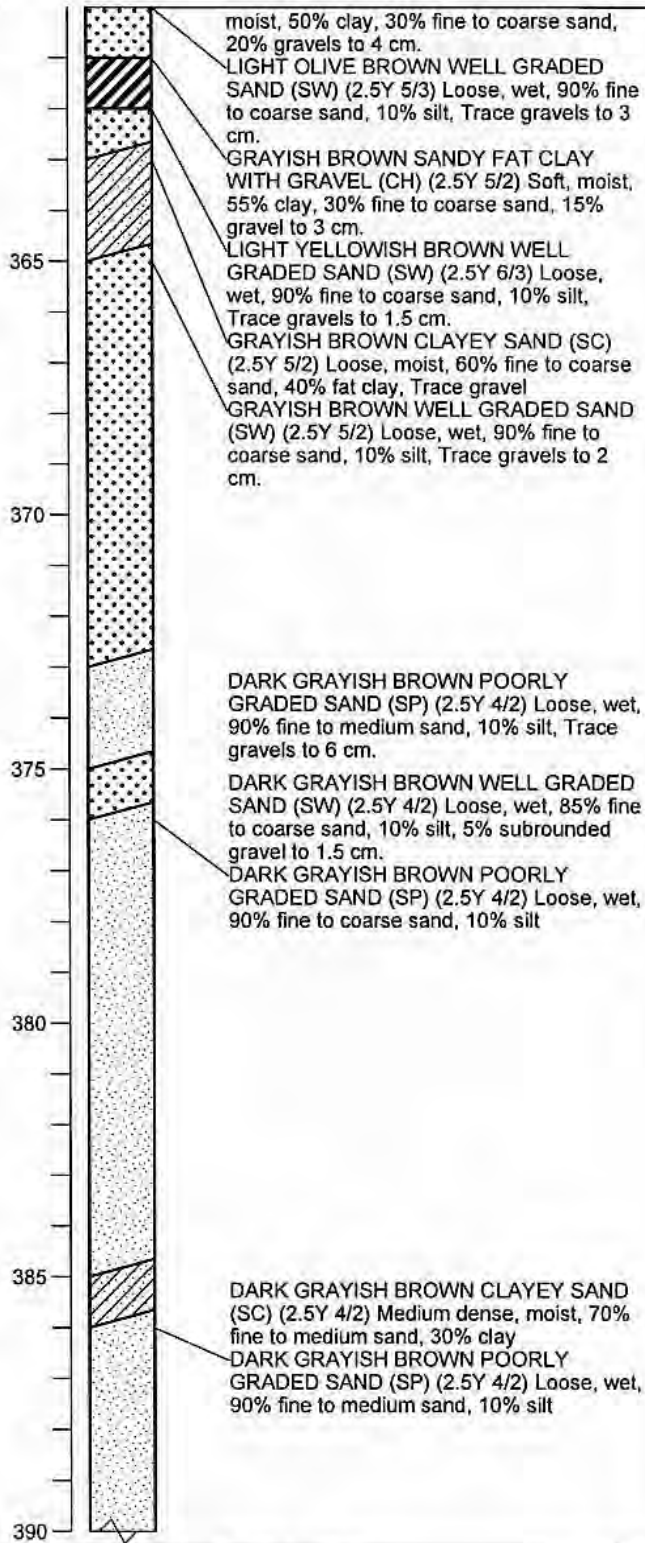
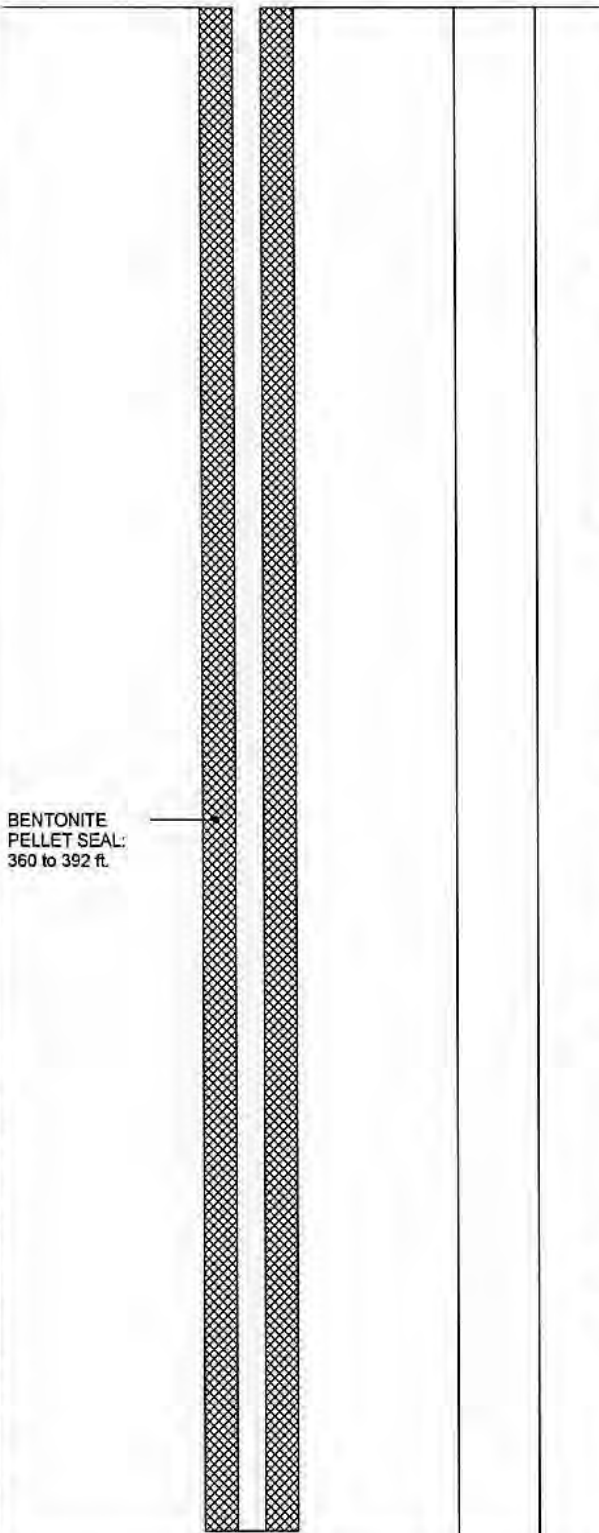
Fort Ord, California  
 APPROVED *MDT / om* DATE 11/04  
 DRAWN MBP JOB NUMBER 55596 001701 REVISED DATE

**A9**



Completion Date 3/11/2003  
 Drilling Method Sonic  
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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE PELLET SEAL:  
 360 to 392 ft.

Well Construction Details and  
 Log of Boring MP-BW-41  
 OUCTP

PLATE



MACTEC

Fort Ord, California

A9

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

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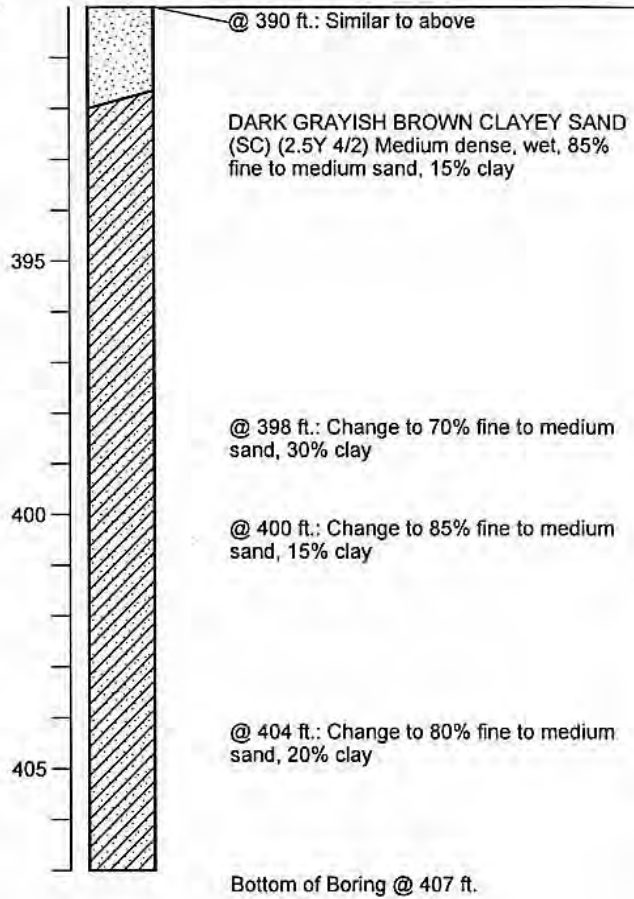
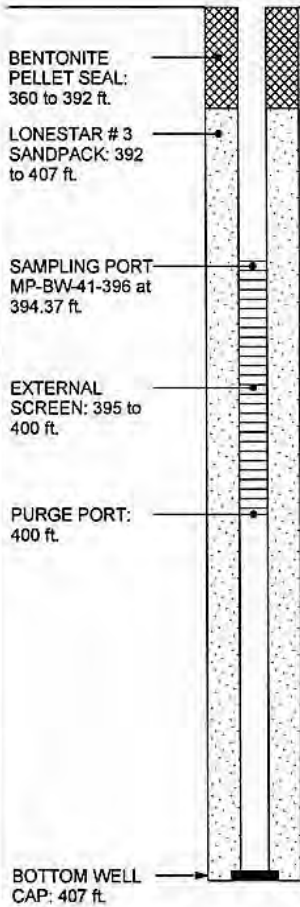
DATE  
 11/04

REVISED DATE



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Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-41  
 OUCTP

PLATE



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Fort Ord, California

**A9**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Top of PVC Casing  
 Elev. 148.69 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

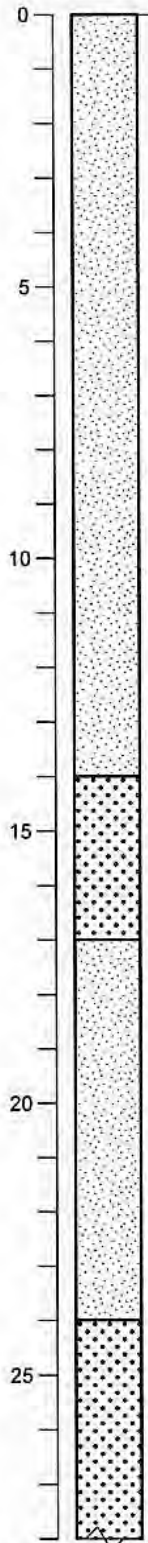
7 in. DIAMETER  
 BOREHOLE: 0 to  
 427 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 415  
 ft.

BENTONITE  
 SLURRY: 25 to  
 186 ft.

Depth (ft.)  
 Sample



DARK YELLOWISH BROWN POORLY  
 GRADED FINE SAND (SP) (10YR 3/4)  
 Loose, moist, 95% fine sand, 5% silt, Slight  
 organic smell

@ 6 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 3/6)

@ 8 ft.: Change to YELLOWISH BROWN  
 POORLY GRADED SAND WITH MINOR  
 CLAY (SP) (10YR 5/4) Loose, Moist, 95%  
 Sand, 5% Clay

@ 10 ft.: Change to YELLOW POORLY  
 GRADED SAND WITH MINOR CLAY (SP)  
 (10YR 7/6) Loose, Moist, 100% fine sand

@ 12 ft.: Similar to above

YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 7/6) Loose, moist, 90%  
 fine to coarse sand, 10% silt

@ 16 ft.: Similar to above

YELLOW POORLY GRADED SAND (SP)  
 (10YR 7/8) Loose, moist, 100% medium  
 sand

@ 18.5 ft.: Change to LIGHT BROWN (2.5Y  
 5/4) Medium dense, moist, 90% fine to  
 medium sand, 10% silt layer 2 in. thick

@ 20 ft.: Change to YELLOW (10YR 5/4)  
 Loose, moist, 100% medium sand

@ 22 ft.: Similar to above

YELLOW WELL GRADED SAND (SW)  
 (10YR 5/4) Loose, moist, 100% fine to  
 medium coarse sand

@ 26 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-42**  
 OUCTP

PLATE

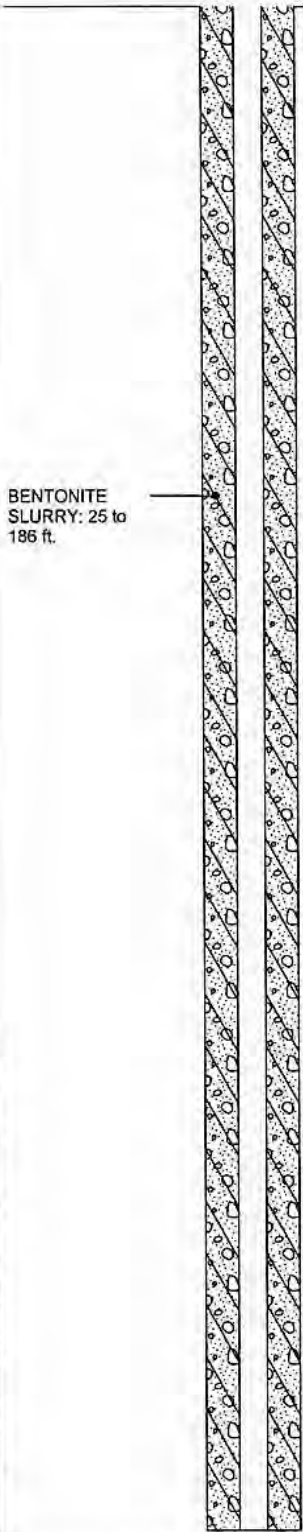
**MACTEC**  
 DRAWN MBP  
 JOB NUMBER 55596 001701

Fort Ord, California  
 APPROVED *MDT / cm*

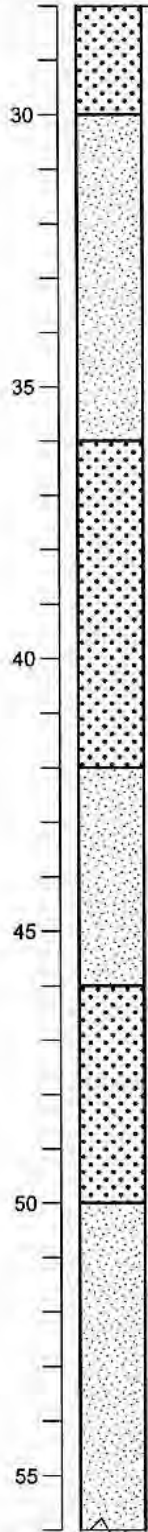
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 DATE 11/04  
 REVISED DATE

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
186 ft.



@ 28 ft.: Similar to above

YELLOW POORLY GRADED SAND (SP)  
(10YR 7/6) Loose, moist, 95% fine sand,  
5% silt

@ 31.5 ft.: Change to VERY PALE BROWN  
(10YR 7/3) Medium dense, barely moist,  
90% fine sand, 10% silt layer 1 in. thick

@ 34 ft.: Change to YELLOW (10YR 7/6)  
Loose, moist, 95% fine sand, 5% silt

YELLOW WELL GRADED SAND (SW)  
(10YR 7/6) Loose, moist, 95% fine to  
medium-coarse sand, 5% silt

@ 39 ft.: Change to YELLOWISH BROWN  
(10YR 6/6) Loose, moist, 95% fine to coarse  
sand, 5% silt

YELLOW POORLY GRADED SAND (SP)  
(10YR 7/6) Loose, moist, 90% fine sand,  
10% silt

@ 44 ft.: Similar to above

YELLOW WELL GRADED SAND (SW)  
(10YR 7/6) Loose, moist, 95% fine to  
medium-coarse sand, 5% silt

VERY PALE BROWN POORLY GRADED  
SAND (SP) (10YR 7/3) Loose, dry, 95% fine  
sand, 5% silt

@ 52 ft.: Change to YELLOW (10YR 7/6)  
Loose, dry

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
Log of Boring MP-BW-42**

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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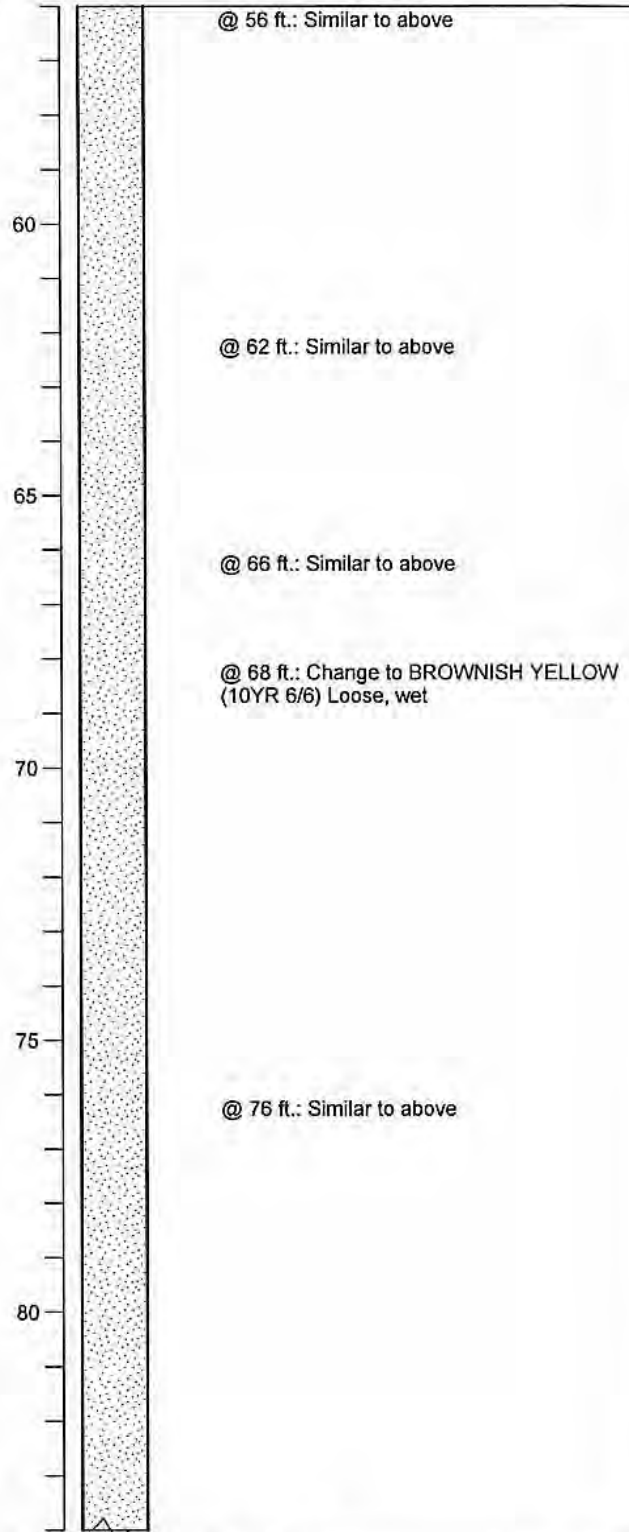
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REVISED DATE

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 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 186 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-42  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

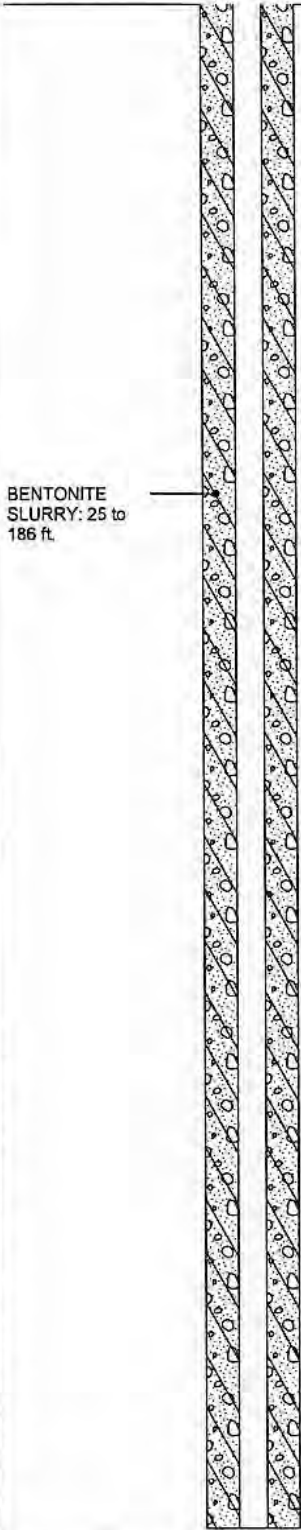
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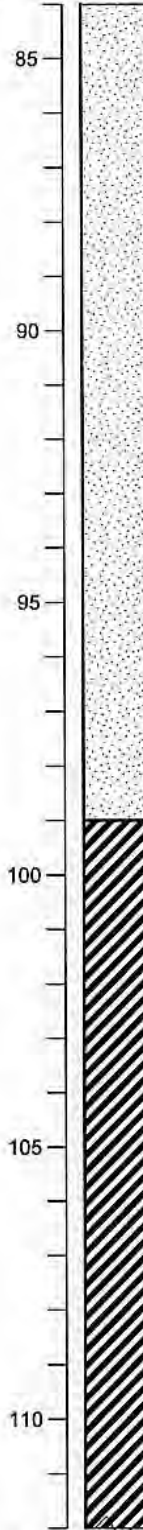
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Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 186 ft.



@ 84 ft.: Change to 95% medium sand, 5% silt

@ 88 ft.: Change to YELLOWISH BROWN (10YR 5/6) Loose, wet, 95% fine sand, 5% silt

@ 90 ft.: Similar to above

@ 98 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 4/4) Firm, dry, 90% clay, 10% silt, Thin layers of iron staining and black specs, possibly carbon

@ 101 ft.: Similar to above, Iron staining and black specs gone

@ 107 ft.: Similar to above

@ 108 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4) Firm, dry, 90% clay, 10% silt

@ 110 ft.: Change to OLIVE (5Y 4/3) Firm, dry, 95% clay, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-42  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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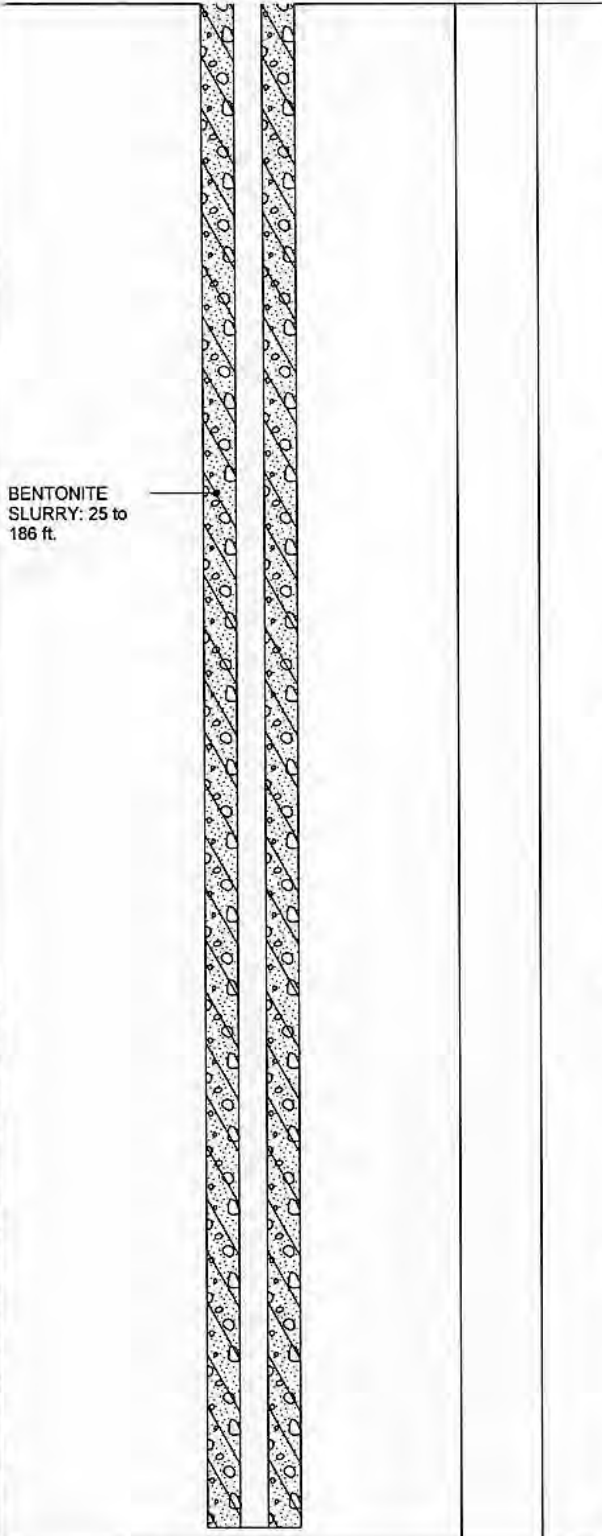
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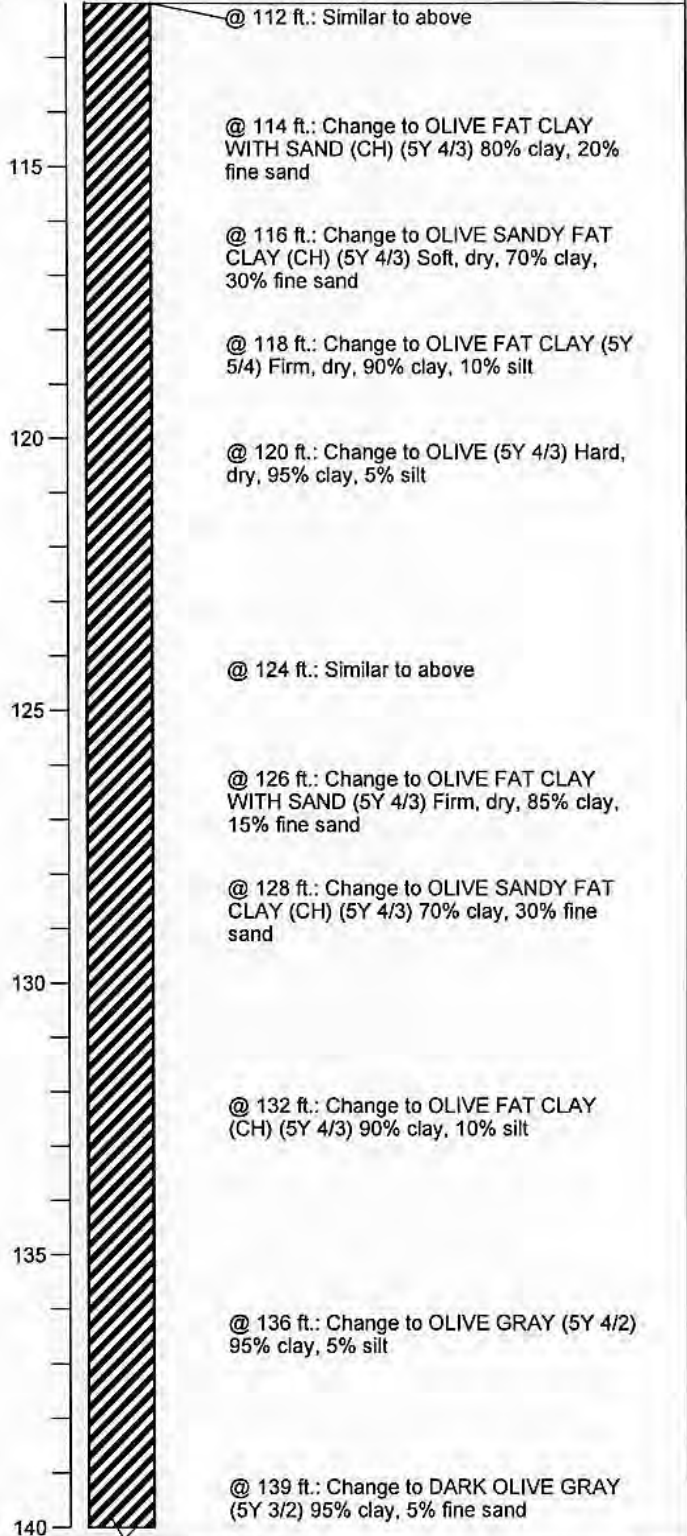


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Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 186 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-42**

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

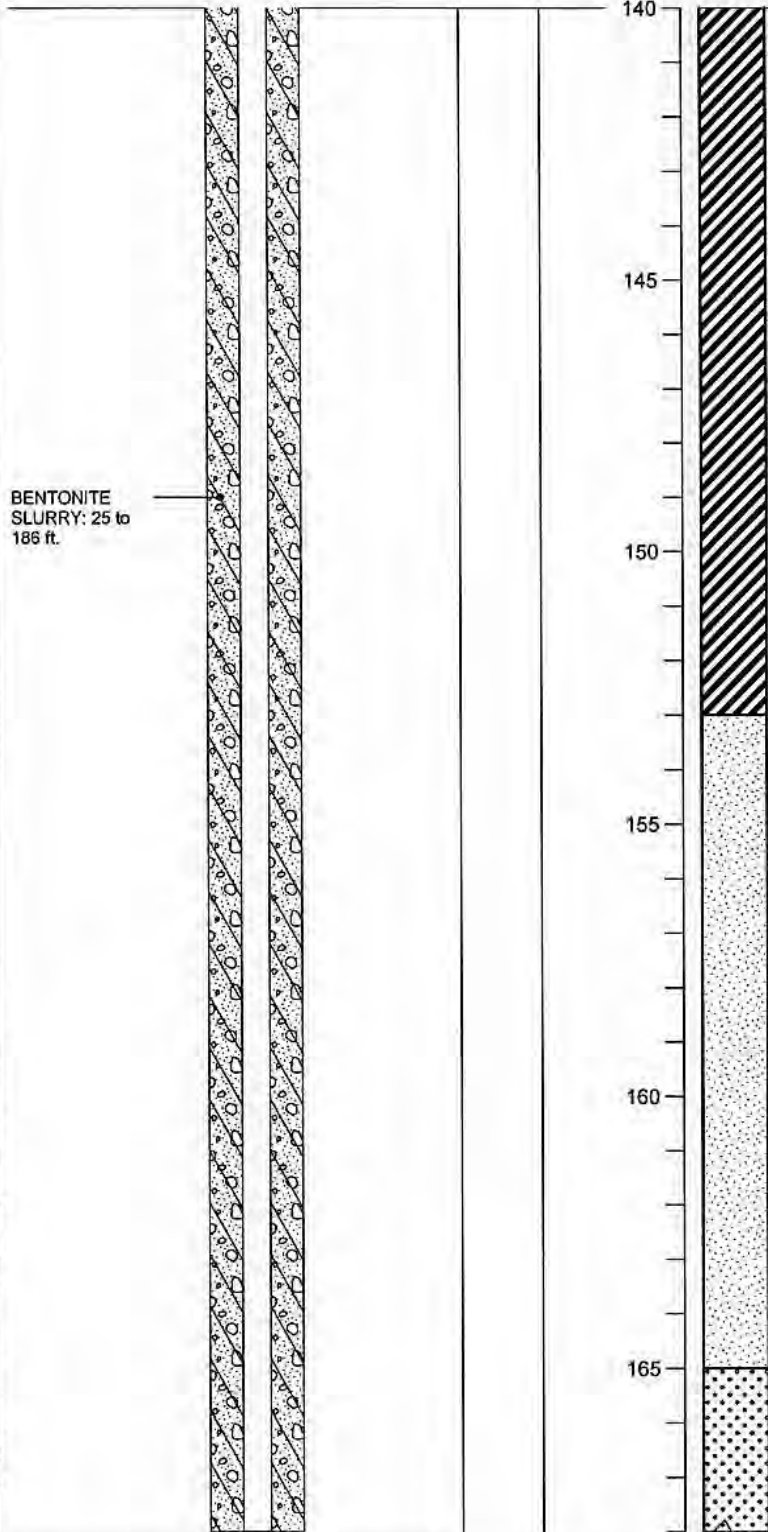
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 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 186 ft.

@ 140 ft.: Change to DARK GREENISH  
 GRAY (5GY 4/1) 95% clay, 5% silt

@ 150 ft.: Similar to above

@ 152 ft.: Change to OLIVE (5Y 4/3) Iron  
 oxide and carbon appear to be present  
 PALE OLIVE POORLY GRADED SAND  
 (SP) (5Y 6/3) Loose, moist, 90% medium  
 sand, 10% fines

@ 154.5 ft.: Change to WHITE (5Y 8/1)  
 Loose, dry, 60% fine sand, 40% fines

@ 156 ft.: Change to LIGHT GRAY (5Y 7/2)  
 Loose, dry, 90% fine sand, 10% silt

@ 161 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6) Loose, wet, 90% fine to medium  
 sand, 10% silt

PALE YELLOW WELL GRADED SAND  
 (SW) (2.5Y 7/4) 95% coarse to fine sand,  
 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-42**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

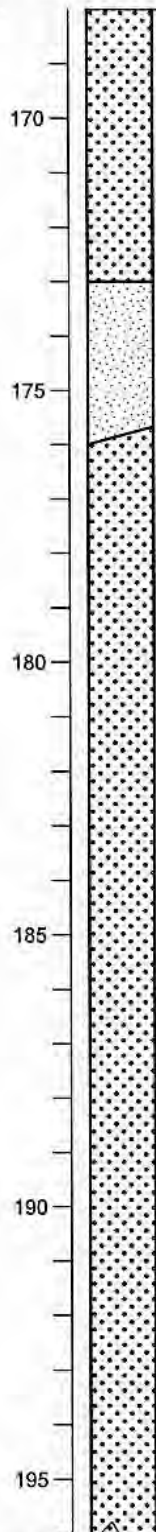
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Depth (ft.)  
 Sample



@ 169 ft.: Change to PALE OLIVE (5Y 6/4) Loose, wet, 90% medium-fine sand, 10% fines

@ 171 ft.: Change to YELLOWISH BROWN (10YR 5/6) Loose, wet, 95% coarse to fine sand, 5% fines

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, wet, 95% medium-fine sand, 5% fines

BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/6) Loose, wet, 95% medium-coarse to fine sand, 5% silt

@ 181 ft.: Change to BROWNISH YELLOW (10YR 6/6) 95% coarse to fine sand, 5% fines

@ 185 ft.: Change to PALE YELLOW (2.5Y 7/4)

@ 191 ft.: Similar to above, Trace gravels

@ 192 ft.: Similar to above

BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-42

PLATE



MACTEC

Fort Ord, California

**A10**

DRAWN  
MBP

JOB NUMBER  
55596 001701

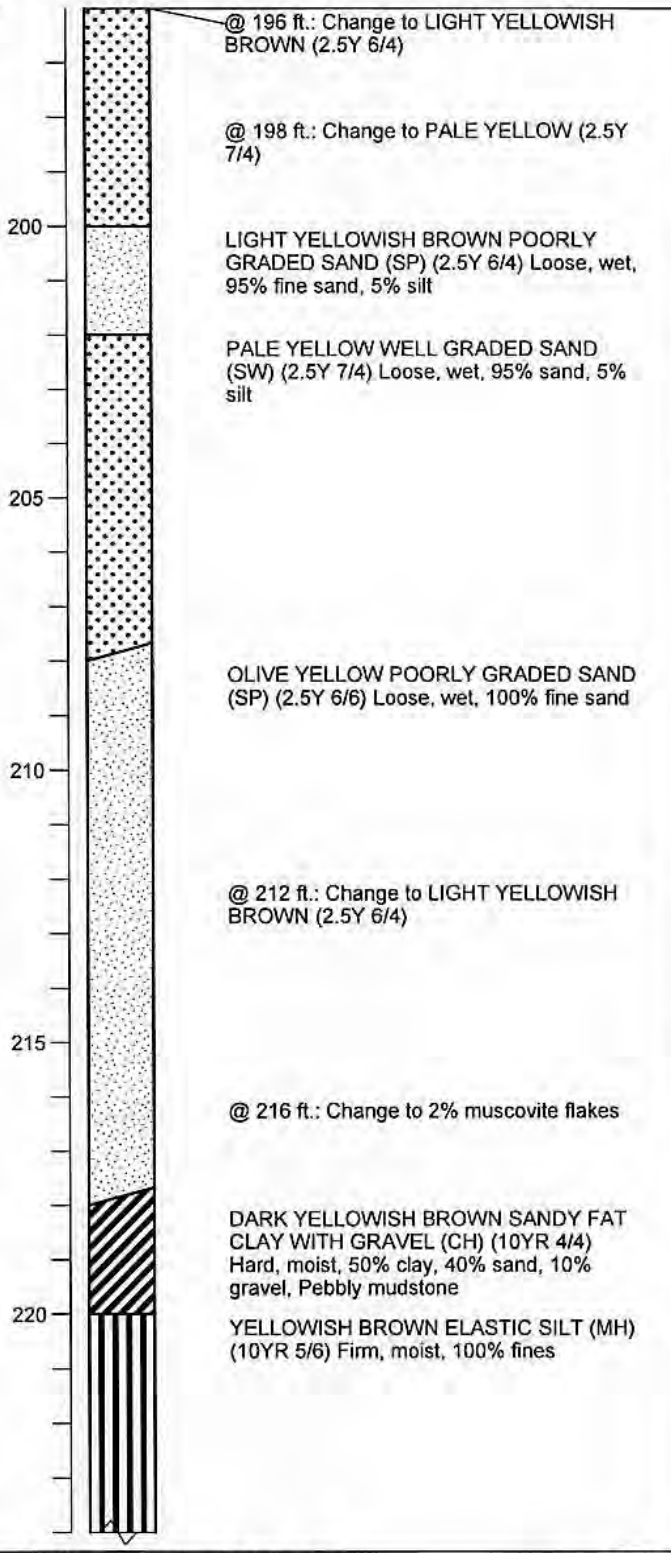
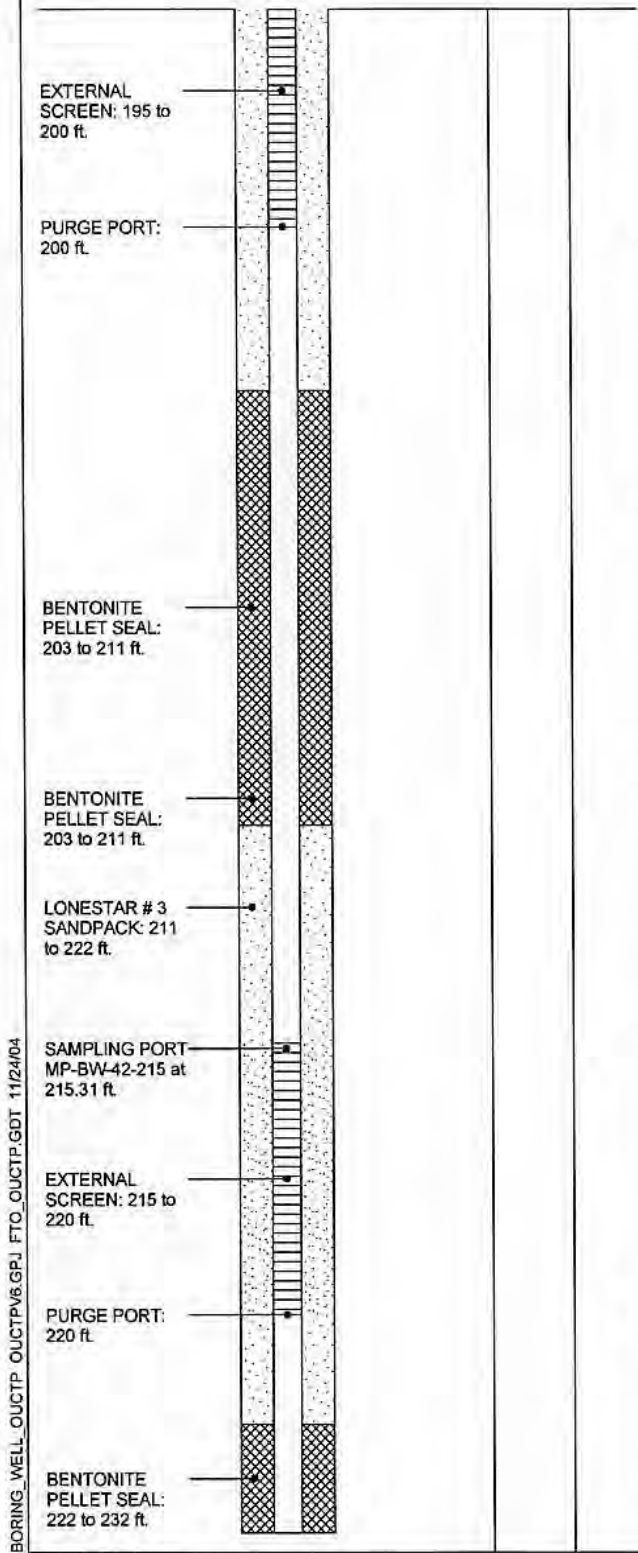
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*MDT / MBP*

DATE  
11/04

REVISED DATE

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-42**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
MBP

JOB NUMBER  
55596 001701

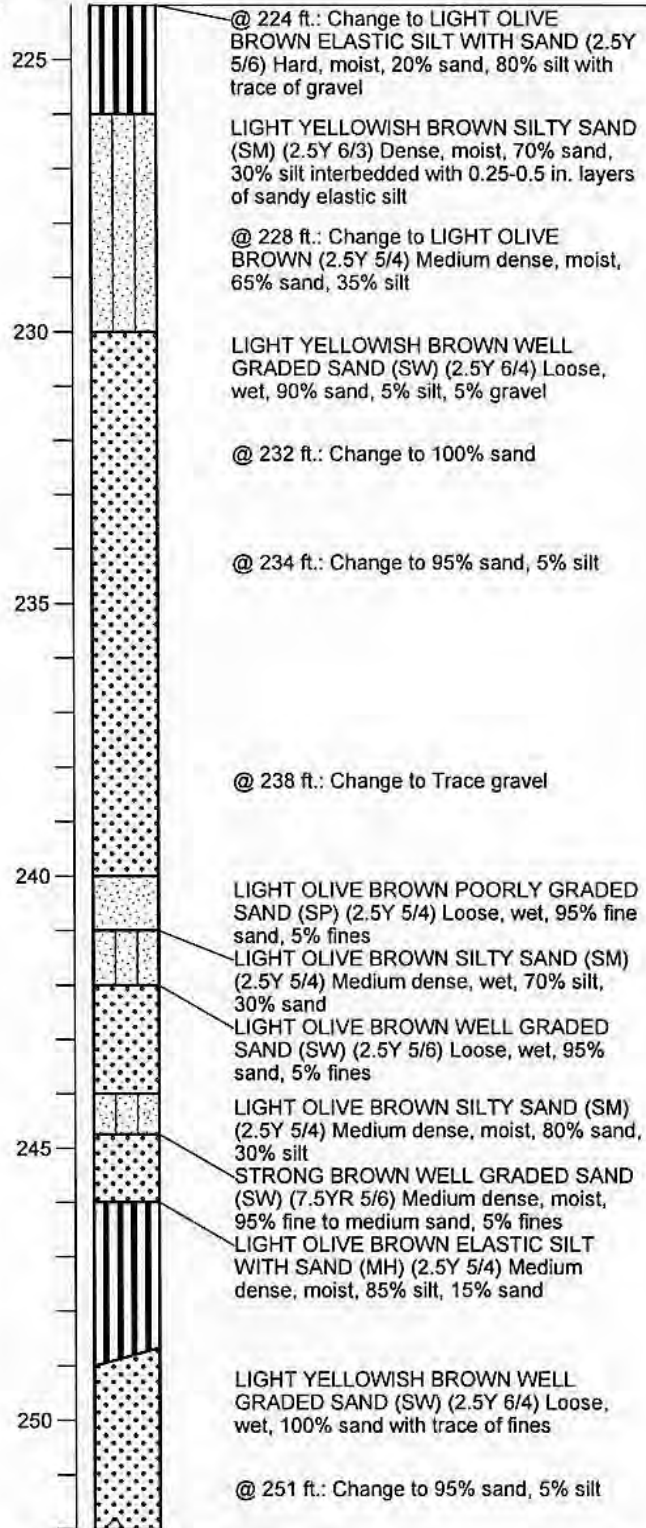
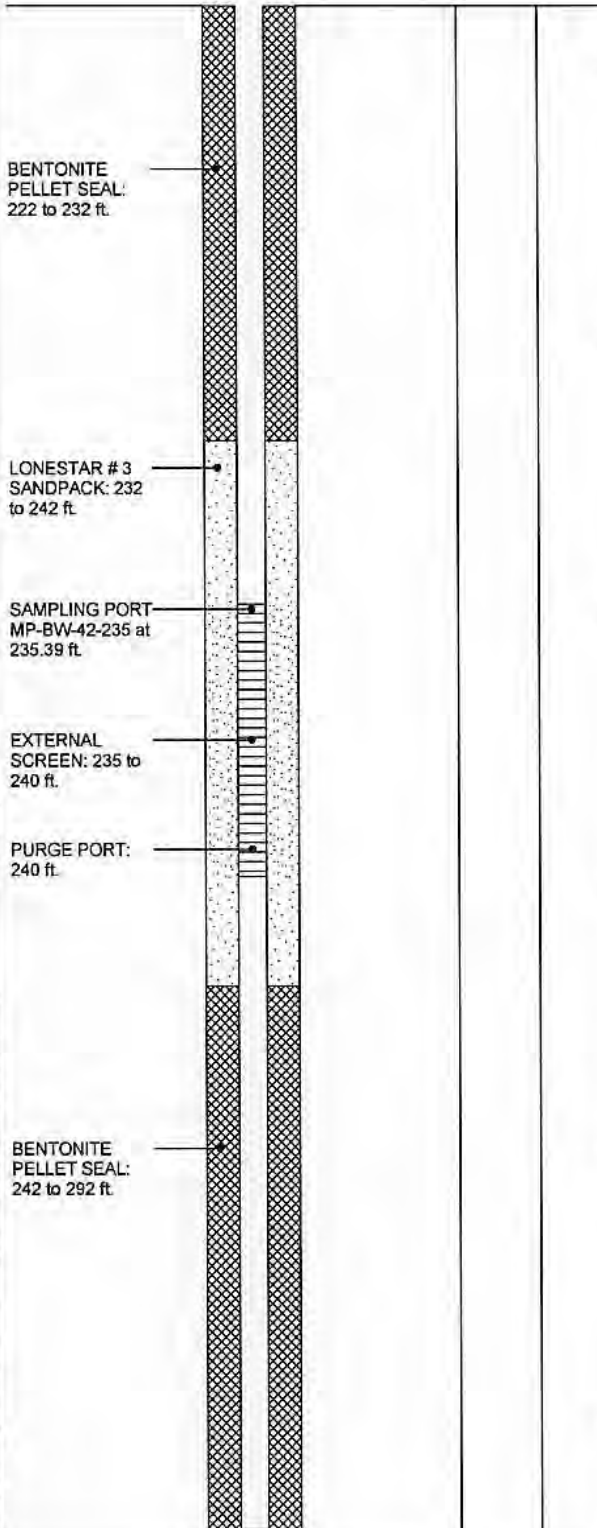
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*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-42**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

*MBP / cm*

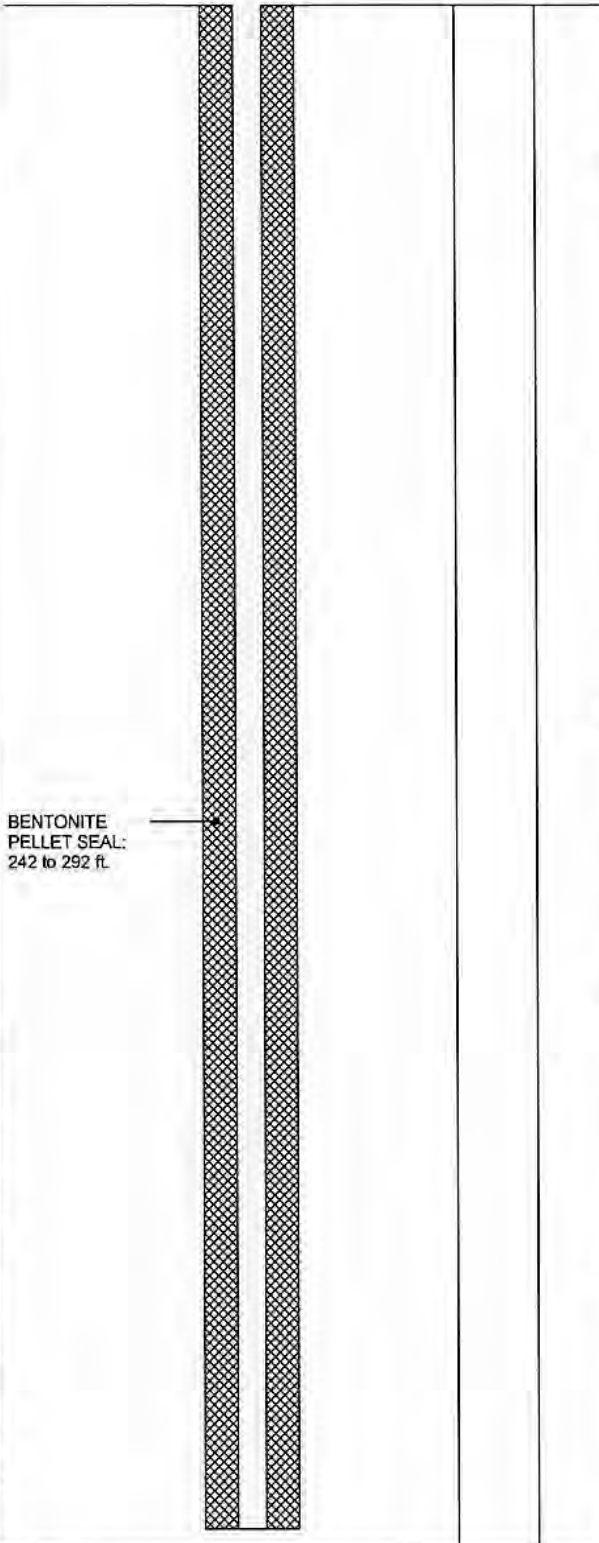
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11/04

REVISED DATE



Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BENTONITE  
 PELLET SEAL:  
 242 to 292 ft.



@ 254 ft.: Change to 90% sand, 10% silt

@ 255 ft.: Change to 85% sand, 10% silt,  
 5% gravel

LIGHT YELLOWISH BROWN SILTY SAND  
 (SM) (2.5Y 6/4) Medium dense, moist, 70%  
 sand, 25% silt, 5% gravel

LIGHT OLIVE BROWN WELL GRADED  
 SAND (SW) (2.5Y 5/4) Loose, wet, 93%  
 sand 5% silt, 2% gravel

OLIVE YELLOW FAT GRAVELLY CLAY  
 WITH SAND (CH) (2.5Y 6/6) Hard, moist,  
 70% clay, 20% gravel, 10% sand, Pebbly  
 Mudstone

@ 267 ft.: Change to OLIVE FAT CLAY (5Y  
 5/3) Hard, dry, 100% clay, Mudstone

@ 270 ft.: Change to LIGHT OLIVE  
 BROWN FAT CLAY (CH) (2.5Y 5/6) Hard,  
 dry, 100% clay with dark inclusions,  
 Mudstone

LIGHT OLIVE BROWN WELL GRADED  
 SAND (SW) (2.5Y 5/3) Loose, wet, 90%  
 medium to fine sand, 5% gravel, 5% fines

@ 276 ft.: Change to 85% sand, 10%  
 gravel, 5% fines

BORING\_WELL\_OUCTP OUCTPV8.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-42  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

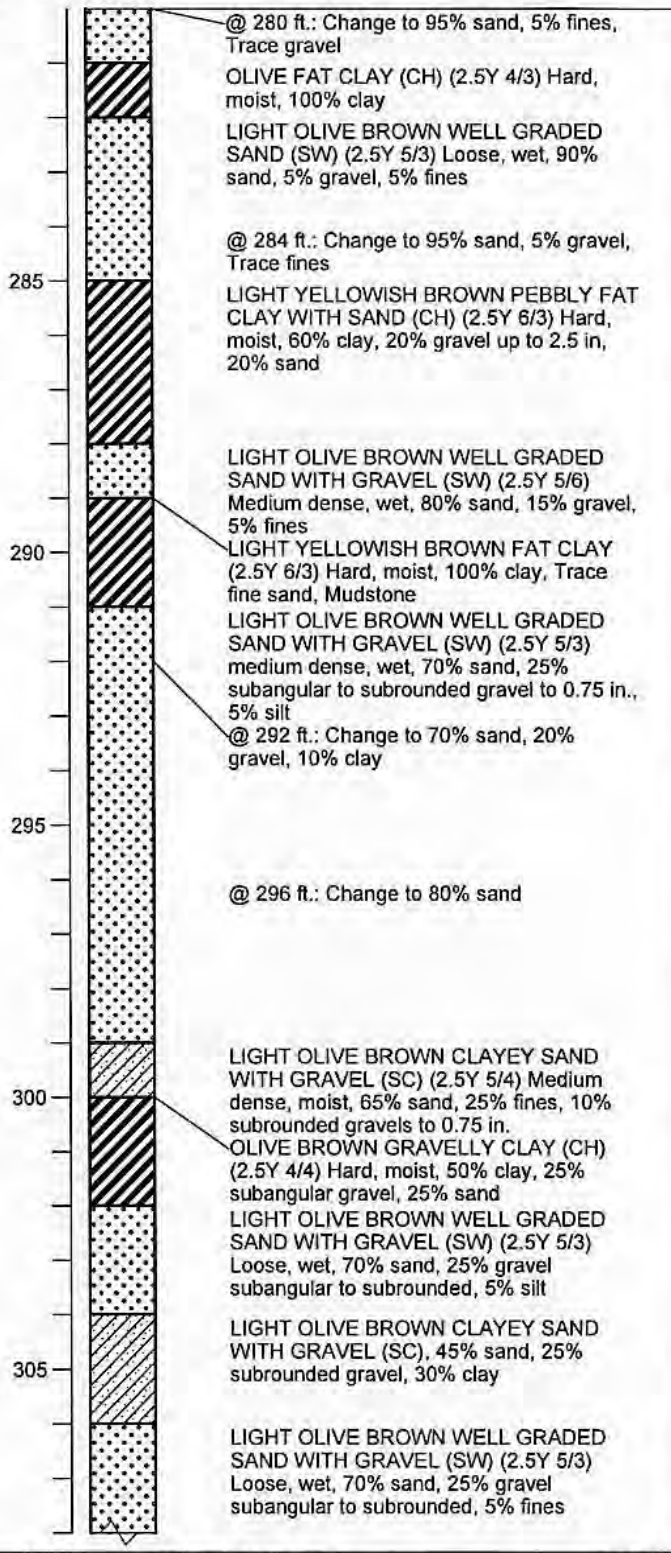
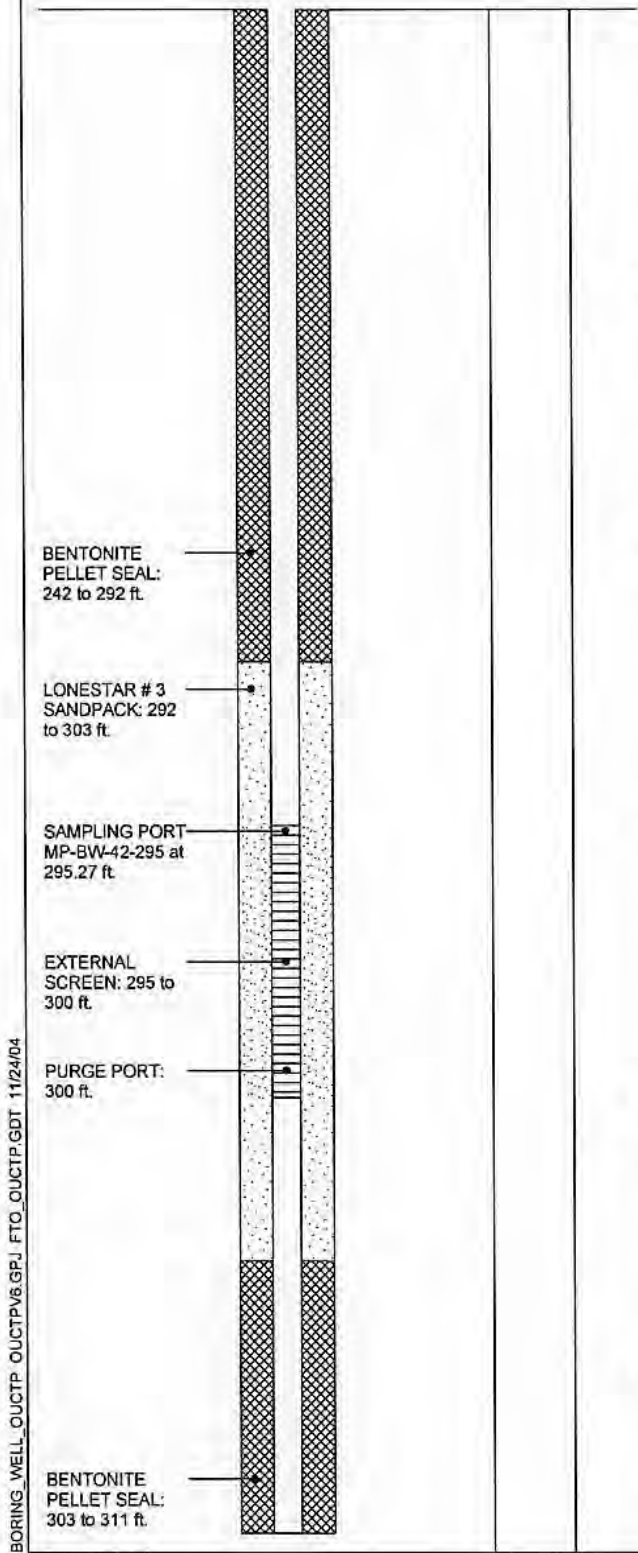
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DATE  
 11/04

REVISED DATE

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-42** PLATE  
 OUCTP



**MACTEC**

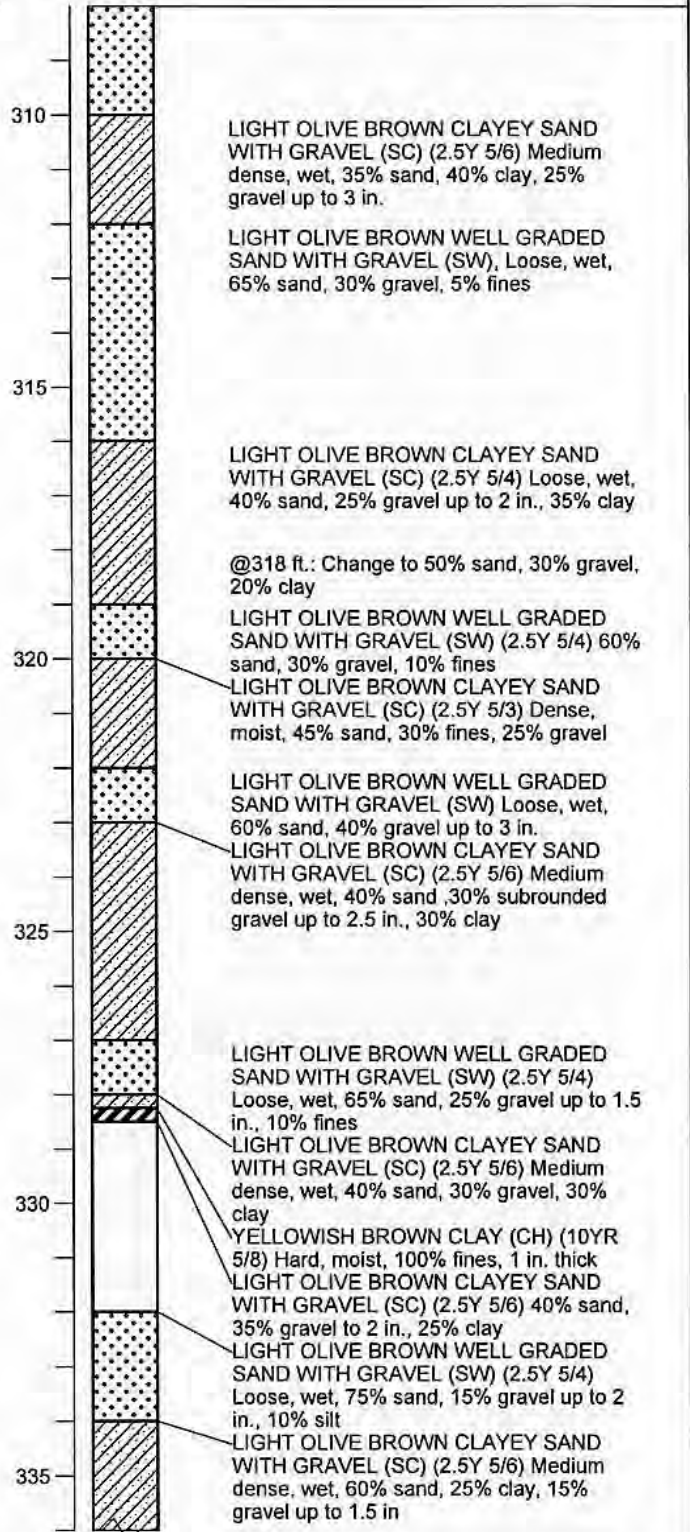
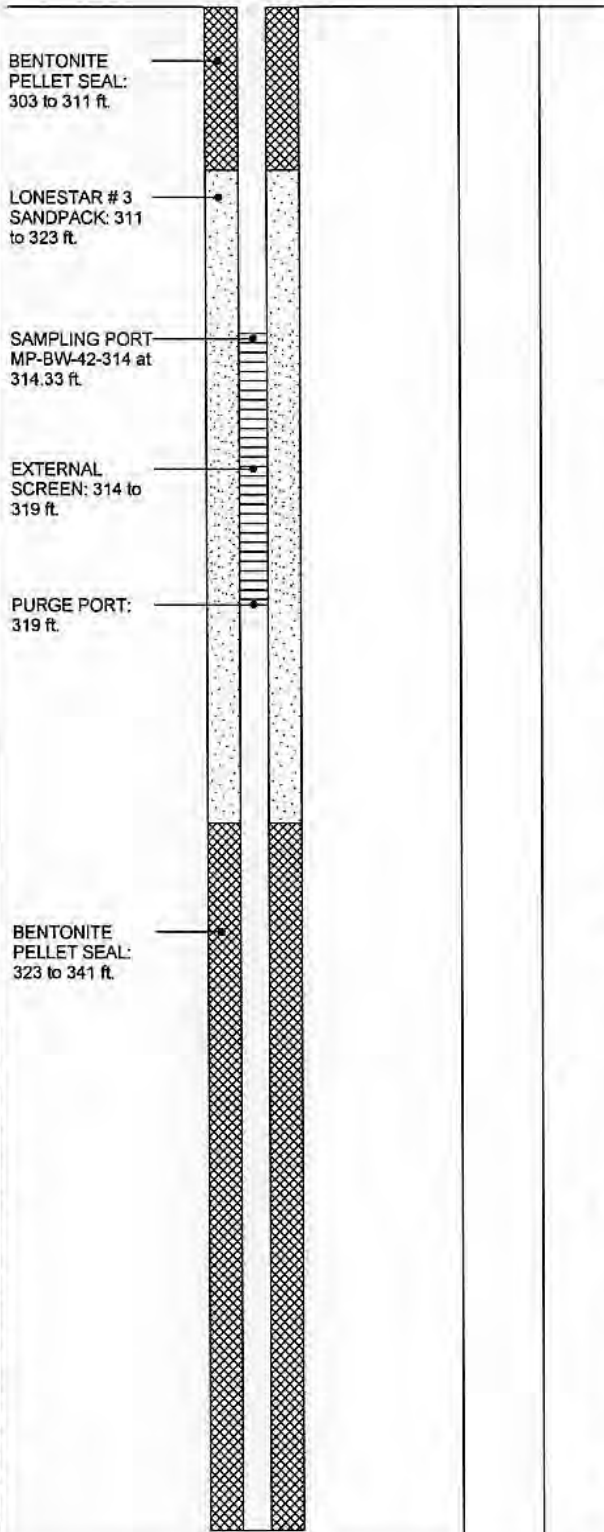
Fort Ord, California

**A10**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / CM</i>	DATE 11/04	REVISED DATE
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Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-42**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

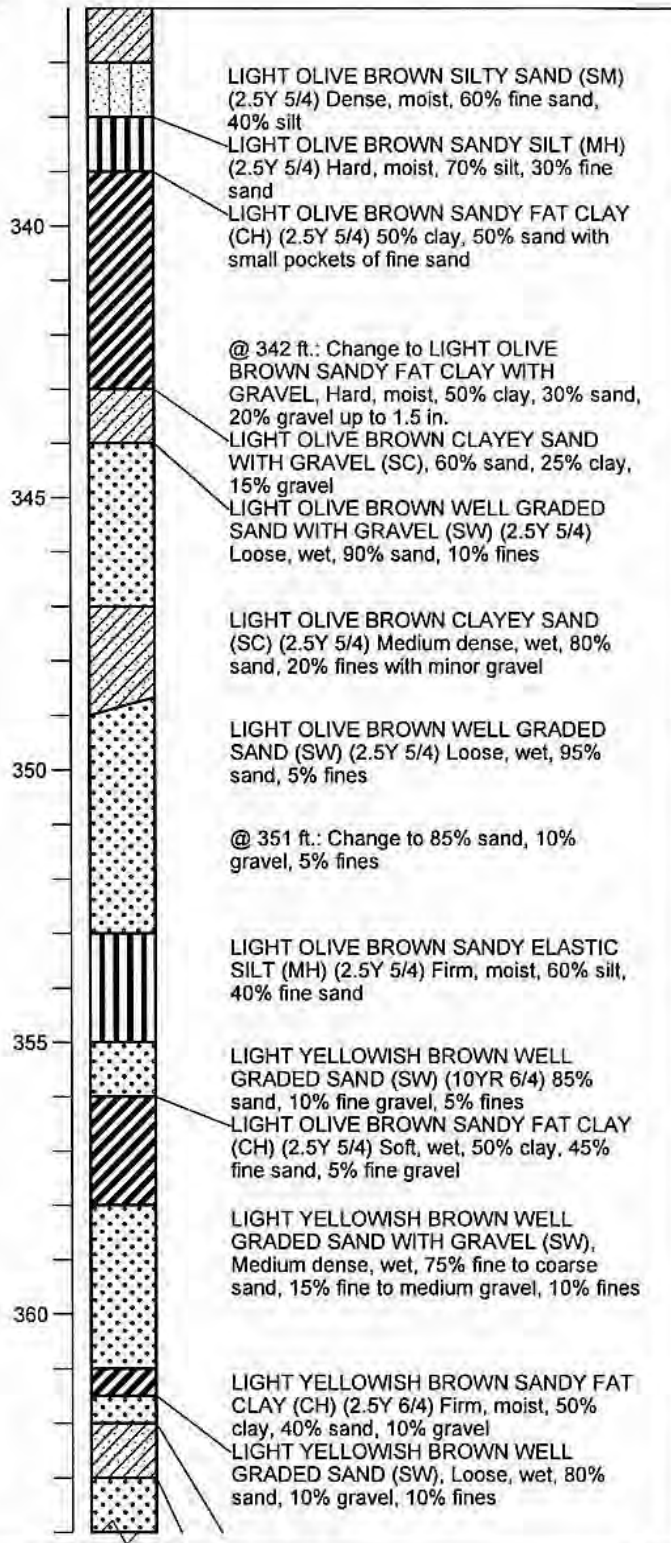
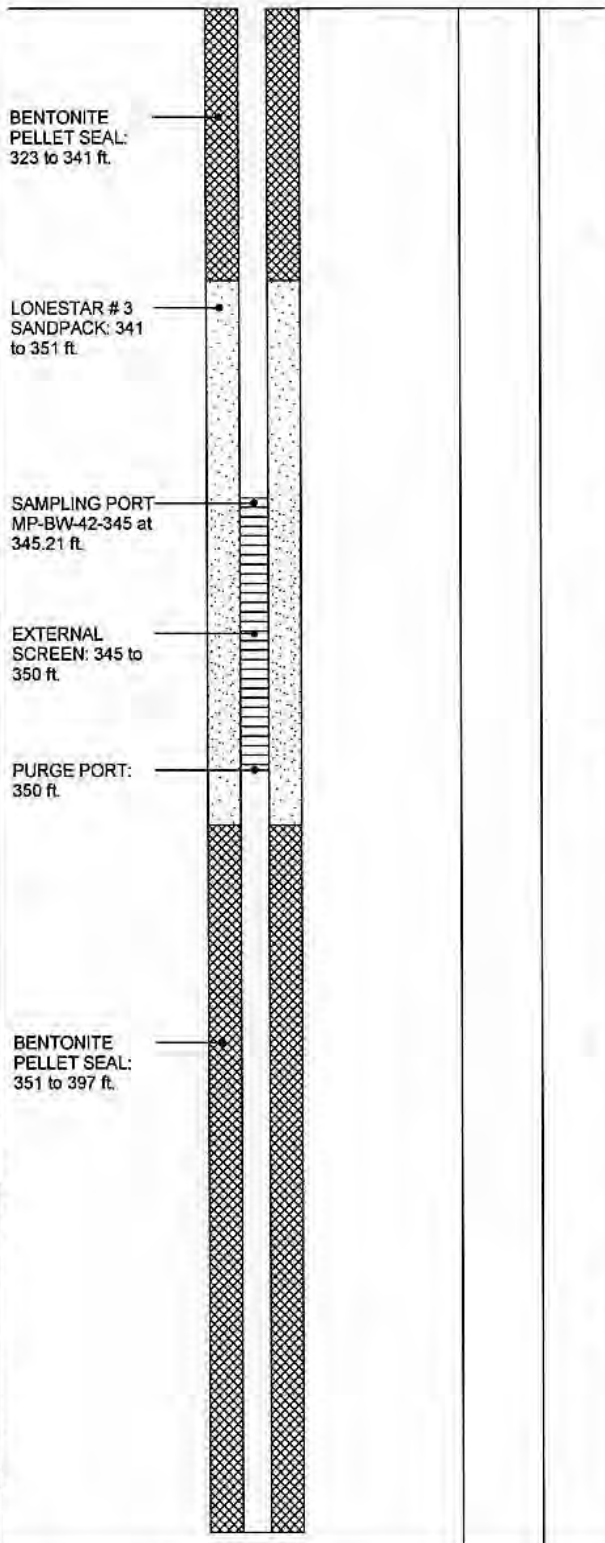
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DATE  
 11/04

REVISED DATE

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-42 PLATE  
 OUCTP



MACTEC

Fort Ord, California

**A10**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
MDT / cm

DATE  
11/04

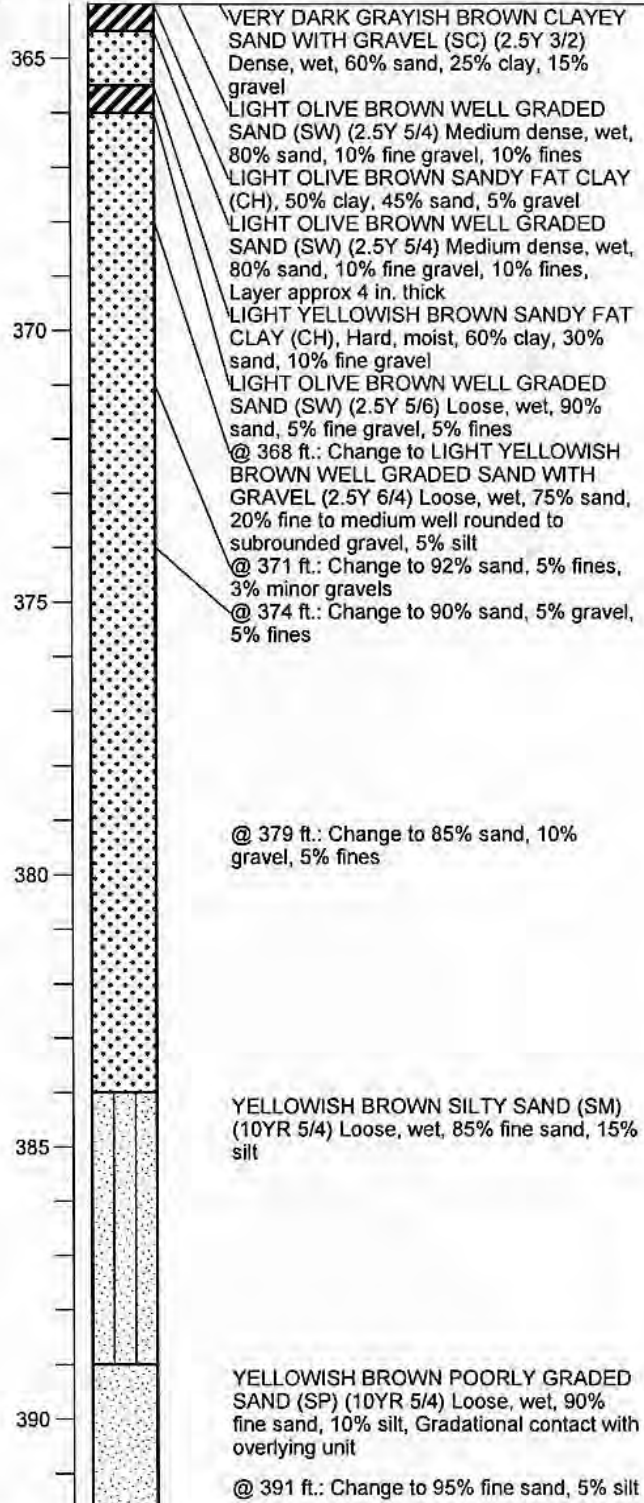
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Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample

BENTONITE  
 PELLET SEAL:  
 351 to 397 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MP-BW-42**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / lmr*

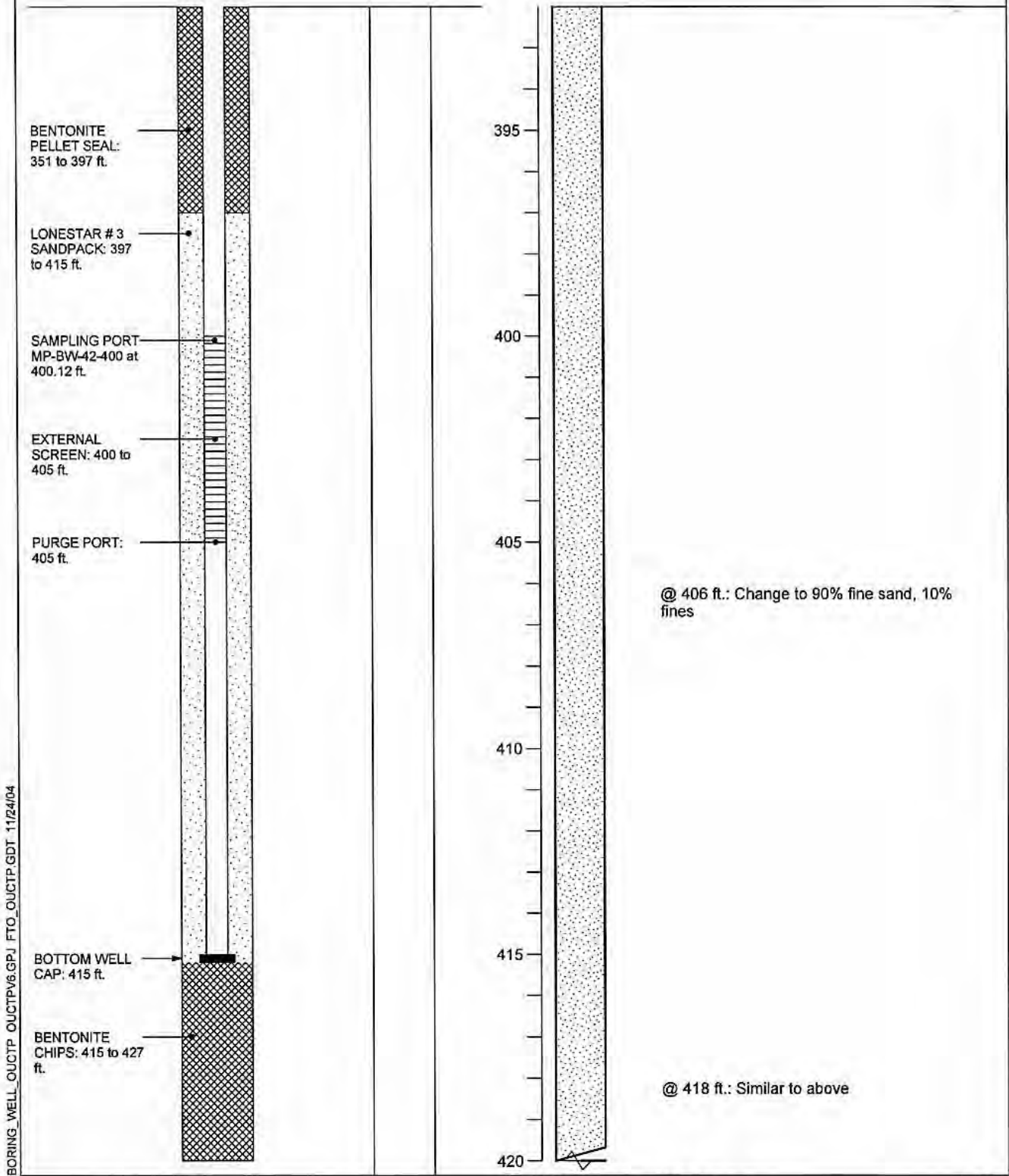
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REVISED DATE



Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-42** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

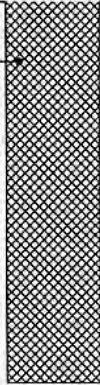
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MBP	55596 001701	<i>ADT / cm</i>	11/04	

**A10**

Completion Date 1/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.59 ft. Hole Dia. 7 in.  
 Northing 2138063.99 Easting 5749532.73

Depth (ft.)  
 Sample

BENTONITE  
 CHIPS: 415 to 427  
 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MP-BW-42  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A10**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

DATE  
 11/04

REVISED DATE

Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Top of PVC Casing  
 Elev. 151.83 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

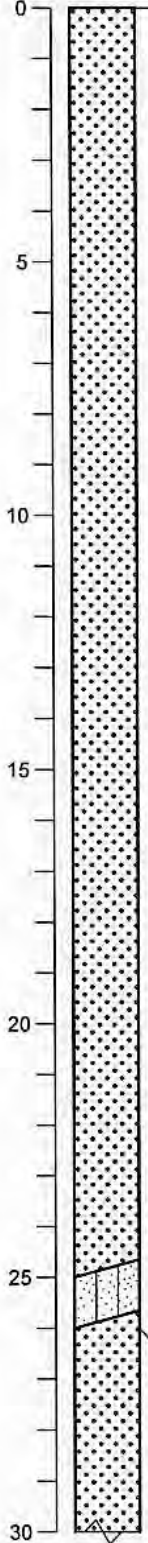
7 in. DIAMETER  
 BOREHOLE: 0 to  
 245 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 245  
 ft.

BENTONITE  
 SLURRY: 25 to 71  
 ft.

Depth (ft.)  
 Sample



VERY DARK GRAY WELL GRADED SAND (SW) (10YR 3/1) Loose, dry, 90% fine to coarse sand, 10% silt

@ 4 ft.: Change to VERY DARK GRAYISH BROWN (10YR 3/2)

@ 6 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 10 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4)

@ 12 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4) Loose, dry, 95% fine to coarse sand, 5% silt

@ 16 ft.: Change to Increase in fine sand

@ 20 ft.: Similar to above

LIGHT GRAY SILTY SAND (SM) (5Y 7/1) Loose, dry, 80% fine to coarse sand, 20% silt, Sample hot and may have been altered by sonic rig, when wet color changes to LIGHT YELLOWISH BROWN (2.5Y 6/4) LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/4) Loose, dry, 90% fine to coarse sand, 10% silt

BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MP-BW-46  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A11**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

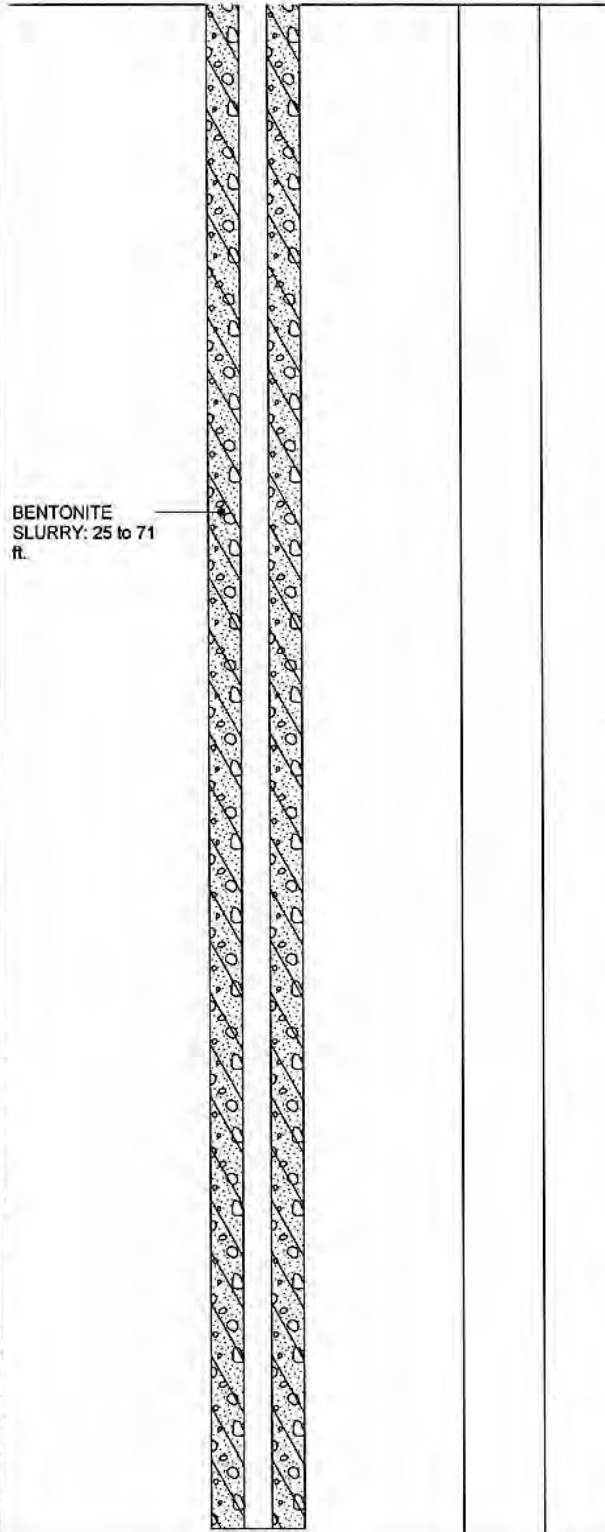
APPROVED  
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DATE  
 11/04

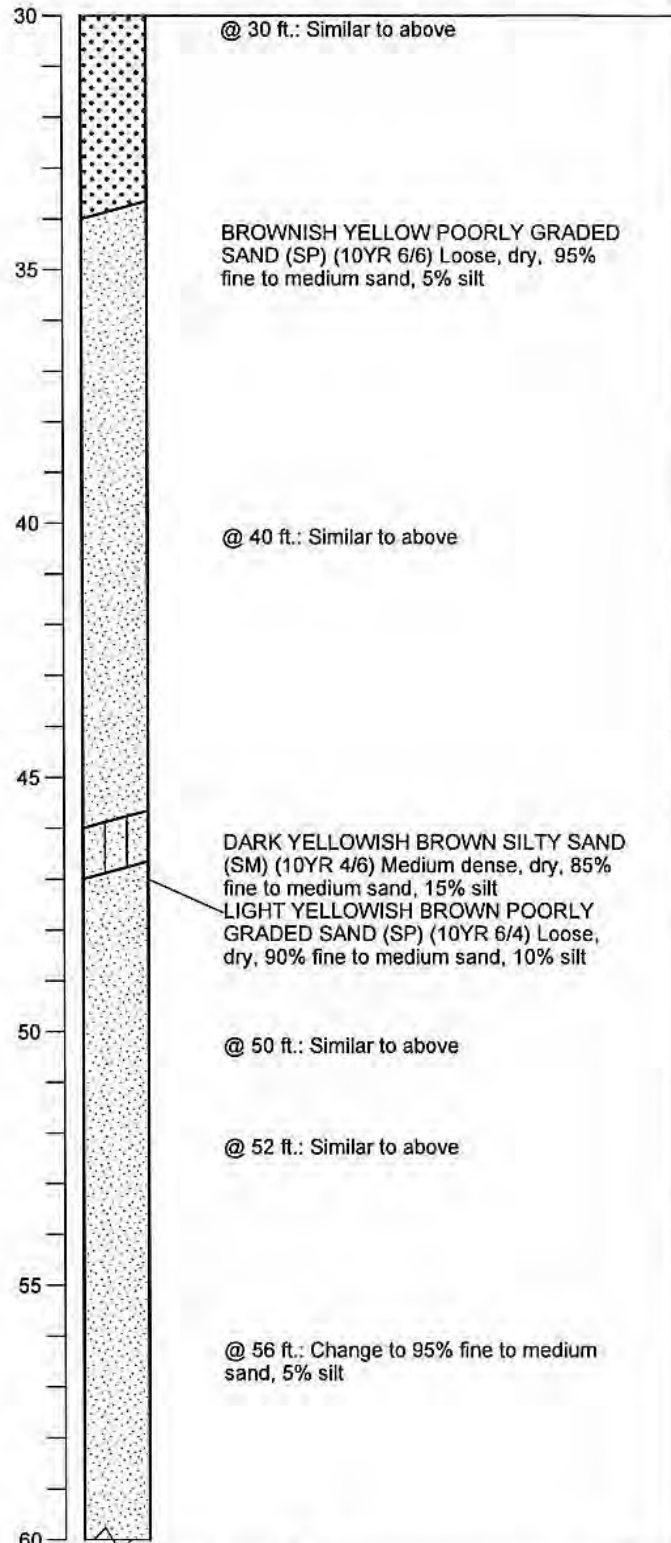
REVISED DATE

Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to 71  
 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-46**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A11**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

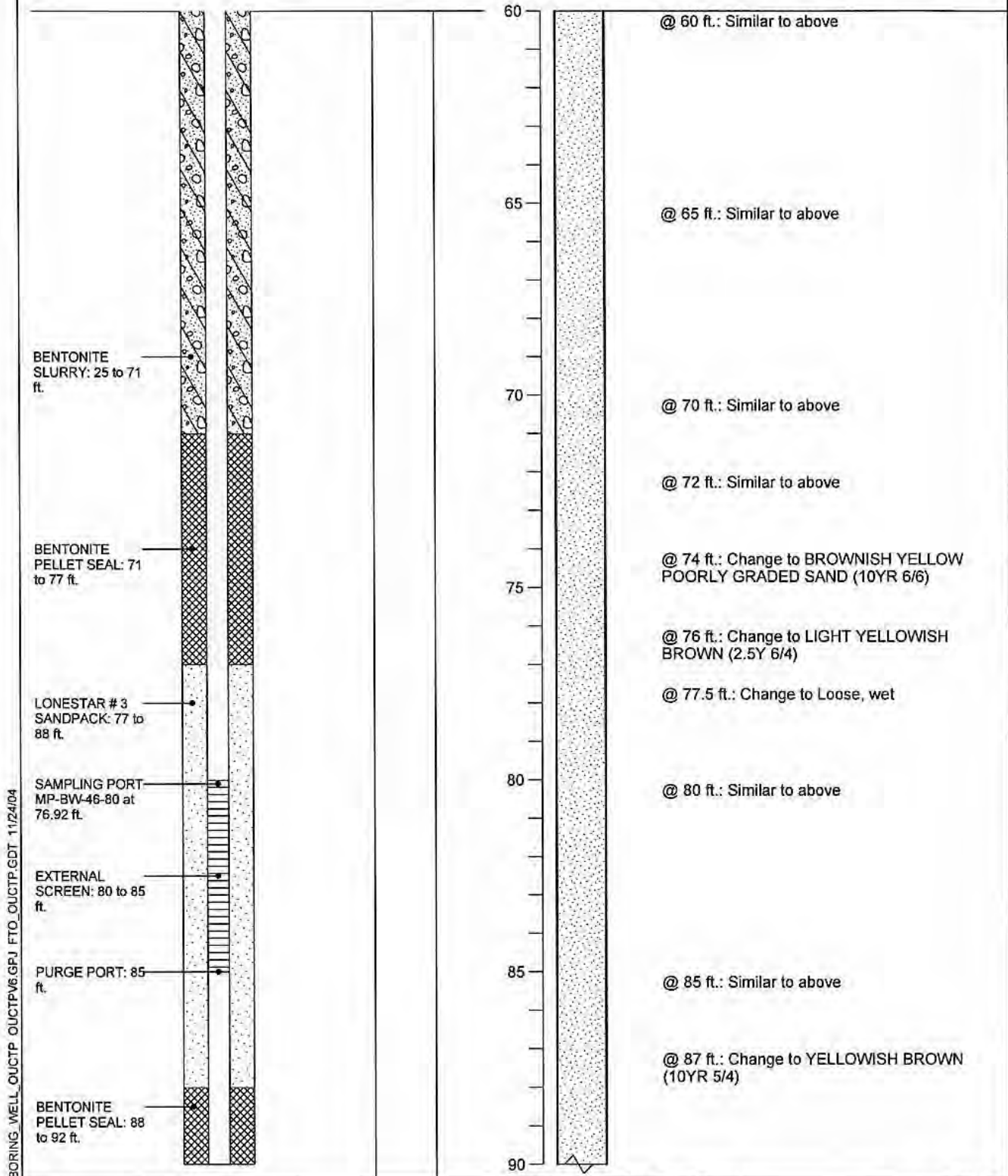
APPROVED  
*MDT / cm*

DATE  
 11/04

REVISED DATE


Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

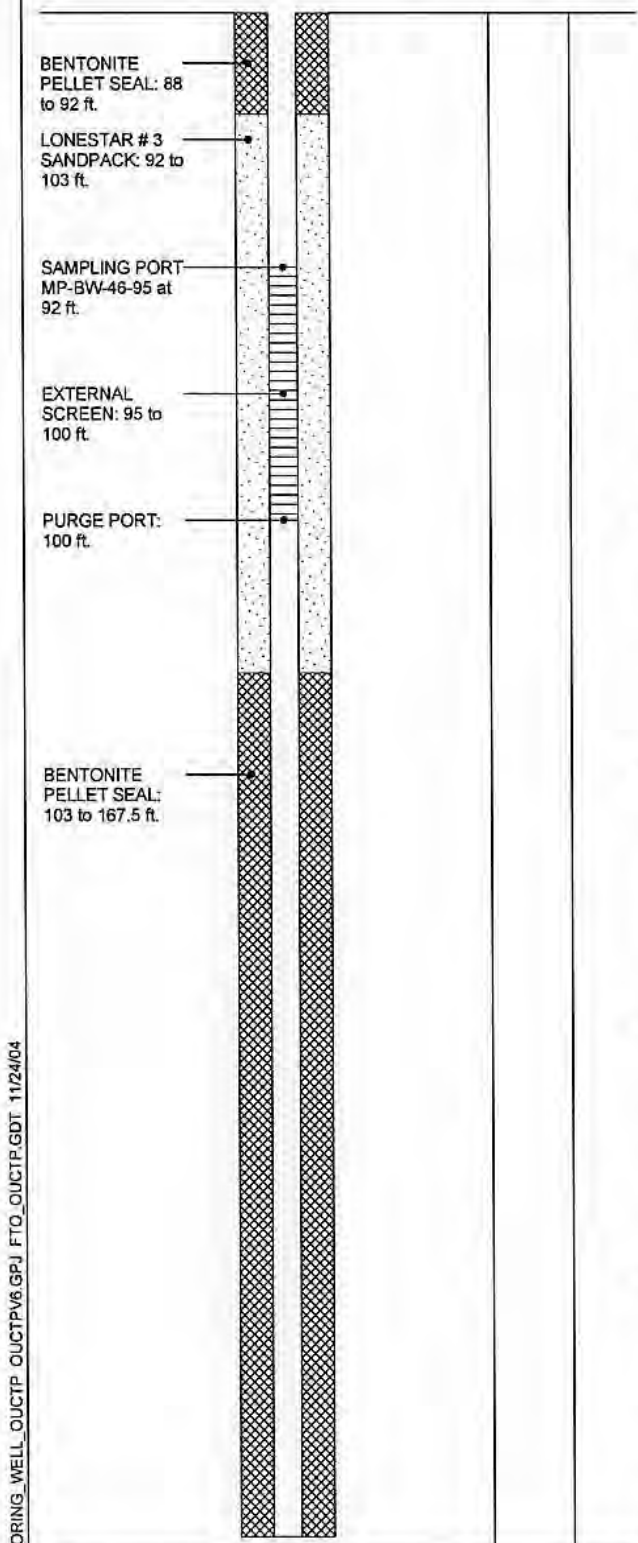
**Well Construction Details and Log of Boring MP-BW-46** PLATE  
 OUCTP

 **MACTEC**  
 DRAWN: MBP  
 JOB NUMBER: 55596 001701

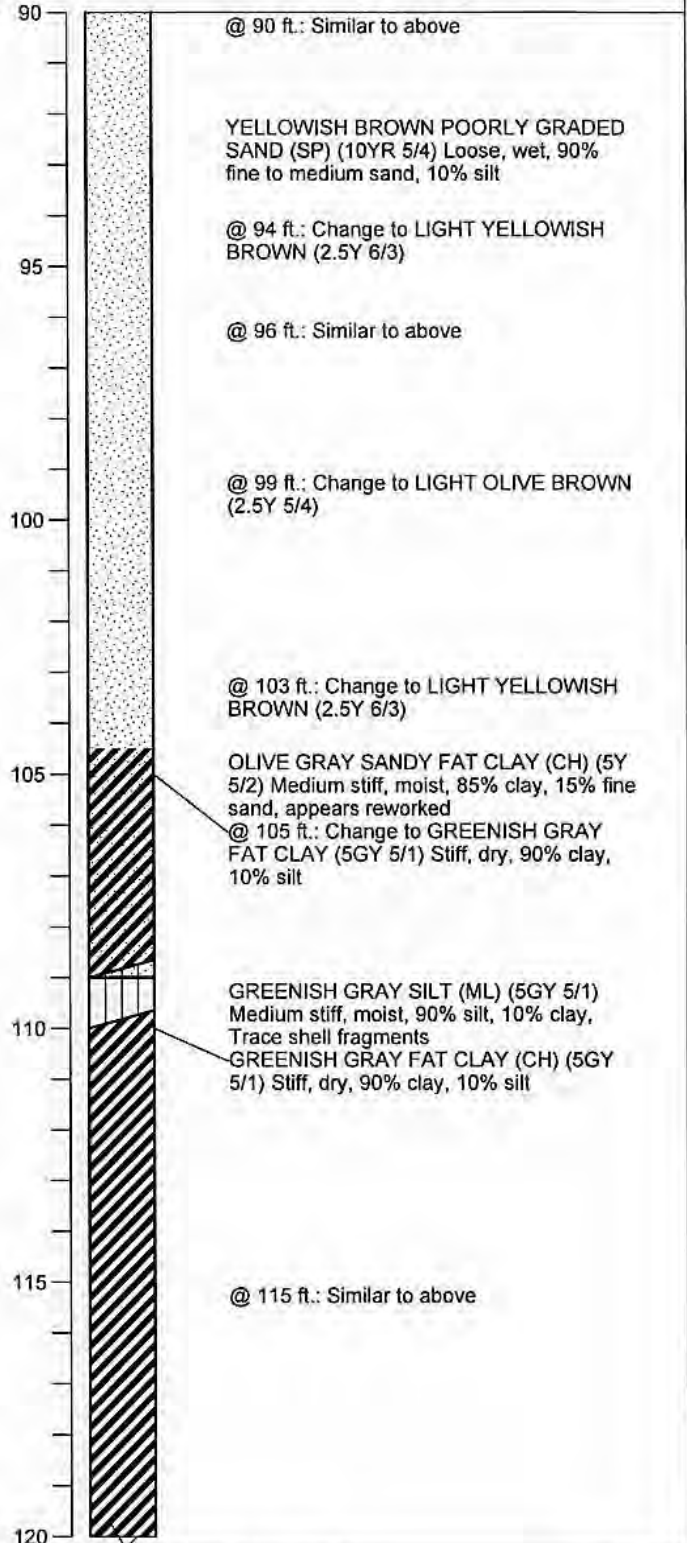
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 APPROVED: *MDT / cm*  
 DATE: 11/04  
 REVISED DATE: **A11**



Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48



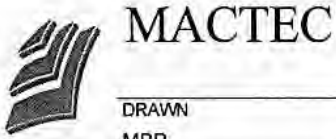
Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV&GPJ\_FTO\_OUCTP.GDT 112404

Well Construction Details and Log of Boring MP-BW-46

PLATE



Fort Ord, California

**A11**

DRAWN  
MBP

JOB NUMBER  
55596 001701

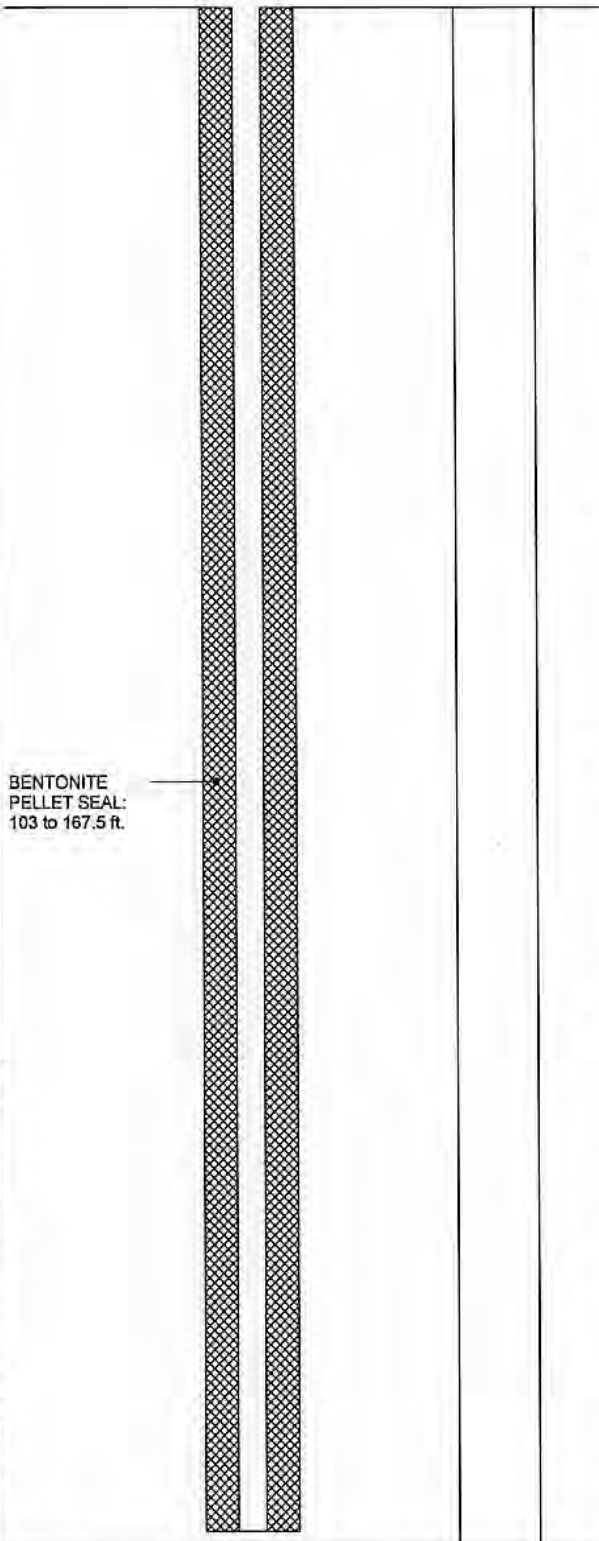
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*MDT Jan*

DATE  
11/04

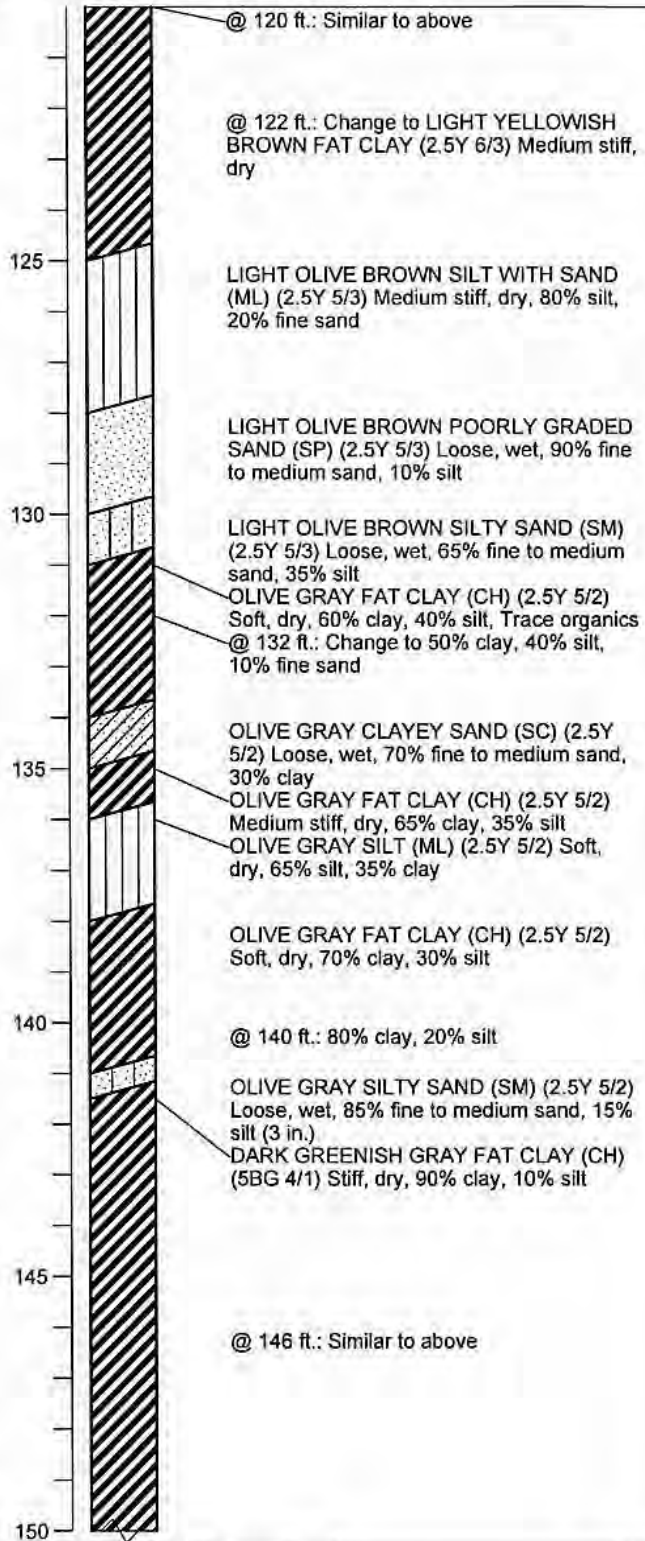
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 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
 Sample



BENTONITE  
 PELLET SEAL:  
 103 to 167.5 ft.



BORING WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MP-BW-46**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
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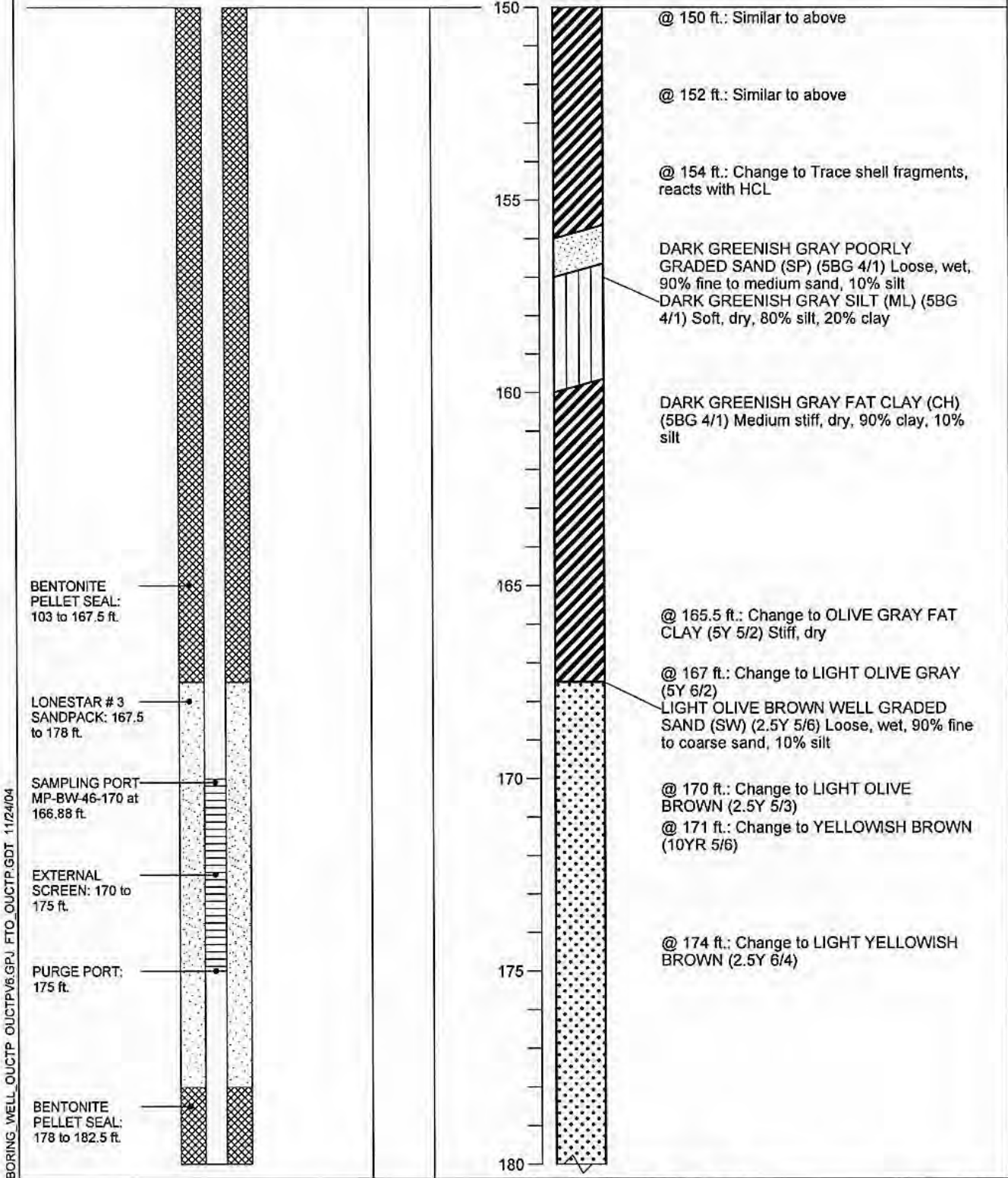
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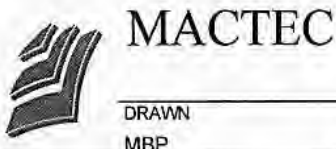
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Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



JOB NUMBER  
55596 001701

**Well Construction Details and Log of Boring MP-BW-46**  
OUCTP

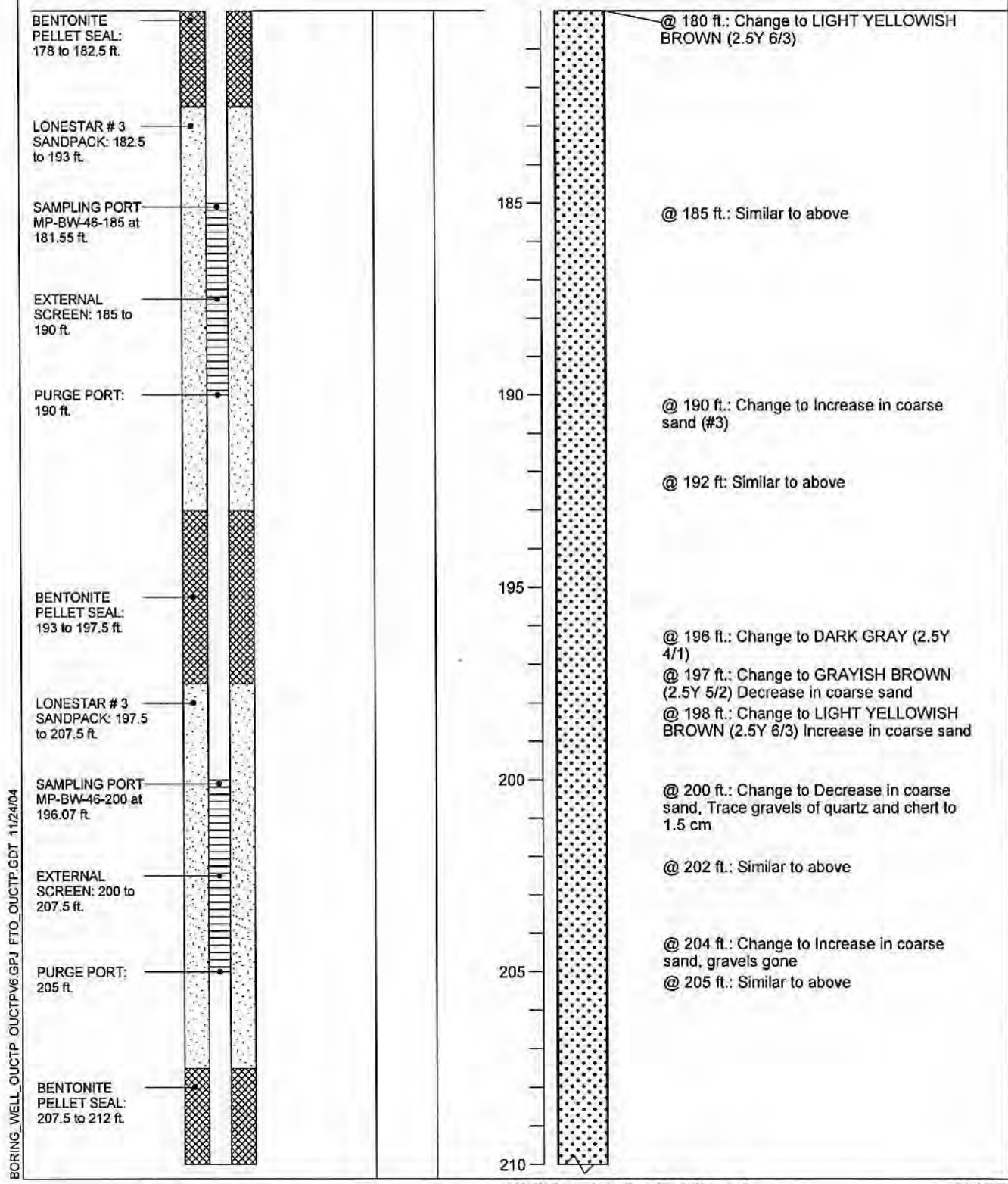
Fort Ord, California  
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DATE  
11/04

PLATE  
**A11**  
 REVISED DATE

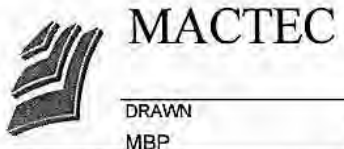
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 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-46** PLATE  
 OUCTP



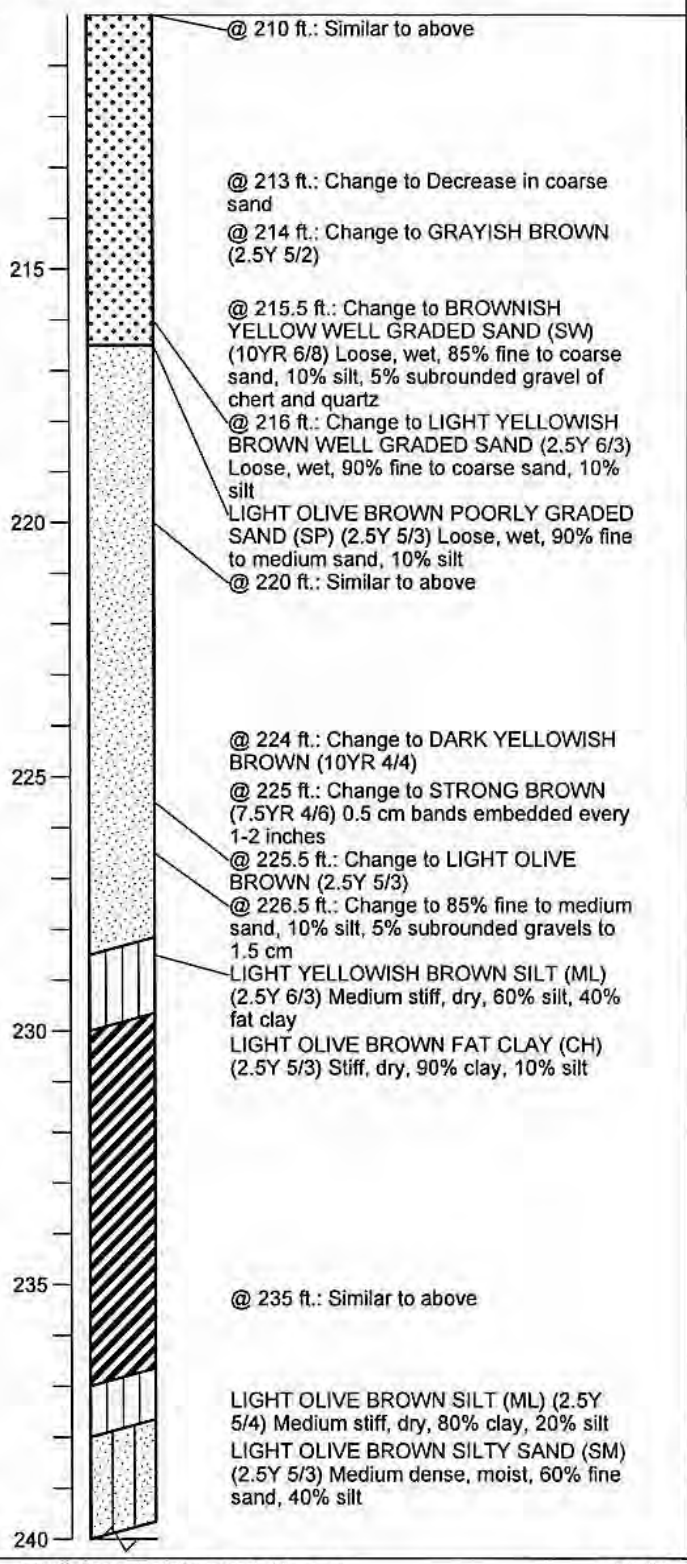
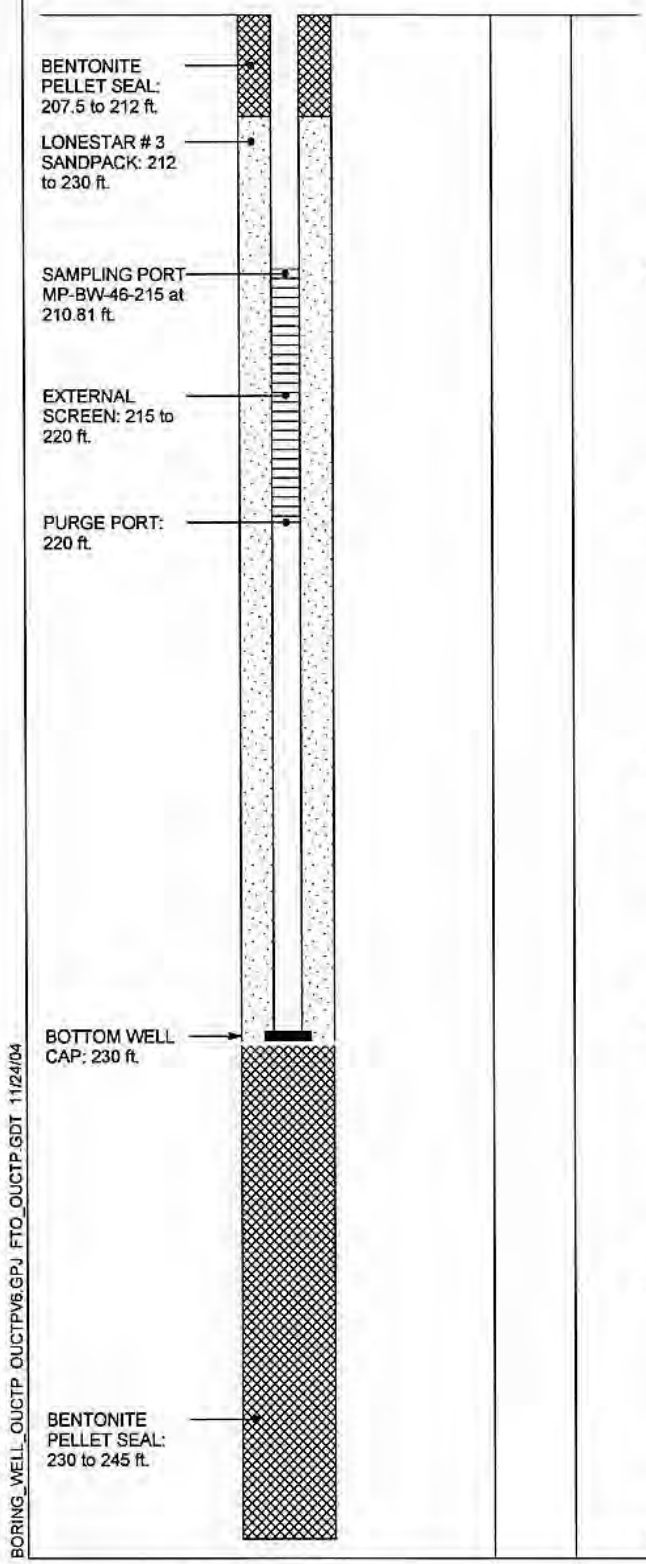
Fort Ord, California

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 11/04	REVISED DATE
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**A11**



Completion Date 2/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 152.91 ft. Hole Dia. 7 in.  
 Northing 2139780.05 Easting 5748540.48



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MP-BW-46**

PLATE



**MACTEC**

DRAWN  
MBP

JOB NUMBER  
55596 001701

Fort Ord, California

APPROVED  
*MDT / am*

DATE  
11/04

REVISED DATE

**A11**



Completion Date 2/14/2003

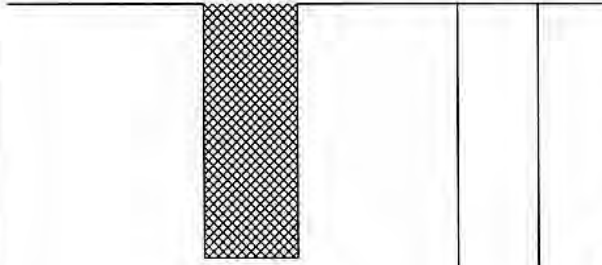
Drilling Method Sonic

Logged by D. Browne

Surface Elevation 152.91 ft. Hole Dia. 7 in.

Northing 2139780.05 Easting 5748540.48

Depth (ft.)  
Sample



LIGHT OLIVE BROWN FAT CLAY (CH)  
(2.5Y 5/3) Stiff, dry, 80% clay, 20% silt

Bottom of boring at 245 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MP-BW-46  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A11**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Top of PVC Casing  
 Elev. 195.24 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. bgs

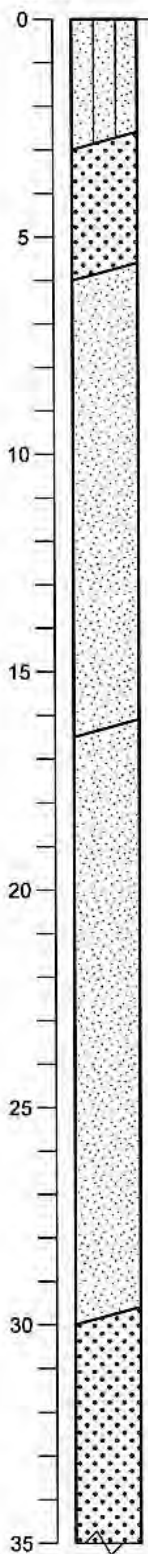
7 in. DIAMETER  
 BOREHOLE: 0 to  
 285 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 25 ft.

MP-38 (38mm.)  
 PVC SCHEDULE  
 40 WESTBAY  
 CASING: 0 to 282  
 ft.

BENTONITE  
 SLURRY: 25 to  
 110 ft.

Depth (ft.)  
 Sample



BROWN SILTY SAND (SM) (10YR 4/3)  
 Loose, dry, 80% fine to coarse sand, 20% silt

BROWN WELL GRADED SAND (SW)  
 (10YR 4/3) Loose, dry, 90% fine to coarse sand, 10% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt

@ 10 ft.: Similar to above  
 @ 11 ft.: 90% fine to coarse sand, 10% silt

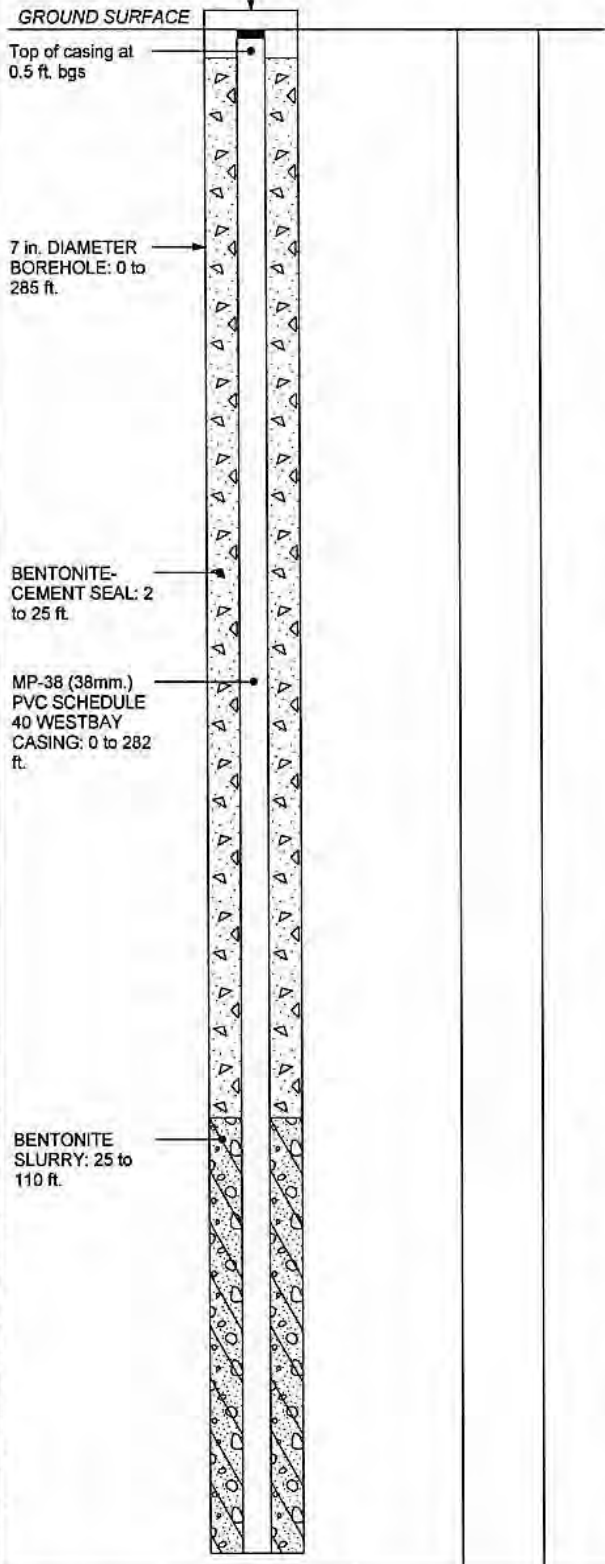
YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 95% fine to medium sand, 5% silt

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
 Log of Boring MP-BW-48  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A12**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

DATE  
 11/04

REVISED DATE

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
 Sample

35  
 40  
 45  
 50  
 55  
 60  
 65  
 70

@ 35 ft.: Similar to above  
 BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6) Loose, dry, 90% fine to coarse sand, 10% silt  
 @ 40 ft.: Similar to above  
 @ 45 ft.: Similar to above  
 @ 50 ft.: Similar to above  
 @ 55 ft.: Similar to above  
 @ 58 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt  
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, moist, 95% fine to medium sand, 5% silt  
 @ 68 ft.: Change to BROWNISH YELLOW (10YR 6/6)

BENTONITE SLURRY: 25 to 110 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-48  
 OUCTP

PLATE



MACTEC

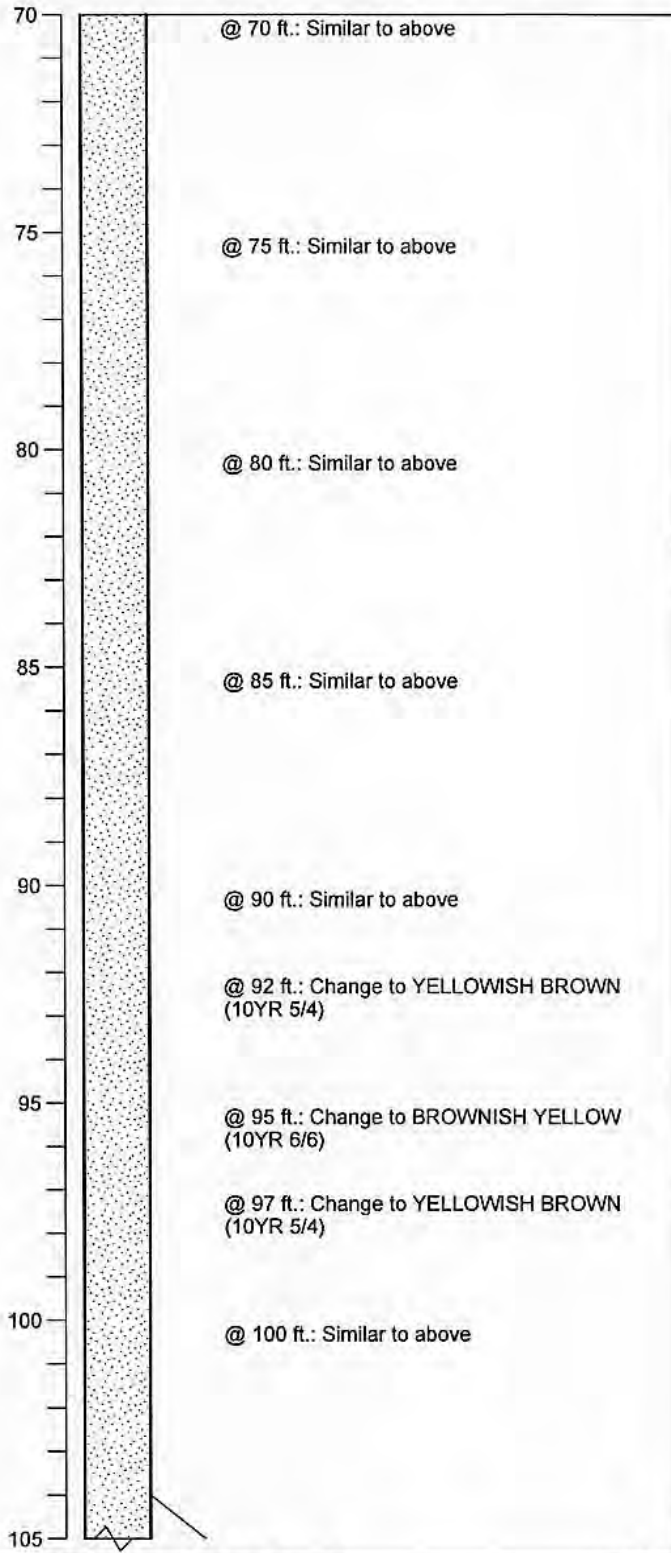
Fort Ord, California

**A12**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 11/04	REVISED DATE
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Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MP-BW-48  
OUCTP

PLATE

**A12**

Fort Ord, California

DRAWN  
MBP

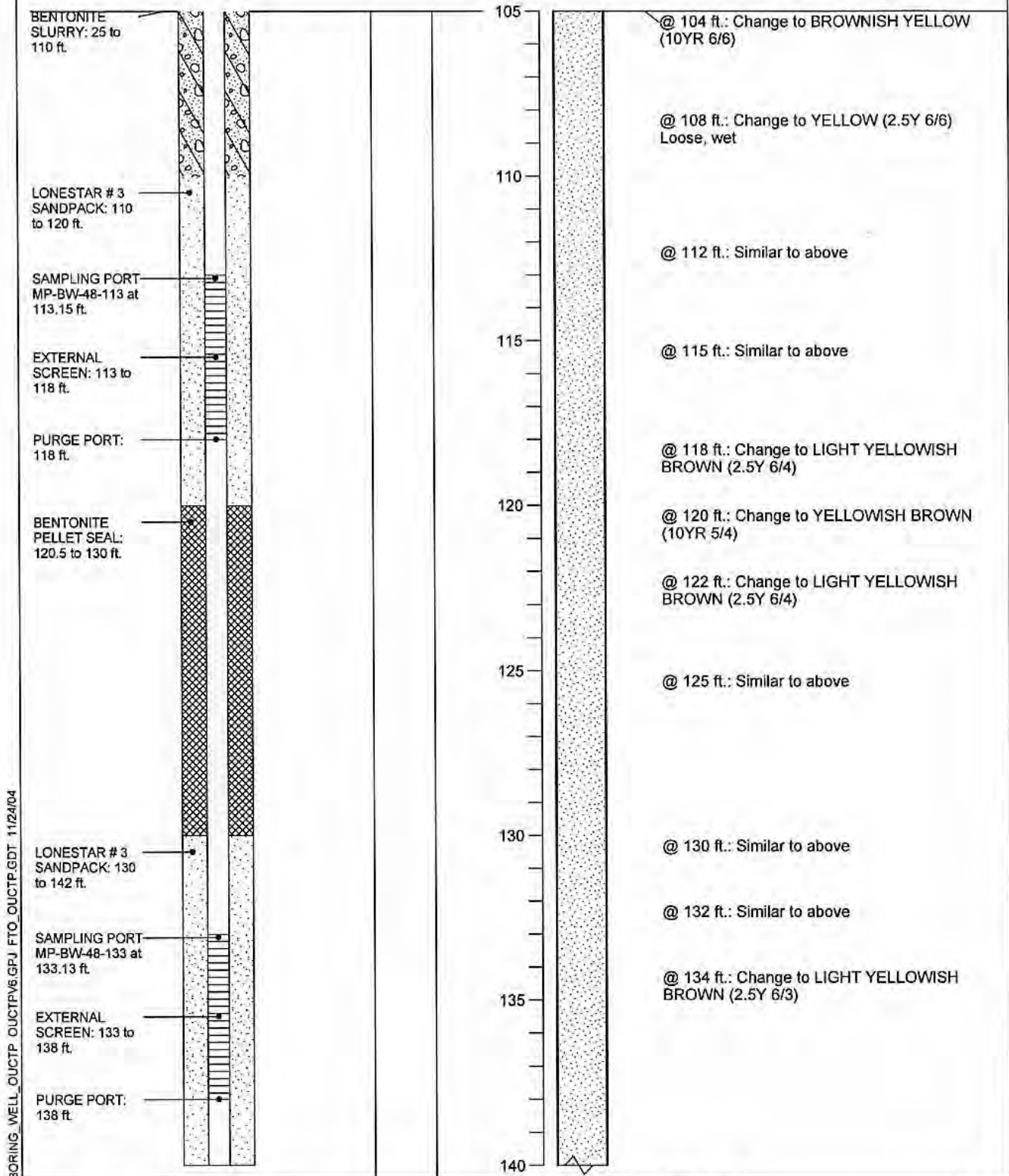
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APPROVED  
*[Signature]*

DATE  
11/04

REVISED DATE

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MP-BW-48 PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

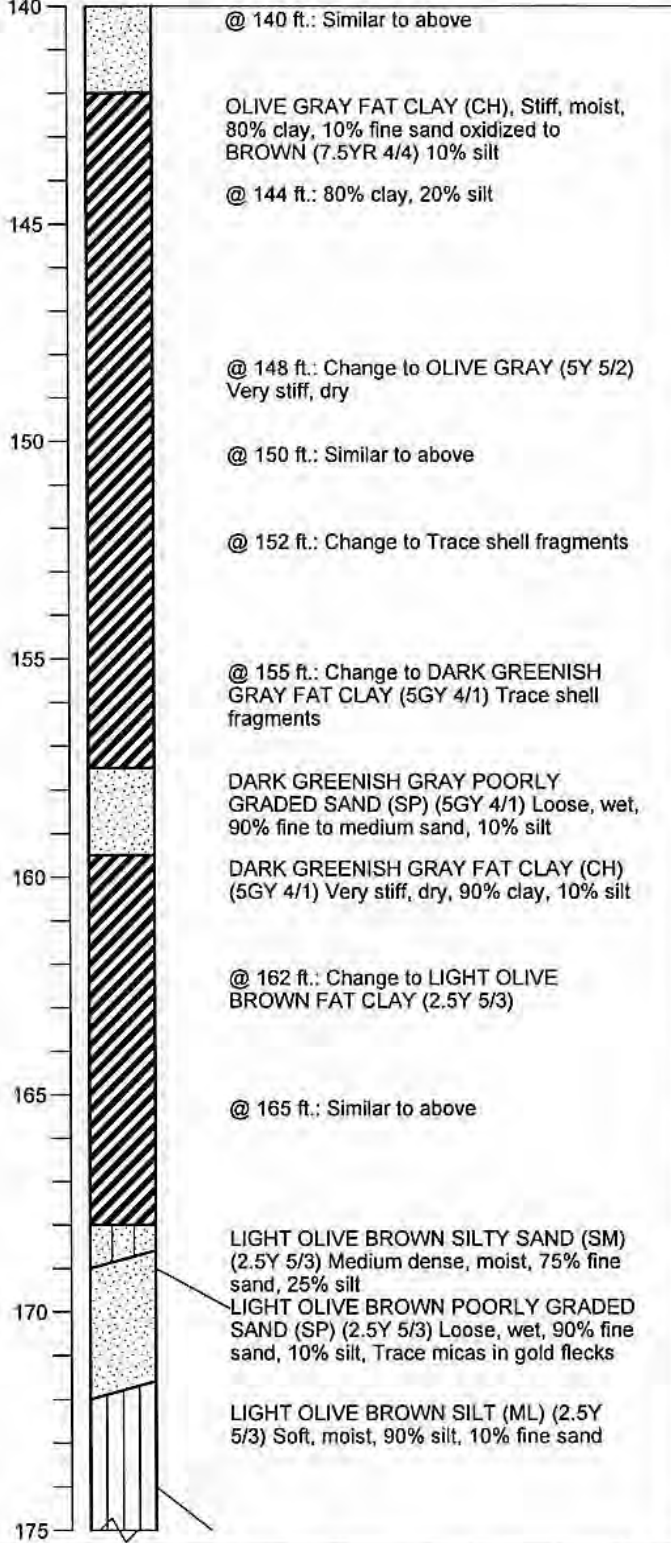
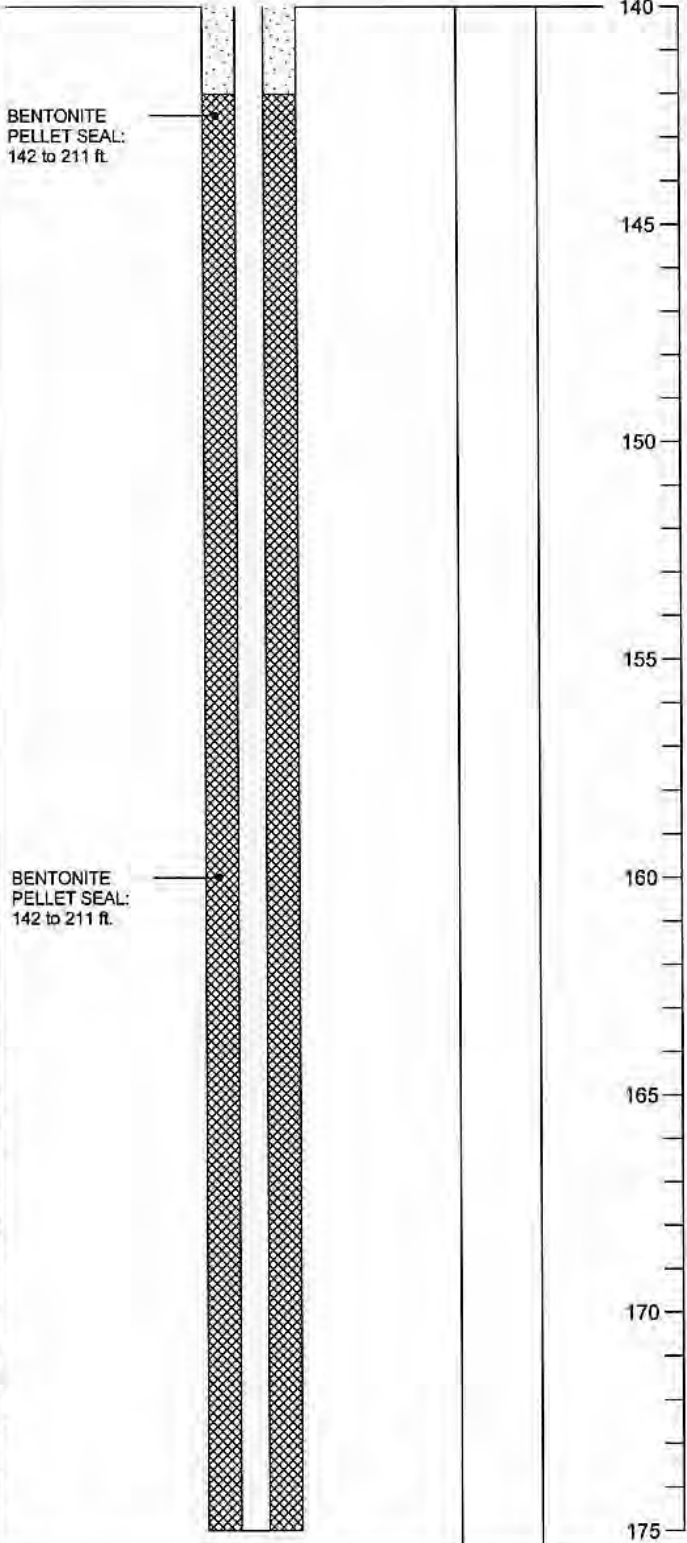
**A12**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	



Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MP-BW-48  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A12**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

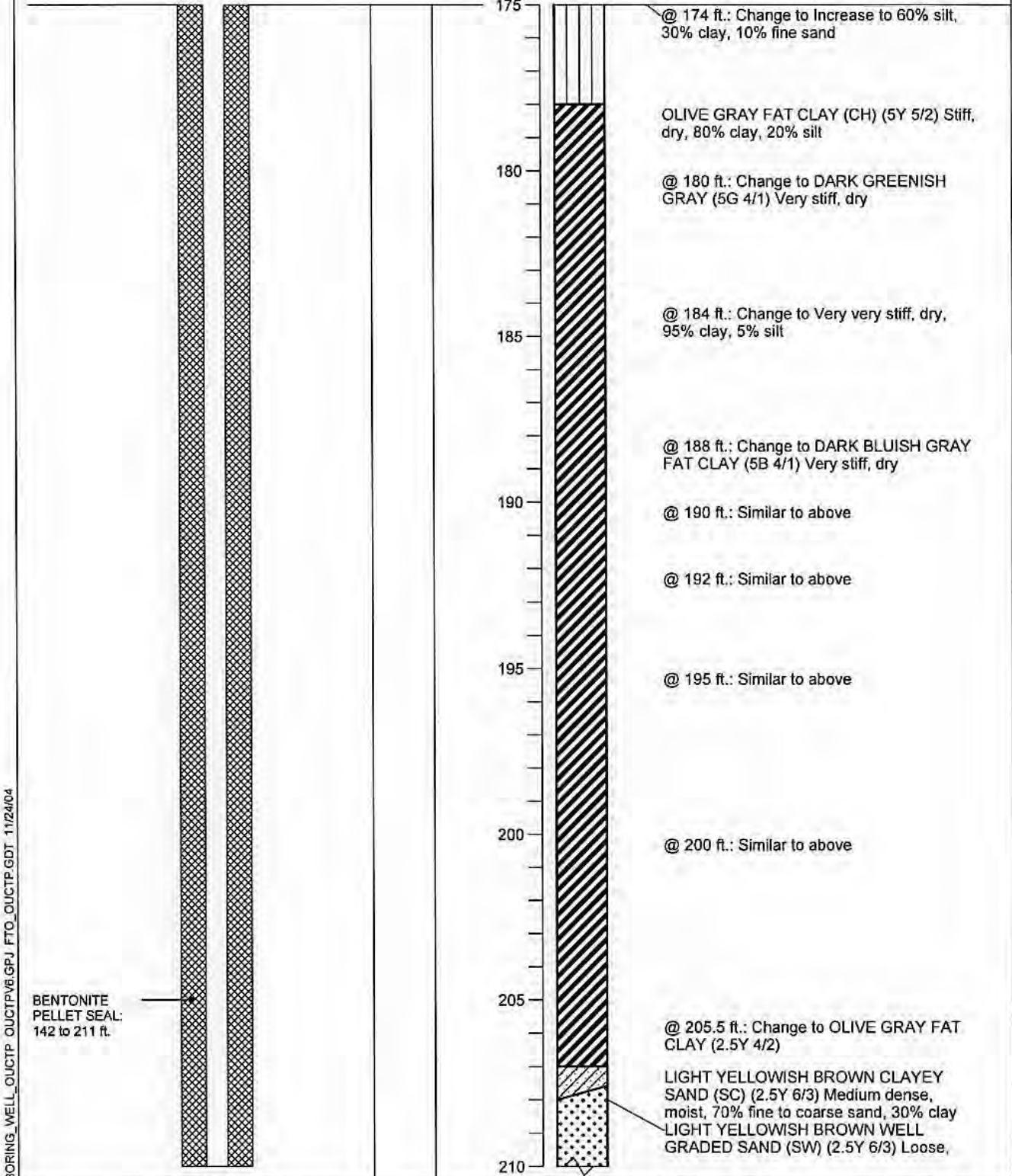
APPROVED  
*MDT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MP-BW-48**  
 OUCTP

PLATE

**A12**

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

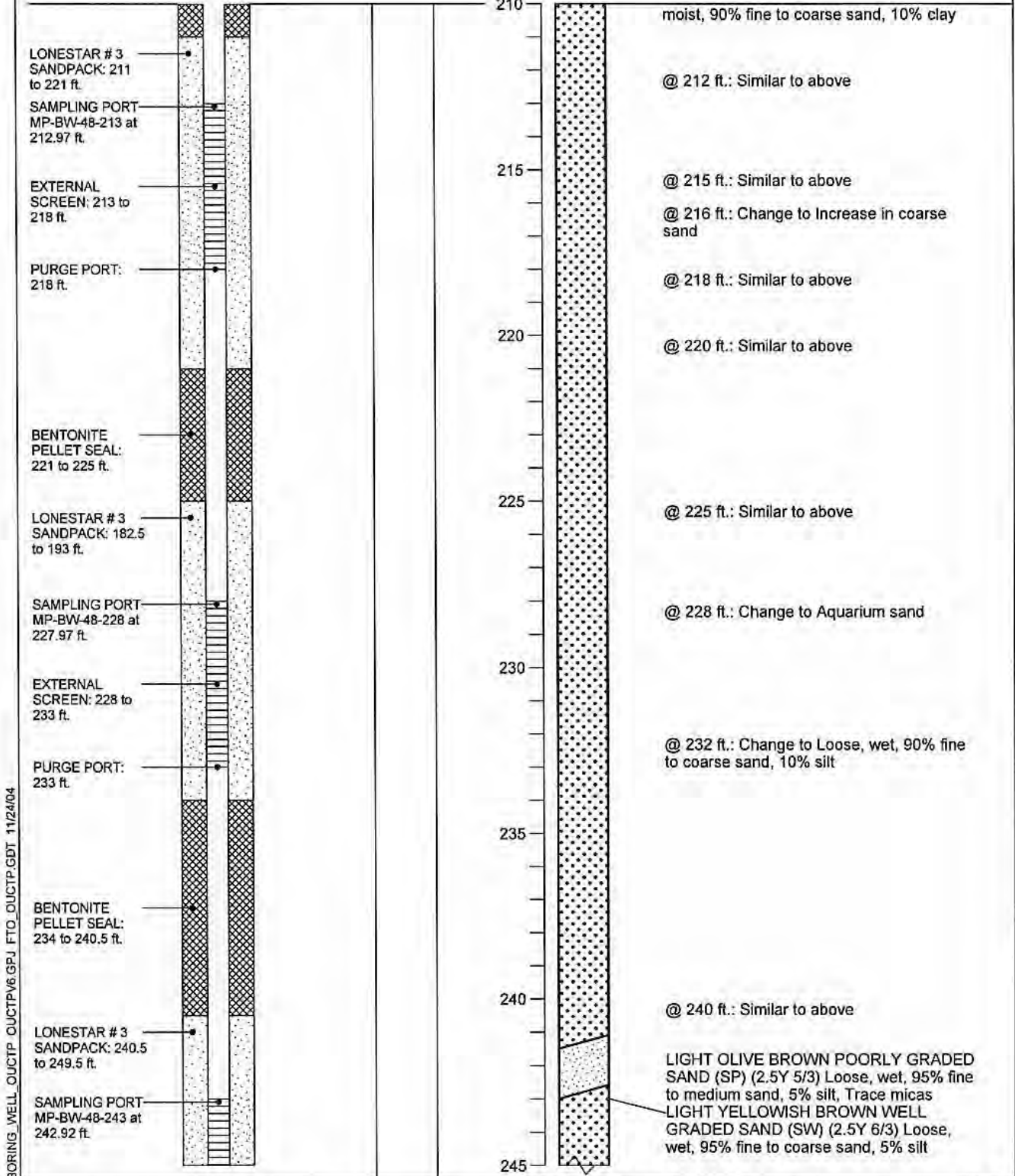
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*MDT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
Sample



Well Construction Details and Log of Boring MP-BW-48 PLATE



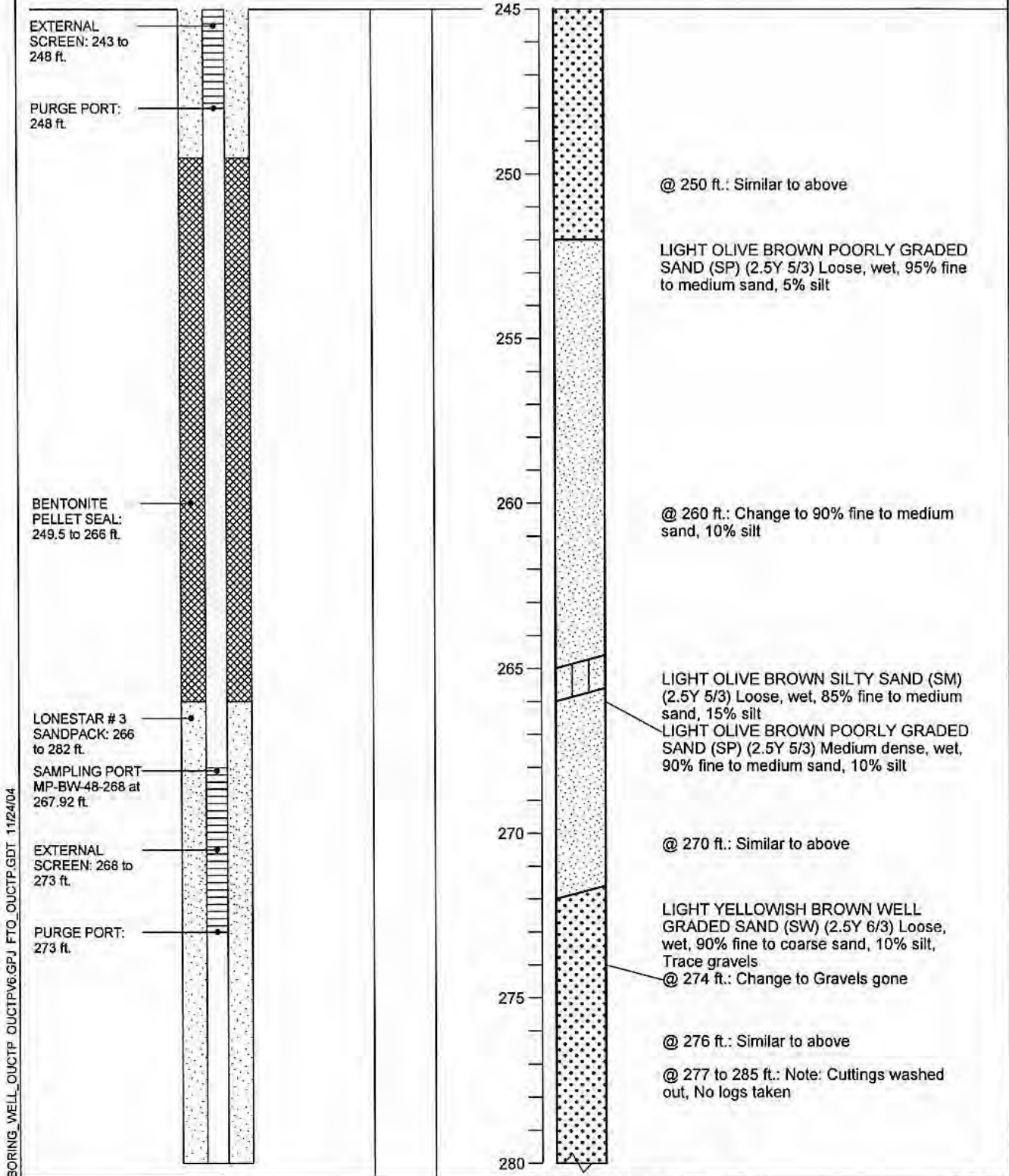
**MACTEC**

OUCTP  
Fort Ord, California

**A12**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT/cm</i>	DATE 11/04	REVISED DATE
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Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MP-BW-48**  
OUCTP

PLATE

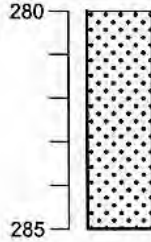
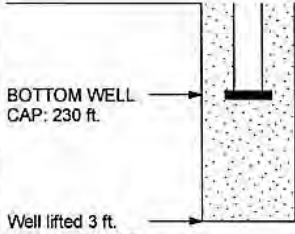
**A12**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / CW</i>	DATE 11/04	REVISED DATE
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Fort Ord, California

Completion Date 2/11/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 195.63 ft. Hole Dia. 7 in.  
 Northing 2138142.6 Easting 5748217.08

Depth (ft.)  
 Sample



Bottom of boring @ 285 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MP-BW-48**  
 OUCTP

Fort Ord, California

PLATE

**A12**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED

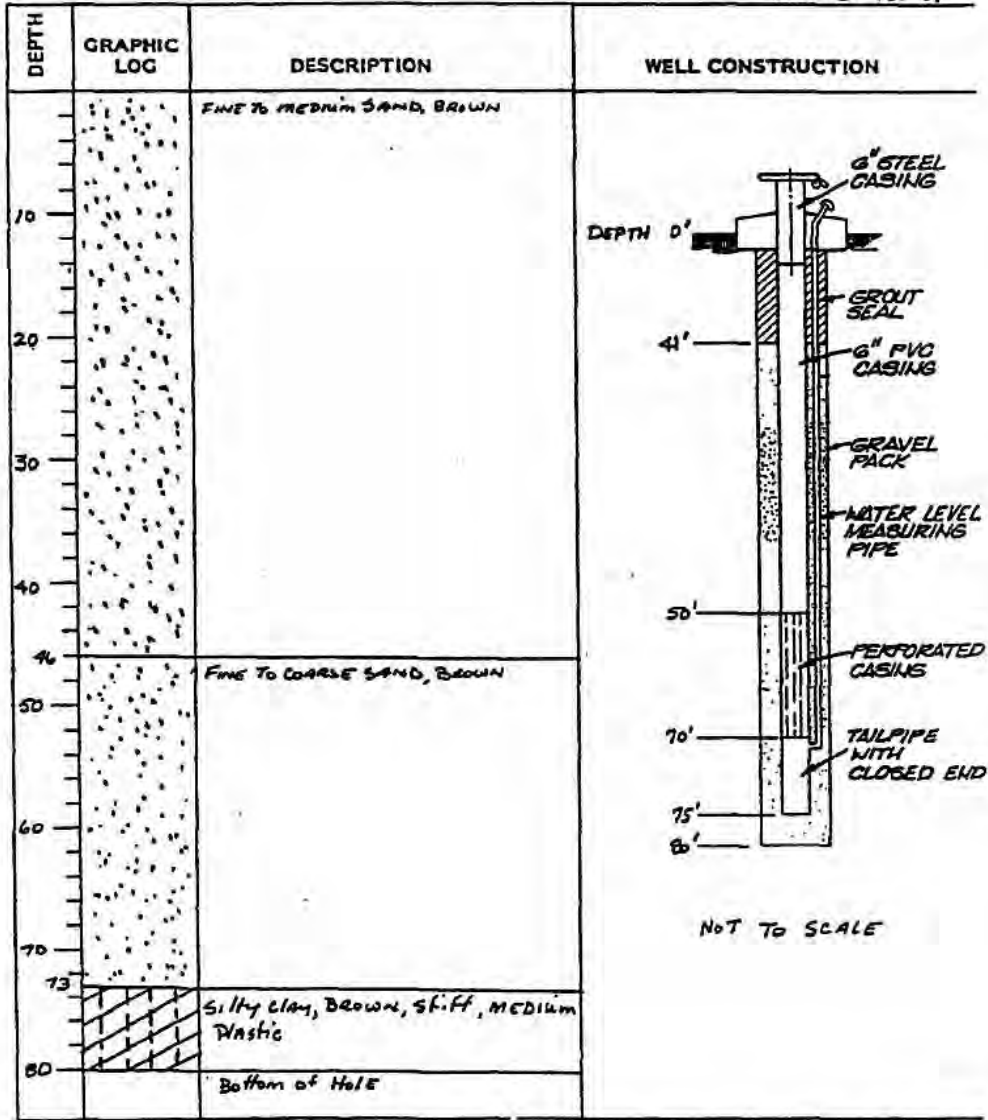
*MDT/can*

DATE  
 11/04

REVISED DATE



CLIENT FORT ORD LOCATION FRITSCHE AIRFIELD ELEVATION R.P. 98.92  
 PROJECT NO. M1005.81 BORING NO. AS-9 WATER LEVEL ELEV. 40.96  
 DRILLER Jim ALLEN GEOLOGIST Alex Tula (TIME DATE) 1/19/77  
 BEGUN 0830 12/11/76 COMPLETED 1130 (TIME DATE) 12/11/76 TOTAL DEPTH 80 ft.  
MW-B-12-A



AS-9

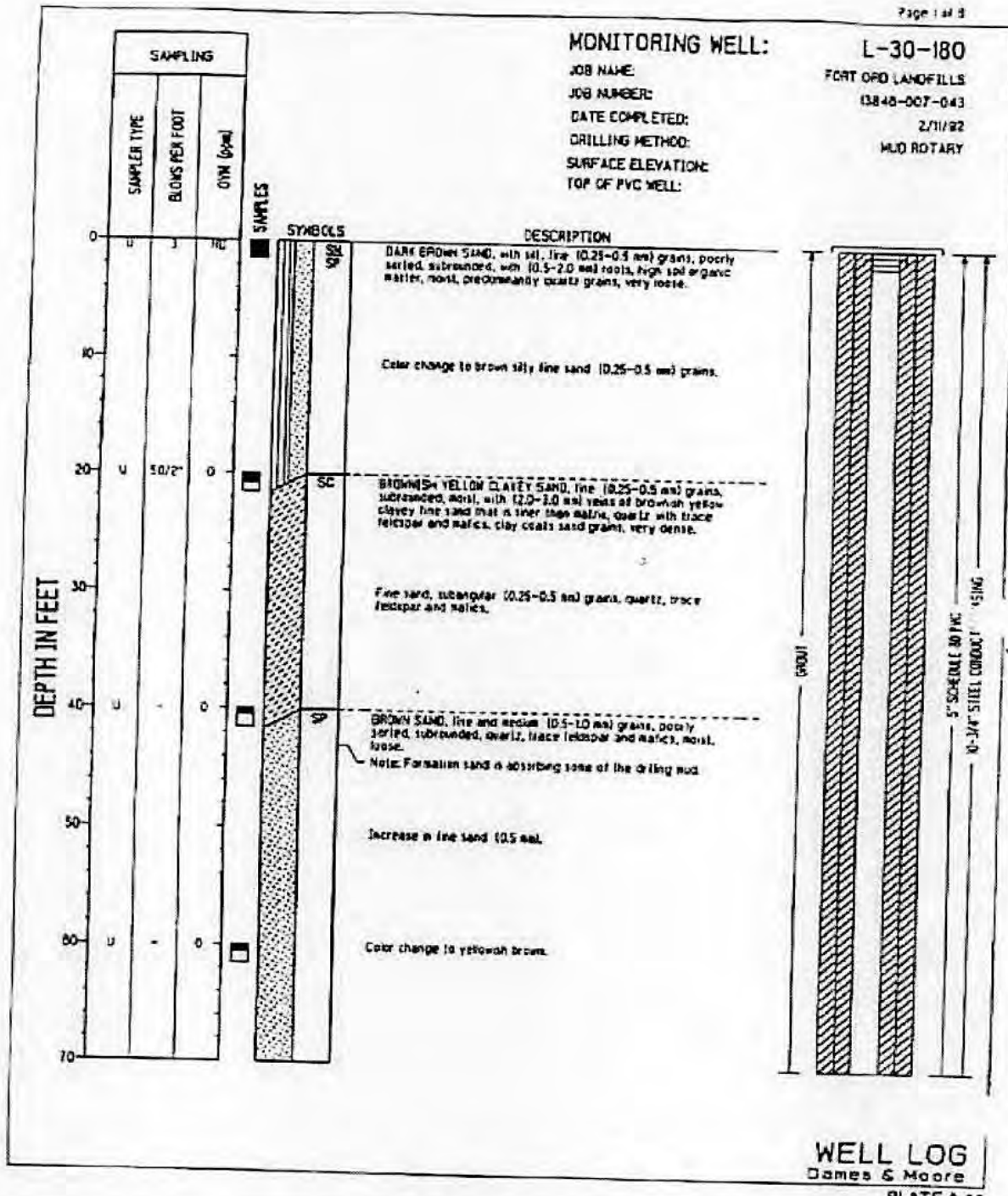
Well Construction Details and  
 Log of Boring MW-B-12-A  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE



**A13**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>[Signature]</i>	DATE 12/04	REVISED DATE
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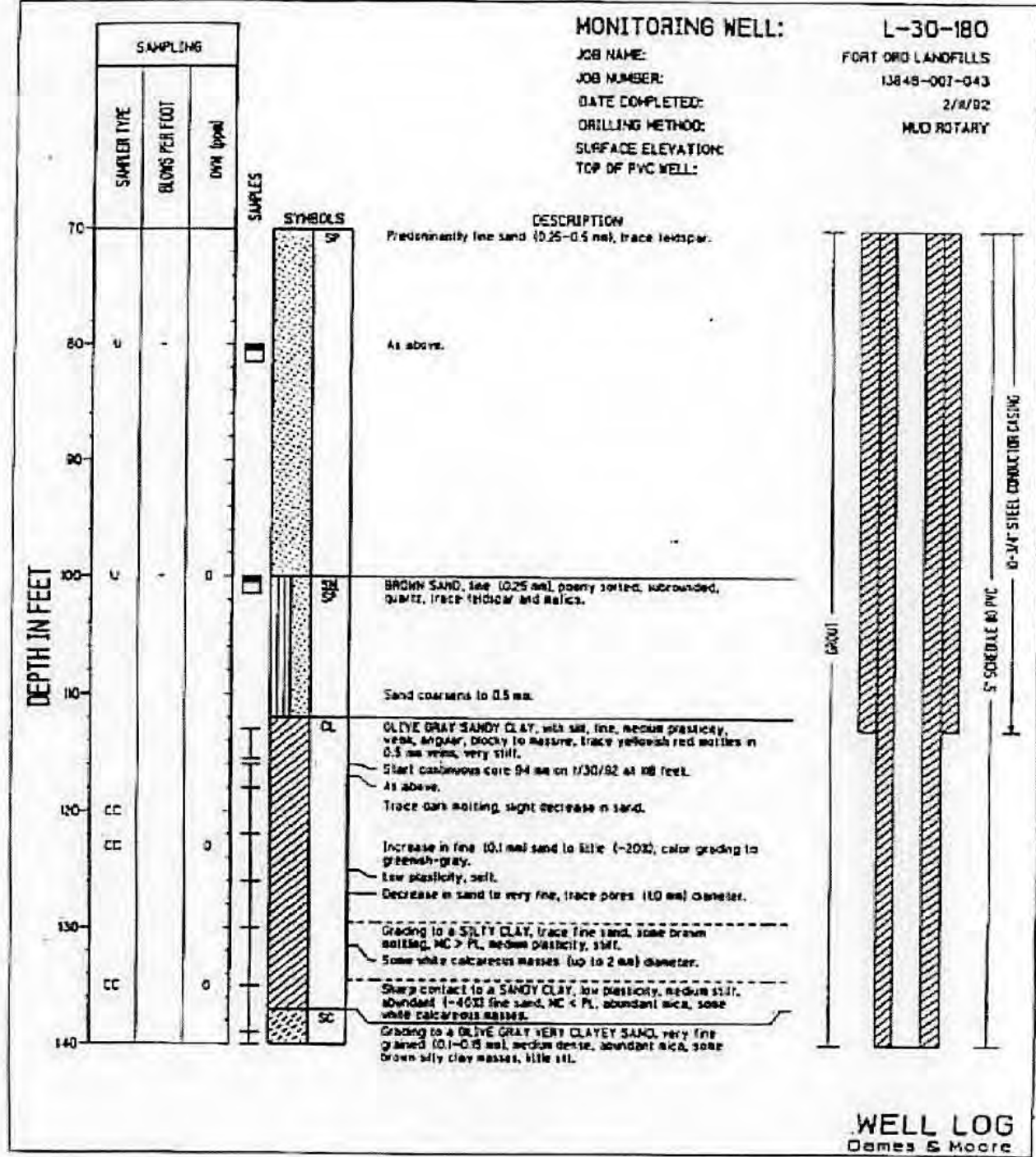


Well Construction Details and  
 Log of Boring MW-0U2-30-180  
 OUCTP  
 RI/FS  
 Fort Ord, California

PLATE

**A14**

DRAWN JFT	JOB NUMBER 55596 00171	APPROVED <i>MDT Jan</i>	DATE 1/05	REVISED DATE
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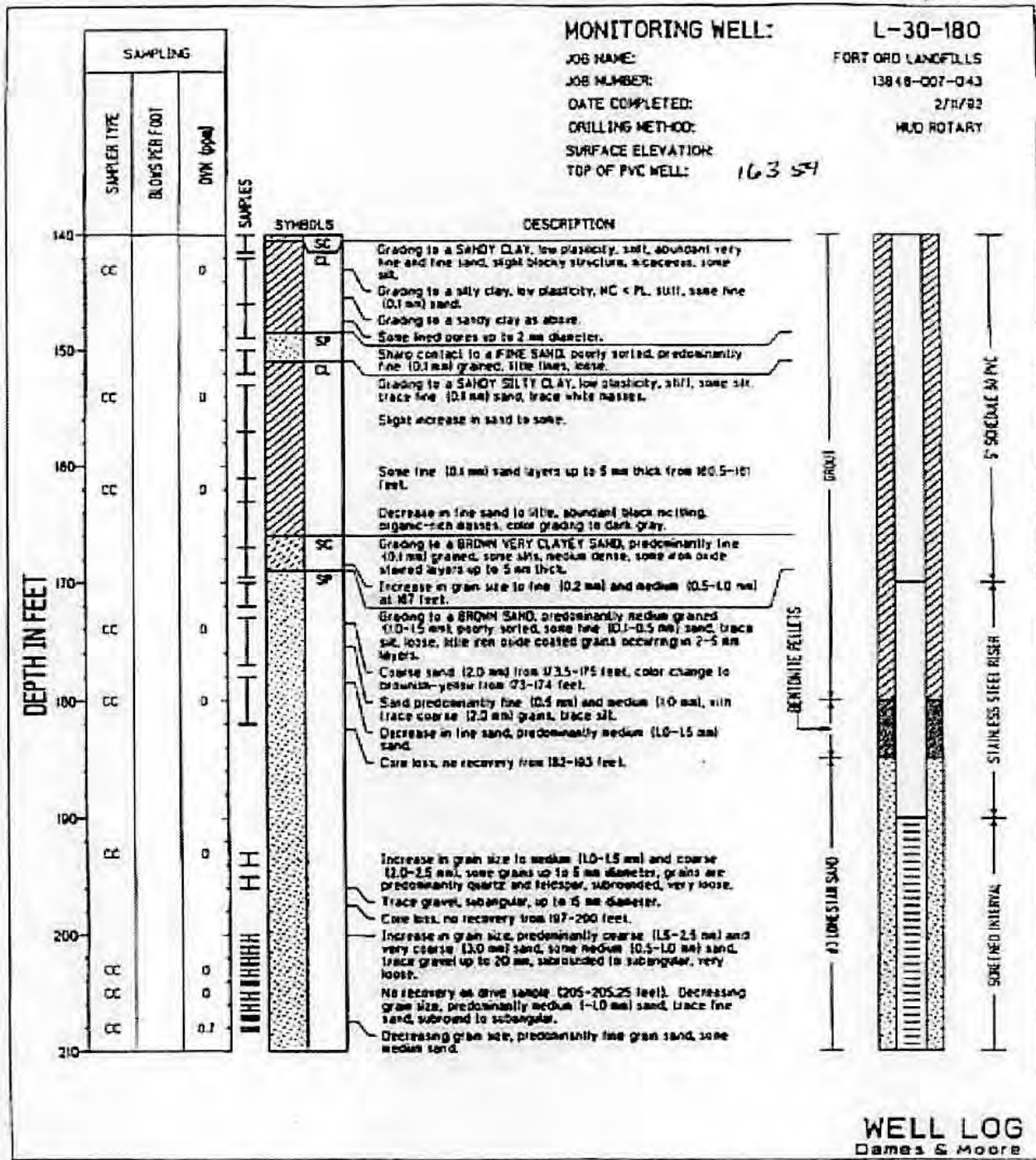


**MACTEC** Well Construction Details and Log of Boring MW-0U2-30-180  
 OUCTP  
 RI/FS  
 Fort Ord, California

PLATE **A14**

DRAWN: JFT      JOB NUMBER: 55596 00171      APPROVED: [Signature]      DATE: 1/05      REVISED DATE:

Page 2 of 6

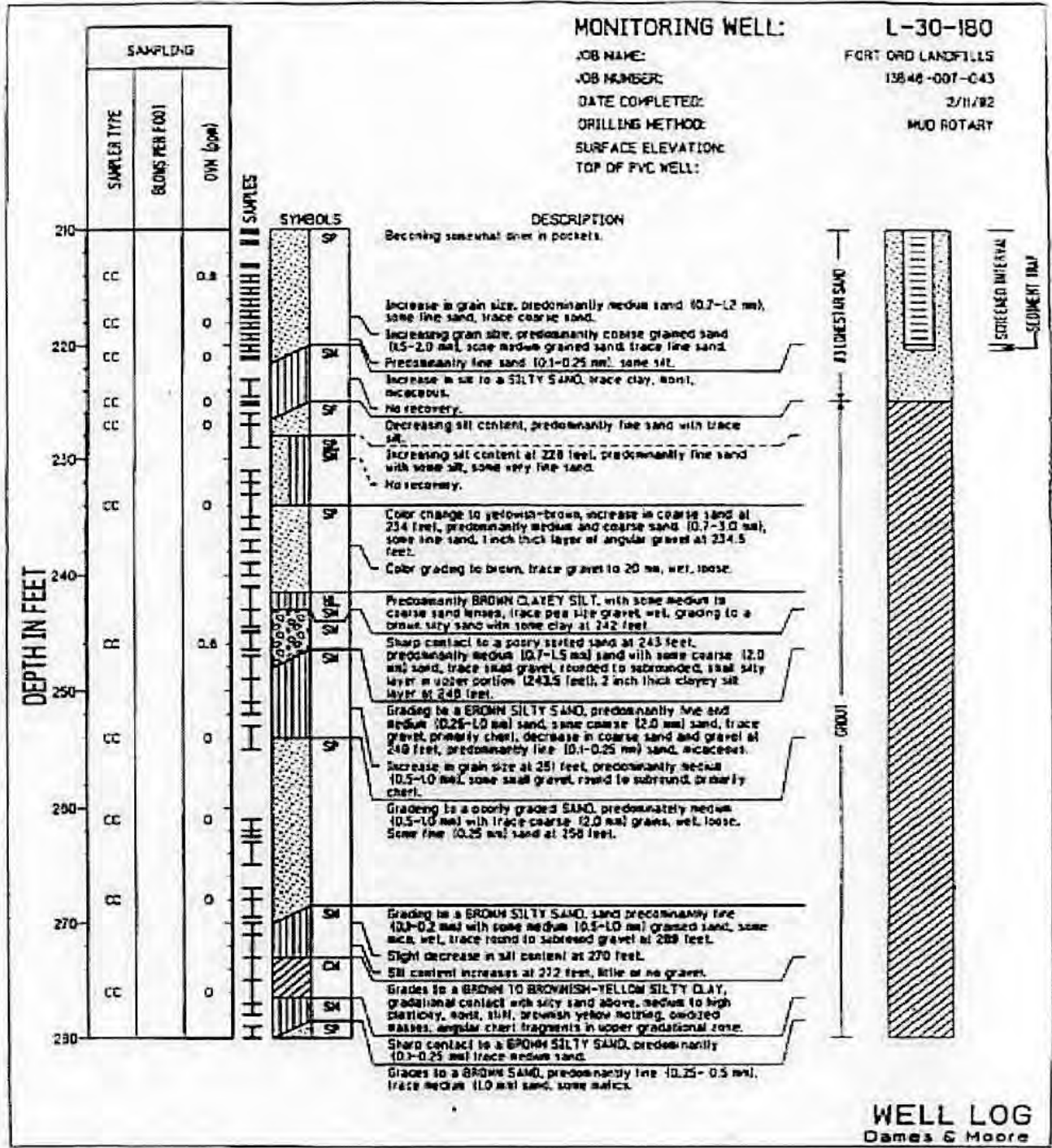


Well Construction Details and  
 Log of Boring MW-0U2-30-180  
 OUCTP  
 RI/FS  
 Fort Ord, California

PLATE  
**A14**

DRAWN JFT	JOB NUMBER 55596 00171	APPROVED <i>MOT/Jan</i>	DATE 1/05	REVISED DATE
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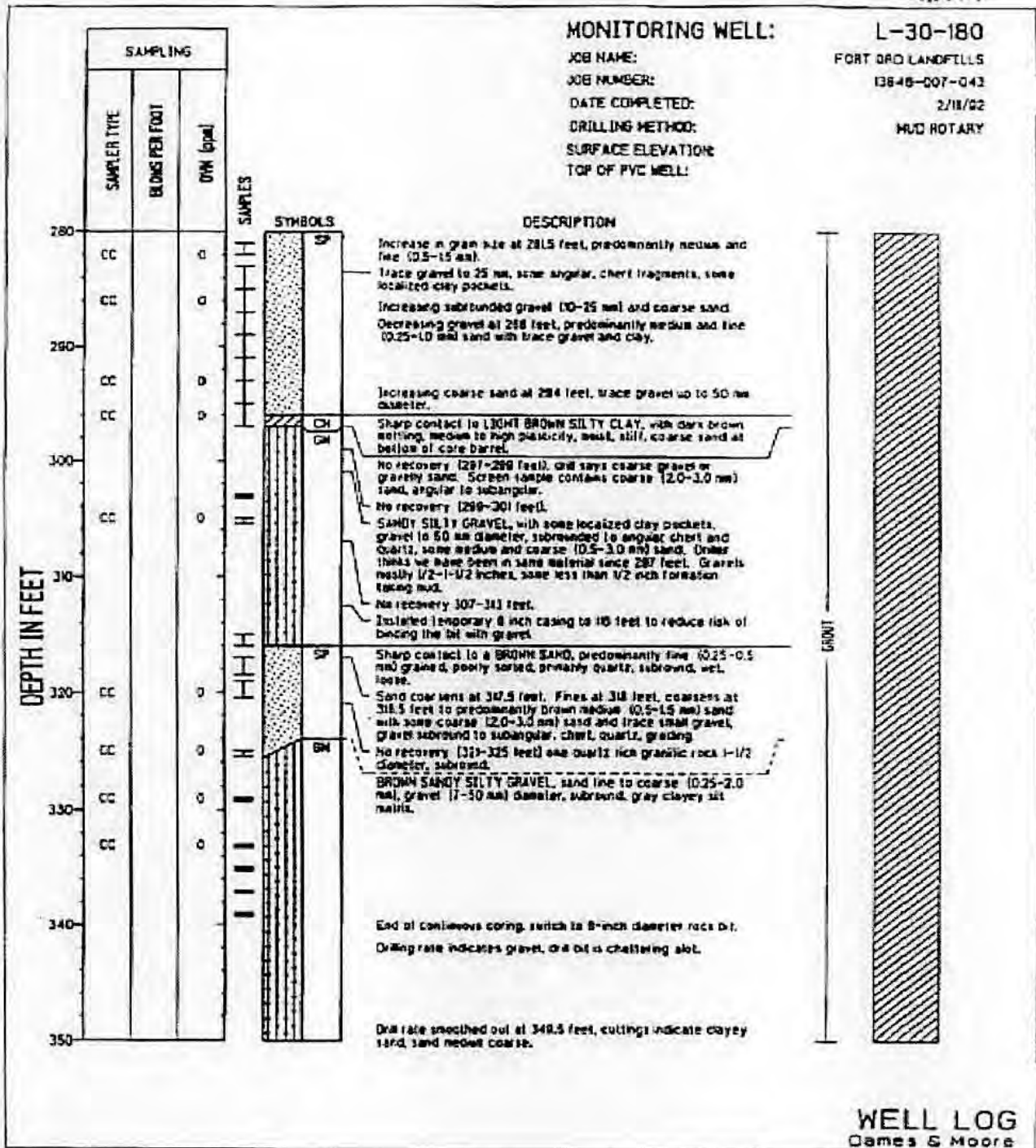



Well Construction Details and  
 Log of Boring MW-0U2-30-180  
 OUCTP  
 RI/FS  
 Fort Ord, California

PLATE  
**A14**

DRAWN JFT	JOB NUMBER 55596 00171	APPROVED <i>MDT / cur</i>	DATE 1/05	REVISED DATE
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**MACTEC**

Well Construction Details and  
 Log of Boring MW-0U2-30-180  
 OUCTP  
 RI/FS  
 Fort Ord, California

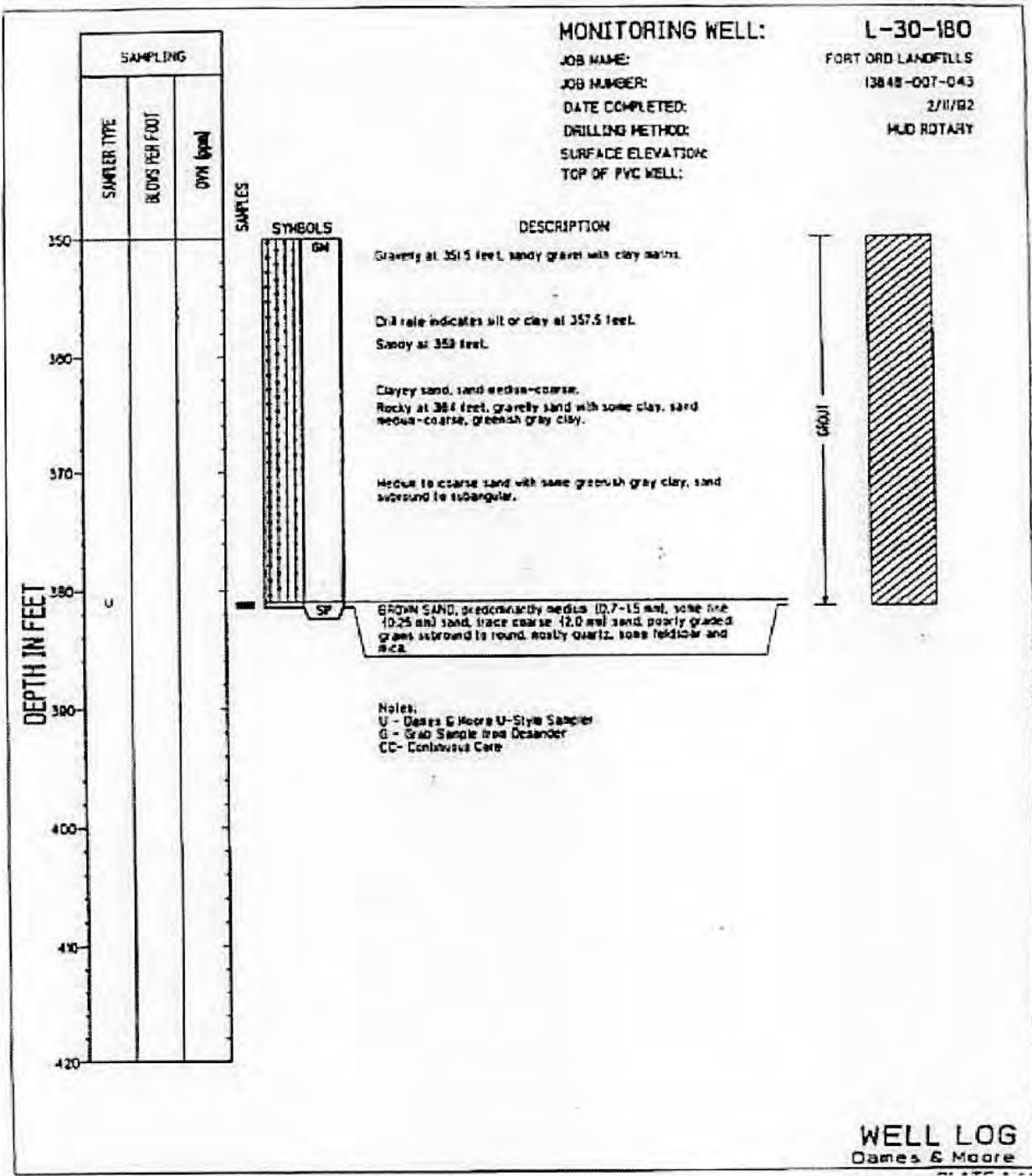
PLATE

# A14

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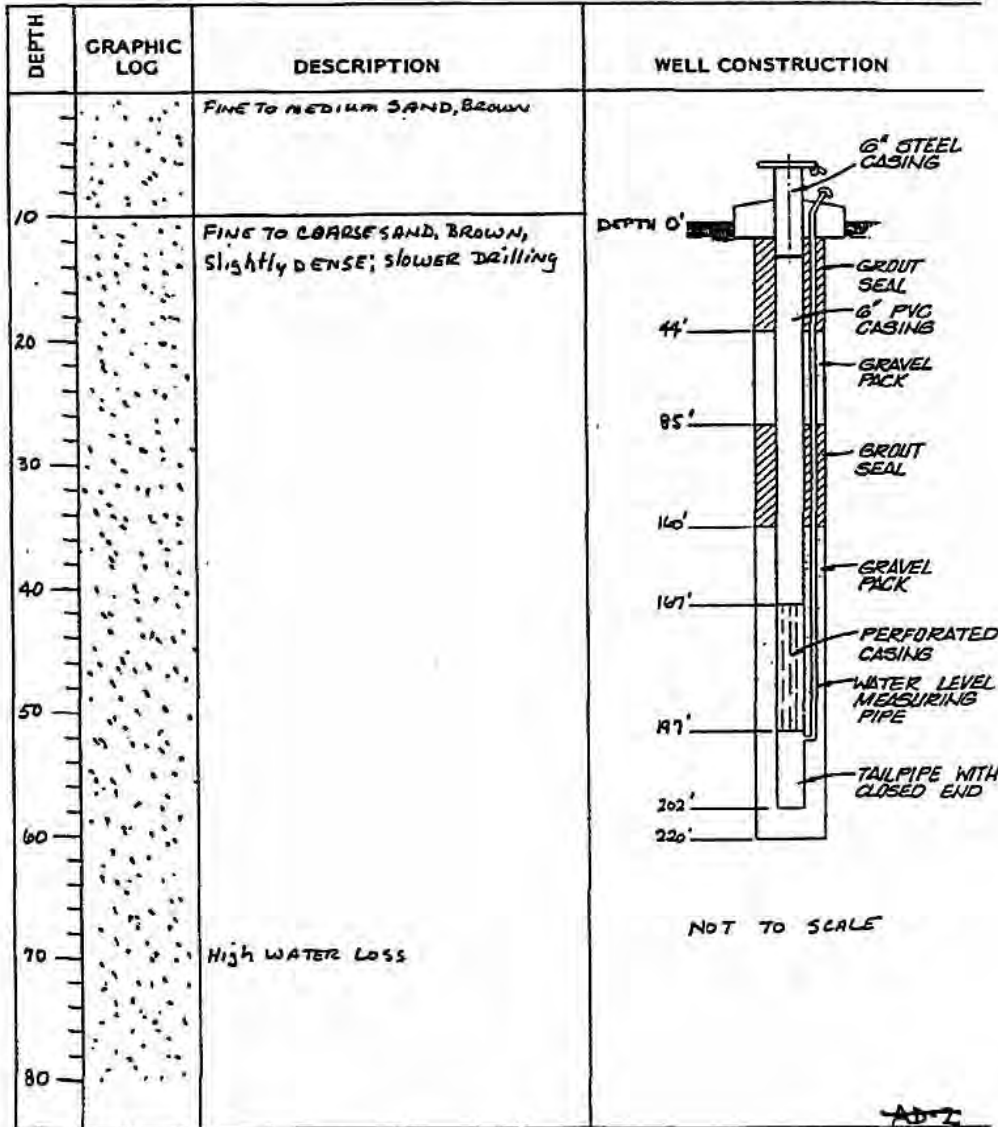
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
JFT	55596 00171	<i>MDT / km</i>	1/05	

Page 5 of 6



DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCHE AIRFIELD ELEVATION R.P. 143.30  
 PROJECT NO M1005.B1 BORING NO AD-2 WATER LEVEL ELEV. 10.3'  
 DRILLER Jim ALLEN GEOLOGIST Alex. TUIA TIME DATE: 4/10/77  
 BEGUN 0815 12/6/76 COMPLETED 1730 (TIME DATE) 12/6/76 TOTAL DEPTH 220 ft.  
**MW-B-13-180**



Well Construction Details and  
 Log of Boring MW-B-13-180  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE

**A15**

DRAWN  
MBP

JOB NUMBER  
55596 00171





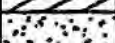

APPROVED  
*MBT / cm*

DATE  
12/04

REVISED DATE

DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCHE AIRFIELD ELEVATION R.P. 143.86  
 PROJECT NO. MINDS.B1 BORING NO. AD-2 WATER LEVEL ELEV 10.39  
 DRILLER Jim ALLEN GEOLOGIST ALEX TULLA (TIME DATE) 4/14/77  
 BEGUN 0815 12/6/76 COMPLETED 1730 (TIME/DATE) 12/4/76 TOTAL DEPTH 220ft  
MW-B-G-180

DEPTH	GRAPHIC LOG	DESCRIPTION	WELL CONSTRUCTION
90		FINE TO COARSE SAND, BROWN, slightly DENSE; slow drilling.	
95		CLAY, GRAY, STIFF, DENSE; slow drilling	
100			
110			
120			
130			
135		CLAYEY SAND, BROWNISH GRAY, slightly DENSE	
140			
145		CLAY, GRAY, STIFF, DENSE	
150			
154		COARSE SAND, BROWN, slightly DENSE	
157		CLAY, GRAY, STIFF, DENSE	
160			

AD-2




Well Construction Details and  
 Log of Boring MW-B-13-180  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE

**A15**

DRAWN  
 MBP

JOB NUMBER  
 55596 00171


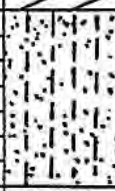

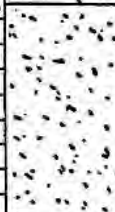
APPROVED  


DATE  
 12/04

REVISED DATE

DRILLING LOG

CLIENT FORT ORD LOCATION FRITSCHE AIRFIELD ELEVATION R.P. 193.82  
 PROJECT NO. MIDOSBI BORING NO. AD-2 WATER LEVEL LEV. 10.3'  
 DRILLER Jim ALLEN GEOLOGIST ALEX TUIA (TIME DATE) 4/19/77  
 BEGUN OBIS 12/6/76 COMPLETED 1730 (TIME DATE) 12/6/76 TOTAL DEPTH 226 ft.  
MW-B-13-180

DEPTH	GRAPHIC LOG	DESCRIPTION	WELL CONSTRUCTION
170		CLAY, GRAY, ST. FT., DENSE	
170 180		SILTY SAND, BROWNISH GRAY, SLIGHTLY DENSE	
180 192		COARSE TO MEDIUM SAND, BROWN; EASY DRILLING.	
200 203		FINE TO MEDIUM SAND, BROWN, SLIGHTLY DENSE.	
210 220 230		Bottom of Hole  NOTE: 12/7/76 Hole sloughed to 200 ft, REDRILLED TO 230ft. Sloughed Again to 204 ft.	

AD-2



Well Construction Details and  
 Log of Boring MW-B-13-180  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE

**A15**

DRAWN  
MBP

JOB NUMBER  
55596 00171

APPROVED  
MDT / *Jim*

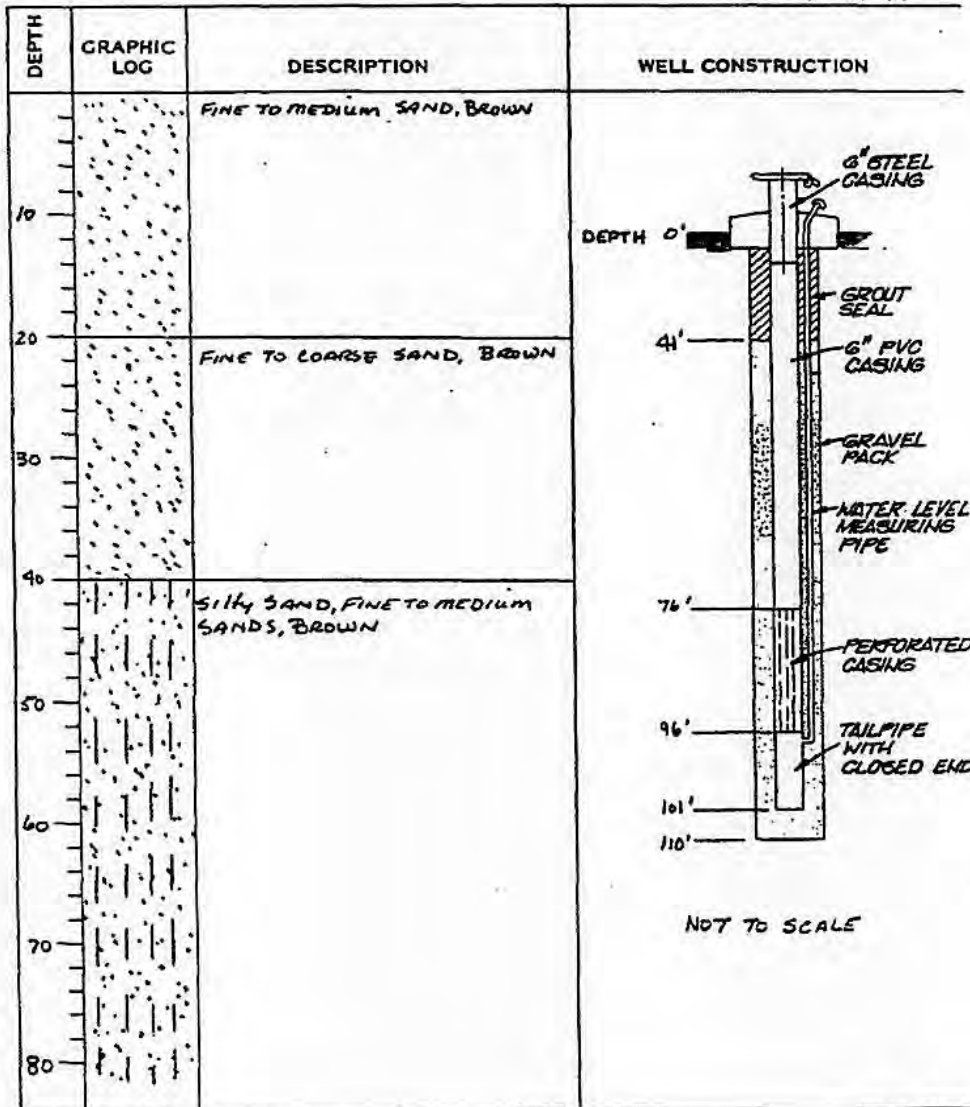
DATE  
12/04

REVISED DATE



DRILLING LOG

CLIENT FORT ORD LOCATION FRISSAHE AIRFIELD ELEVATION R.P. 199.37  
 PROJECT NO M1005.B1 BORING NO. AS-B WATER LEVEL ELEV. 61.77  
 DRILLER Jim ALLEN GEOLOGIST ALEX. TWA (TIME DATE) 5/19/77  
 BEGUN 1400 12/9/76 COMPLETED 1630 (TIME DATE) 12/9/76 TOTAL DEPTH 16 ft.  
MW-B-14-A



NOT TO SCALE

AS-8



Well Construction Details and  
 Log of Boring MW-B-14-A  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

PLATE

**A16**

DRAWN: MBP      JOB NUMBER: 55596 00171      APPROVED: *[Signature]*      DATE: 12/04      REVISED DATE:



Top of PVC Casing  
Elev. 148.88 ft.

Completion Date 8/5/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 147.41 Hole Dia. 10 in.  
 Northing 2140967.3447 Easting 5747954.0859

**GROUND SURFACE**

Top of casing at  
1.5 ft. above  
ground level

5 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.5 to  
76.5 ft.

10 in. DIAMETER  
BOREHOLE: 0 to  
108 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 67 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50  
55  
60

VERY DARK GRAYISH BROWN POORLY  
GRADED SAND WITH SILT (SW) (10YR  
3/2) Loose, dry, 90% fine to coarse sand,  
10% silt, Trace roots

@ 5 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/4) 95% fine to coarse  
sand, 5% silt

@ 8 ft.: Change to YELLOWISH BROWN  
(10YR 5/4) 100% fine to coarse sand

@ 20 ft.: Change to Decrease in coarse  
sand to 20%

@ 30 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/6) Dry to moist, Increase  
in coarse sand to 30%

@ 45 ft.: Change to Moist

YELLOWISH BROWN WELL GRADED  
SAND (SW) (10YR 5/6) Loose, Dry to moist,  
100% fine to medium sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/17/05



**MACTEC**

**Well Construction Details and  
Log of Boring MW-BW-15-A**  
OUCTP

PLATE

Fort Ord, California

**A17**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

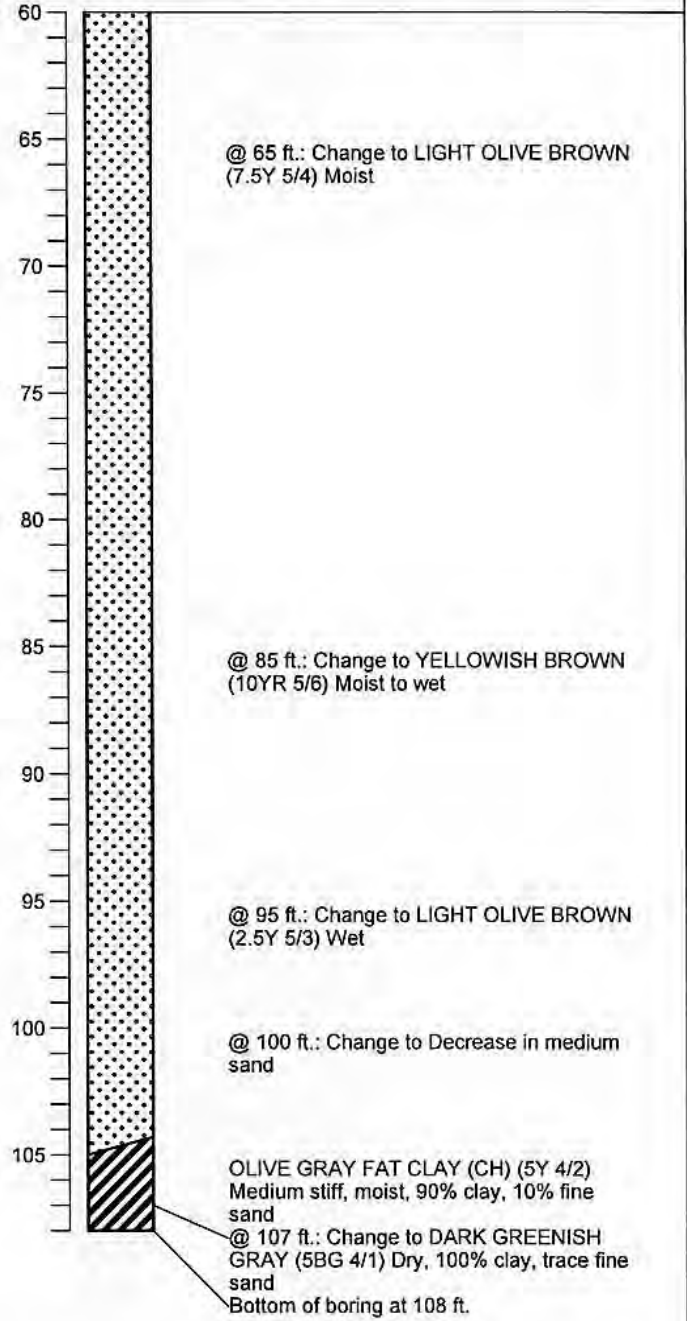
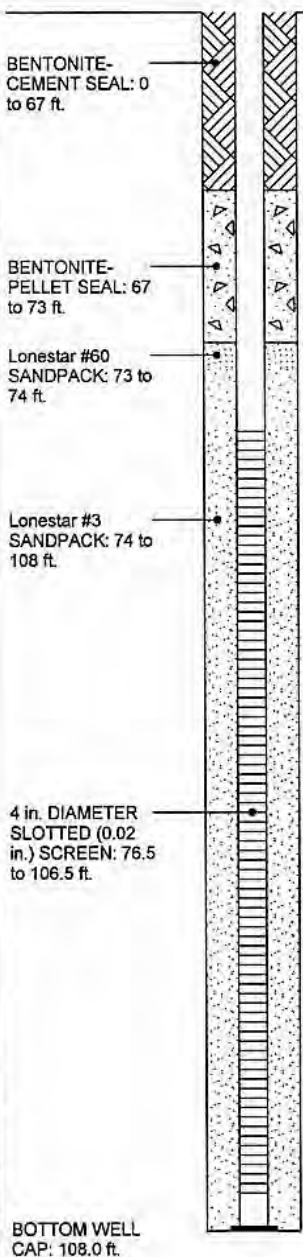
*MDT Jan*

DATE  
1/05

REVISED DATE

Completion Date 8/5/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 147.41 Hole Dia. 10 in.  
 Northing 2140967.3447 Easting 5747954.0859

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

**MACTEC** Well Construction Details and Log of Boring MW-BW-15-A PLATE  
 OUCTP Fort Ord, California **A17**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 1/05	REVISED DATE
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Top of PVC Casing  
Elev. 135.61 ft.

Completion Date 8/6/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 132.94 Hole Dia. 10 in.  
 Northing 2140631.4149 Easting 5749294.1578

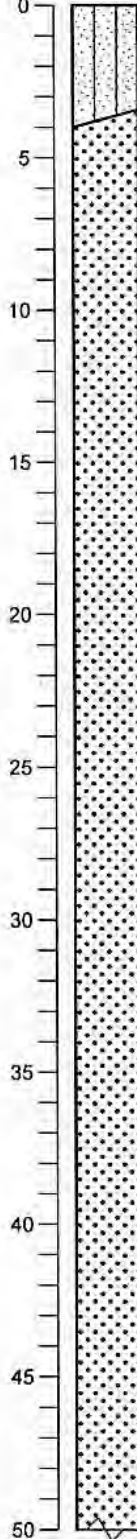
GROUND SURFACE  
Top of casing at  
2.7 ft. above  
ground level

5 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.5 to  
66 ft.

10 in. DIAMETER  
BOREHOLE: 0 to  
97 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 57 ft.

Depth (ft.)  
Sample



BROWN SILTY SAND (SM) (10YR 4/3)  
Loose, dry, 85% fine to coarse sand, 15% silt

DARK BROWN WELL GRADED SAND (SW) (10YR 3/3) Loose, dry, 95% fine to coarse sand, 5% silt

@ 7 ft.: Change to BROWN (10YR 5/3)

@ 10 ft.: Change to YELLOWISH BROWN (10YR 5/4) 100% fine to coarse sand

@ 15 ft.: Change to BROWNISH YELLOW (10YR 6/6)

@ 25 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) Moist

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
Log of Boring MW-BW-16-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A18**

DRAWN  
MBP

JOB NUMBER  
55596 001701

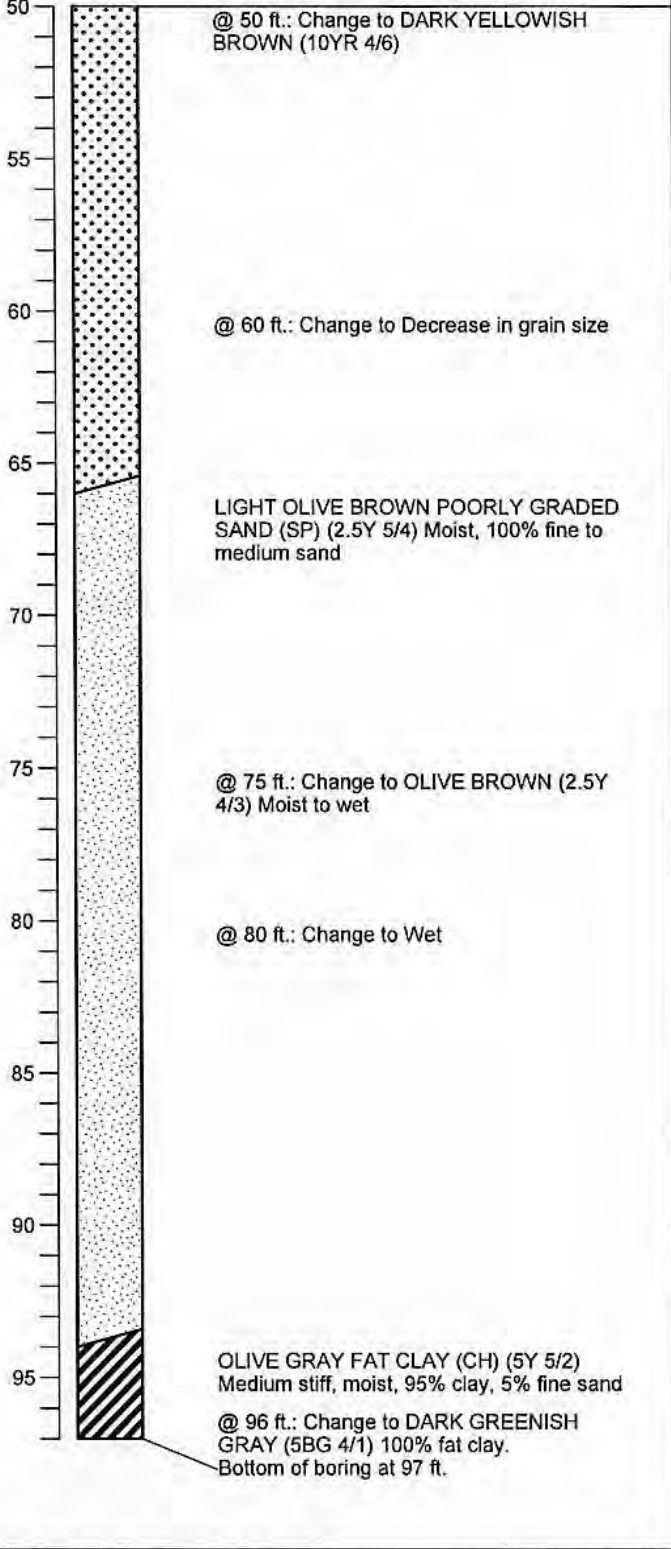
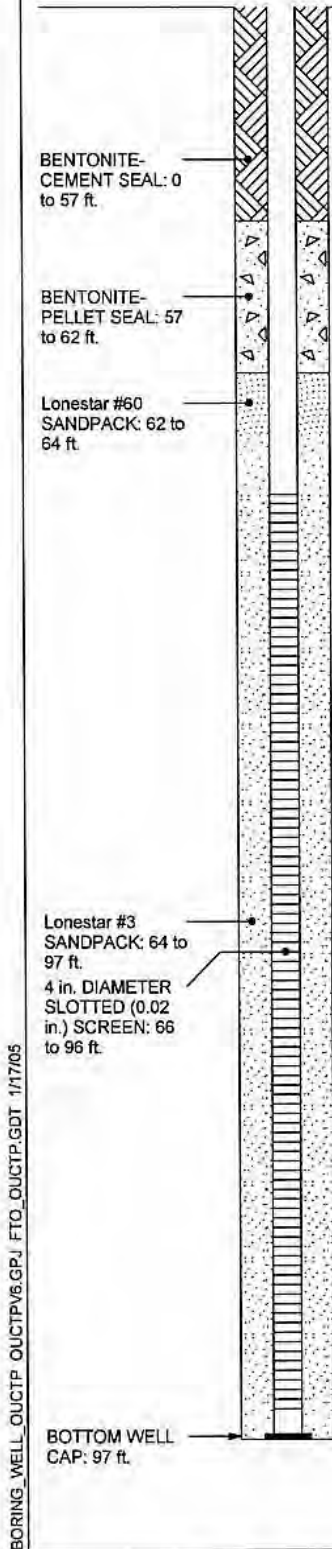
APPROVED  
*MBT*

DATE  
1/05

REVISED DATE



Completion Date 8/6/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 132.94 Hole Dia. 10 in.  
 Northing 2140631.4149 Easting 5749294.1578



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

**Well Construction Details and Log of Boring MW-BW-16-A** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

**A18**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / am*

DATE  
1/05

REVISED DATE

Top of PVC Casing  
Elev. 144.99 ft.

Completion Date 7/29/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 142.65 ft. Hole Dia. 10 in.  
 Northing 2140496.7601 Easting 5747900.6608

**GROUND SURFACE**

Top of casing at  
2.3 ft. above  
ground level

5 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.5 to  
68 ft.

10 in. DIAMETER  
BOREHOLE: 0 to  
98 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 57 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50

BROWN SILTY SAND (SM) (10YR 4/3)  
Loose, dry, 85% fine to coarse sand, 15%  
silt, Trace roots

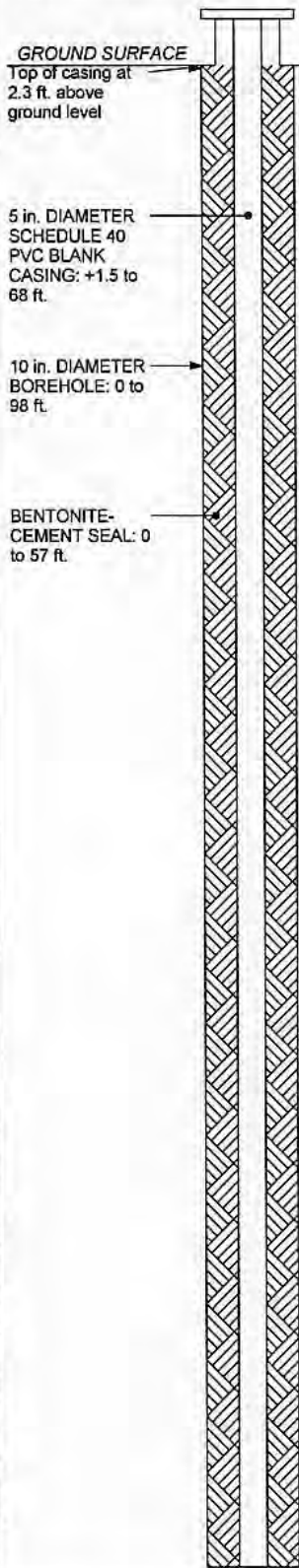
OLIVE BROWN WELL GRADED SAND  
(SW) (2.5Y 4/3) Loose, dry, 95% fine to  
coarse sand, 5% silt  
@ 5 ft: Change to LIGHT OLIVE BROWN  
(2.5Y 5/3)

@ 10 ft: Change to YELLOWISH BROWN  
(10YR 5/6), 100% fine to coarse sand

@ 25 ft: Change to YELLOWISH BROWN  
(10YR 5/4)

@ 35 ft: Change to LIGHT OLIVE BROWN  
(2.5Y 5/4) Moist

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
Log of Boring MW-BW-17-A**

PLATE



**MACTEC**

Fort Ord, California

**A19**

DRAWN  
MBP

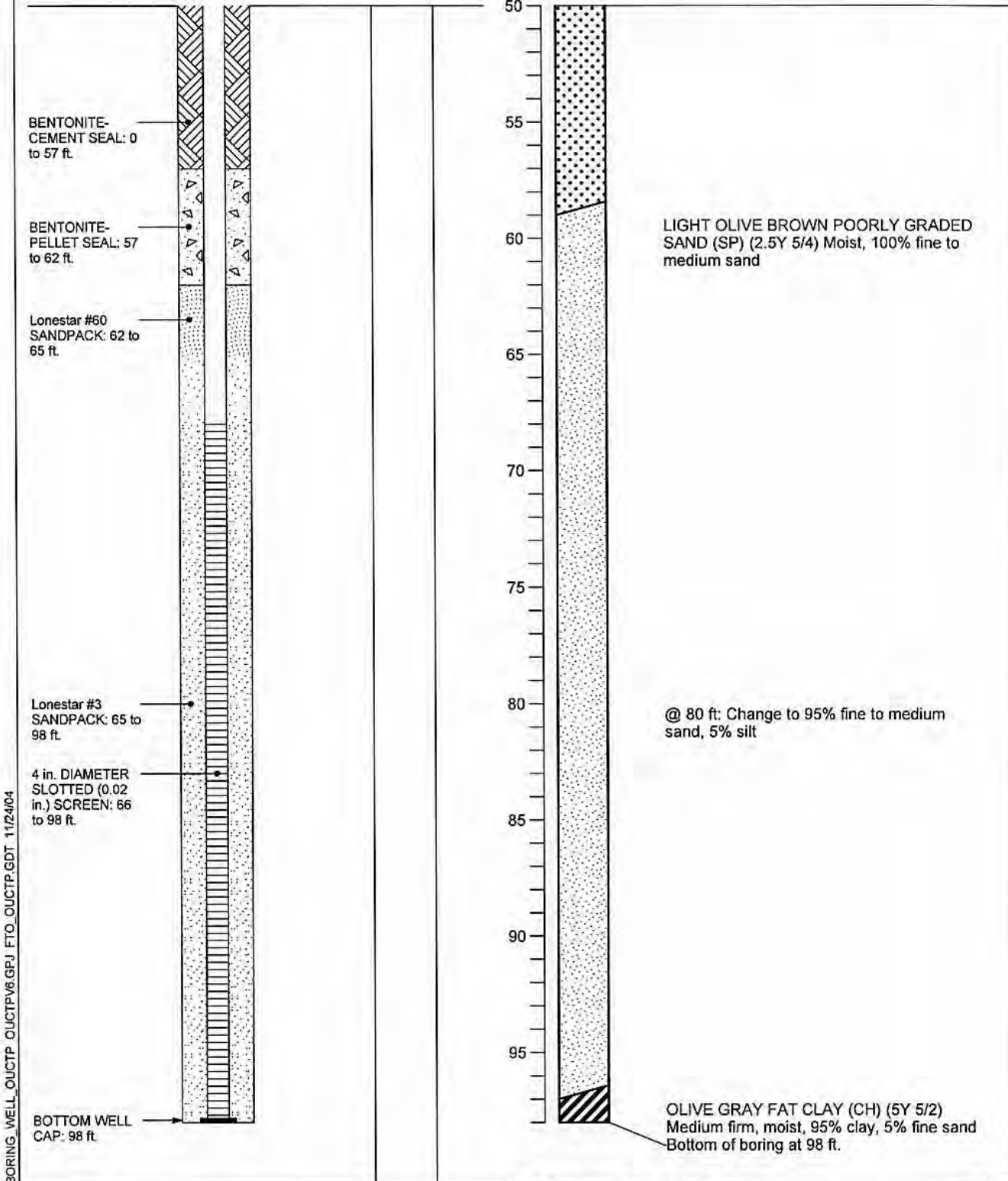
JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

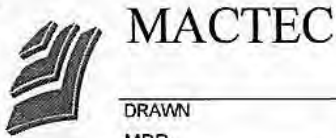
REVISED DATE

Completion Date 7/29/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 142.65 ft. Hole Dia. 10 in.  
 Northing 2140496.7601 Easting 5747900.6608



BORING\_WELL\_OUCTP\_OUCTPv6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-17-A** PLATE  
 OUCTP



Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/can</i>	11/04	

**A19**

Top of PVC Casing  
Elev. 128.52 ft.

Completion Date 7/20/1998  
Drilling Method ARCH/mud rotary  
Logged by \_\_\_\_\_  
Surface Elevation 126.44 Hole Dia. 10 in.  
Northing 2140319.6973 Easting 5746759.0654

GROUND SURFACE  
Top of casing at  
2.1 ft. above  
ground level

5 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.5 to  
65 ft.

10 in. DIAMETER  
BOREHOLE: 0 to  
97 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 52 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50

DARK BROWN SILTY SAND (SM) (7.5YR 3/2) Loose, moist, 80% fine to coarse sand, 20% silt

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, moist, 95% fine to coarse sand, 5% silt

@ 15 ft.: Change to 100% fine to coarse sand

@ 20 ft.: Change to BROWNISH YELLOW (10YR 6/6)

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/4) Loose, dry, 95% fine to medium sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
Log of Boring MW-BW-18-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A20**

DRAWN  
MBP

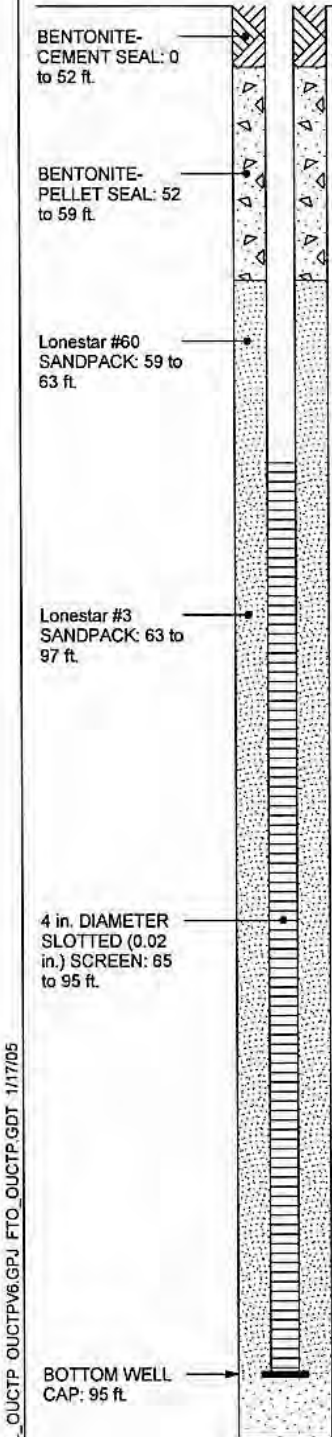
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APPROVED  
*MDT / cur*

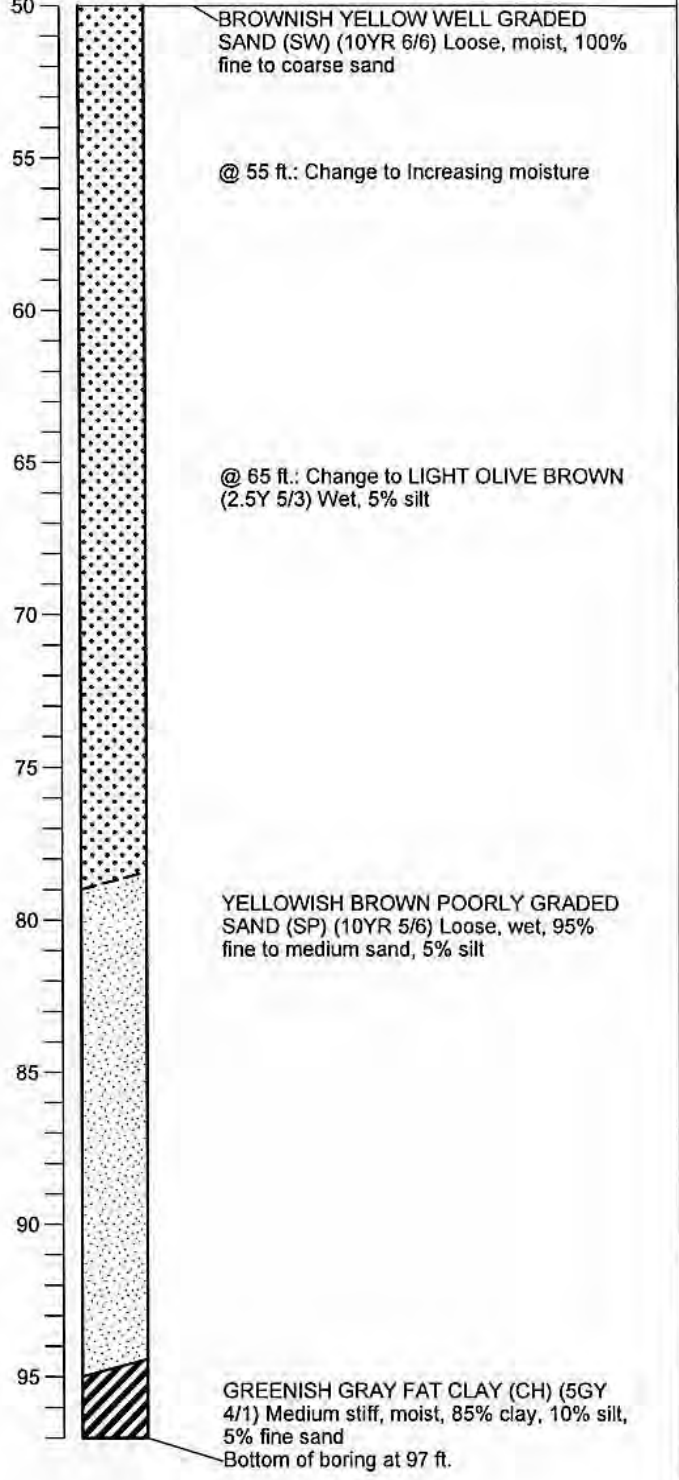
DATE  
1/05

REVISED DATE

Completion Date 7/20/1998  
 Drilling Method ARCH/mud rotary  
 Logged by \_\_\_\_\_  
 Surface Elevation 126.44 Hole Dia. 10 in.  
 Northing 2140319.6973 Easting 5746759.0654



Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

Well Construction Details and Log of Boring MW-BW-18-A  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A20**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	1/05	



Top of PVC Casing  
Elev. 125.14 ft.

Completion Date 7/15/1998  
Drilling Method ARCH/mud rotary  
Logged by D. Browne  
Surface Elevation 126.66 ft. Hole Dia. 10 in.  
Northing 2140305.192 Easting 5746763.564

GROUND SURFACE

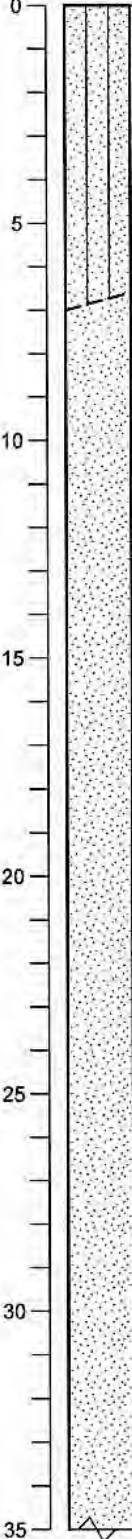
Top of casing at  
1.0 ft. above  
ground level

10 in. DIAMETER  
BOREHOLE: 0 to  
186 ft.

5 INCH  
DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: 0 to 160  
ft.

BENTONITE-  
CEMENT SEAL: 0  
to 144 ft.

Depth (ft.)  
Sample



GRAYISH BROWN SILTY SAND (SM) (5Y 5/2) Loose, dry, 55% fine to coarse sand, 35% silt, trace roots, fine gravel

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 100% fine to coarse sand

@ 15 ft.: Similar to above

@ 20 ft.: Change to BROWNISH YELLOW (10YR 6/6) Moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FOTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-19-180  
OUCTP

PLATE



Fort Ord, California

**A21**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cur*

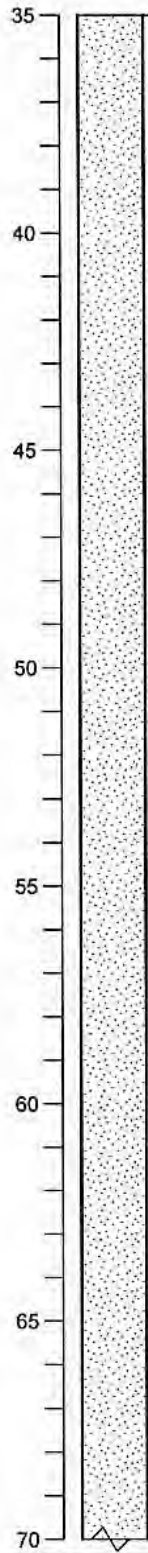
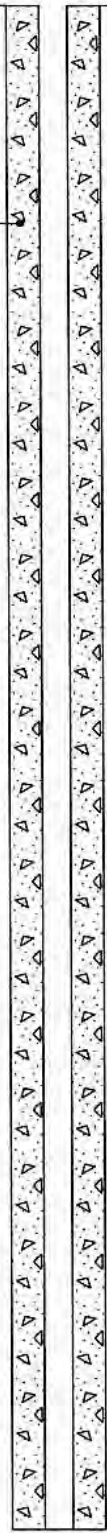
DATE  
11/04

REVISED DATE

Completion Date 7/15/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 126.66 ft. Hole Dia. 10 in.  
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)  
Sample

BENTONITE-  
CEMENT SEAL: 0  
to 144 ft.



@ 35 ft.: Similar to above

@ 38 ft.: Decrease in coarse grained sand

@ 45 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 50 ft.: Change to 95% fine to coarse sand, 5% silt, increase in moisture

@ 55 ft.: Change to BROWNISH YELLOW (10YR 6/6) Loose, moist, increasing moisture

@ 60 ft.: Similar to above

@ 65 ft.: Change to Moist to wet

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-19-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

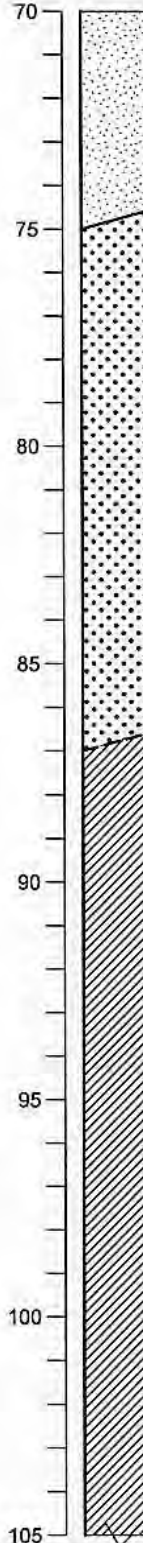
**A21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / <i>lcm</i>	11/04	

Completion Date 7/15/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 126.66 ft. Hole Dia. 10 in.  
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)  
Sample

BENTONITE-  
CEMENT SEAL: 0  
to 144 ft.



@ 70 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) Loose, moist to wet

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, wet, 80% fine sand, 20% medium sand

@ 80 ft.: Change to Wet

@ 85 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6) Loose, wet

DARK GREENISH GRAY LEAN CLAY (CL) (5Y 4/1) Stiff, moist, 80% clay, 20% silt

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
Log of Boring MW-BW-19-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A21**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cm*

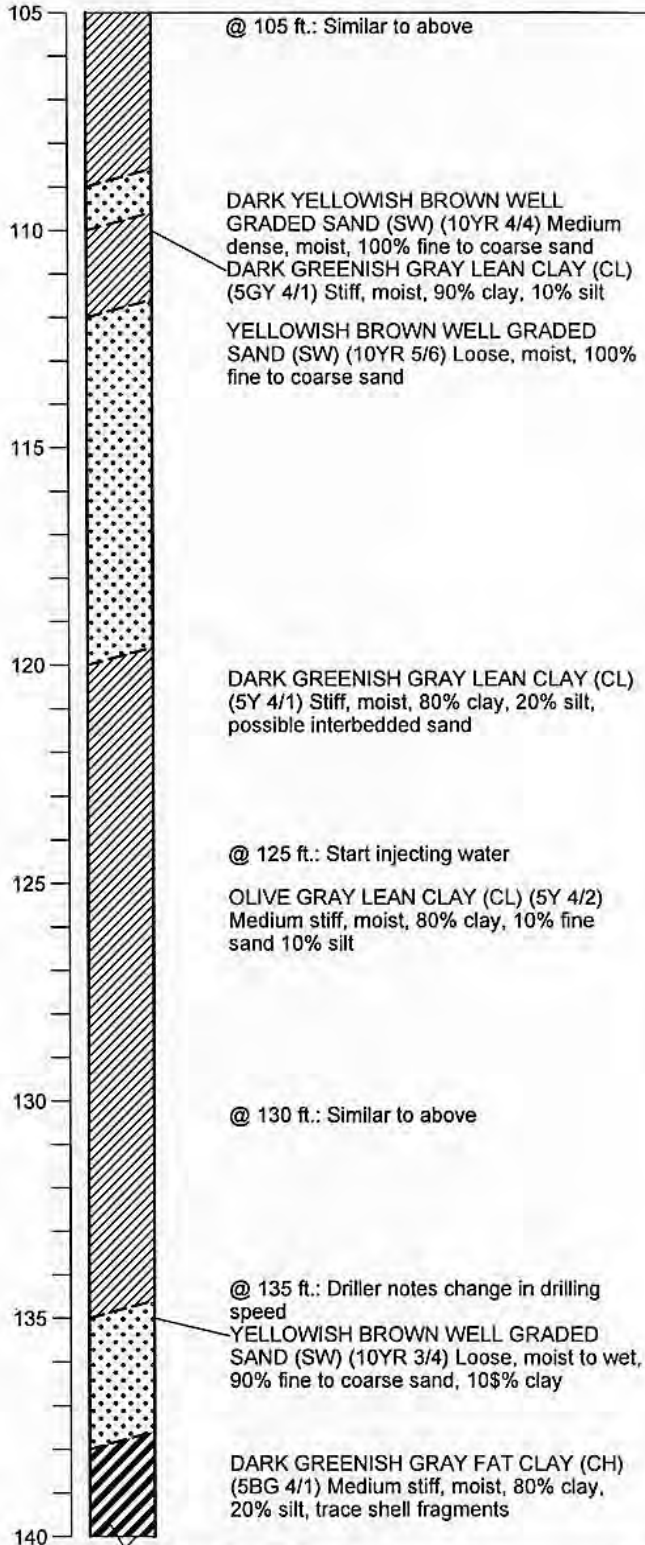
DATE  
11/04

REVISED DATE

Completion Date 7/15/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 126.66 ft. Hole Dia. 10 in.  
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)  
Sample

BENTONITE-  
CEMENT SEAL: 0  
to 144 ft.



BORING\_WELL\_OUCTP\_V6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-19-180  
OUCTP

PLATE



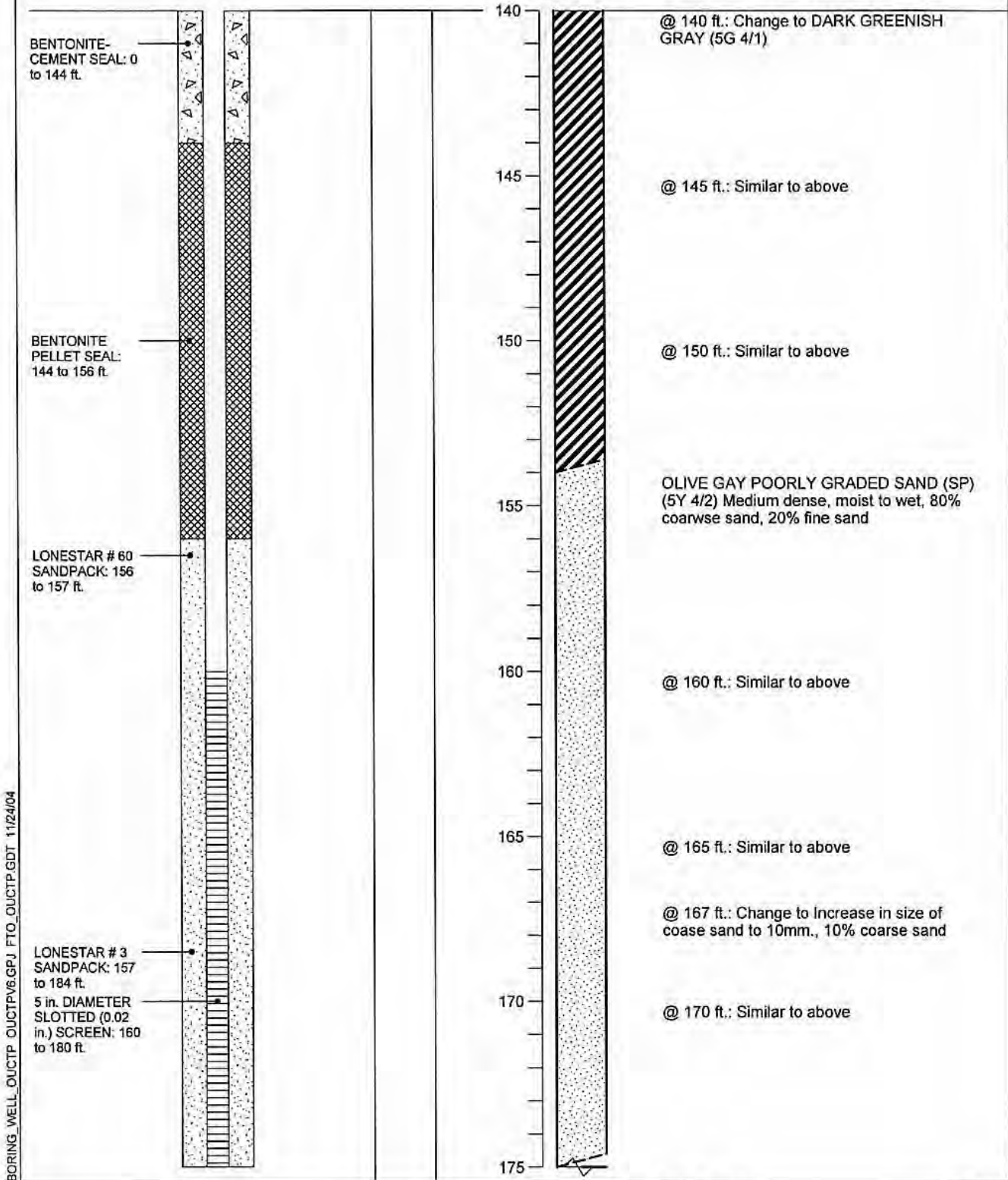
MACTEC

Fort Ord, California

**A21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / <i>com</i>	11/04	

Completion Date 7/15/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 126.66 ft. Hole Dia. 10 in.  
 Northing 2140305.192 Easting 5746763.564



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-19-180  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

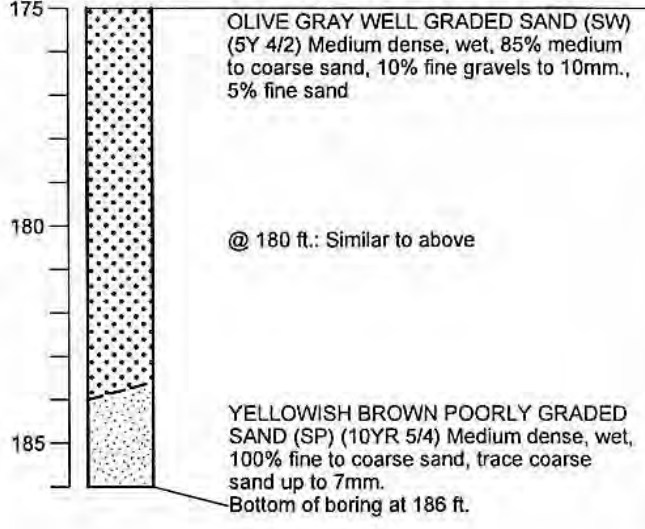
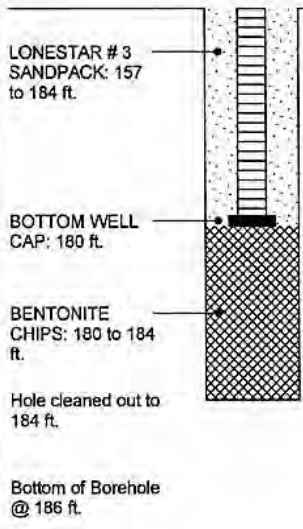
**A21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / <i>um</i>	11/04	



Completion Date 7/15/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 126.66 ft. Hole Dia. 10 in.  
 Northing 2140305.192 Easting 5746763.564

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-19-180  
OUCTP

PLATE



Fort Ord, California

**A21**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MST / cm</i>	11/04	

Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Top of PVC Casing  
 Elev. 124.91 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. below  
 ground level

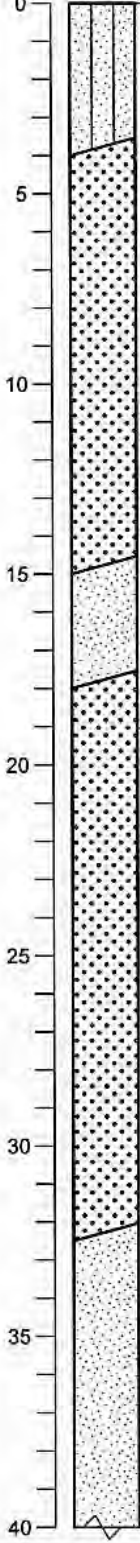
7 in. DIAMETER  
 BOREHOLE: 0 to  
 258.5 ft.

3 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: -0.5 to  
 248 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 199 ft.

Depth (ft.)  
 Sample



VERY DARK GRAYISH BROWN SILTY SAND (SM) (10YR 3/2) Loose, moist, 80% fine to coarse sand, 20% silt  
 @ 2 ft.: Change to DARK GRAYISH BROWN (10YR 4/2) Gradational contact to 4 ft.  
 BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/6) Loose, dry, 90% fine to coarse sand, 10% silt  
 @ 6 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 @ 10 ft.: Change to 95% fine to coarse sand, 5% silt  
 @ 11.5 ft.: Similar to above  
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 95% fine to medium sand, 5% silt  
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt  
 @ 19 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/3) Note: Skin appears to be on core surface @ 19 ft.  
 @ 23 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)  
 @ 25 ft.: Change to BROWNISH YELLOW (10YR 6/6)  
 @ 28 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/3)  
 @ 30 ft.: Change to PALE OLIVE (5Y 6/3)  
 OLIVE YELLOW POORLY GRADED SAND (SP) (2.5Y 6/6) Loose, dry, 95% fine to medium sand, 5% silt  
 @ 35 ft.: Change to YELLOWISH BROWN (10YR 5/4)  
 @ 38 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4)

BORING - WELL - OUCTP - OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-19-180R**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A22**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

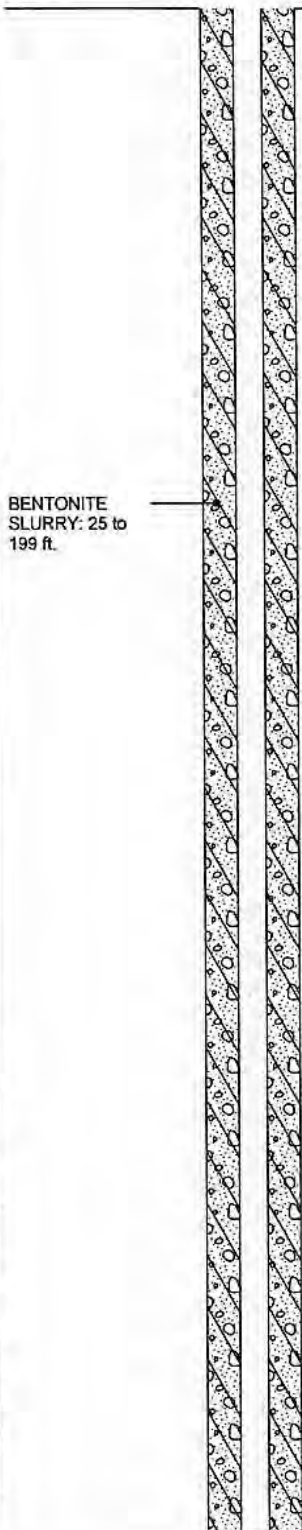
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*MDT / cur*

DATE  
 11/04

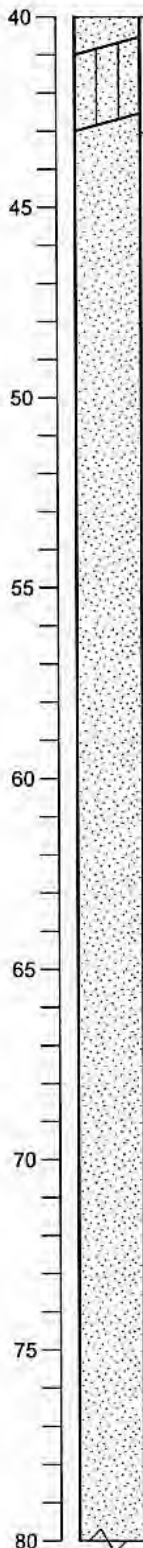
REVISED DATE

Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 199 ft.



LIGHT OLIVE BROWN SILTY SAND (SM)  
 (2.5Y 5/3) Medium dense, dry, 80% fine to  
 medium sand, 20% silt, Visible bedding  
 planes of various colors, gray, white  
 STRONG BROWN POORLY GRADED  
 SAND (SP) (7.5YR 5/6) Loose, dry, 90%  
 fine to medium sand, 10% silt

@ 47 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 50 ft.: Similar to above

@ 55 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6)

@ 57 ft.: Similar to above

@ 62 ft.: Change to LIGHT YELLOWISH  
 BROWN (2.5Y 6/4) Sample lost from 57 to  
 62 ft.

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 71 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/4) Loose, moist, 95% fine to  
 medium sand, 5% silt

@ 72 ft.: Change to Loose, wet

@ 75 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-19-180R  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A22**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

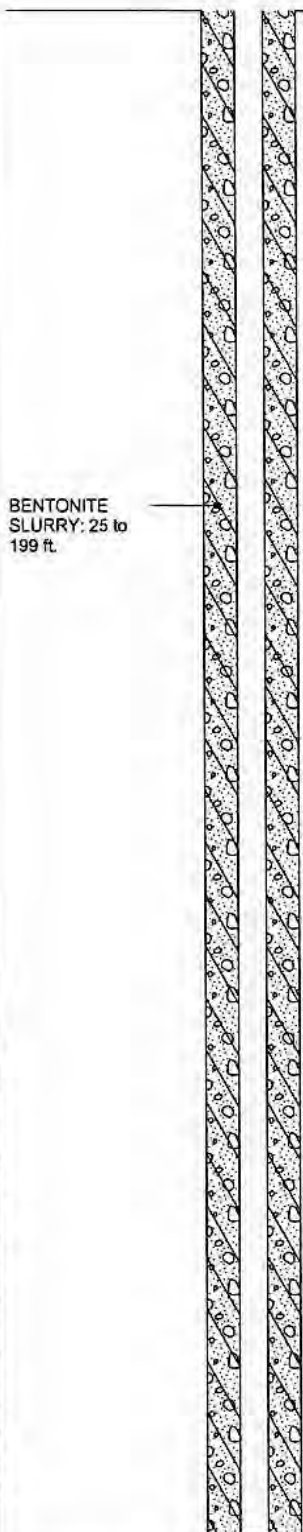
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*MDT/cw*

DATE  
 11/04

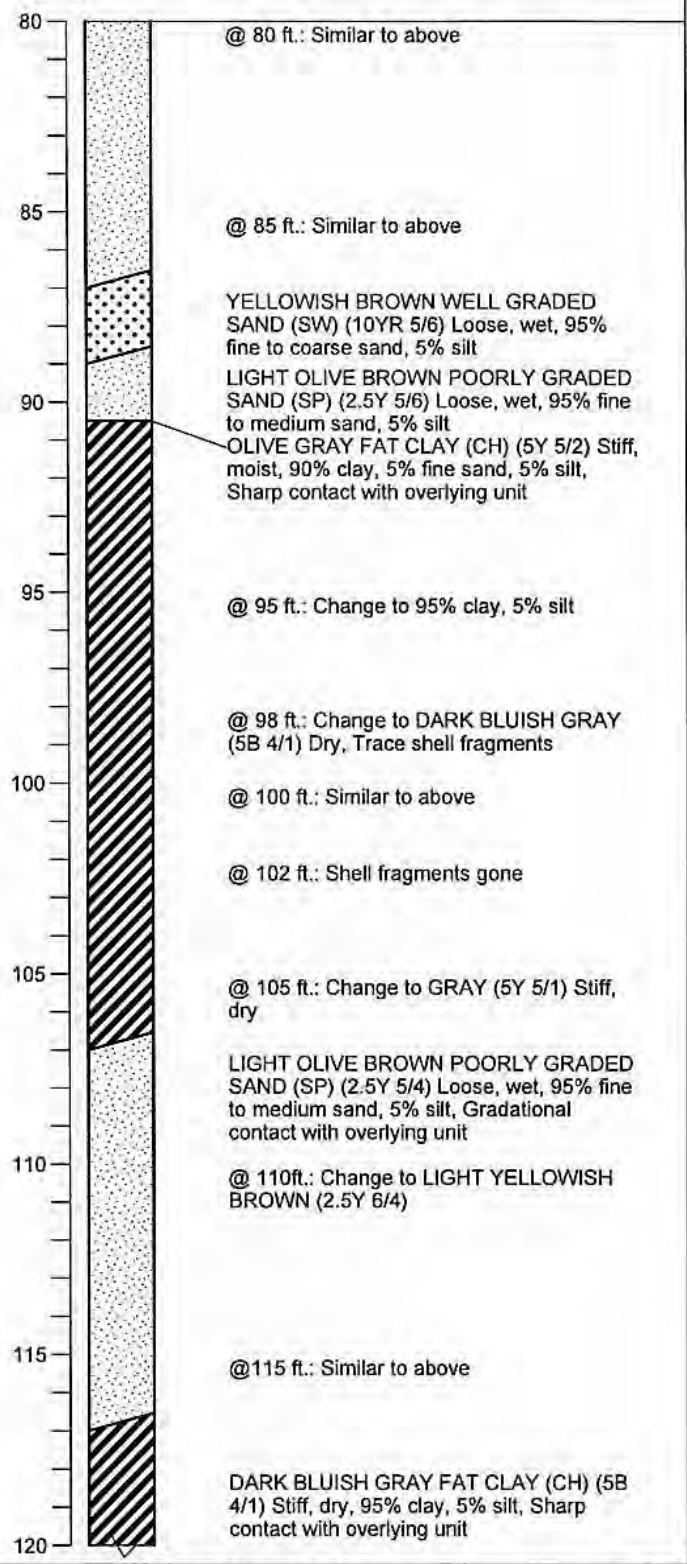
REVISED DATE

Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 199 ft.



BORING\_WELL\_OUCTP\_OUCTPVS.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-19-180R PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

**A22**

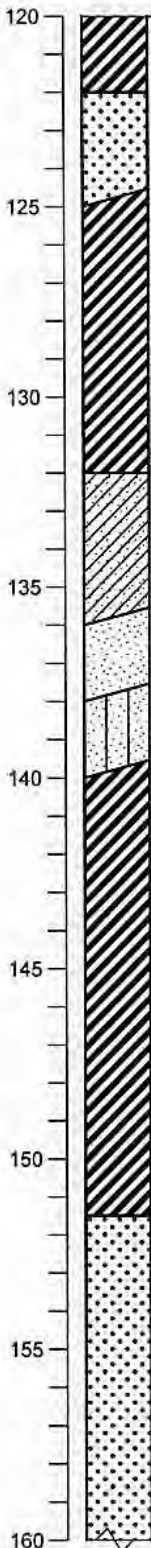
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MBP/cmr</i>	11/04	

Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 199 ft.



LIGHT OLIVE GRAY WELL GRADED SAND (SW) (2.5Y 6/2) Loose, wet, 90% fine to coarse sand, 10% silt, Gradational contact with overlying unit

DARK BLUISH GRAY FAT CLAY (CH) (5B 4/1) Stiff, dry, 95% clay, 5% silt

@ 128 ft.: Change to Trace shell fragments to 12 cm.

@ 130 ft.: Change to Increase in silt to 30%, 5% fine sand, Gradational contact to 131 ft.

DARK BLUISH GRAY CLAYEY SAND (SC) (5B 4/1) Loose, moist, 70% fine to medium sand, 30% clay

DARK BLUISH GRAY POORLY GRADED SAND (SP) (5B 4/1) Loose, moist, 90% fine to medium sand, 10% clay

DARK BLUISH GRAY SILTY SAND (SM) (5B 4/1) Loose, moist, 70% fine to medium sand, 30% silt

DARK BLUISH GRAY FAT CLAY (CH) (5B 4/1) Stiff, dry, 95% clay, 5% silt, Sharp contact with overlying unit

@ 143 ft.: Change to Trace shell fragments

@ 145 ft.: Similar to above

@ 148 ft.: Change to VERY DARK GRAY (5Y 3/1) Increase in silt to 30%, Organics present from 147 to 148 ft.

@ 150 ft.: Change to DARK GREENISH GRAY (5GY 4/1) Gradational contact to 151.5 ft.

PALE OLIVE WELL GRADED SAND (SW) (5Y 6/4) Loose, wet, 90% fine to coarse sand, 10% silt

@ 154 ft.: Change to LIGHT YELLOWISH BROWN WELL GRADED SAND (2.5Y 6/3)

@ 155 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4)

BORING\_WELL\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-19-180R  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A22**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT Jcw*

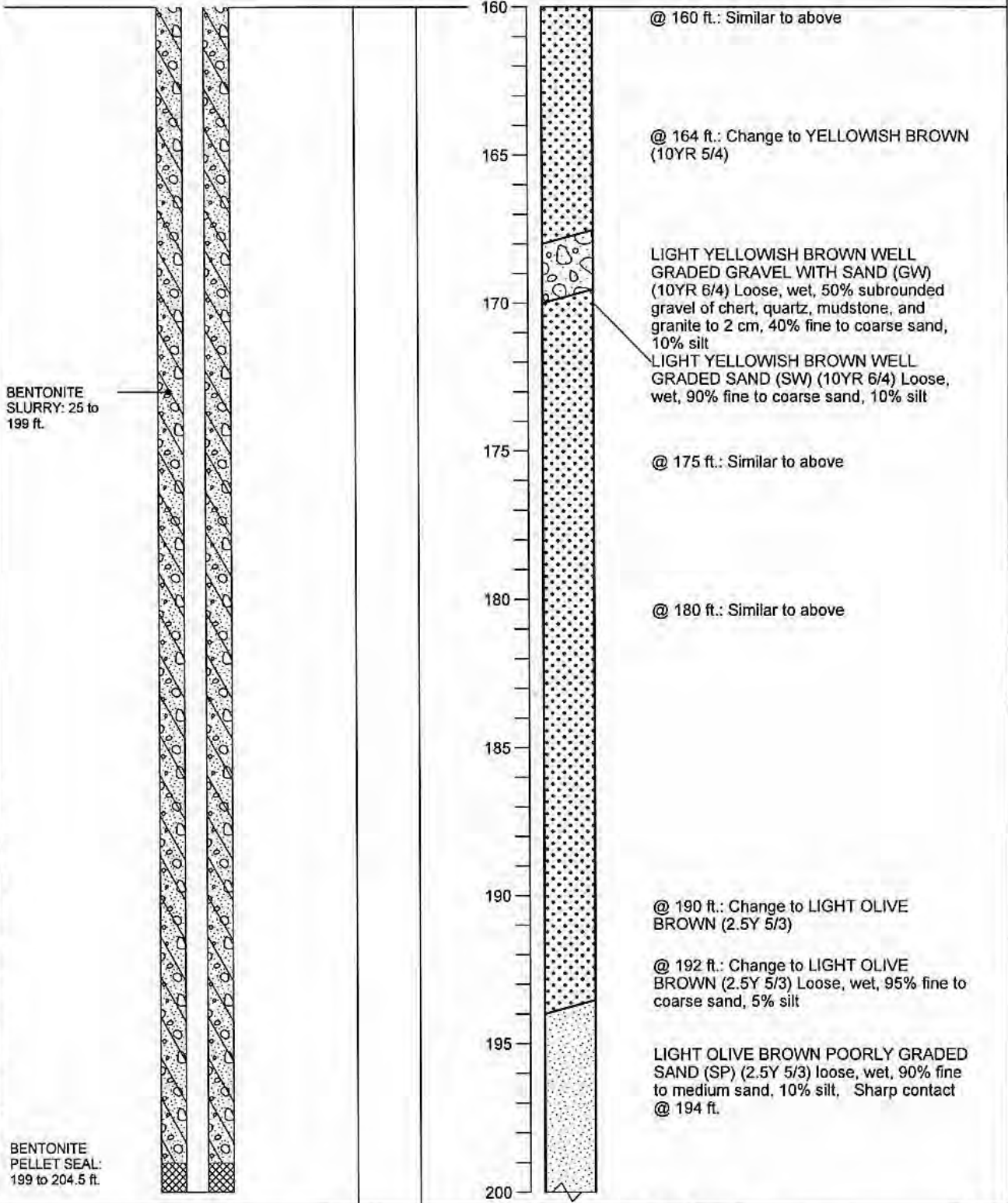
DATE  
 11/04

REVISED DATE



Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-19-180R PLATE  
 OUCTP



MACTEC

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / am</i>	11/04	

**A22**

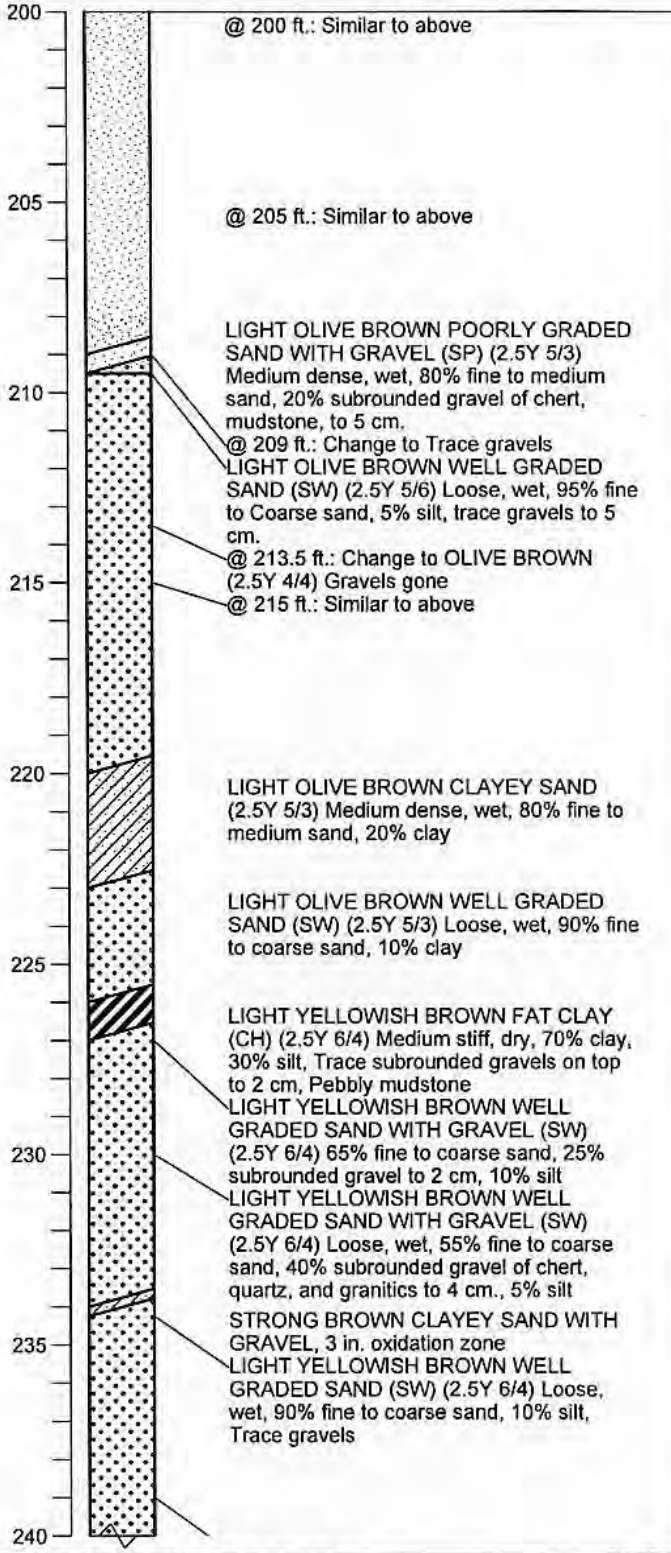
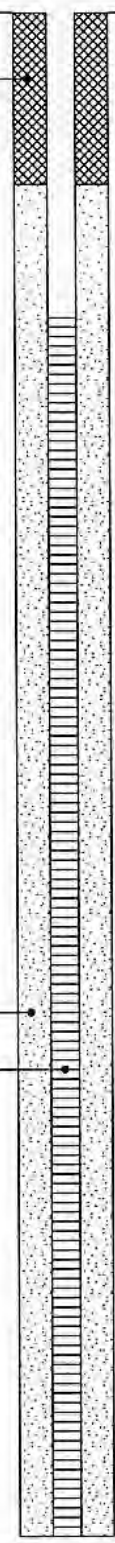
Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
 Sample

BENTONITE  
 PELLET SEAL:  
 199 to 204.5 ft.

LONESTAR # 2/12  
 SANDPACK: 204.5  
 to 248 ft.  
 3 in. DIAMETER  
 SLOTTED (0.02  
 in.) SCREEN: 208  
 to 248 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
 Log of Boring MW-BW-19-180R  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A22**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

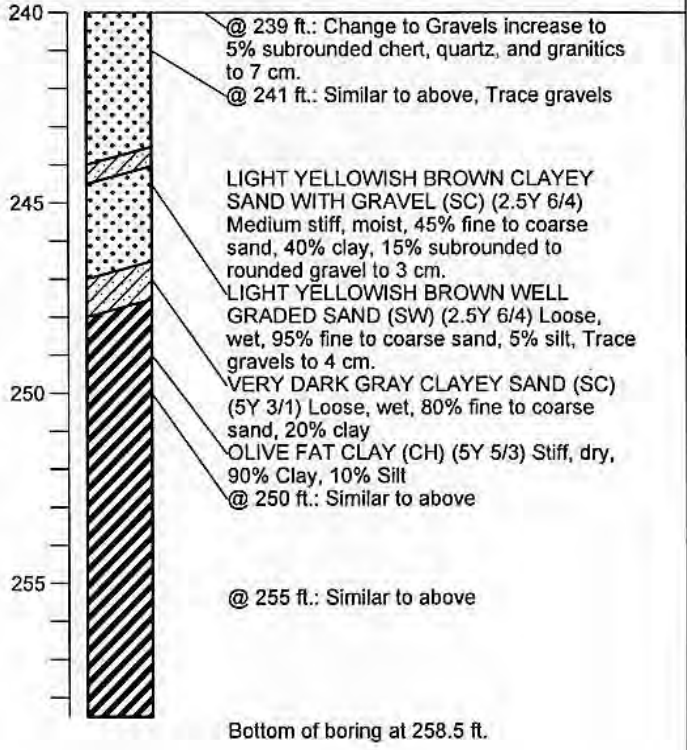
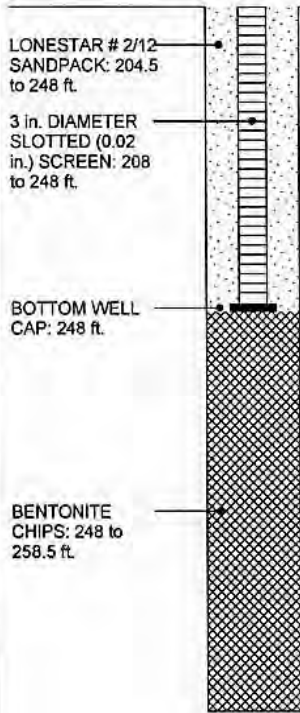
APPROVED  
*MDT/can*

DATE  
 11/04

REVISED DATE

Completion Date 12/18/2002  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 125.53 ft. Hole Dia. 7 in.  
 Northing 2140320.62 Easting 5746734.17

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPv6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-19-180R  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A22**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235

Top of PVC Casing  
 Elev. 146.51 ft.

GROUND SURFACE

Top of casing at  
 2.0 ft. above  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 198 ft.

5 INCH  
 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to  
 177.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 168 ft.

Depth (ft.)  
 Sample

0  
5  
10  
15  
20  
25  
30  
35

DARK BROWN POORLY GRADED SAND  
 WITH SILT (SP) (7.5YR 3/2) Loose, dry,  
 90% fine to coarse sand, 10% silt

@ 5 ft.: Change to BROWN (10YR 4/3)  
 100% fine to coarse sand

@ 10 ft.: Similar to above

@ 12 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) 60% fine sand, 40% coarse  
 sand, decreasing coarse sand

@ 15 ft.: Similar to above

@ 38 ft.: Change to Increase in coarse  
 grained sand (40-50%)

@ 25 ft.: Similar to above

@ 30 ft.: Change to LIGHT YELLOWISH  
 BROWN (10YR 6/4)

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-20-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A23**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

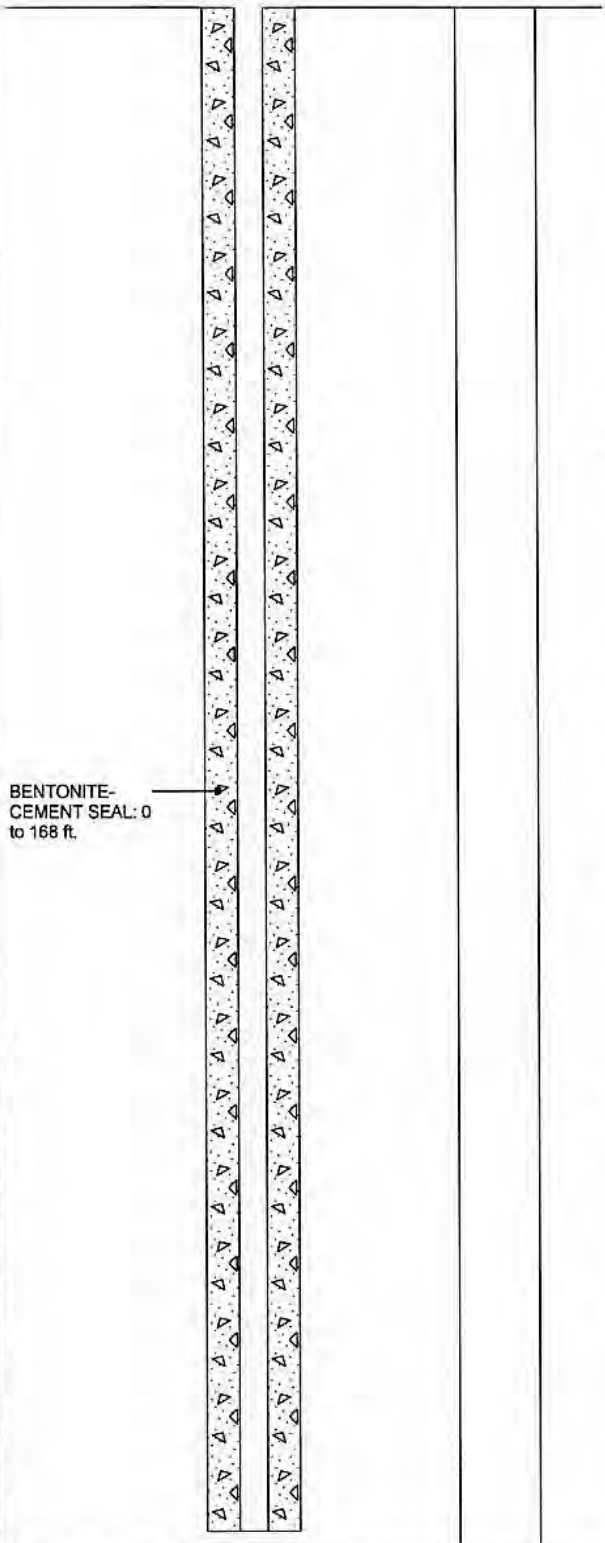
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DATE  
 11/04

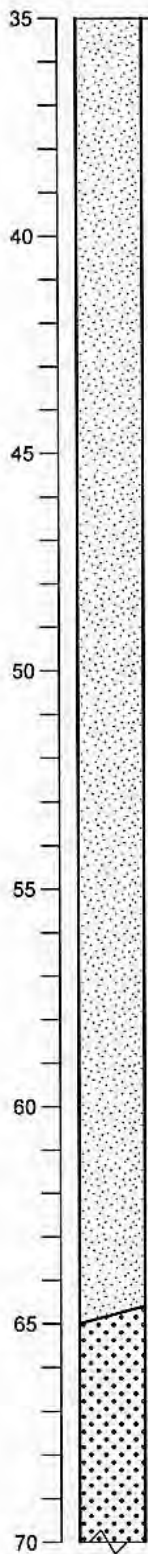
REVISED DATE

Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)  
Sample



BENTONITE-CEMENT SEAL: 0 to 168 ft.



@ 35 ft.: Similar to above

@ 38 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 45 ft.: Change to Increase in coarse sand

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Change to Moist

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4) Loose, moist, 100% fine to medium sand

@ 68 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-20-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A23**

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JOB NUMBER  
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*MDT / JCB*

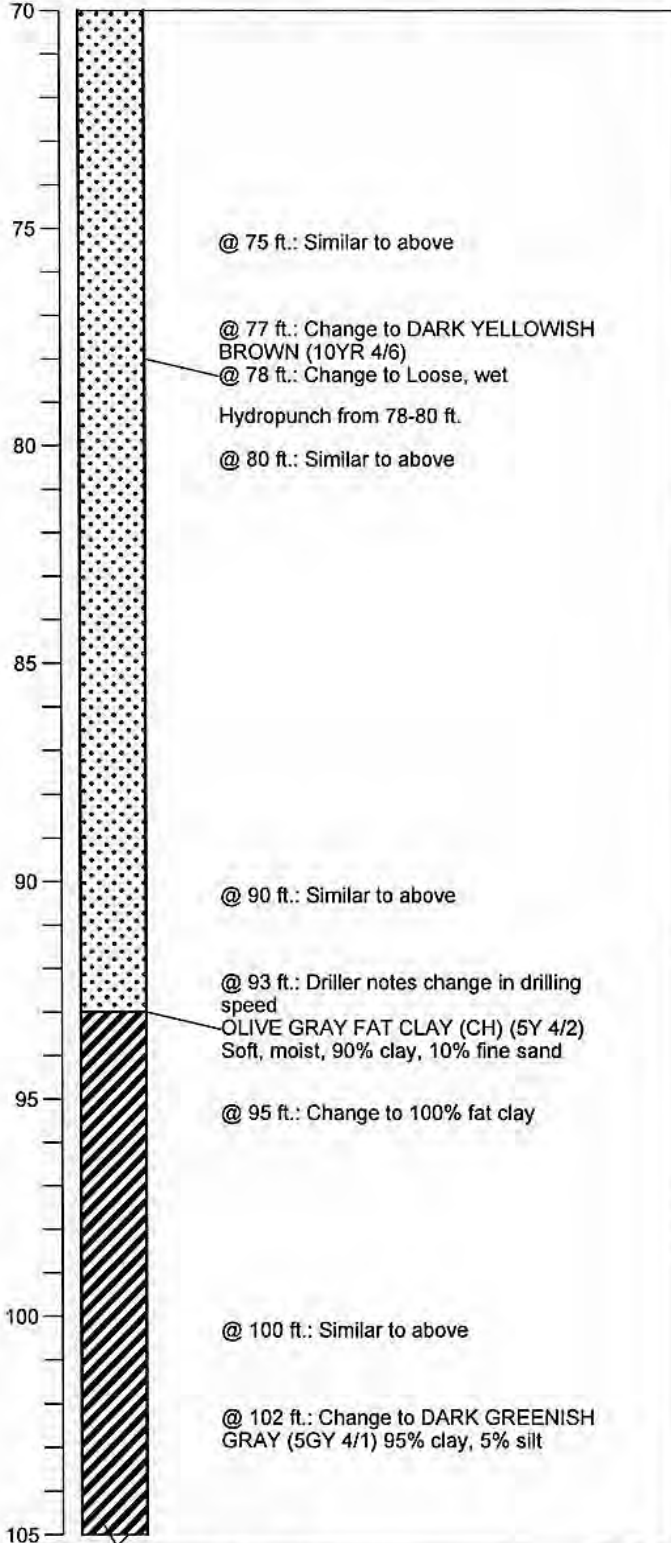
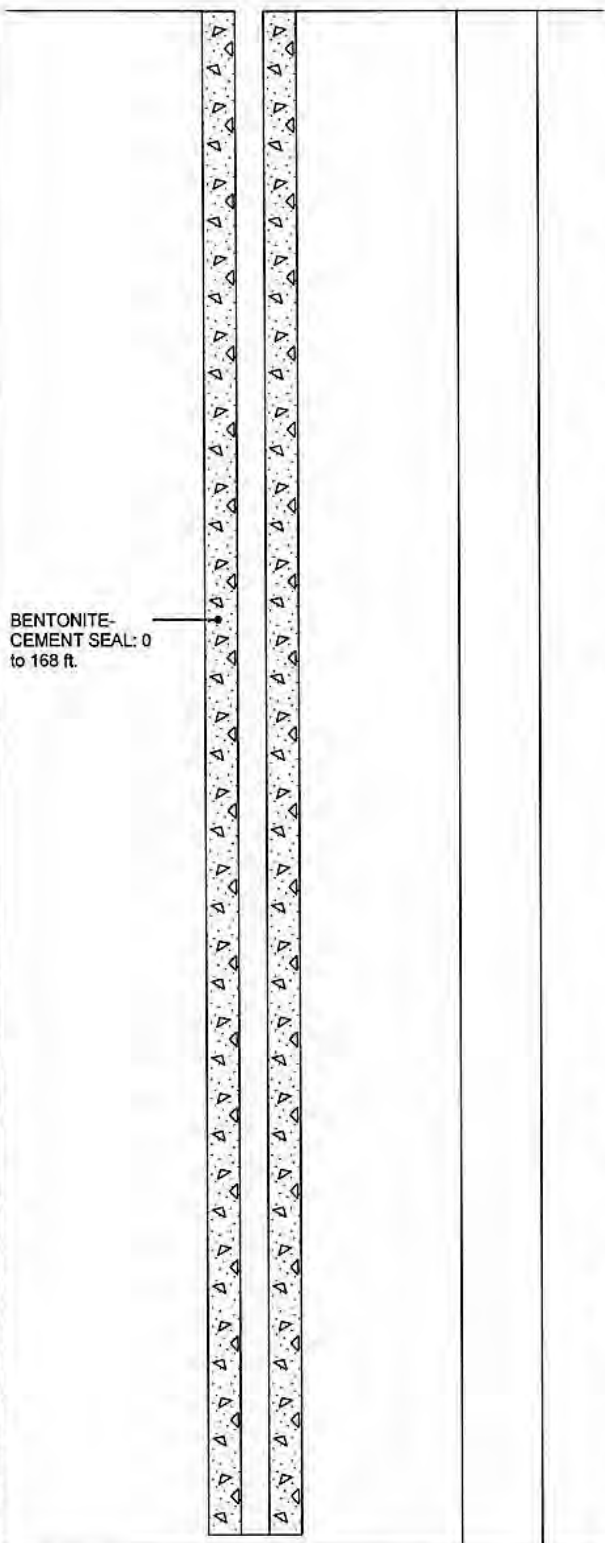
DATE  
11/04

REVISED DATE



Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-20-180  
OUCTP

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**A23**

Fort Ord, California

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JOB NUMBER  
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DATE  
11/04

REVISED DATE

Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)  
Sample

BENTONITE-CEMENT SEAL: 0 to 168 ft.



@ 110 ft.: Change to Medium stiff, moist

@ 115 ft.: Similar to above

@ 120 ft.: Similar to above

@ 124 ft.: Change to OLIVE GRAY (5Y 4/2) Stiff, dry

@ 127 ft.: Change to OLIVE GRAY (5Y 5/2)

DARK GRAYISH BROWN WELL GRADED SAND (SW) (2.5Y 4/2) Loose, moist, 95% fine sand, 5% silt

@ 135 ft.: Change to GRAYISH BROWN (2.5Y 5/2) 100% fine to medium sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and Log of Boring MW-BW-20-180  
OUCTP

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MBP

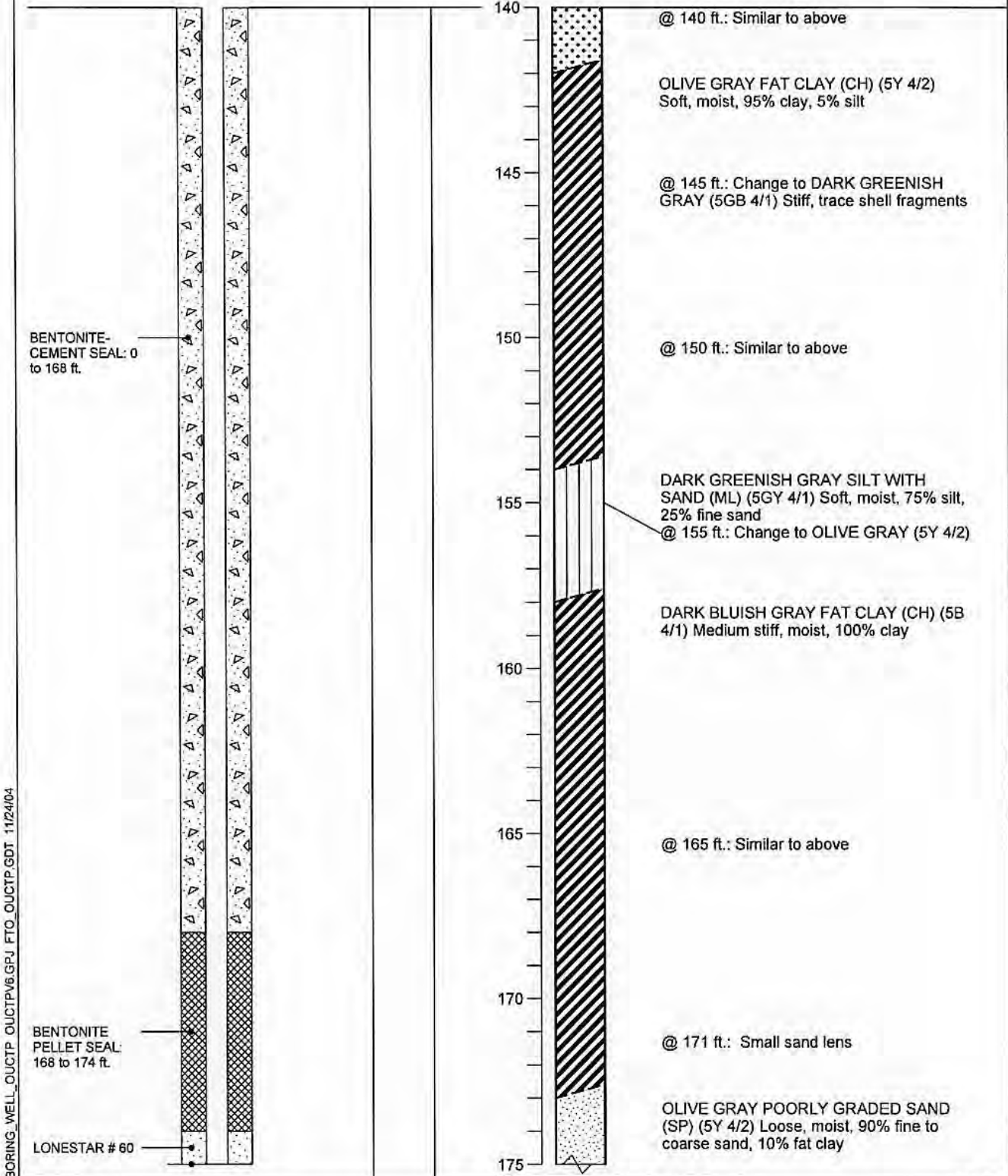
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DATE  
11/04

REVISED DATE

Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE-CEMENT SEAL: 0 to 168 ft.

BENTONITE PELLET SEAL: 168 to 174 ft.

LONESTAR # 60

**Well Construction Details and Log of Boring MW-BW-20-180**  
OUCTP

PLATE



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Fort Ord, California

**A23**

DRAWN  
MBP

JOB NUMBER  
55596 001701

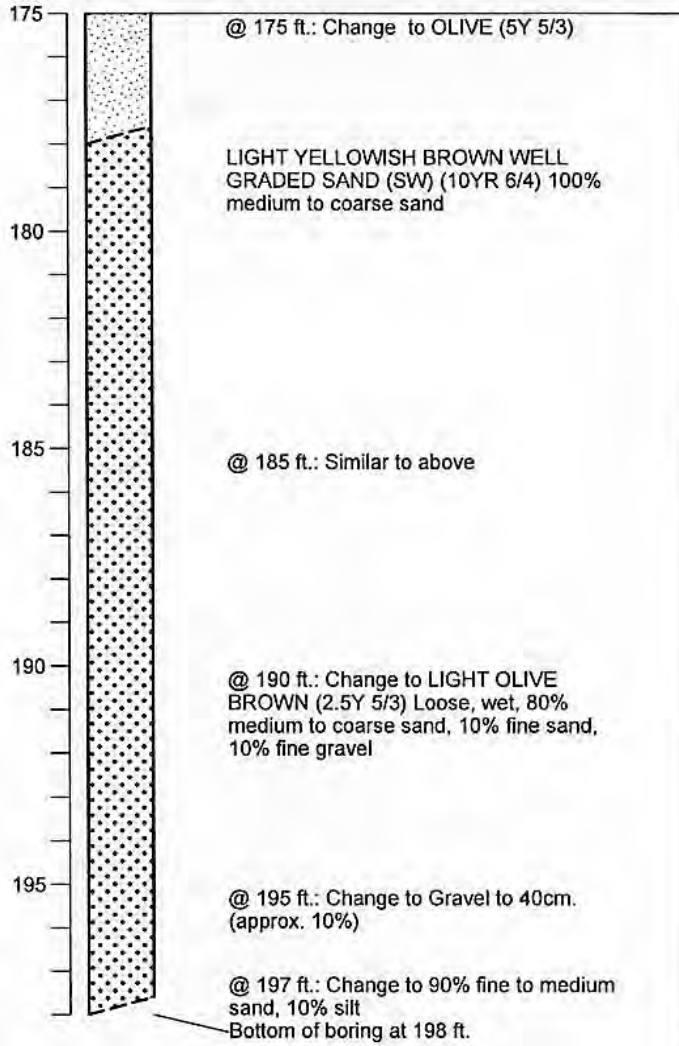
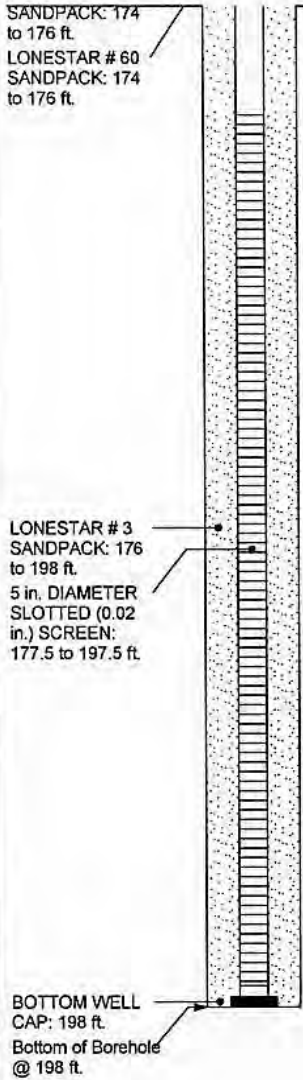
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*MDT/cwr*

DATE  
11/04


REVISED DATE

Completion Date 7/22/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 145.1 ft. Hole Dia. 10 in.  
 Northing 2140645.127 Easting 5747685.235

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-20-180**  
 OUCTP  
 Fort Ord, California

PLATE

**A23**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / car</i>	11/04	

Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

Top of PVC Casing  
 Elev. 144.67 ft.

GROUND SURFACE

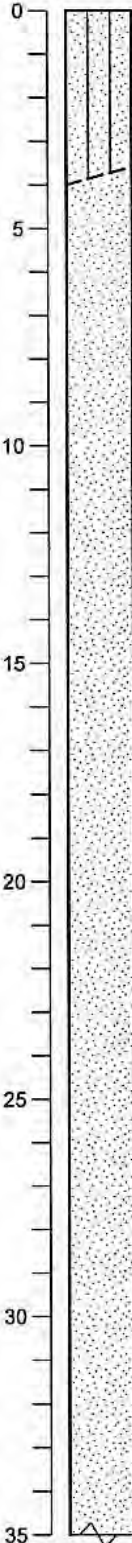
Top of casing at  
 1.5 ft. above  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 198 ft.

5 INCH  
 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 173  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 163 ft.

Depth (ft.)  
 Sample



BROWN SILTY SAND (SM) (10YR 4/3)  
 Loose, dry, 85% fine to coarse sand, 15%  
 silt, trace roots

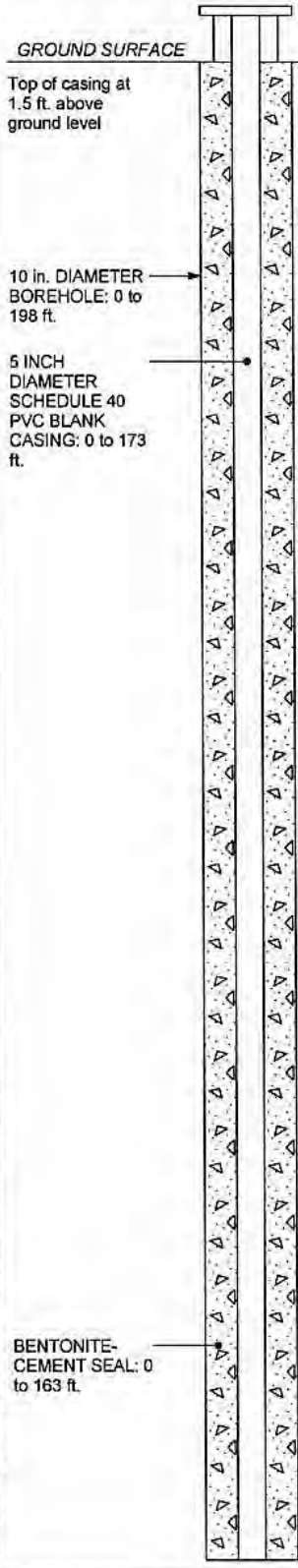
DARK YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (10YR 4/4) Loose,  
 dry, 95% fine to coarse sand, 5% silt

@ 10 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4)

@ 20 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-21-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A24**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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*MDT/Jan*

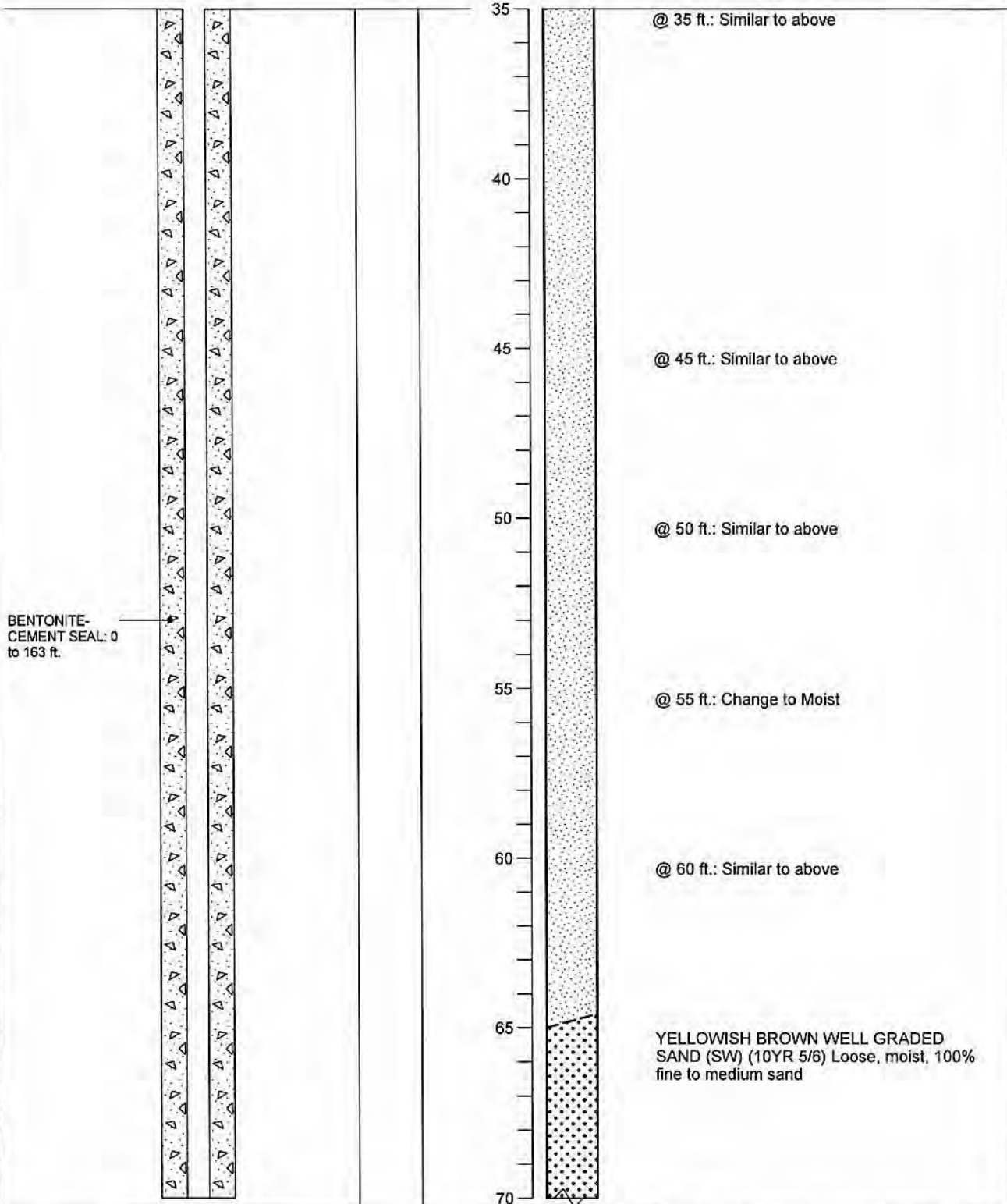
DATE  
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REVISED DATE



Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

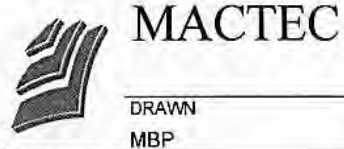
Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-21-180  
 OUCTP

PLATE



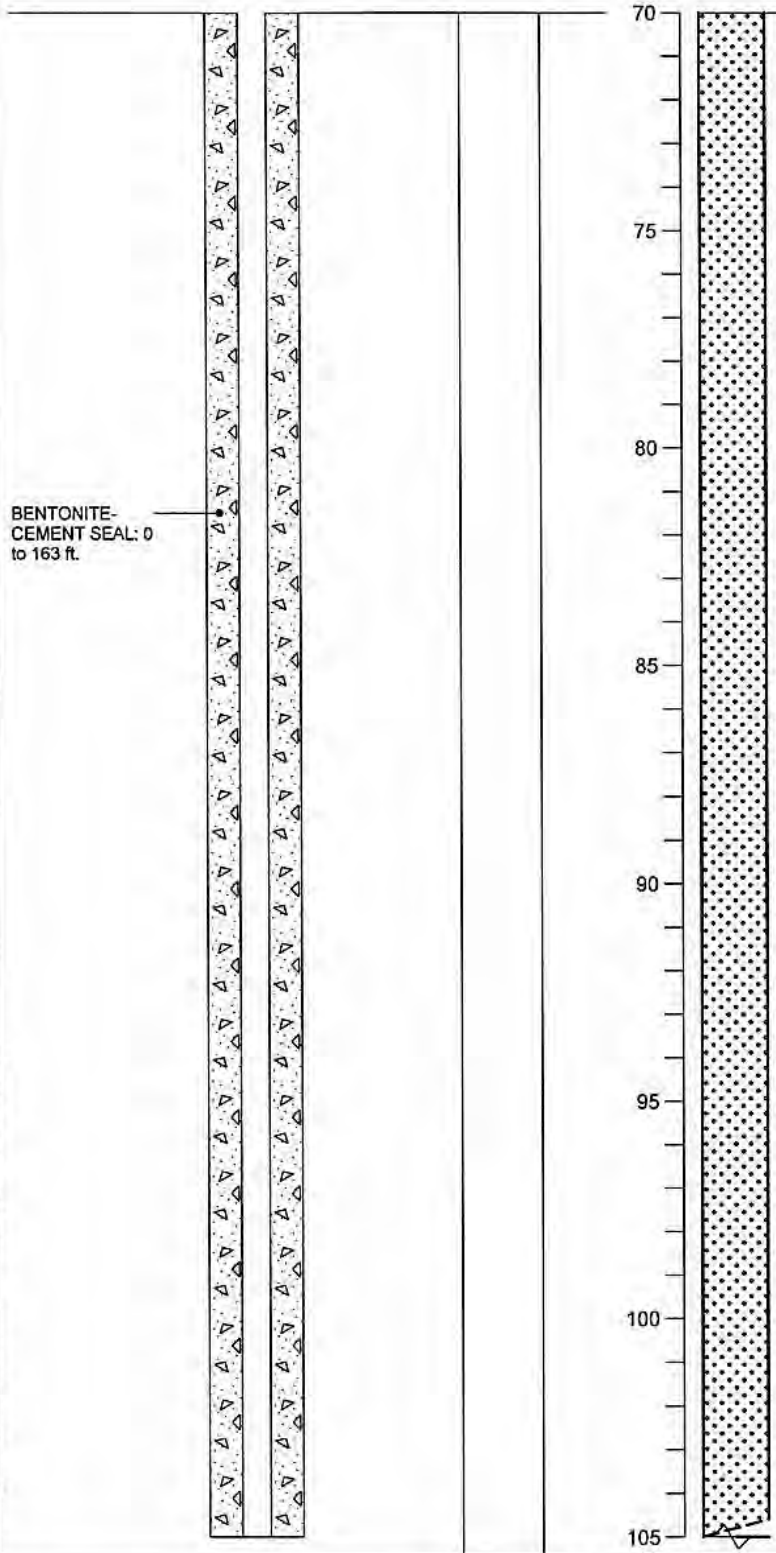
Fort Ord, California

**A24**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / um</i>	DATE 11/04	REVISED DATE
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Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)  
Sample



BENTONITE-CEMENT SEAL: 0 to 163 ft.

@ 75 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4) Moist to wet

@ 78 ft.: Change to Increasing moisture, grab sample taken

@ 80 ft.: Change to Wet

@ 90 ft.: Similar to above

@ 100 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and Log of Boring MW-BW-21-180  
OUCTP

PLATE

**A24**

Fort Ord, California

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / MBP*

DATE  
11/04

REVISED DATE

Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)  
Sample

BENTONITE-  
CEMENT SEAL: 0  
to 163 ft.



LIGHT OLIVE BROWN FAT CLAY (CH)  
(2.5Y 5/3) Medium firm, moist, 90% clay,  
10% fine sand

@ 110 ft.: Change to 90% clay, 10% silt

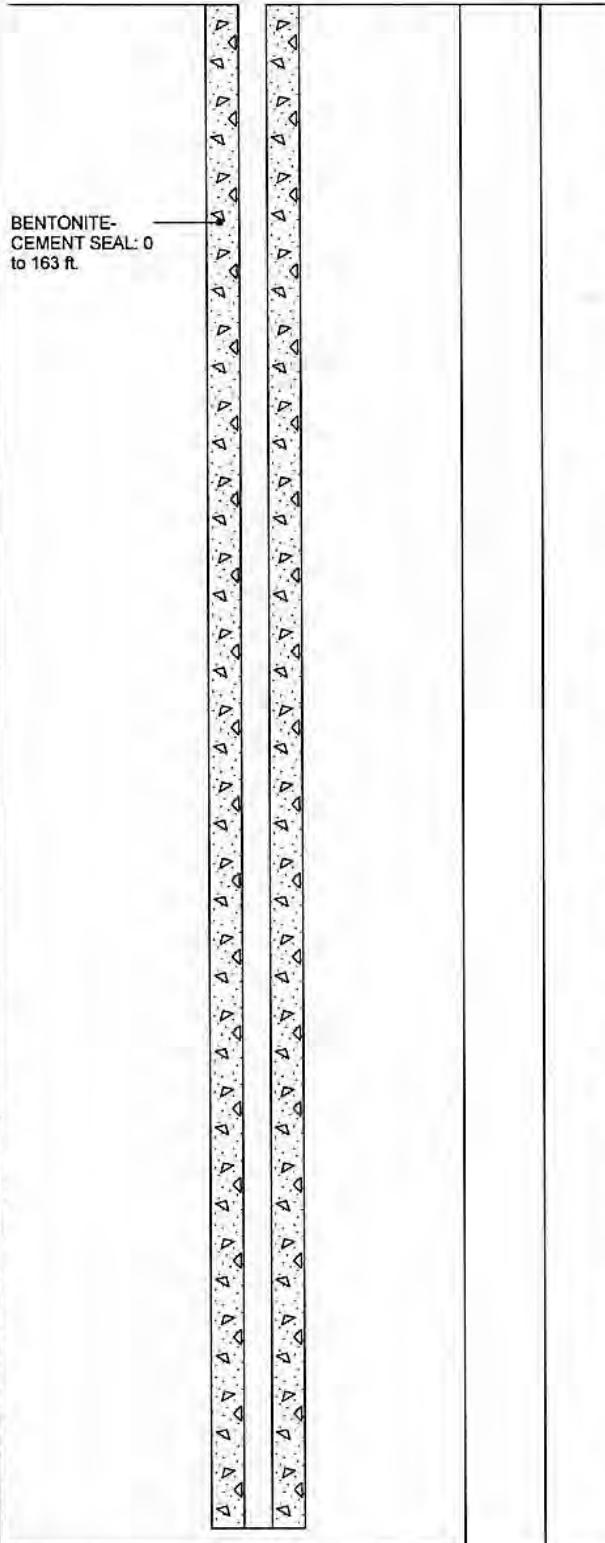
@ 120 ft.: Similar to above

@ 130 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED  
SAND (SW) (2.5Y 5/3) Loose, dry, 90% fine  
to medium sand, 10% silt

@ 135 ft.: Change to 100% fine sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
Log of Boring MW-BW-21-180  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A24**

DRAWN  
MBP

JOB NUMBER  
55596 001701

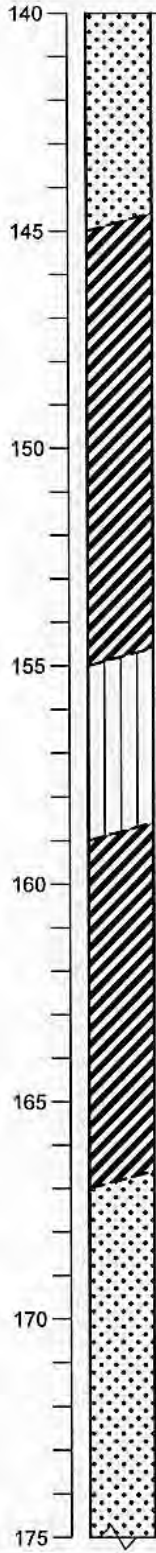
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DATE  
11/04

REVISED DATE

Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)  
 Sample



@ 140 ft.: Similar to above

OLIVE GRAY FAT CLAY (CH) (5Y 4/2)  
 Medium stiff, moist, 95% clay, 5% fine sand

@ 145 ft.: Change to DARK BLuish GRAY (5B 4/1) Firm, moist

@ 149 ft.: Trace shell fragments

@ 150 ft.: Similar to above

DARK GREENISH GRAY SILT (ML) (5GY 4/1) Soft, moist, 100% silt

@ 158 ft.: Similar to above

DARK GREENISH GRAY FAT CLAY (CH) (5G 4/1) Medium stiff, moist, 95% clay, 5% silt, trace shell fragments

@ 165 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, moist, 100% medium to coarse sand

@ 170 ft.: Change to trace fine gravel

@ 173 ft.: Change to Increase to 5% fine gravel

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-21-180  
 OUCTP

PLATE

**A24**

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

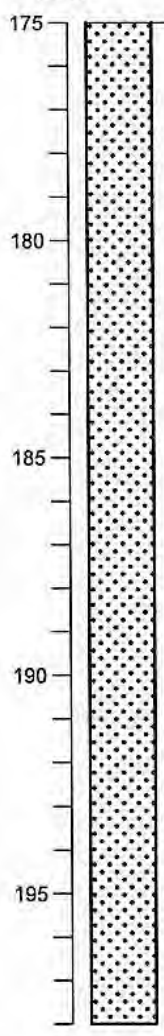
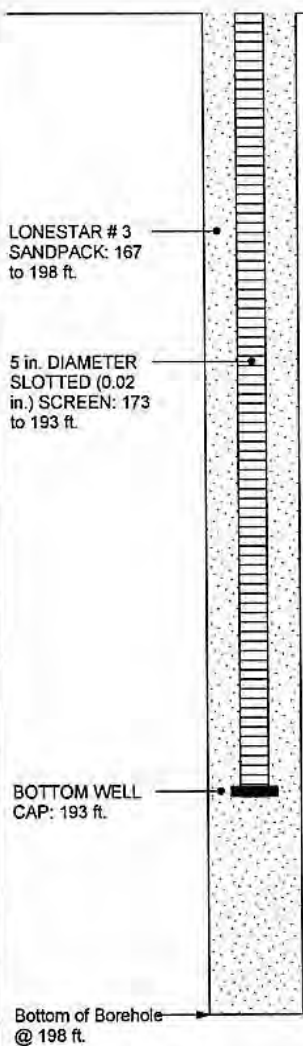
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*MDT / cur*

DATE  
 11/04

REVISED DATE

Completion Date 7/30/1998  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 143.14 ft. Hole Dia. 10 in.  
 Northing 2140731.912 Easting 5748342.543

Depth (ft.)  
Sample



@ 175 ft.: Similar to above

@ 180 ft.: Change to YELLOWISH BROWN (10YR 5/6) Increase gravel size to 10cm.

@ 185 ft.: Change to Trace gravels to 30cm.


@ 190 ft.: Similar to above

@ 192 ft.: Change to 5% gravels to 30cm., trace gravels to 50cm.

@ 195 ft.: Change to Fine to medium gravels to 10cm., trace gravels to 60cm.

Bottom of boring at 198 ft.

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-21-180**

OUCTP

Fort Ord, California

PLATE

**A24**

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DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04
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REVISIED DATE



Top of PVC Casing  
Elev. 155.66 ft.

Completion Date 7/24/1998  
Drilling Method ARCH - Mud Fluid  
Logged by \_\_\_\_\_  
Surface Elevation 152.86 ft. Hole Dia. 10 in.  
Northing 2140553.4888 Easting 5748198.8418

GROUND SURFACE

Top of casing at  
2.8 ft. above  
ground level

5 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.5 to  
177.5 ft.

10 in. DIAMETER  
BOREHOLE: 0 to  
197.5 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 170 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35  
40  
45  
50

BROWN POORLY GRADED SAND (SP)  
(10YR 4/3) Loose, moist, 90% fine to  
medium sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN  
(10YR 5/4) 100% fine to medium sand,  
Trace silt

@ 32 ft.: Change to YELLOWISH BROWN  
(10YR 5/6) Medium dense, 95% fine to  
medium sand, 5% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
Log of Boring MW-BW-22-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A25**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MTJ / am*

DATE  
1/05

REVISED DATE

Completion Date 7/24/1998  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.86 ft. Hole Dia. 10 in.  
 Northing 2140553.4888 Easting 5748198.8418

Depth (ft.)  
 Sample

50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100

BENTONITE-  
 CEMENT SEAL: 0  
 to 170 ft.

@ 53 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6) 100% fine to medium sand,  
 Trace silt

@ 62 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 77 ft.: Change to Wet

@ 88 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/6)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/17/05

**Well Construction Details and  
 Log of Boring MW-BW-22-180**

PLATE



**MACTEC**

Fort Ord, California

**A25**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

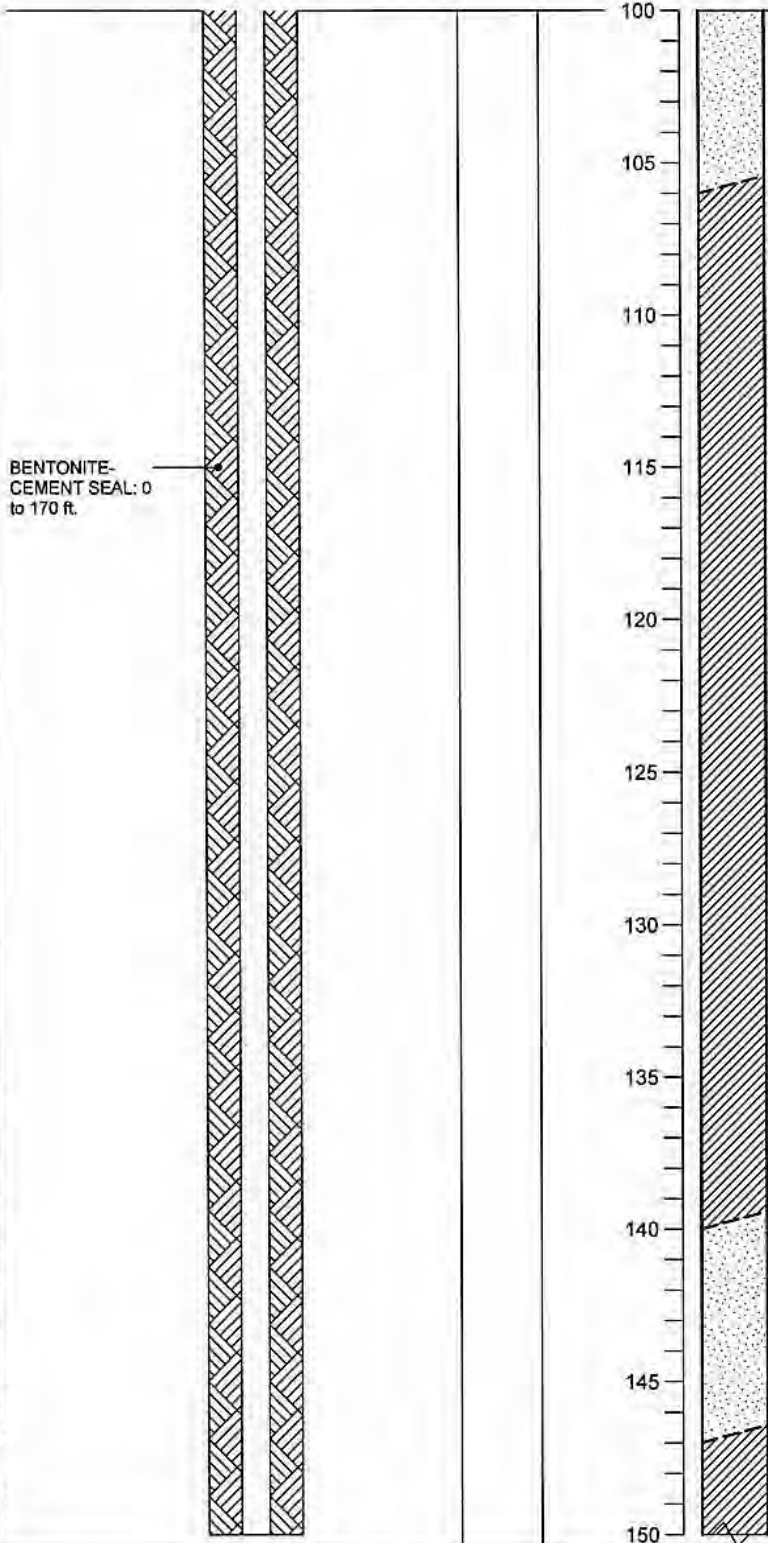
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DATE  
 1/05

REVISED DATE

Completion Date 7/24/1998  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.86 ft. Hole Dia. 10 in.  
 Northing 2140553.4888 Easting 5748198.8418

Depth (ft.)  
 Sample



BENTONITE-  
 CEMENT SEAL: 0  
 to 170 ft.

DARK GRAY CLAY (CL) (5Y 4/1) Firm, wet,  
 95% clay, 5% fine sand, gradational from  
 103 ft.

@ 110 ft.: Change to DARK GREENISH  
 GRAY (5GY 4/1) 100% clay

@ 126 ft.: Change to OLIVE GRAY (5Y 5/2)  
 Very firm, 95% clay, 5% fine sand

GRAYISH BROWN POORLY GRADED  
 SAND (SP) (2.5Y 5/2) Medium dense, wet,  
 95% fine to medium sand, 5% silt

OLIVE GRAY CLAY (CL) (5Y 5/2) Medium  
 firm, wet, 90% clay, 10% fine sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

**Well Construction Details and  
 Log of Boring MW-BW-22-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A25**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

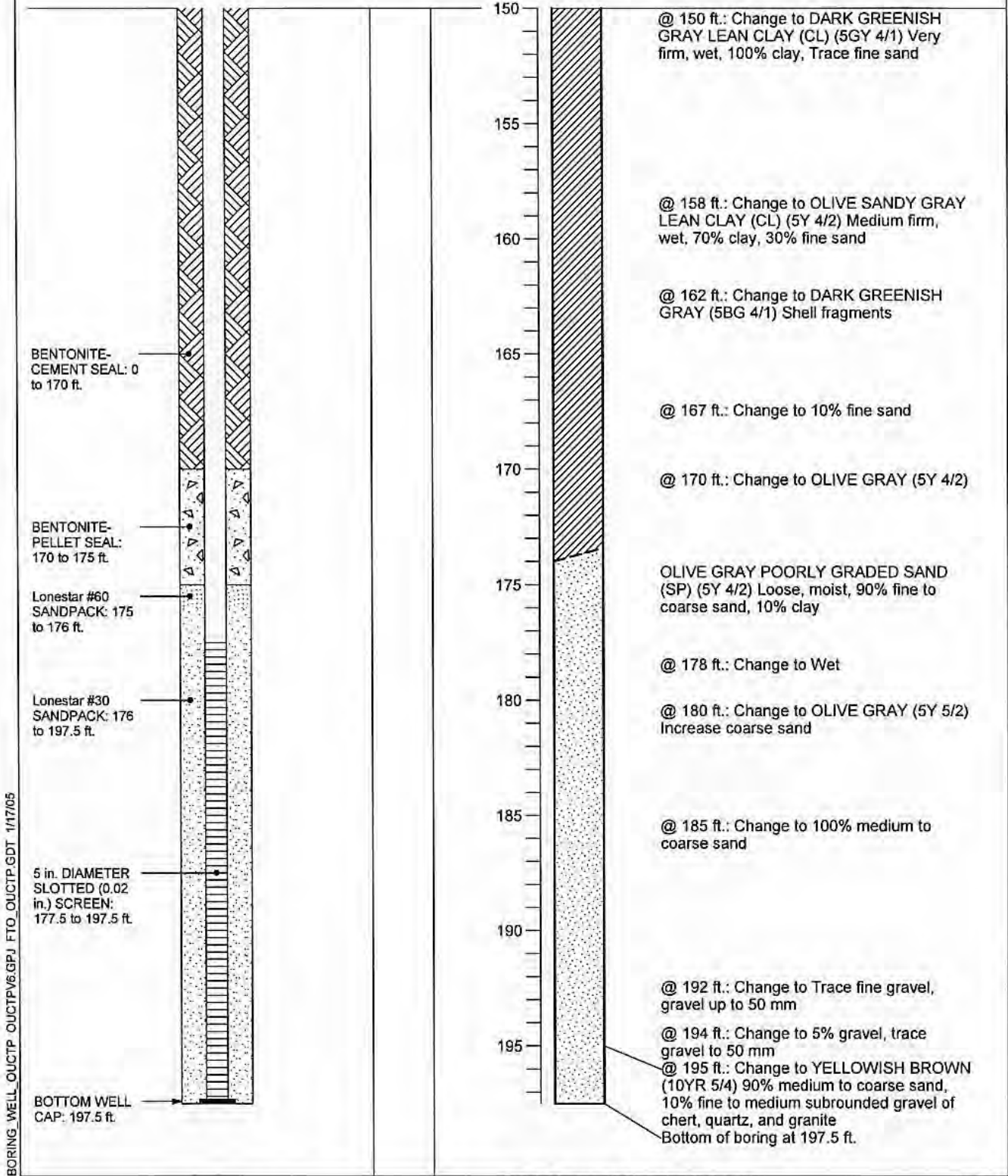
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DATE  
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REVISED DATE

Completion Date 7/24/1998  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.86 ft. Hole Dia. 10 in.  
 Northing 2140553.4888 Easting 5748198.8418

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP\_GDT\_1/17/05

**Well Construction Details and  
 Log of Boring MW-BW-22-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A25**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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*MDT / Lm*

DATE  
 1/05

REVISED DATE

Top of PVC Casing  
Elev. 177.63 ft.

Completion Date 6/6/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 183.4 ft. Hole Dia. 12 in.  
 Northing 2138585.276 Easting 5748316.589

GROUND SURFACE

Top of casing at  
2.41 ft. above  
ground level

5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +2.41 to  
102.5 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 95.5 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

VERY DARK GRAYISH BROWN SILTY  
SAND (SM) (10YR 3/2) Loose, dry, 60%  
fine to coarse sand, 20% silt

DARK BROWN WELL GRADED SAND  
(SW) (10YR 3/3) Loose, dry, 90% fine to  
coarse sand, 10% silt

@ 5 ft.: Similar to above

@ 10 ft.: Similar to above

@ 12 ft.: YELLOWISH BROWN WELL  
GRADED SAND (SW) (10YR 5/6) Loose,  
dry, 95% fine to coarse sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Color change to brownish yellow  
(10YR 6/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT: 11/24/04

Well Construction Details and  
Log of Boring MW-BW-23-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A26**

DRAWN  
CSN

JOB NUMBER  
55596 001701

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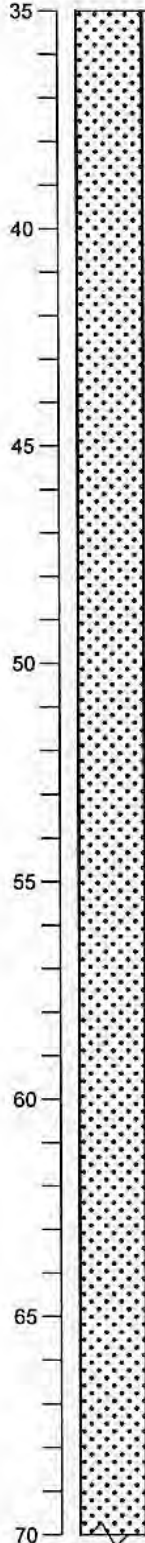
DATE  
11/04

REVISED DATE



Completion Date 6/6/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 183.4 ft. Hole Dia. 12 in.  
 Northing 2138585.276 Easting 5748316.589

Depth (ft.)  
 Sample



@ 35 ft.: BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

@ 40 ft.: Color change to yellowish brown (10YR 5/4)

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above, increasing fine-grained sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-23-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A26**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

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DATE  
 11/04

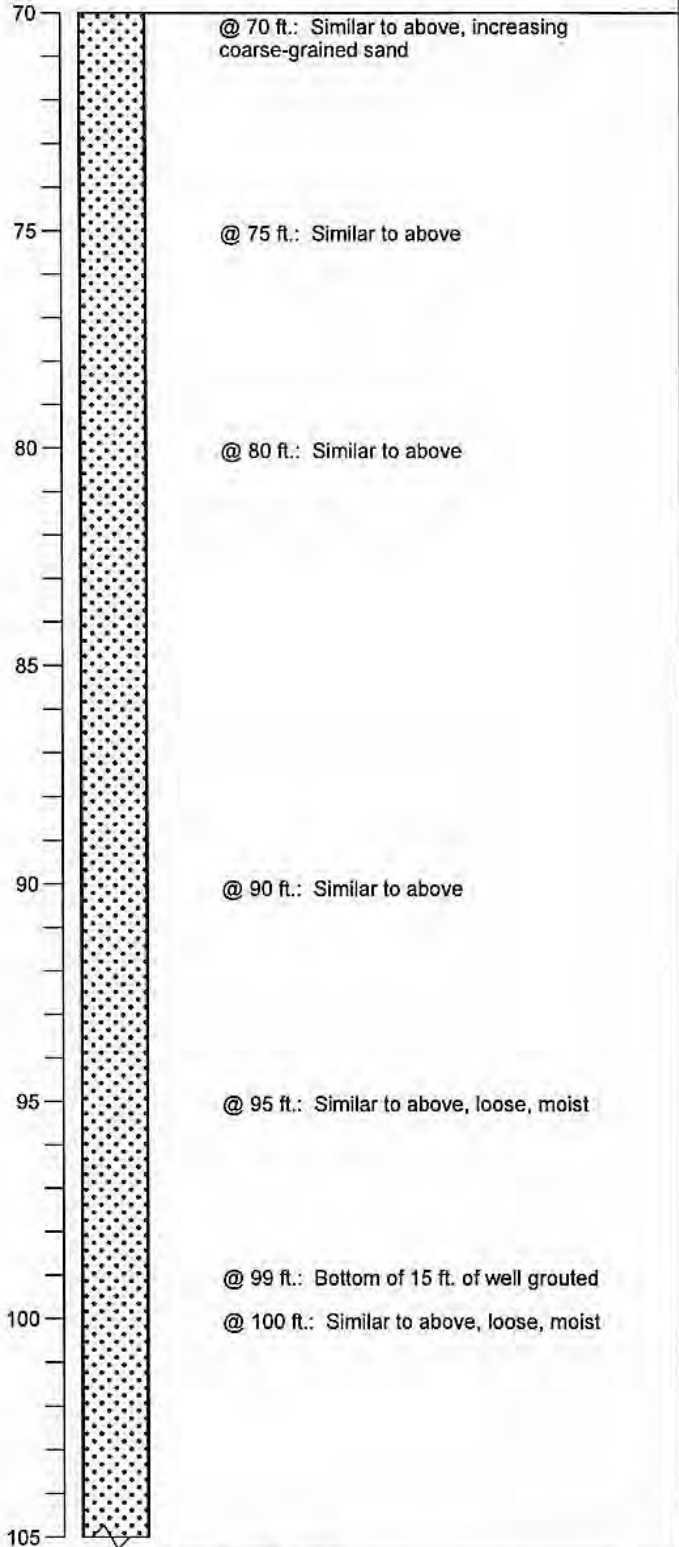
REVISED DATE

Completion Date 6/6/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 183.4 ft. Hole Dia. 12 in.  
 Northing 2138585.276 Easting 5748316.589

Depth (ft.)  
 Sample

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

BENTONITE-  
 PELLET SEAL:  
 95.5 to 97.0 ft.



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-23-A**  
 OUCTP

PLATE

Fort Ord, California

**A26**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

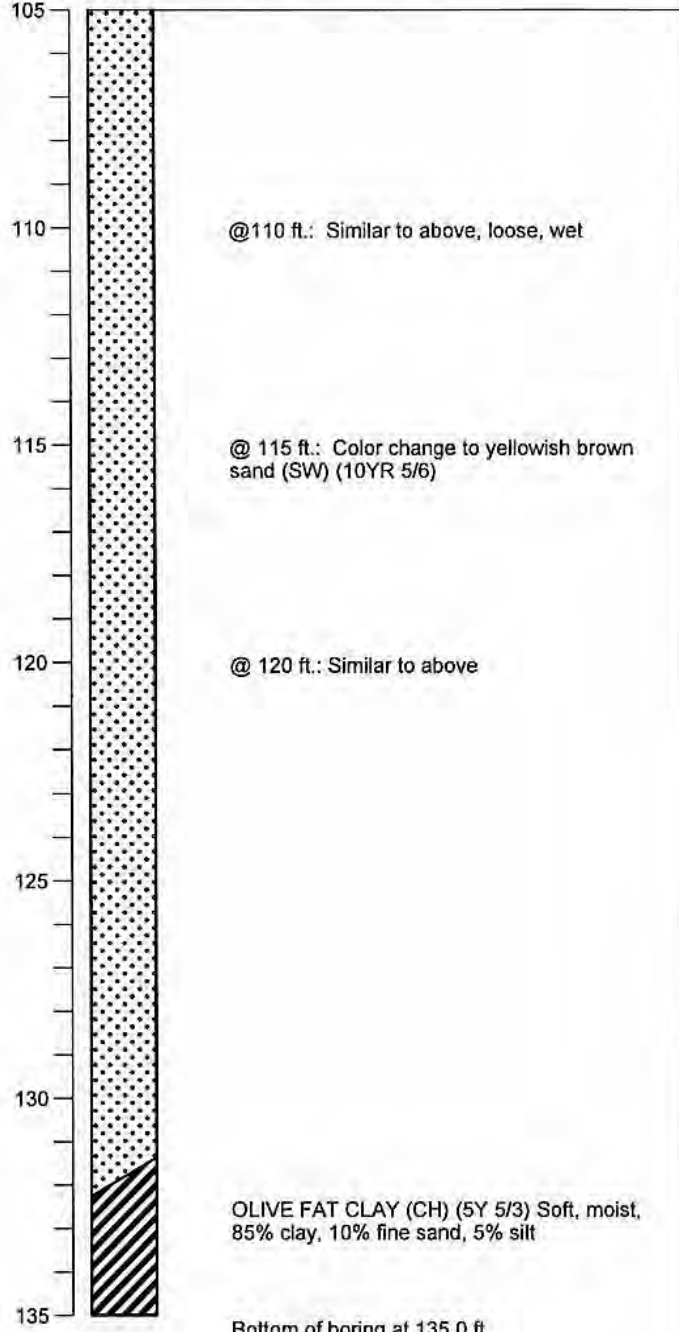
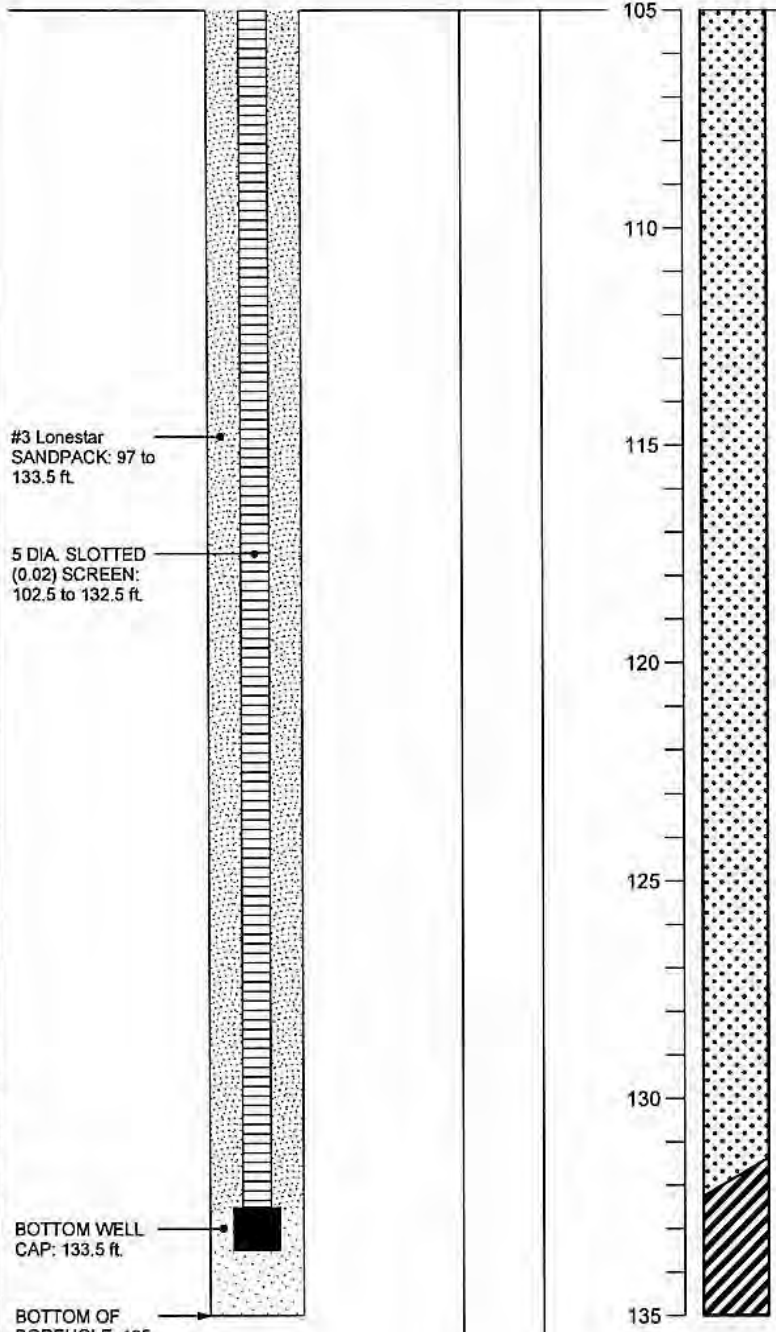
APPROVED  
*MDT/can*

DATE  
 11/04

REVISED DATE

Completion Date 6/6/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 183.4 ft. Hole Dia. 12 in.  
 Northing 2138585.276 Easting 5748316.589

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-23-A  
 OUCTP

PLATE



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Fort Ord, California

**A26**

DRAWN  
CSN

JOB NUMBER  
55596 001701

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DATE  
11/04

REVISED DATE

Top of PVC Casing  
Elev. 145.99 ft.

Completion Date 5/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 143.5 ft. Hole Dia. 12 in.  
 Northing 2140120.461 Easting 5747938.658

GROUND SURFACE

Top of casing at  
2.49 ft. above  
ground level

5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +2.49 to  
64.0 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 59.0 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

DARK YELLOWISH BROWN WELL  
GRADED SAND (SW) (10YR 4/4) Loose,  
dry, 85% fine to coarse sand, 15% silt  
@ 2 ft.: Yellowish brown well graded sand  
(SW) (10YR 5/4), loose, dry, 90% fine to  
coarse sand, 10% silt

@ 10 ft.: Color change to (10YD 5/6)

@ 15 ft.: Similar to above, 95% fine to  
coarse sand, 5% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
Log of Boring MW-BW-24-A

PLATE



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OUCTP

Fort Ord, California

**A27**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*MDT / CW*

DATE  
11/04

REVISED DATE

Completion Date 5/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 143.5 ft. Hole Dia. 12 in.  
 Northing 2140120.461 Easting 5747938.658

Depth (ft.)  
 Sample

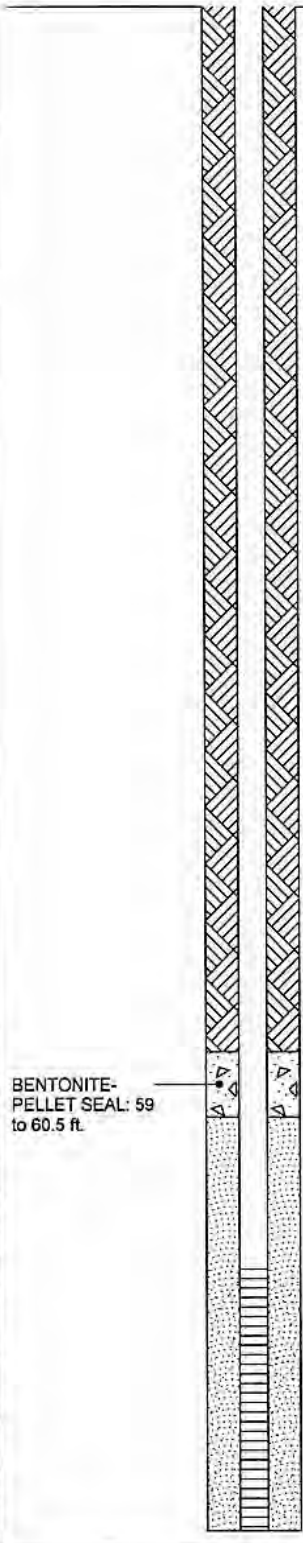
35  
 40  
 45  
 50  
 55  
 60  
 65  
 70

@ 35 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above



BENTONITE-PELLET SEAL: 59 to 60.5 ft.

BORING\_WELL\_OUCTP\_OUCTPV6GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-24-A**

PLATE



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OUCTP

Fort Ord, California

**A27**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cm*

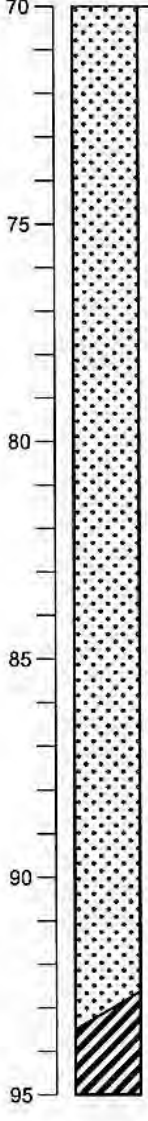
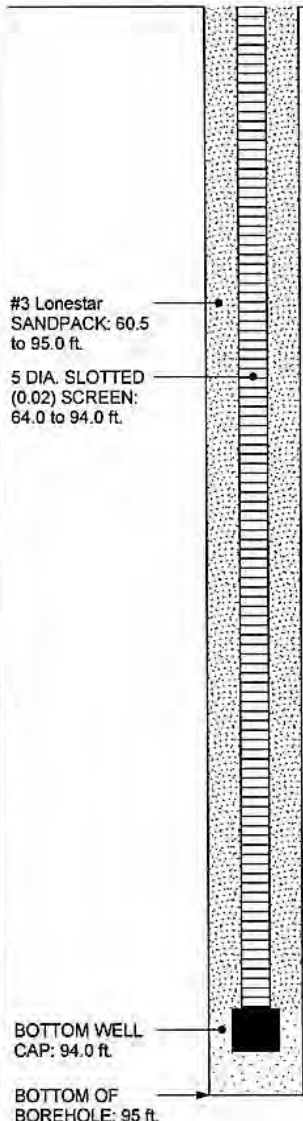
DATE  
 11/04

REVISED DATE



Completion Date 5/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 143.5 ft. Hole Dia. 12 in.  
 Northing 2140120.461 Easting 5747938.658

Depth (ft.)  
Sample



@ 75 ft.: Color change to yellowish brown well graded sand (SW) (10YR 6/6), loose, moist, 90% fine to coarse sand, 10% silt

@ 85 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/2) Stiff, moist, 85% clay, 10% silt, 5% fine sand

@ 95 ft.: Similar to above Bottom of boring at 95 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



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Well Construction Details and  
 Log of Boring MW-BW-24-A  
 OUCTP

PLATE

**A27**

Fort Ord, California

DRAWN  
CSN

JOB NUMBER  
55596 001701

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*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

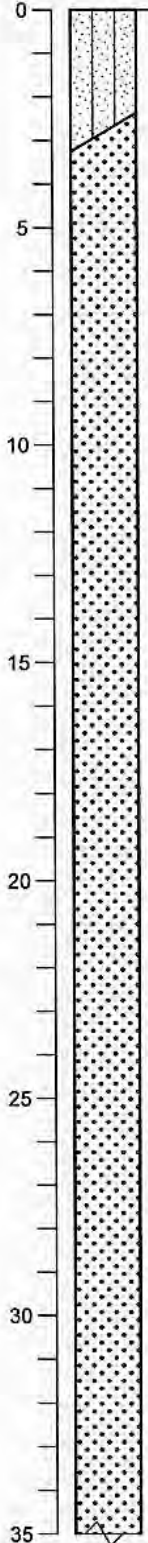
Top of PVC Casing  
 Elev. 146.59 ft.

GROUND SURFACE  
 Top of casing at  
 2.49 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: +2.49 ft.  
 to 217.0 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 182.0 ft.

Depth (ft.)  
 Sample



DARK GRAYISH BROWN SILTY SAND  
 (SM) (2.5Y 4/2) Loose, dry, 80% fine to  
 coarse sand, 20% silt

DARK GRAYISH BROWN WELL-GRADED  
 SAND (SW) (2.5Y 4/2) Loose, dry, 90%  
 fine to coarse sand, 10% silt

@ 7 ft.: DARK YELLOWISH BROWN  
 WELL GRADED SAND (SW) (10YR 4/4)  
 Loose, dry, 90% fine to coarse sand, 10%  
 silt

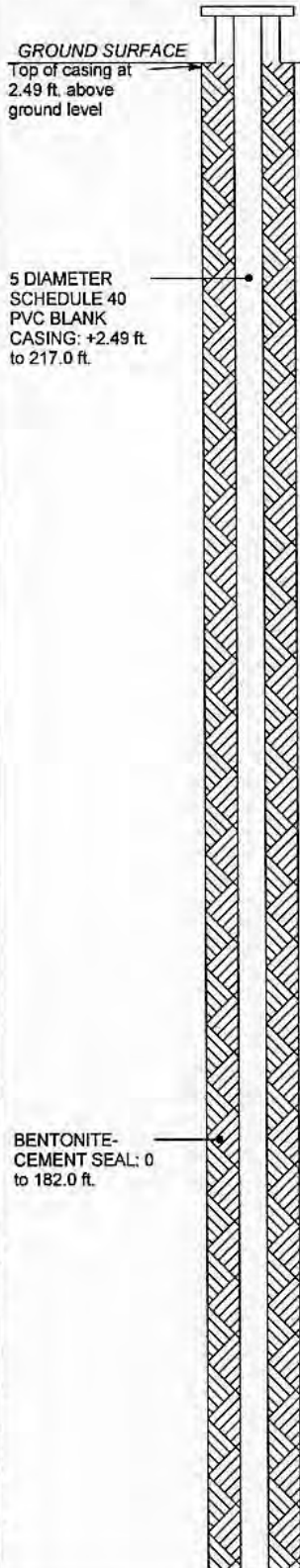
YELLOWISH BROWN WELL-GRADED  
 SAND (10YR 5/6), loose, dry, 95% fine to  
 coarse sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
 Log of Boring MW-BW-25-180  
 OUCTP

PLATE



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Fort Ord, California

**A28**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

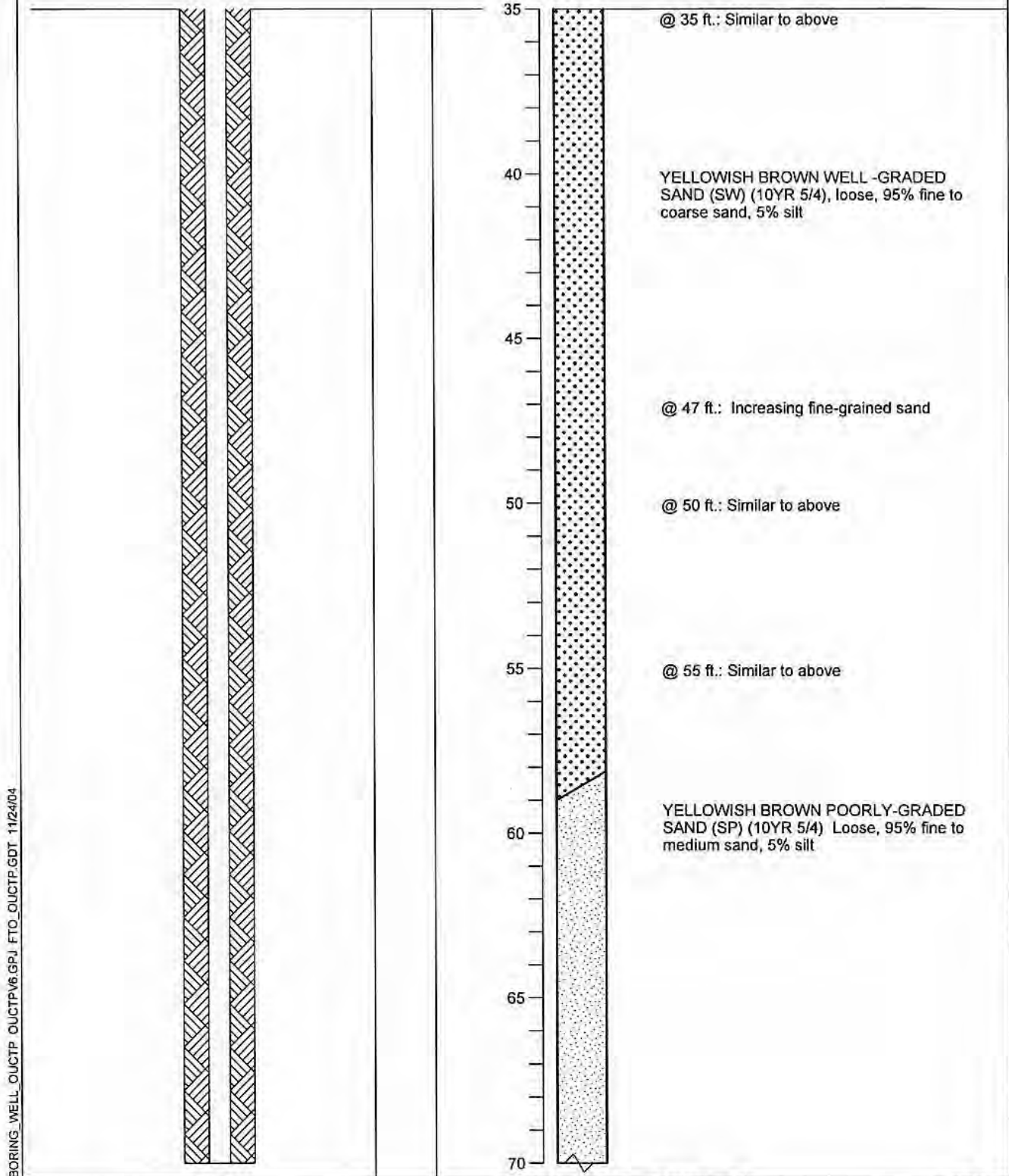
APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and  
 Log of Boring MW-BW-25-180  
 OUCTP

PLATE

**A28**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	55596 001701	<i>MDT / cur</i>	11/04	

Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
 Sample

70  
 75  
 80  
 85  
 90  
 95  
 100  
 105

@ 70 ft.: Similar to above

YELLOWISH BROWN WELL-GRADED SAND (SW) (10YR 5/4) Loose, 100% fine to coarse sand

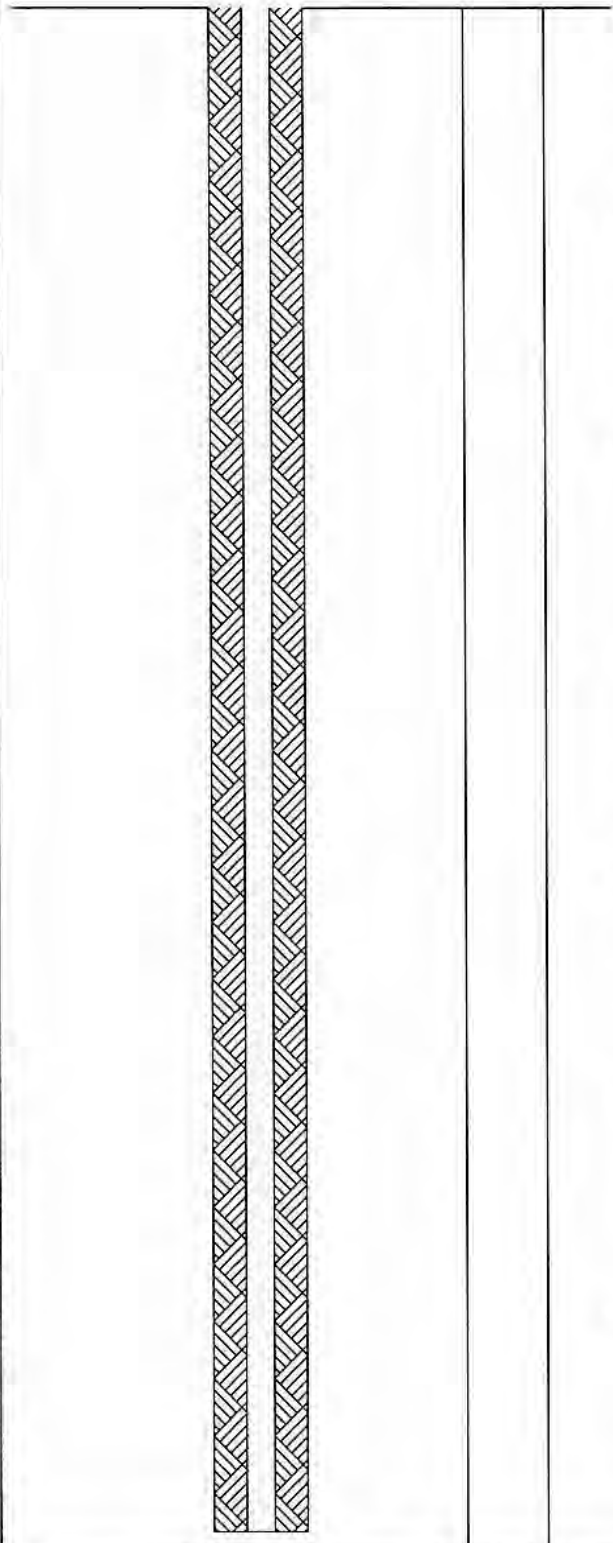
YELLOWISH BROWN POORLY-GRADED SAND (SP) (10YR 5/4) Loose, 95% fine to medium sand, 5% silt

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above, 90% fine to medium sand, 10% silt

OLIVE FAT CLAY WITH SAND (CH) (5Y 4/3) Soft, moist, 75% clay, 25% fine to coarse sand, trace gravel to 2 cm

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTD\_OUCTP.GDT\_11/24/04



Well Construction Details and  
 Log of Boring MW-BW-25-180  
 OUCTP

PLATE



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Fort Ord, California

**A28**

DRAWN  
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JOB NUMBER  
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DATE  
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Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
Sample

105  
110  
115  
120  
125  
130  
135  
140

@ 105 ft.: Similar to above

@ 110 ft.: Similar to above

@ 115 ft.: Similar to above

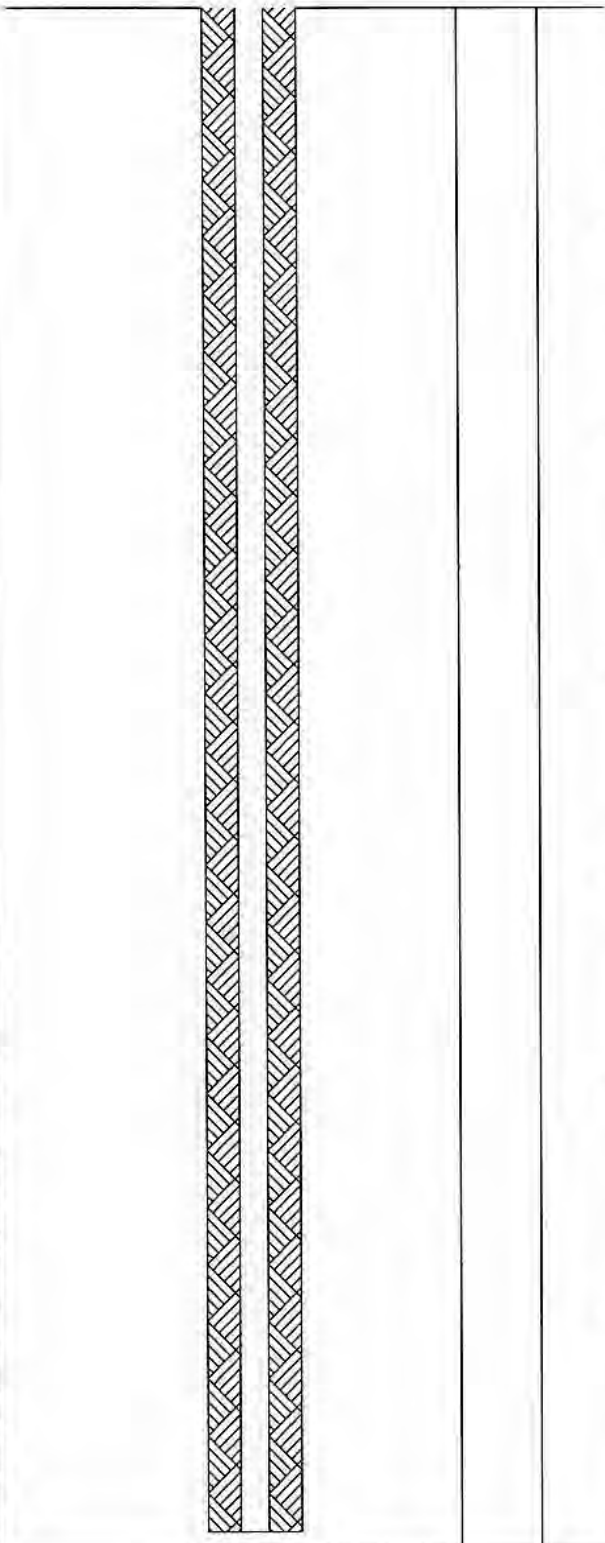
@ 120 ft.: Similar to above

@ 125 ft.: Similar to above

@ 130 ft.: Similar to above

DARK GREENISH GRAY FAT CLAY WITH SAND (CH) (5G 4/1) Soft, moist, 85% clay, 15% fine to coarse sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



Well Construction Details and Log of Boring MW-BW-25-180

PLATE



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Fort Ord, California

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DRAWN  
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55596 001701

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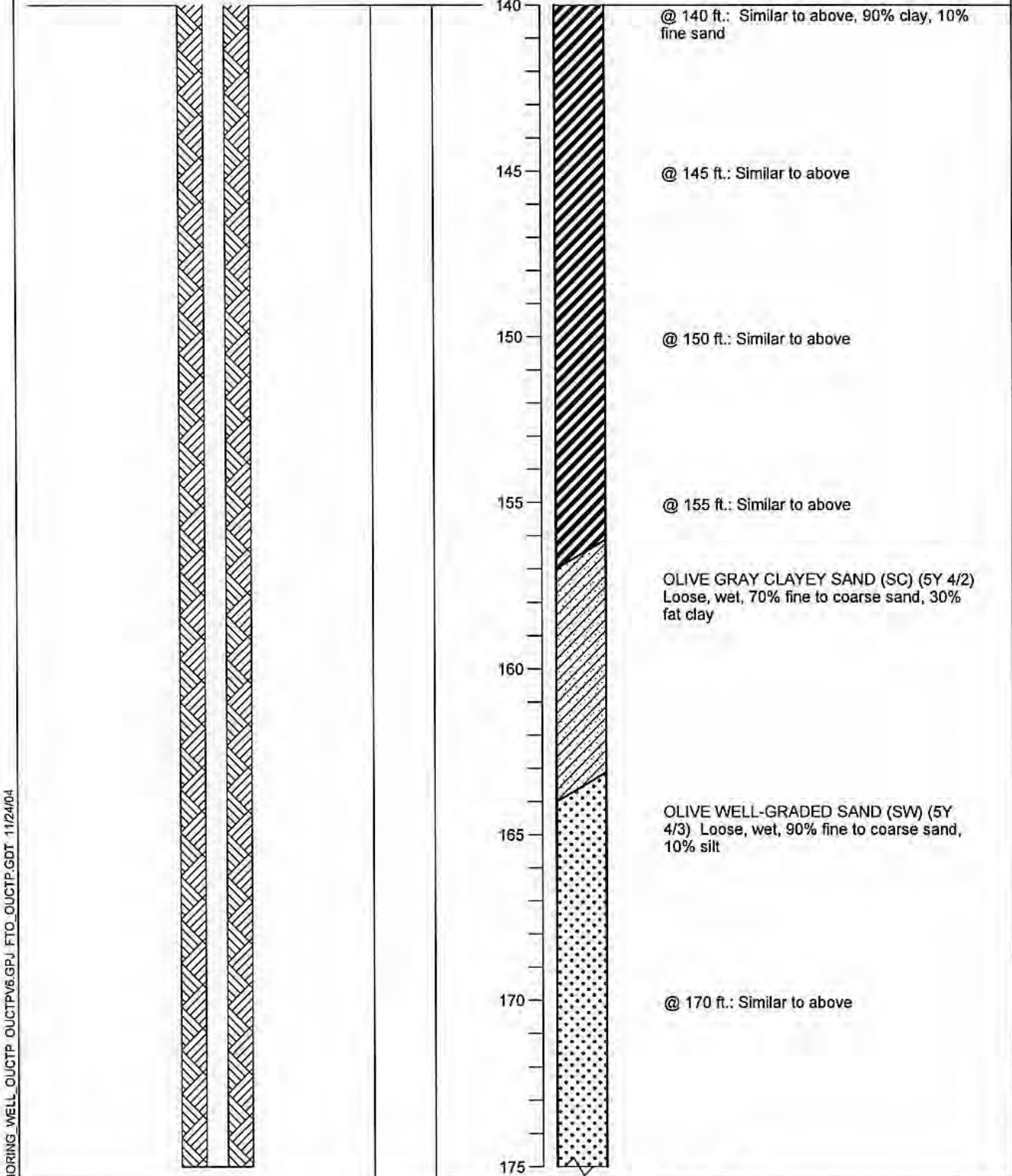
DATE  
11/04

REVISED DATE



Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
 Sample



BORING - WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-25-180

PLATE



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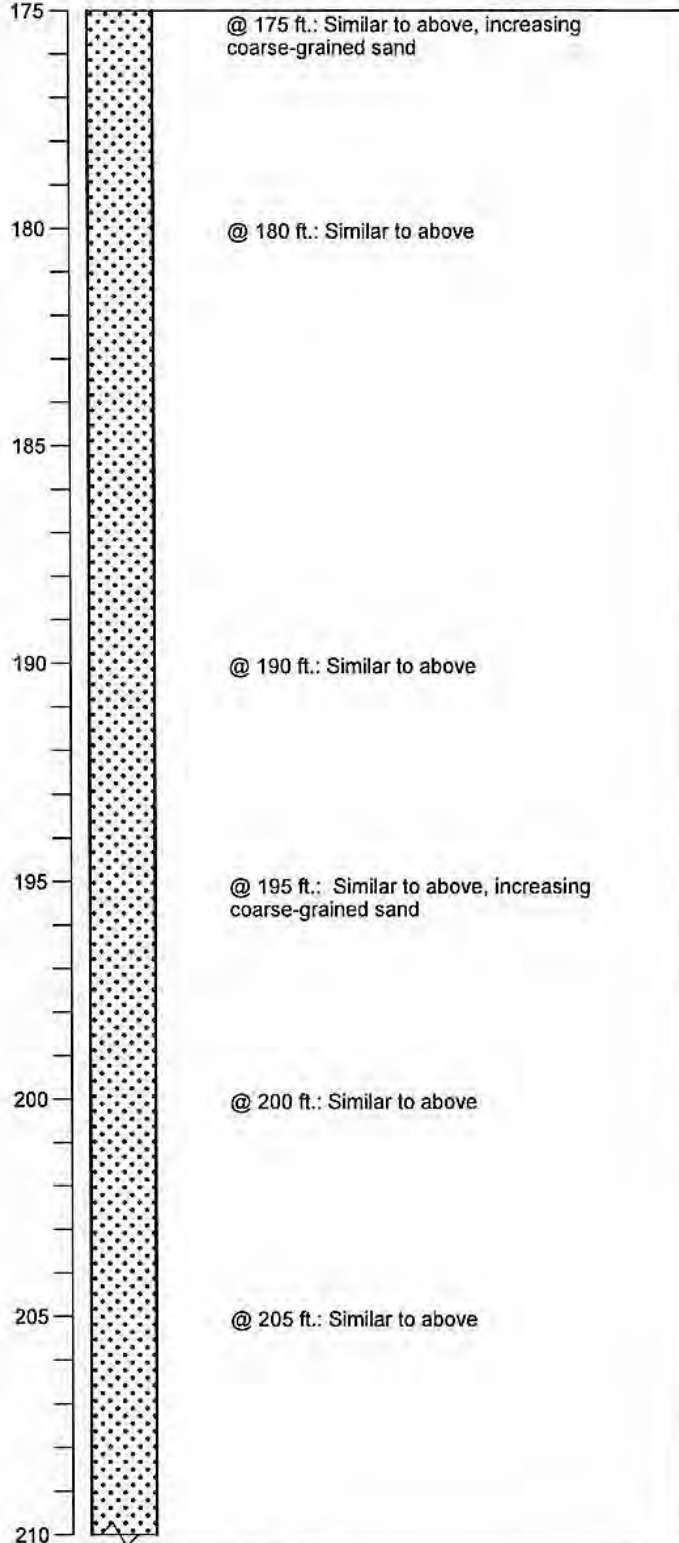
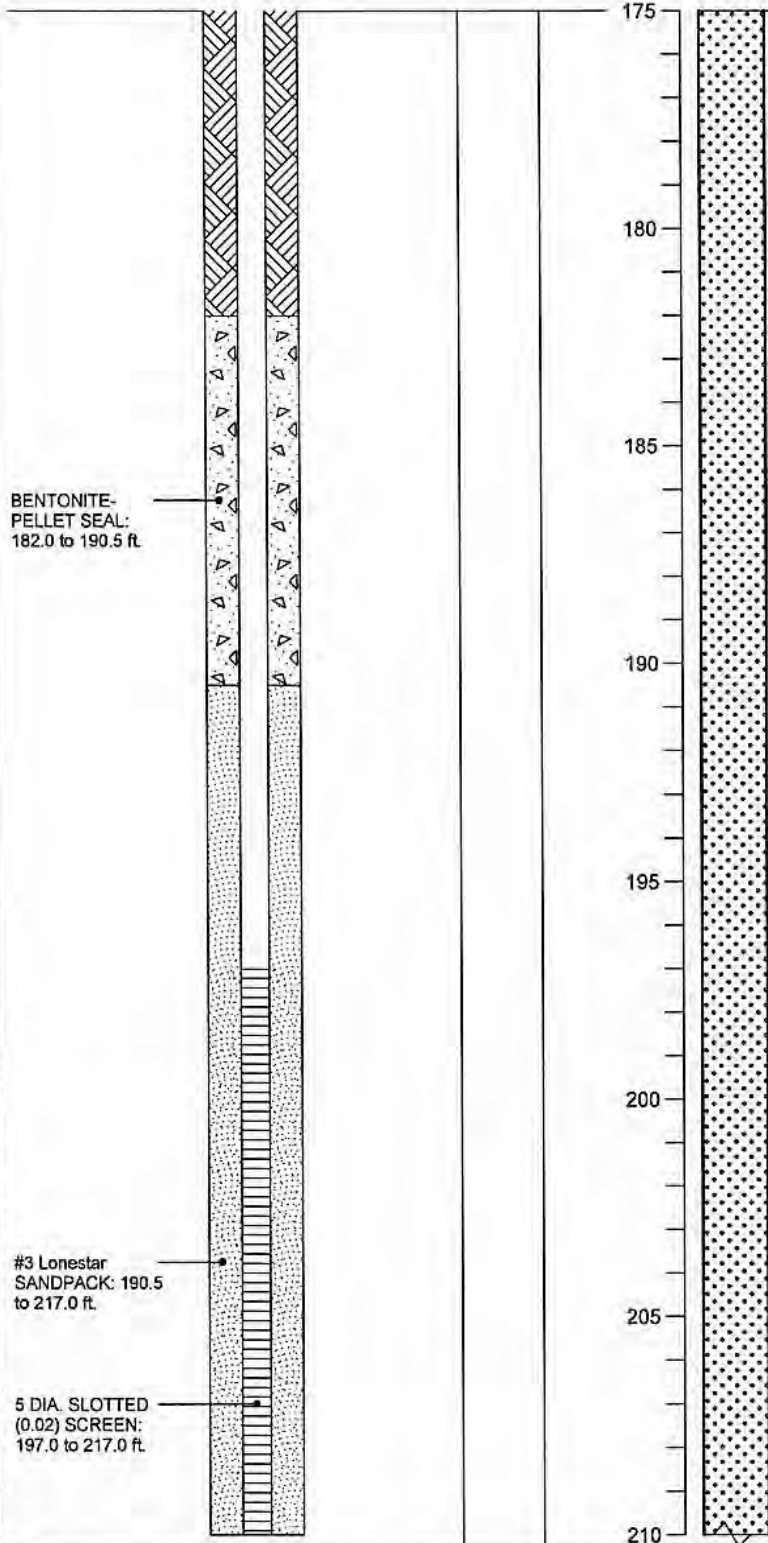
Fort Ord, California

**A28**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	55596 001701	<i>MDT / [Signature]</i>	11/04	

Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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Well Construction Details and  
 Log of Boring MW-BW-25-180  
 OUCTP

PLATE

**A28**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

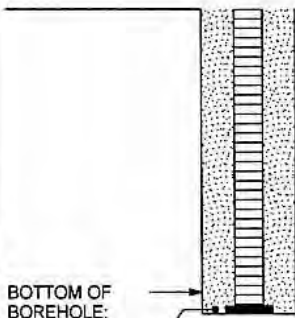
Fort Ord, California  
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DATE  
 11/04

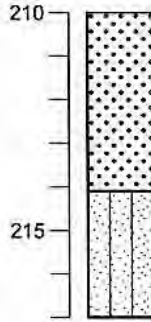
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Completion Date 6/20/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.1 ft. Hole Dia. 11 in.  
 Northing 2140172.382 Easting 5748225.92

Depth (ft.)  
Sample



BOTTOM OF BOREHOLE: 217.0 ft.  
 BOTTOM WELL CAP: 217.0 ft.



@ 210 ft.: Similar to above, 15% silt

@ 212 ft.: Increase in fine-grained sand

OLIVE SILTY SAND (SM) (5Y 4/3) Dense, 70% fine to medium sand, 30% silt, drill rod chattering

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-25-180  
 OUCTP

PLATE



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Fort Ord, California

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DRAWN  
CSN

JOB NUMBER  
55596 001701

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11/04

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Top of PVC Casing  
Elev. 143.58 ft.

Completion Date 6/1/2000  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 141.8 ft. Hole Dia. 12 in.  
Northing 2140037.403 Easting 5748402.508

GROUND SURFACE  
Top of casing at  
1.78 ft. above  
ground level

5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +1.78 to  
68.0 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 61.0 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

LIGHT OLIVE BROWN SILTY SAND (SM)  
(2.5Y 5/3) Loose, dry, 80% fine to coarse  
sand, 20% silt

@ 5 ft.: Decrease in silt to 15%

DARK BROWN WELL GRADED SAND  
(SW) (10YR 3/3) Loose, dry, 95% fine to  
coarse sand, 5% silt

@ 13 ft.: Color change to yellowish brown  
well graded sand (SW) (10YR 5/4), loose,  
dry, 100% fine to coarse sand

@ 20 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
Log of Boring MW-BW-25-A

PLATE



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Fort Ord, California

**A29**

DRAWN  
CSN

JOB NUMBER  
55596 001701

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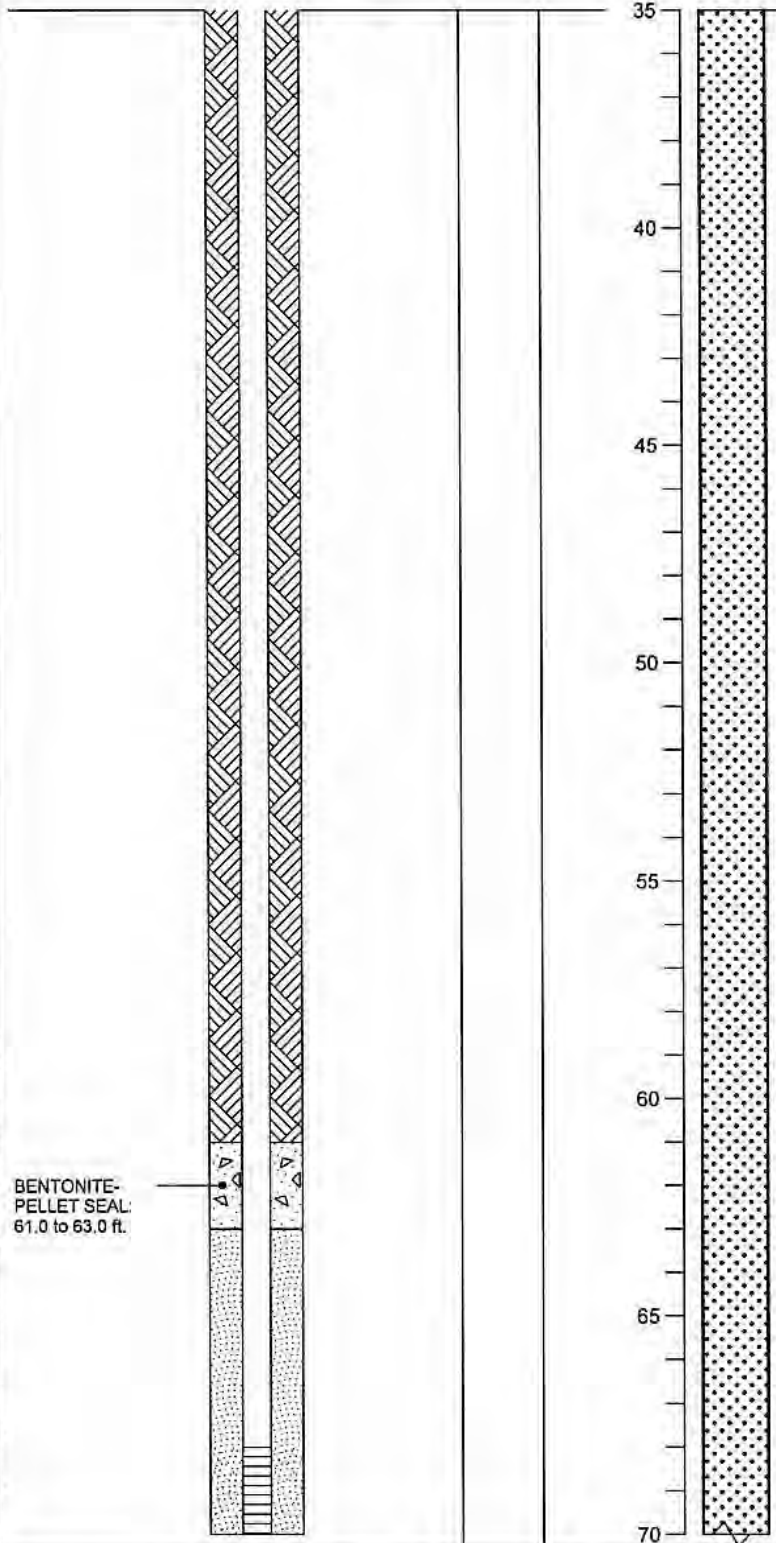
DATE  
11/04

REVISED DATE

Completion Date 6/1/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 141.8 ft. Hole Dia. 12 in.  
 Northing 2140037.403 Easting 5748402.508

Depth (ft.)  
 Sample

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



BENTONITE-PELLET SEAL:  
 61.0 to 63.0 ft.

@ 35 ft.: Similar to above

@ 40 ft.: Color change to yellowish brown (10YR 5/6), loose, moist

@ 50 ft.: Similar to above

@ 55 ft.: Color change to yellowish brown well graded sand (10YR 5/4)

@ 60.0 ft.: Similar to above

**Well Construction Details and Log of Boring MW-BW-25-A** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

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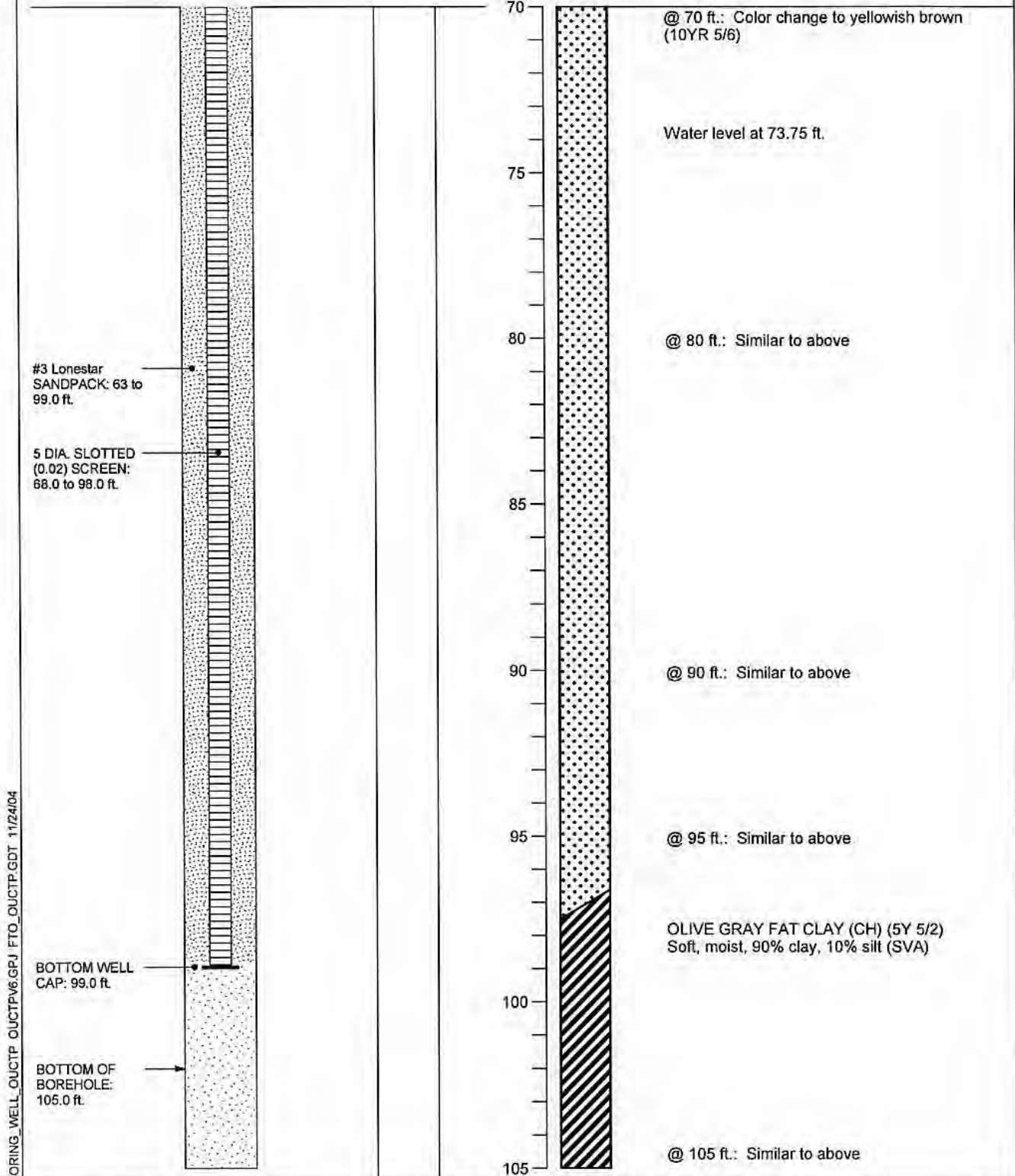
DATE  
 11/04

**A29**  
 REVISED DATE



Completion Date 6/1/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 141.8 ft. Hole Dia. 12 in.  
 Northing 2140037.403 Easting 5748402.508

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-25-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A29**

DRAWN  
CSN

JOB NUMBER  
55596 001701

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DATE  
11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

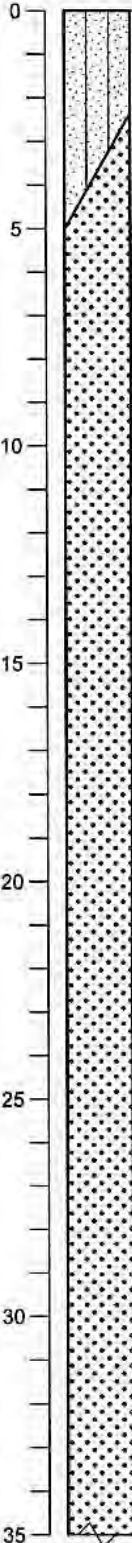
Top of PVC Casing  
 Elev. 165.21 ft.

GROUND SURFACE  
 Top of casing at  
 1.51 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: +1.51 ft.  
 to 227.0 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 210.0 ft.

Depth (ft.)  
 Sample



OLIVE SILTY SAND (SM) (5Y 4/4) Loose,  
 dry, 75% fine to coarse sand, 25% silt

BROWN WELL-GRADED SAND (SW)  
 (10YR 4/3), Loose, dry, 90% fine to coarse  
 sand, 10% silt

@ 7 ft.: Color change to yellowish brown  
 (10YR 5/4), well-graded sand

@ 15 ft.: Color change to yellowish brown  
 well-graded sand (SW) (10YR 5/6), loose,  
 dry, 95% fine to coarse sand, 5% silt

@ 20 ft.: Color change to yellowish brown  
 (10YR 5/4), loose

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, increasing  
 coarse-grained sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-26-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A30**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*(Signature)*

DATE  
 11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
Sample

35  
40  
45  
50  
55  
60  
65  
70

@ 35 ft.: Similar to above  
 @ 40 FT.: Similar to above  
 @ 45 FT.: Similar to above  
 @ 50 FT.: Similar to above  
 @ 55 ft.: Similar to above  
 @ 60 FT.: Similar to above  
 @ 65 FT.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
Log of Boring MW-BW-26-180**

PLATE



**MACTEC**

Fort Ord, California

**A30**

DRAWN  
CSN

JOB NUMBER  
55596 001701

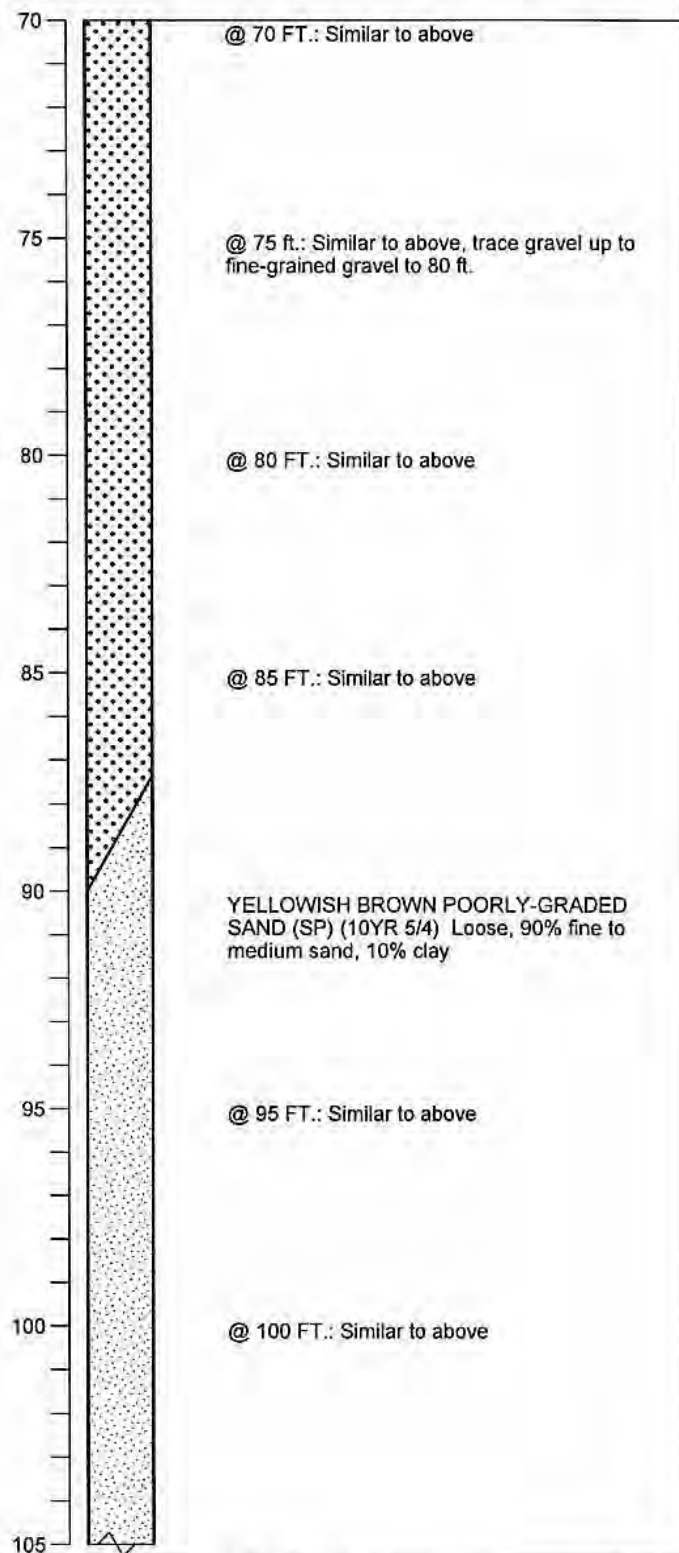
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DATE  
11/04

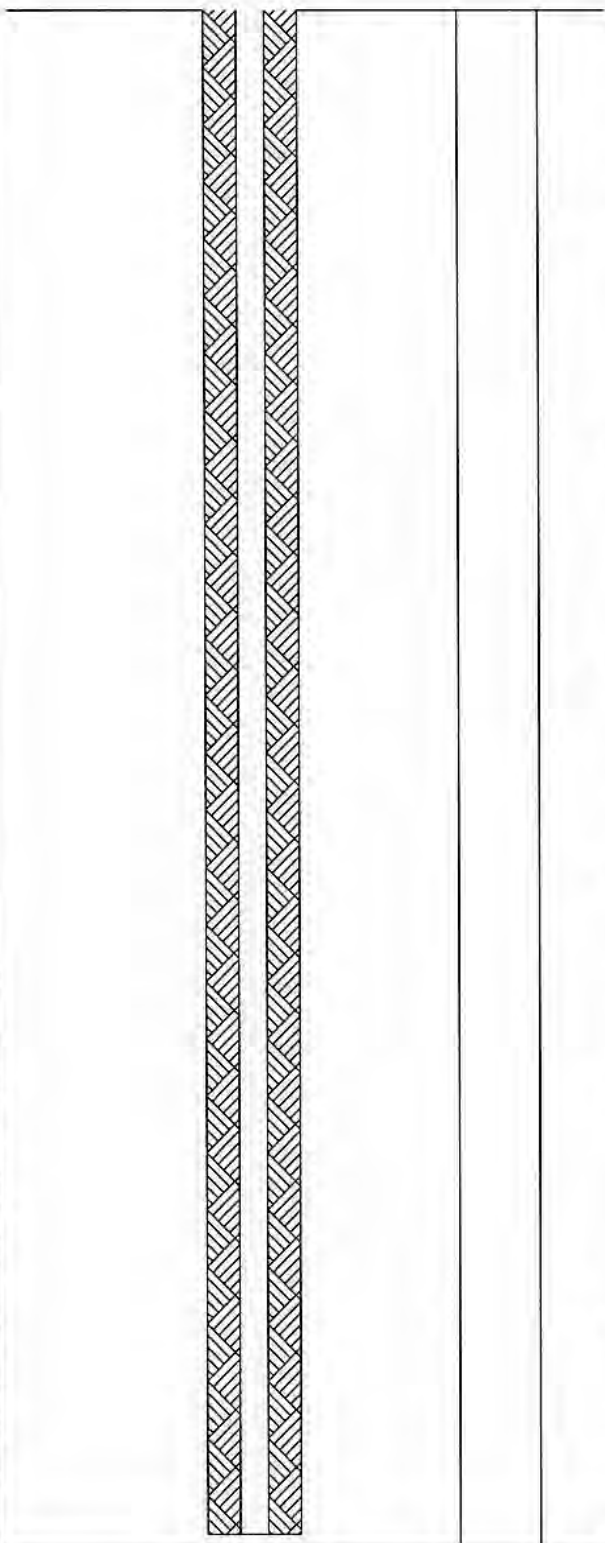
REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**Well Construction Details and Log of Boring MW-BW-26-180** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

**A30**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	55596 001701	<i>WST / am</i>	11/04	

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

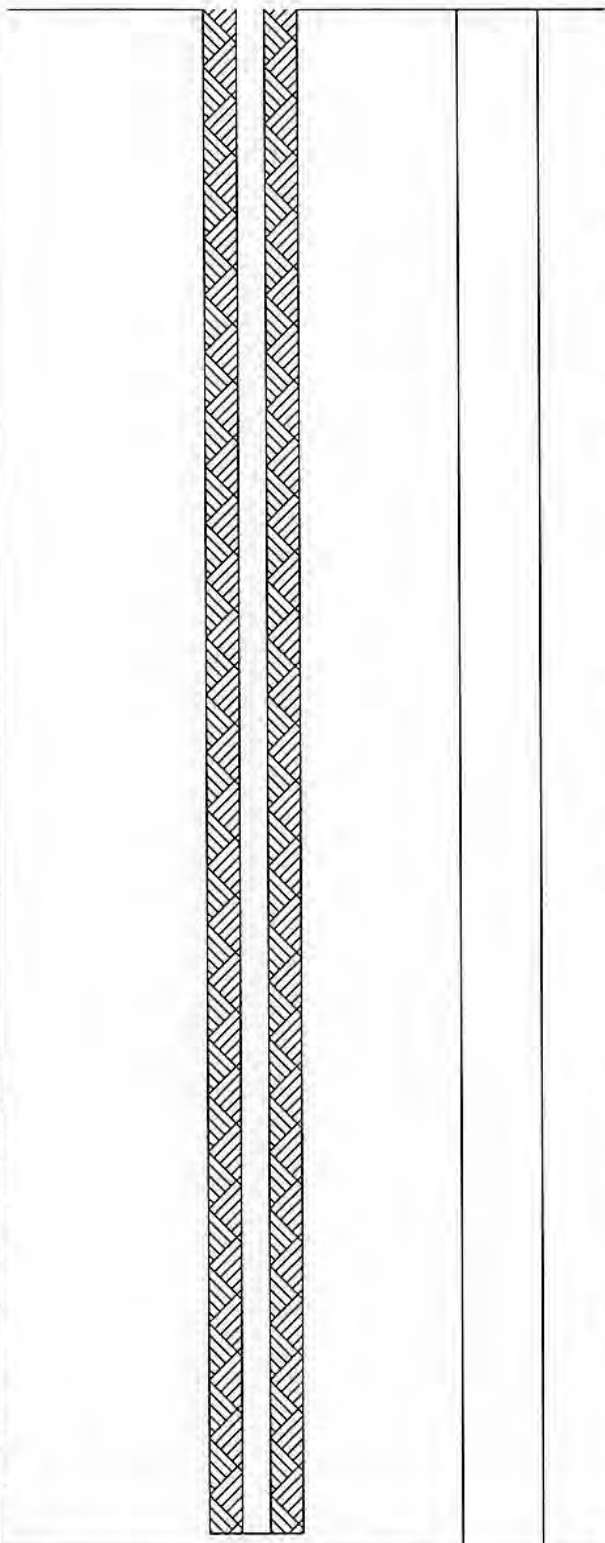
Depth (ft.)  
Sample

105  
110  
115  
120  
125  
130  
135  
140

@ 105 FT.: Similar to above  
 @ 110 FT.: Similar to above  
 @ 115 ft.: Similar to above  
 @ 120 FT.: Similar to above  
 @ 125 FT.: Similar to above  
 @ 130 FT.: Similar to above

LIGHT YELLOWISH BROWN SANDY FAT CLAY (CH) (2.5Y 6/3) Soft, moist, 70% clay, 30% fine sand  
 OLIVE FAT CLAY WITH SAND (CH) (5Y 5/3), soft, moist, 80% clay, 20% fine sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and Log of Boring MW-BW-26-180**

PLATE



**MACTEC**

OUCTP

Fort Ord, California

**A30**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*[Signature]*

DATE  
11/04

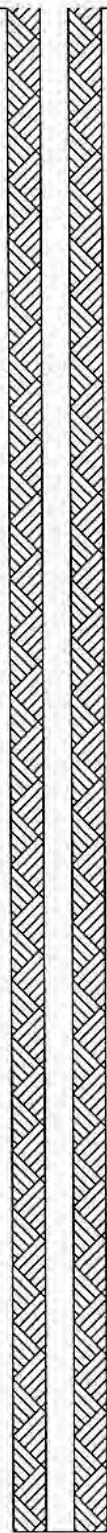
REVISED DATE



Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
Sample

140  
145  
150  
155  
160  
165  
170  
175



@ 140 FT.: Similar to above

@ 145 FT.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, wet, 90% fine to medium sand, 10% fat clay

@ 155 FT.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/3) Medium stiff, moist, 95% clay, 5% fine sand

DARK GREENISH GRAY FAT CLAY (CH) (5G 4/1) Stiff, moist, 95% clay, 5% fine sand

@ 170 FT.: Similar to above

DARK GREENISH GRAY SILTY SAND (SM) (5BG 4/1) Loose, wet, 70% fine sand, 30% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-26-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A30**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
 Sample

175  
 180  
 185  
 190  
 195  
 200  
 205  
 210



DARK GREEN GRAY FAT CLAY (CH) (5G 4/1) Medium stiff, moist, 95% clay, 5% fine sand

@ 185 FT.: Similar to above

OLIVE WELL-GRADED SAND (SW) (5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% fat clay

@ 195 ft.: Similar to above

@ 200 ft.: Increase in coarse-grained sand  
 NOTE: If gravels exist, they may have been chewed up by Tricone Rotary Bit

@ 205 FT.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-26-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A30**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

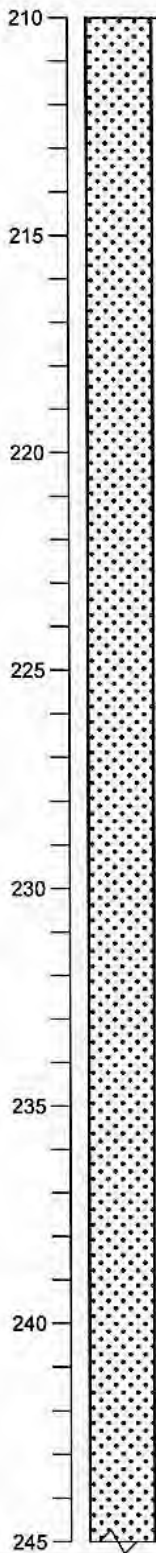
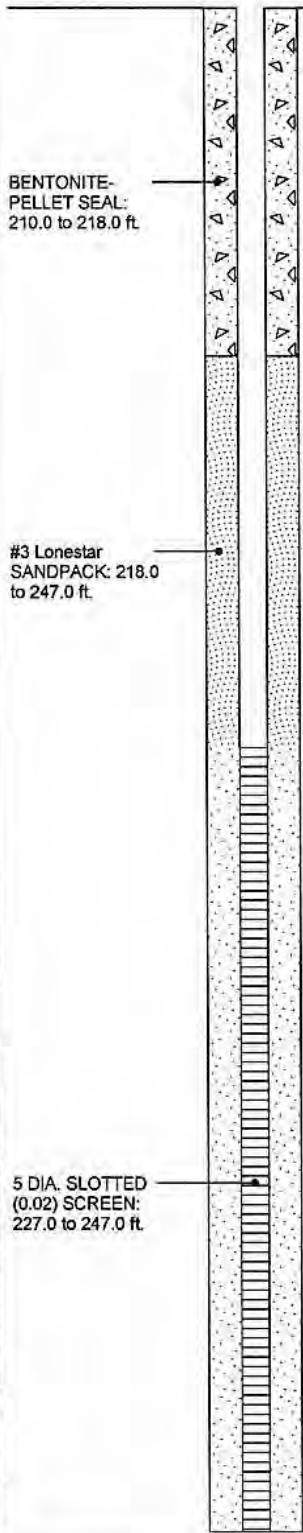
APPROVED  
*MDT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
 Sample



@ 210 FT.: Similar to above

@ 215 ft.: Similar to above

@ 220 FT.: Similar to above

@ 225 FT.: Similar to above

@ 230 FT.: Similar to above

@ 235 FT.: Similar to above

@ 240 FT.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-26-180

PLATE



MACTEC

Fort Ord, California

**A30**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*MDT / am*

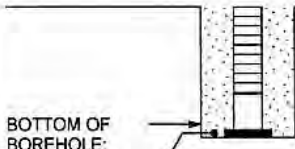
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11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.7 ft. Hole Dia. 10 5/8 in.  
 Northing 2141055.189 Easting 5747063.385

Depth (ft.)  
 Sample

245



BOTTOM OF BOREHOLE:  
 248.0 ft.  
 BOTTOM WELL CAP:  
 248.0 ft.



LIGHT OLIVE BROWN CLAYEY SAND  
 (SC) (2.5Y 5/3) Medium dense, 70% fine  
 sand, 30% clay

BORING\_WELL\_OUCTP OUCTP&GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-26-180**  
 OUCTP

Fort Ord, California

PLATE

**A30**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CSN	55596 001701	<i>MTT / cm</i>	11/04	

Completion Date 6/19/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.4 ft. Hole Dia. 12 in.  
 Northing 2140994.848 Easting 5747191.669

Top of PVC Casing  
 Elev. 165.51 ft.

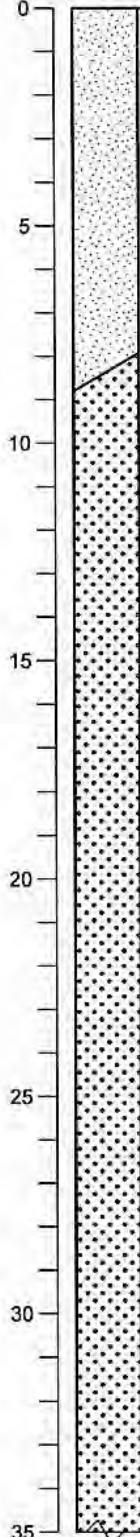
GROUND SURFACE

Top of casing at  
 2.11 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: +2.11 ft.  
 to 101.0 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 91.0 ft.

Depth (ft.)  
 Sample



DARK BROWN POORLY GRADED FINE  
 SAND WITH SILT (SP) (10YR 3/3) Loose,  
 dry, 90% fine sand, 10% silt

@ 5 ft.: Color change to yellowish brown

YELLOWISH BROWN WELL GRADED  
 SAND WITH SILT (SW) (10YR 5/8) Loose,  
 moist, 90% fine to medium sand, 10% silt

@ 15 ft.: Similar to above

@ 25 ft.: Similar to above

@ 27 ft.: Some roots and fragments of  
 concrete

@ 32 ft.: Roots

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and  
 Log of Boring MW-BW-26-A  
 OUCTP

PLATE

Fort Ord, California

**A31**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
 MDT/aw

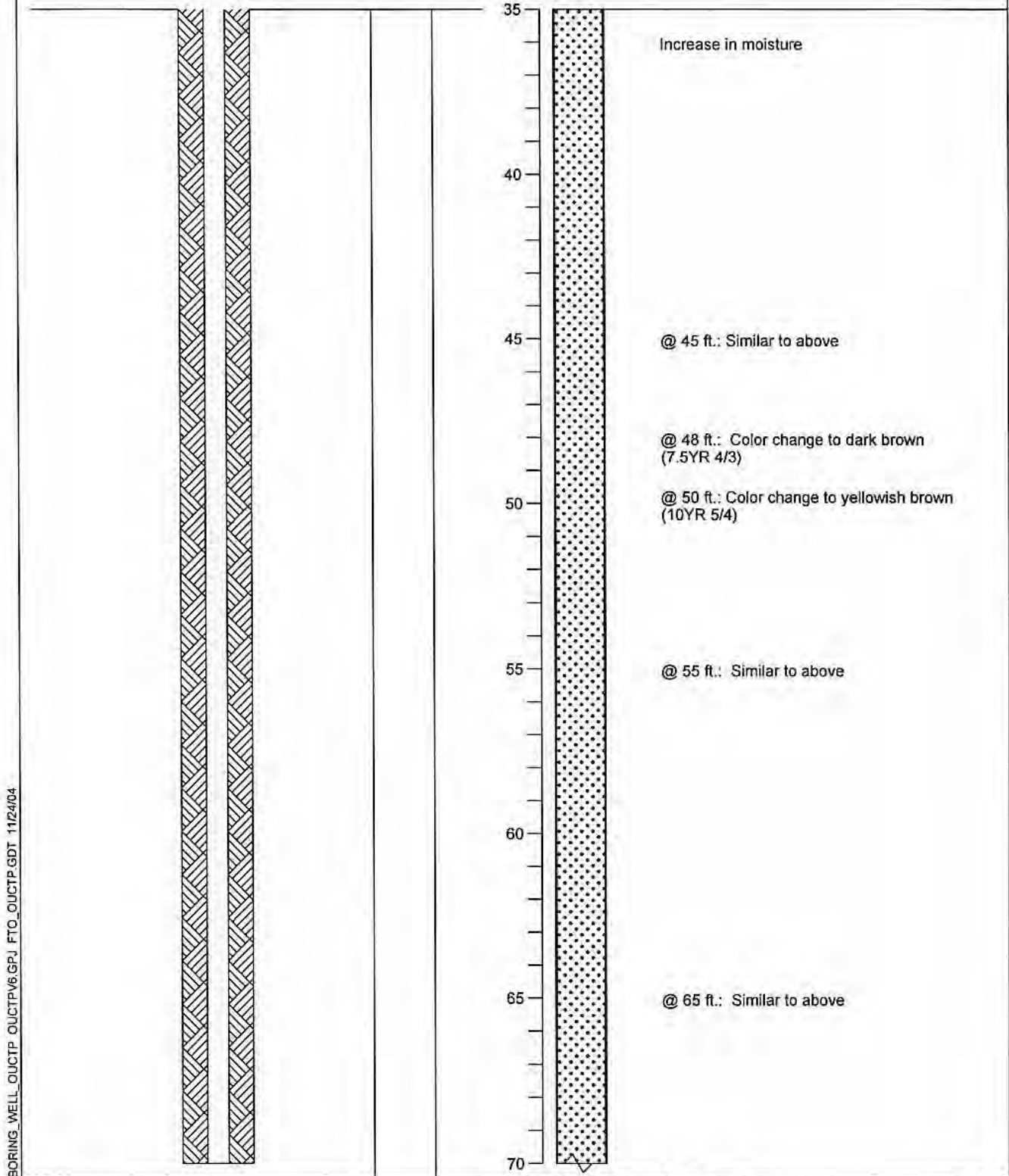
DATE  
 11/04

REVISED DATE



Completion Date 6/19/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.4 ft. Hole Dia. 12 in.  
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)  
 Sample



BORING WELL\_OUCTP OUCTPV6 GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-26-A  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A31**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

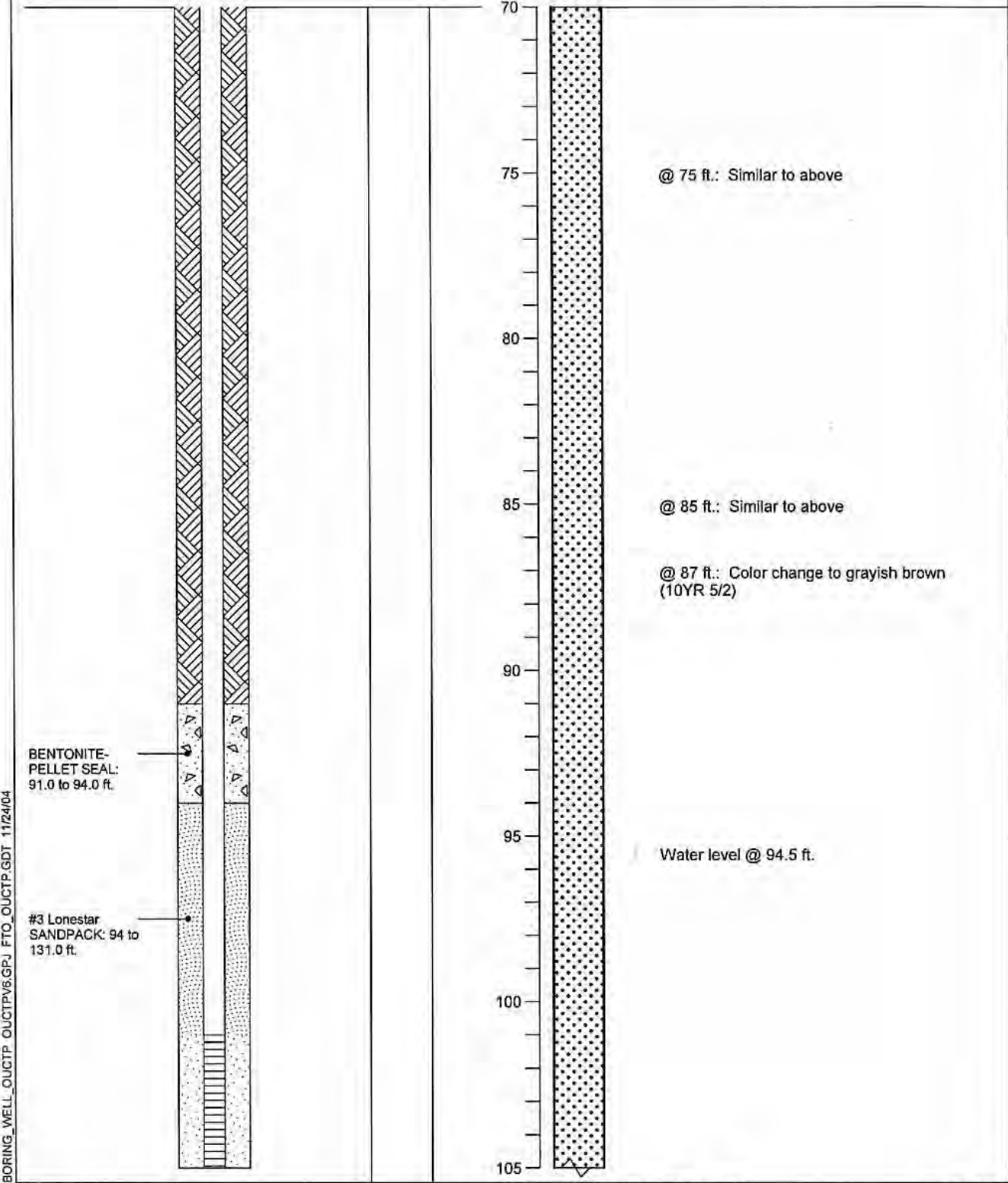
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*MDT / cur*

DATE  
 11/04

REVISED DATE

Completion Date 6/19/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.4 ft. Hole Dia. 12 in.  
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)  
 Sample



Well Construction Details and Log of Boring MW-BW-26-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A31**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

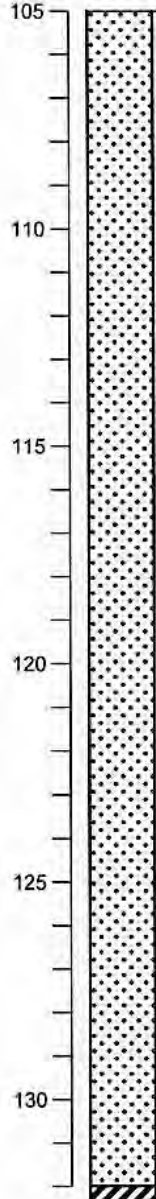
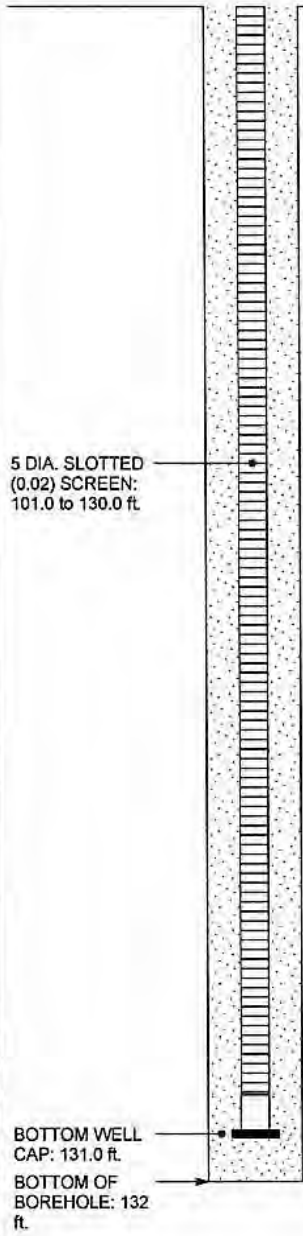
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*MDT / am*

DATE  
 11/04

REVISED DATE

Completion Date 6/19/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 163.4 ft. Hole Dia. 12 in.  
 Northing 2140994.848 Easting 5747191.669

Depth (ft.)  
 Sample



@ 105 ft.: Similar to above

@ 115 ft.: Similar to above

@ 125 ft.: Similar to above

@ 132 ft.: LIGHT YELLOWISH BROWN FAT CLAY (CH) (10YR 6/4) Medium stiff, wet, 5% silt  
 NOTE: Confirm that driller touched clay with auger by looking at the drill bit on lead auger after being taken out of the ground.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-26-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A31**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / am*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 155.79 ft.

Completion Date 6/22/2000  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 153.7 ft. Hole Dia. 12 in.  
Northing 2141492.27 Easting 5747633.077

GROUND SURFACE  
Top of casing at  
2.09 ft. above  
ground level

5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +2.09 ft.  
to 79.0 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 71.5 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

BROWN WELL GRADED FINE SAND (SP)  
(7.5YR 4/2) Loose, dry, 95% fine sand, 5%  
silt

BROWN WELL GRADED SAND (SP)  
(7.5YR 5/3) Loose, dry, 95% fine to  
medium sand, 5% silt

@ 13 ft.: Color change to pale brown (10YR  
6/3)

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



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Well Construction Details and  
Log of Boring MW-BW-27-A  
OUCTP

PLATE

Fort Ord, California

**A32**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*MOT/cun*

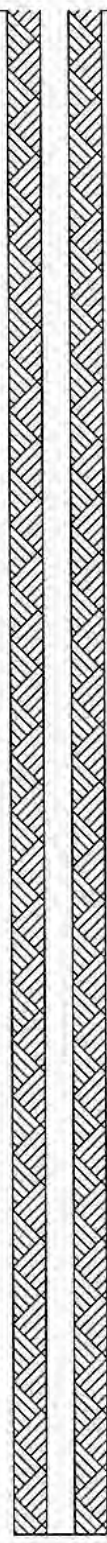
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11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 153.7 ft. Hole Dia. 12 in.  
 Northing 2141492.27 Easting 5747633.077

Depth (ft.)  
 Sample

35  
40  
45  
50  
55  
60  
65  
70



@ 35 ft.: Color change to light yellowish brown (10YR 6/4)

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-27-A  
 OUCTP

PLATE

**A32**

Fort Ord, California

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

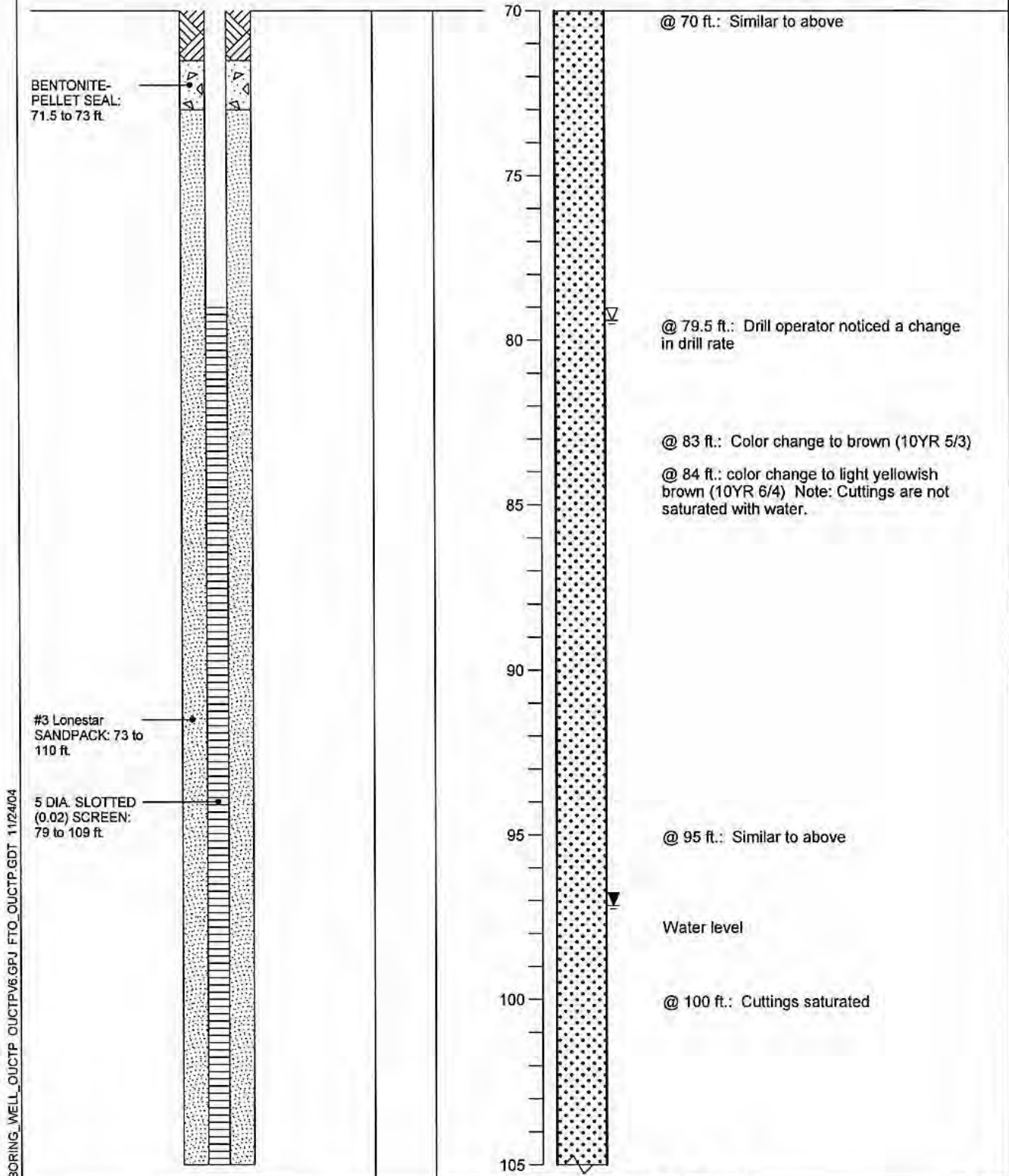
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*MDT / cur*

DATE  
 11/04

REVISED DATE



Completion Date 6/22/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 153.7 ft. Hole Dia. 12 in.  
 Northing 2141492.27 Easting 5747633.077



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-27-A  
 OUCTP

PLATE

**A32**

Fort Ord, California

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

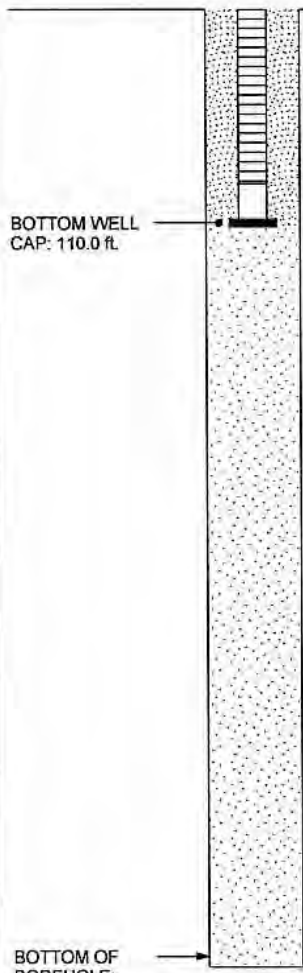
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*MDT / cur*

DATE  
 11/04

REVISED DATE

Completion Date 6/22/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 153.7 ft. Hole Dia. 12 in.  
 Northing 2141492.27 Easting 5747633.077

Depth (ft.)  
 Sample



BOTTOM OF BOREHOLE: 127.0 ft.

105  
 110  
 115  
 120  
 125

@ 105 ft.: Similar to above

LIGHT YELLOWISH BROWN FAT CLAY (CH) (10YR 6/4) Medium stiff, wet, 5% silt

BROWN WELL GRADED SAND (SP) (7.5YR 3/3) Loose, dry, 95% fine to medium sand, 5% silt

@ 123 ft.: Note: Traces of clay on retrieval; driller notices an decrease in drill rate

@ 125.5 ft.: Driller notices an increase in drill rate

LIGHT YELLOWISH BROWN FAT CLAY (CH) (10YR 6/4) Medium stiff, wet, 5% silt  
 Note: Driller notices a decrease in drill rate, stops drilling. After 8 in. augers taken out of ground, confirm clay on drill bit.  
 Bottom of borehole. Borehole backfilled from 127 ft. to 118 ft. (8 in.) and from 118 ft. to 110 ft. (12 in.)

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-27-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A32**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

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*MOT / cm*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 143.16 ft.

Completion Date 6/21/2000  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 141.4 ft. Hole Dia. 12 in.  
Northing 2141504.804 Easting 5748216.839

GROUND SURFACE

Top of casing at  
1.76 ft. above  
ground level

5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: 1.76 to  
83.0 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 73.0 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

STRONG BROWN WELL GRADED FINE  
SAND (SP) (7.5YR 4/6) Loose, dry, 95%  
fine sand, 5% silt

@ 7 ft.: Color change to brownish yellow  
(10YR 6/6)

@ 15 ft.: Similar to above

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
Log of Boring MW-BW-28-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A33**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED

*MTJ/cwr*

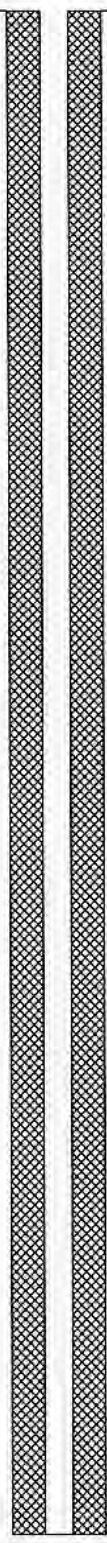
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11/04

REVISED DATE

Completion Date 6/21/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 141.4 ft. Hole Dia. 12 in.  
 Northing 2141504.804 Easting 5748216.839

Depth (ft.)  
 Sample

35  
 40  
 45  
 50  
 55  
 60  
 65  
 70



@ 35 ft.: Similar to above

@ 45 ft.: Similar to above

@ 55 ft.: Similar to above

@ 65 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-28-A**

PLATE



**MACTEC**

OUCTP

Fort Ord, California

**A33**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

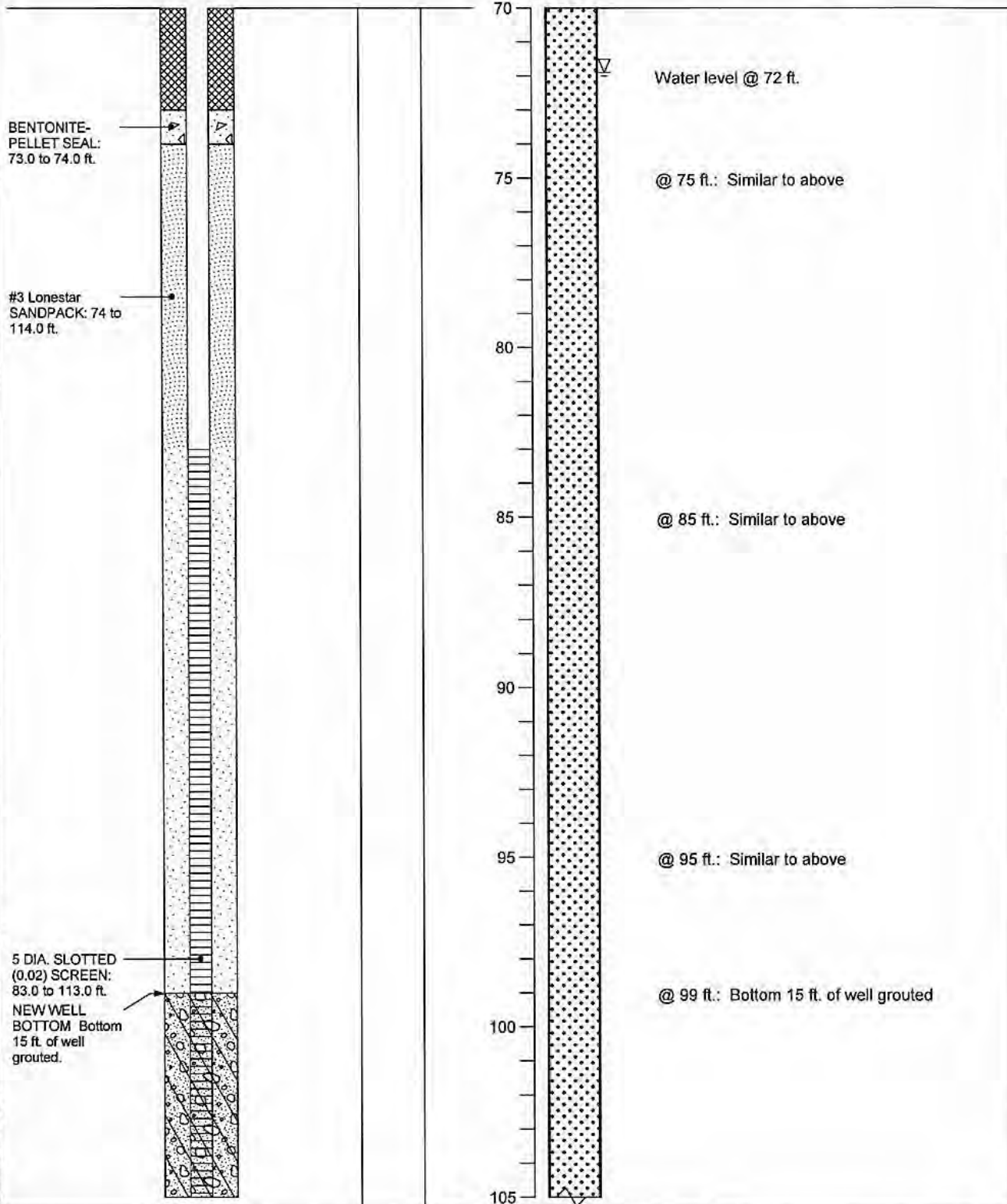
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*MDT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 6/21/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 141.4 ft. Hole Dia. 12 in.  
 Northing 2141504.804 Easting 5748216.839

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-28-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A33**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

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*MDT / CW*

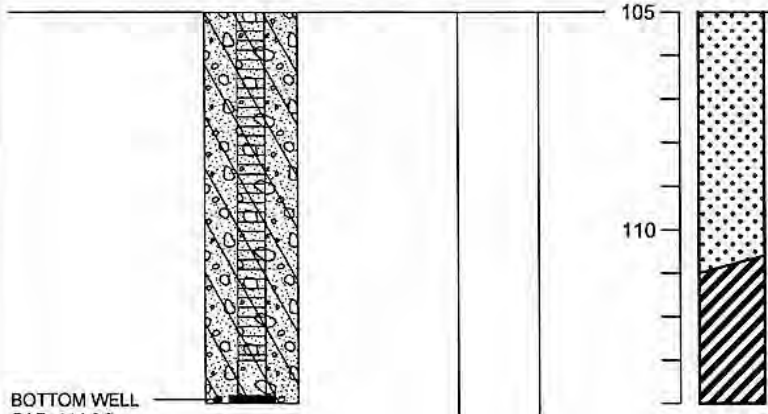
DATE  
 11/04

REVISED DATE



Completion Date 6/21/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 141.4 ft. Hole Dia. 12 in.  
 Northing 2141504.804 Easting 5748216.839

Depth (ft.)  
 Sample



BOTTOM WELL  
 CAP: 114.0 ft  
 BOTTOM OF  
 BOREHOLE:  
 114.0 ft.

LIGHT BROWNISH FAT CLAY (CH) (10YR  
 6/2) Stiff, wet, 5% silt

Bottom of boring at 114 ft.

Note: Bottom 15 feet of well grouted on  
 9/28/00 to seal perforation of clay from 96 to  
 105 feet BGS as noted on the geophysical  
 log (not observed in cuttings).

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-28-A**  
 OUCTP

PLATE

**A33**

Fort Ord, California

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*MST / cm*

DATE  
 11/04

REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

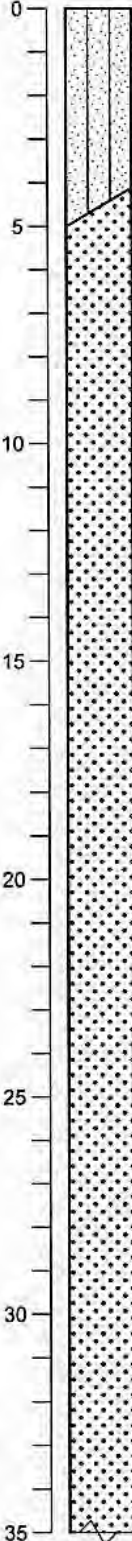
Top of PVC Casing  
 Elev. 148.80 ft.

GROUND SURFACE  
 Top of casing at  
 2.5 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: +2.5 ft.  
 to 200.0 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 187.0 ft.

Depth (ft.)  
 Sample



VERY DARK GRAYISH BROWN SILTY  
 SAND (SM) (10YR 3/2) Loose, dry, 75%  
 fine to coarse sand, 25% silt

BROWN WELL-GRADED SAND (SW)  
 (10YR 4/3) Loose, dry, 90% fine to coarse  
 sand, 10% silt

@ 7 ft.: Color change to yellowish brown  
 well-graded sand (SW) (10YR 5/6)

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-29-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A34**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*MOT/EM*

DATE  
 11/04

REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
Sample

35  
40  
45  
50  
55  
60  
65  
70

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 48 ft.: Similar to above

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

DARK GREENISH GRAY SILT (ML) (5G 4/1) Stiff, moist, 90% silt, 10% fine sand

YELLOWISH BROWN WELL-GRADED SAND (SW) (10YR 5/6) Loose, dry, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-29-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A34**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED  
*MDT / [Signature]*

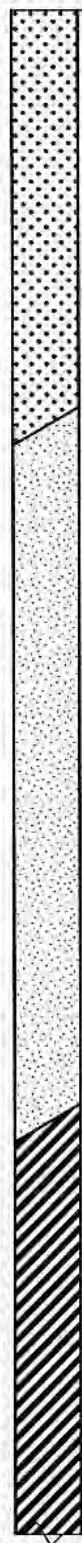
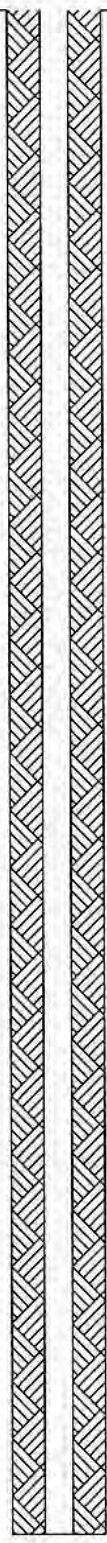
DATE  
11/04

REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
 Sample

70  
 75  
 80  
 85  
 90  
 95  
 100  
 105



@ 75 ft.: Similar to above

BROWNISH YELLOW POORLY-GRADED SAND (SP) (10YR 6/8) Loose, 100% fine to medium sand

@ 85 ft.: Color change to light olive brown poorly-graded sand (2.5Y 5/6)

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

OLIVE SANDY FAT CLAY (CH) (5Y 5/4)  
 Soft, moist, 50% clay, 40% fine sand

OLIVE SANDY FAT CLAY (CH) (5Y 5/4)  
 Medium stiff, moist, 70% clay, 30% fine to medium sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-29-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A34**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*WOT/cmr*

DATE  
 11/04

REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
 Sample



OLIVE GRAY FAT CLAY (CH) (5Y 5/2),  
 soft, moist, 75% clay, 25% fine to medium  
 sand

@ 115 ft.: Similar to above

OLIVE SANDY FAT CLAY (CH) (5Y 5/2)  
 Soft, moist, 65% clay, 35% fine sand  
 OLIVE FAT CLAY (CH) (5Y 5/2) Soft,  
 moist, 80% clay, 20% fine sand

@ 130 ft.: Similar to above

OLIVE GRAY POORLY GRADED SAND  
 (SP) (5Y 5/2) Loose, 90% fine to medium  
 sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTP#6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-29-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A34**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

APPROVED  
*MBT/cw*

DATE  
 11/04

REVISED DATE



Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
 Sample

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



@ 140 ft.: Similar to above

OLIVE GRAY WELL GRADED SAND (SW) (5Y 5/2) Loose, 95% fine to coarse, sand, 5% silt

@ 150 ft.: Similar to above

OLIVE GRAY CLAYEY SAND (SC) (5Y 4/2) Loose, 60% fine to medium sand, 40% clay

DARK BLUIISH GRAY FAT CLAY (CH) (5B 4/1) Medium stiff, moist, 90% clay, 10% fine sand

OLIVE GRAY CLAYEY SAND (SC) (5Y 4/2) Loose, 85% fine to coarse sand, 15% clay

OLIVE GRAY WELL-GRADED SAND (SW) (5Y 4/2) Loose, 95% fine to coarse sand, 5% silt

**Well Construction Details and Log of Boring MW-BW-29-180**

PLATE



**MACTEC**

Fort Ord, California

**A34**

DRAWN  
CSN

JOB NUMBER  
55596 001701

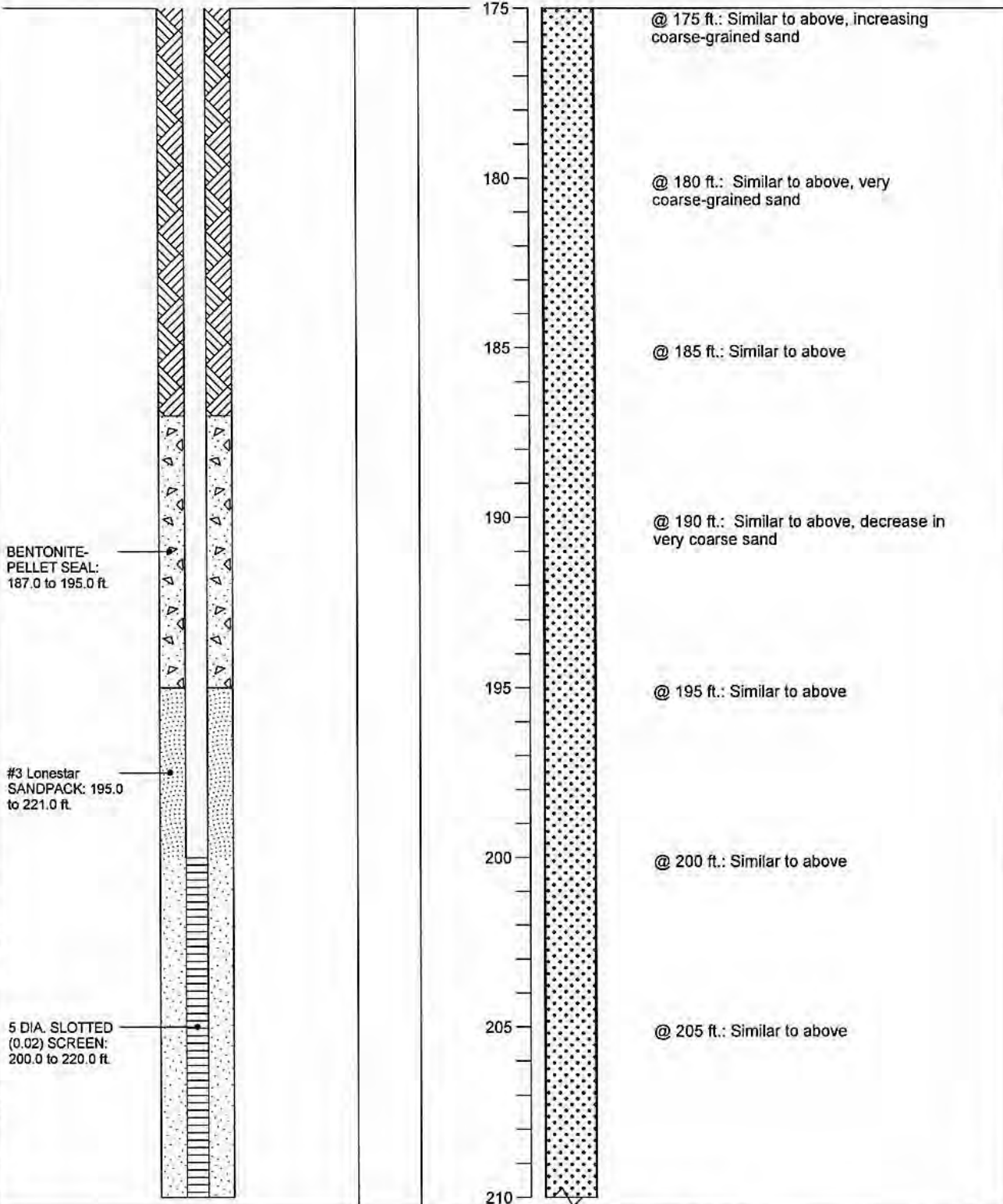
APPROVED  
*[Signature]*

DATE  
11/04

REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-29-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A34**

DRAWN  
 CSN

JOB NUMBER  
 55596 001701

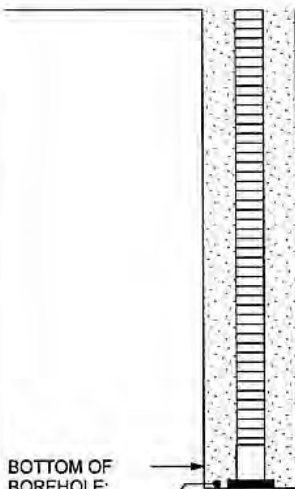
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DATE  
 11/04

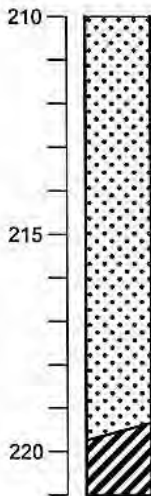
REVISED DATE

Completion Date 6/29/2000  
 Drilling Method ARCH - Mud Fluid  
 Logged by \_\_\_\_\_  
 Surface Elevation 146.3 ft. Hole Dia. 10 5/8 in.  
 Northing 2140951.749 Easting 5747985.78

Depth (ft.)  
Sample



BOTTOM OF BOREHOLE:  
221.0 ft.  
BOTTOM WELL  
CAP: 221.0 ft.



@ 210 ft.: Similar to above, sand grains to 1 cm with sharp edges, possible 5% fine gravel  
 Fine gravels have sharp edges, probably broken up by Tricone Rotary bit

@ 215 ft.: Similar to above

OLIVE GRAY SANDY FAT CLAY (CH) (5Y 5/2) Medium stiff, moist, 60% clay, 40% fine to coarse sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-29-180  
 OUCTP

Fort Ord, California

PLATE

**A34**

DRAWN  
CSN

JOB NUMBER  
55596 001701

APPROVED

*MDT/cwr*

DATE  
11/04

REVISED DATE

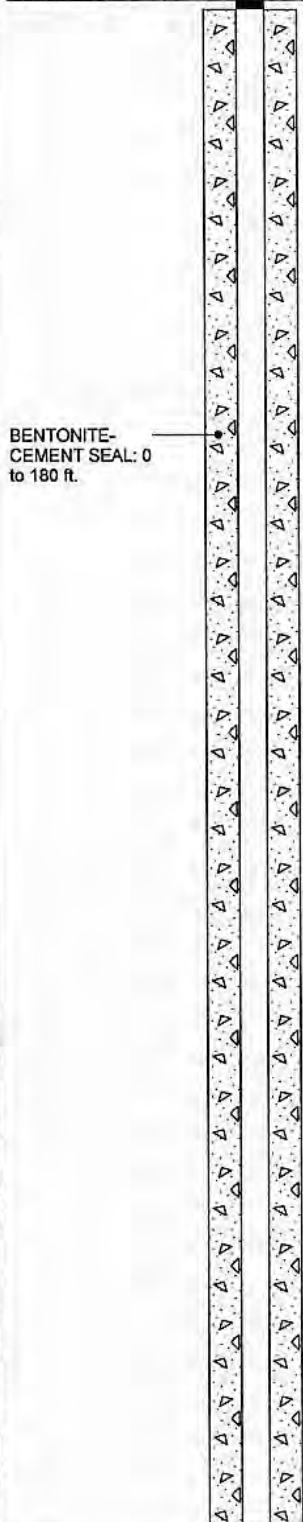
Top of PVC Casing  
Elev. 156.08 ft.  
CHRISTY  
BOX

Completion Date 9/5/2001  
Drilling Method ARCH/mud rotary  
Logged by G. Stone  
Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
Northing 2141302.81 Easting 5747078.38

GROUND SURFACE

Recovery (inches)  
Salinity  
Time

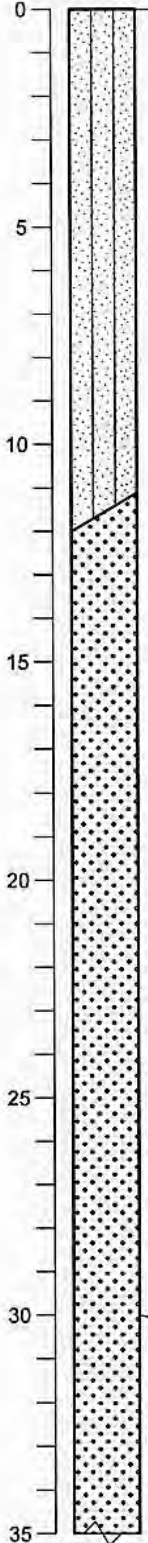
Depth (ft.)  
Sample



BENTONITE-  
CEMENT SEAL: 0  
to 180 ft.

9/05/2001 1025

1030



YELLOWISH BROWN SILTY SAND (SM)  
(10YR 5/6) Loose, dry, 80% fine to coarse  
sand, 20% silt

@ 5 ft.: Similar to above

@ 10 ft.: Similar to above

LIGHT YELLOWISH BROWN  
WELL-GRADED SAND (SW) (10YR 6/4)  
Loose, dry, 90% fine to coarse sand, 10%  
silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 29 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/4)  
@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-30-180  
OUCTP

PLATE

**A35**

Fort Ord, California

DRAWN  
TAC

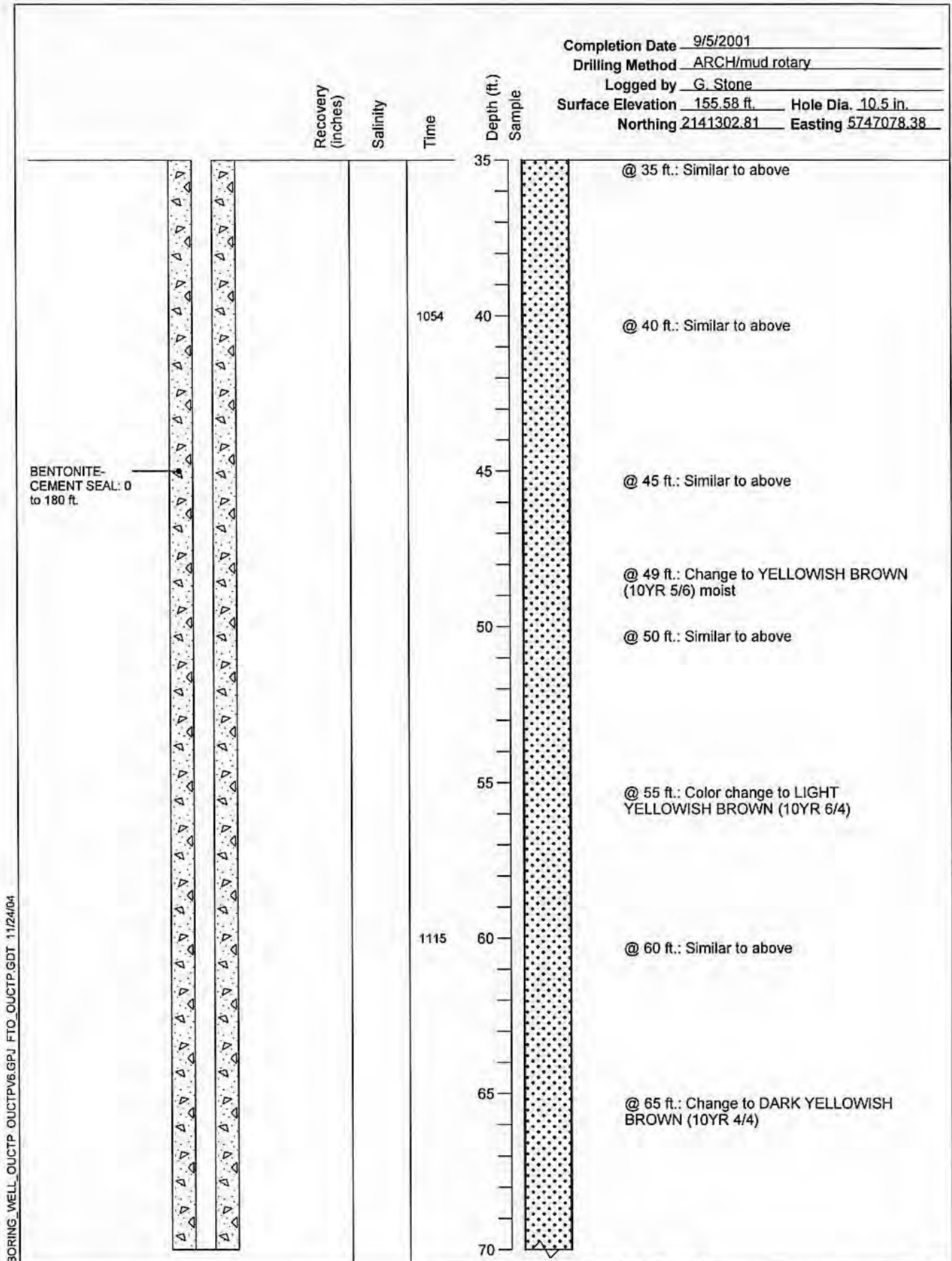
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APPROVED  
*[Signature]*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-30-180**  
OUCTP

PLATE

**A35**

Fort Ord, California

DRAWN  
TAC

JOB NUMBER  
55596 001701

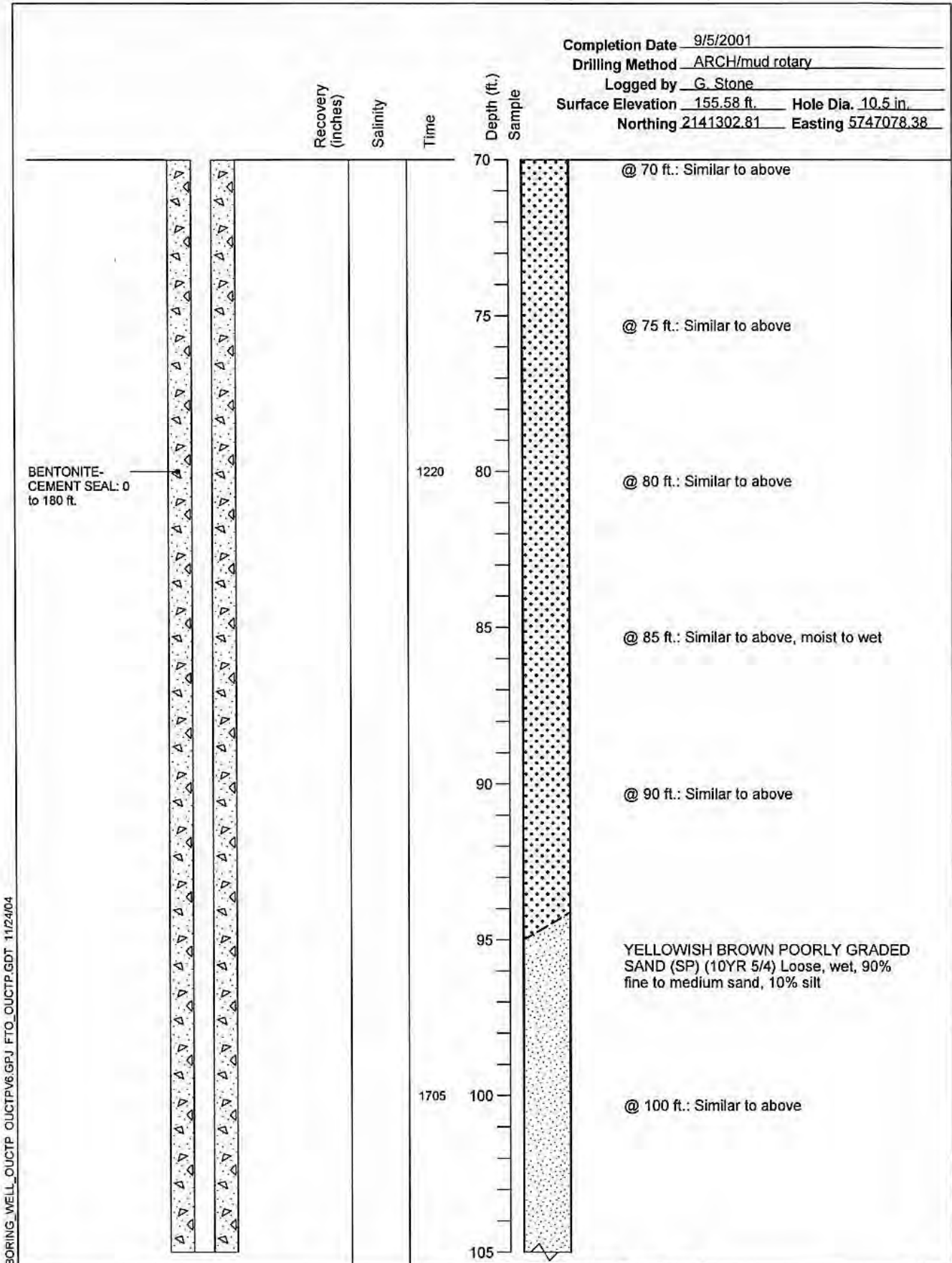
APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE



Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-30-180  
 OUCTP

PLATE

**A35**

Fort Ord, California

DRAWN  
TAC

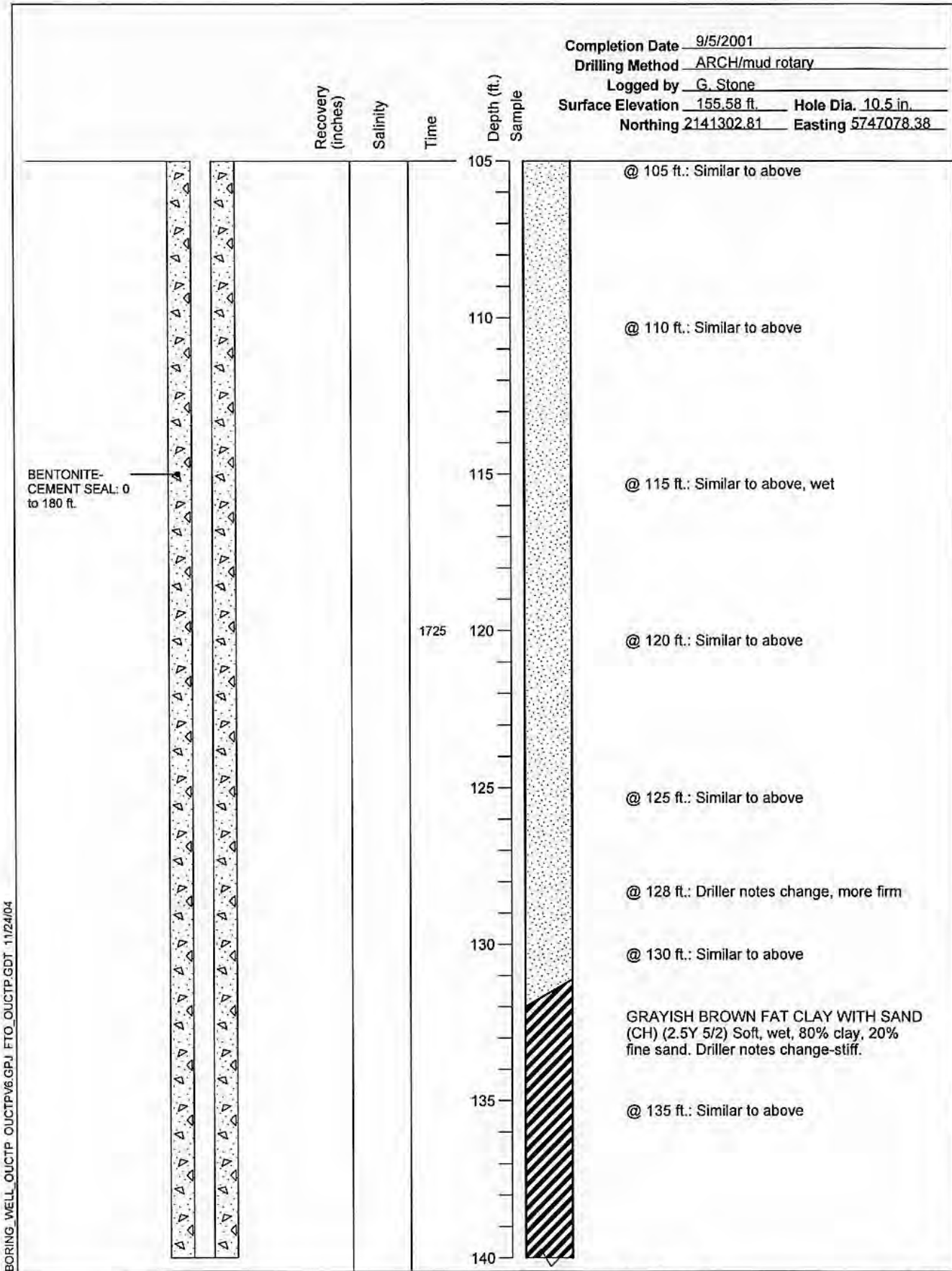
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APPROVED  
*MDT/cw*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and  
 Log of Boring MW-BW-30-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A35**

DRAWN  
TAC

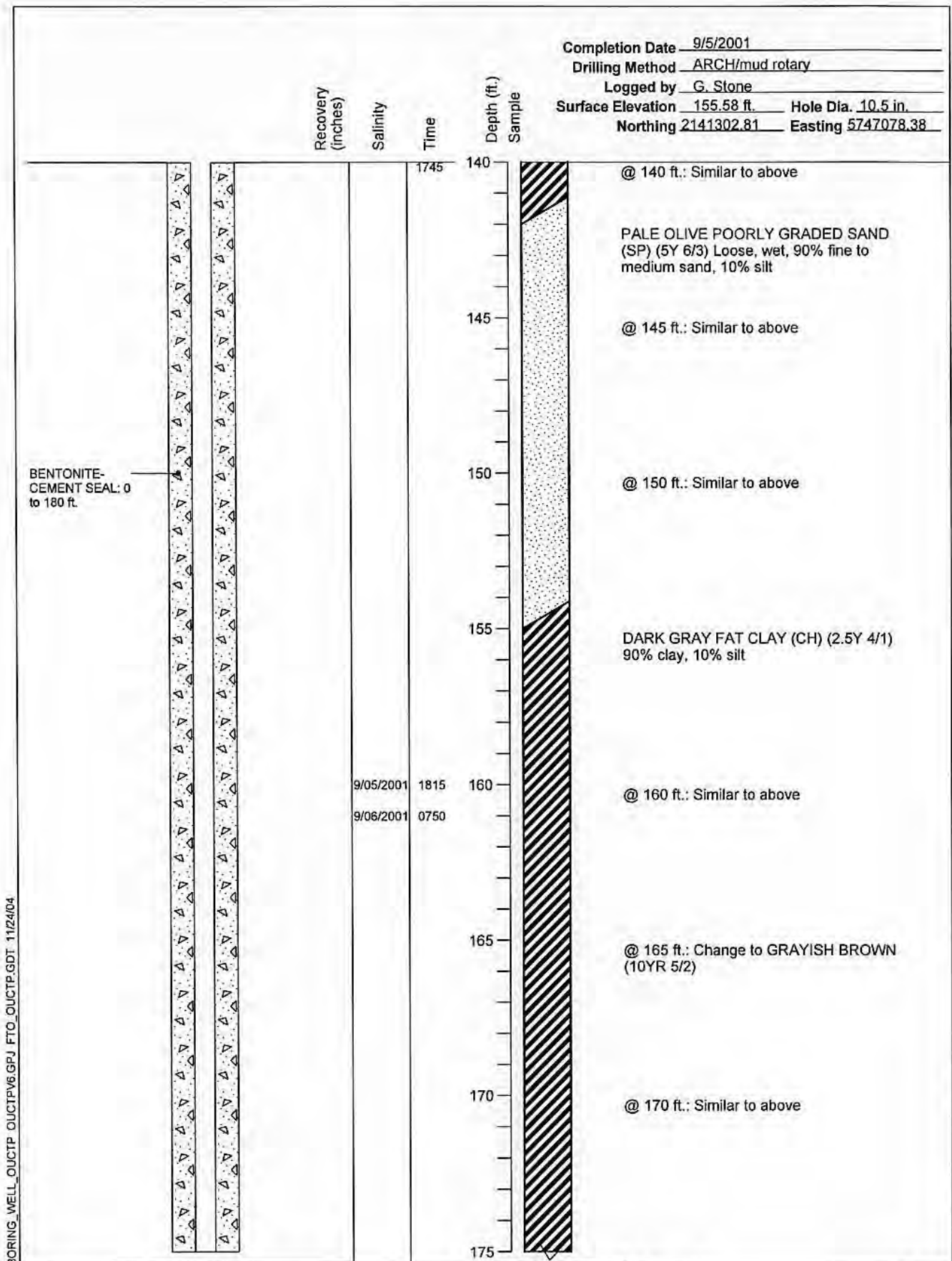
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APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and Log of Boring MW-BW-30-180  
OUCTP

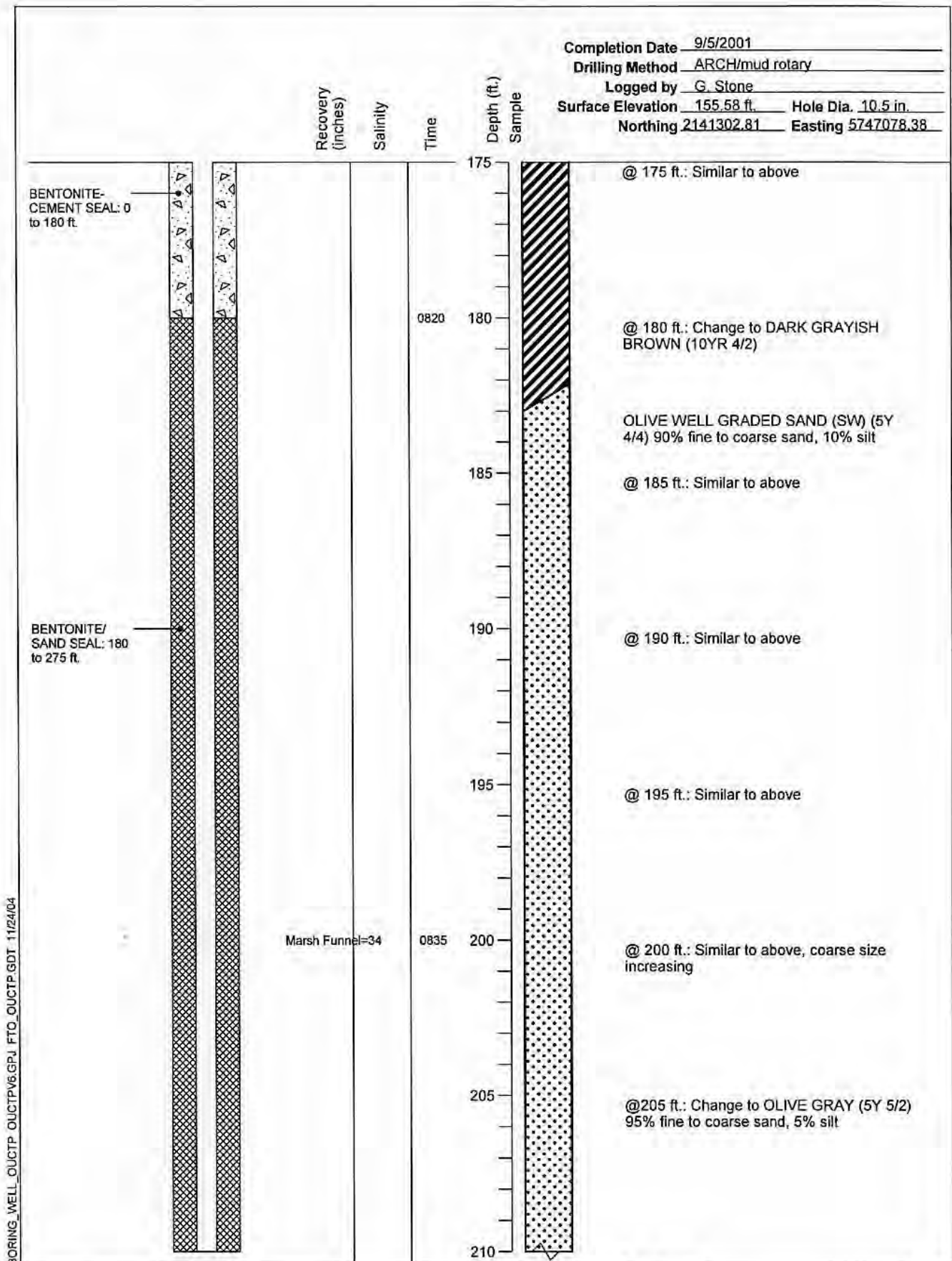
PLATE

**A35**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MAT/cw</i>	11/04	

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-30-180**  
OUCTP

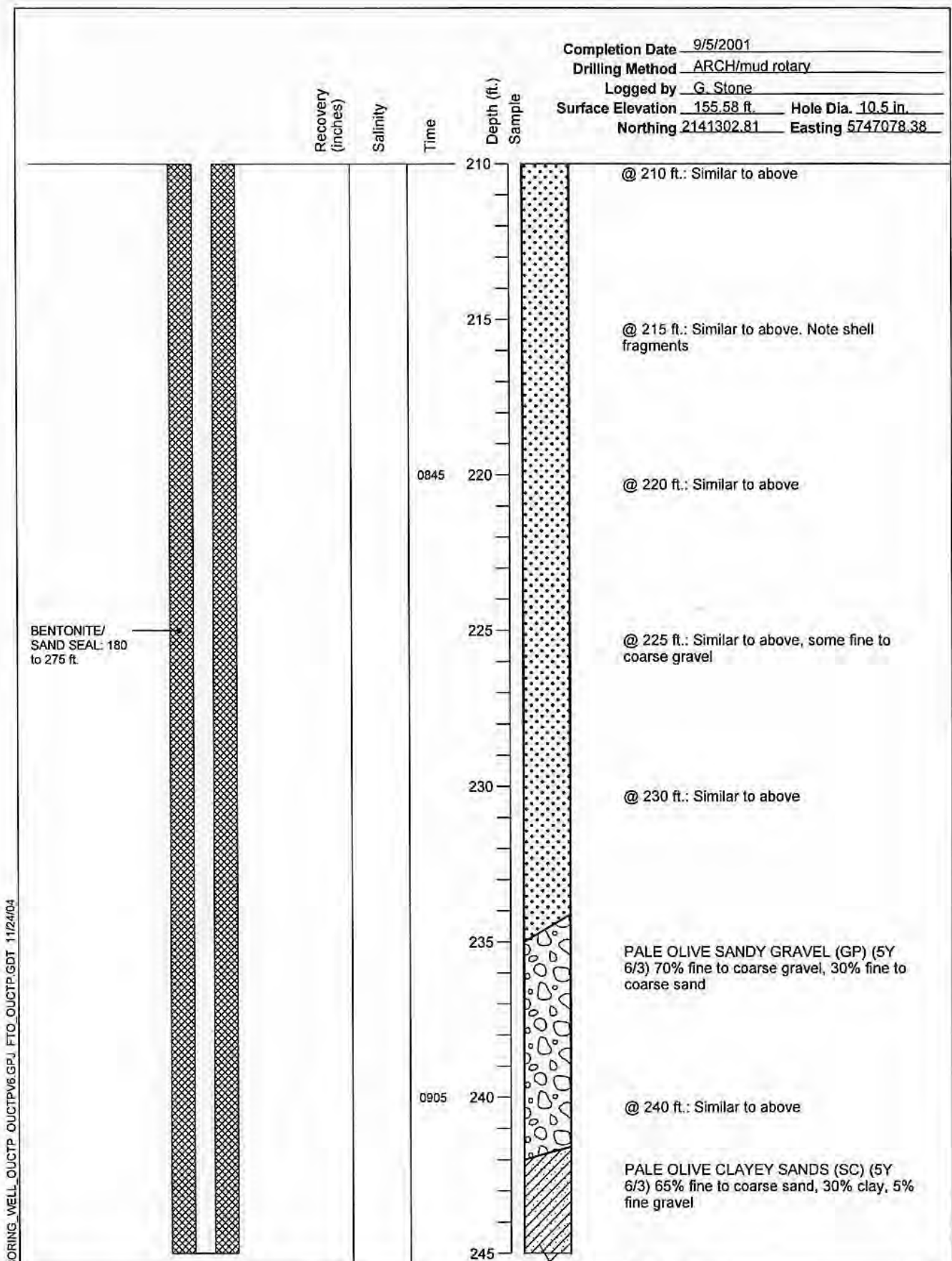
PLATE

**A35**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-30-180**  
 OUCTP

PLATE



**MACTEC**

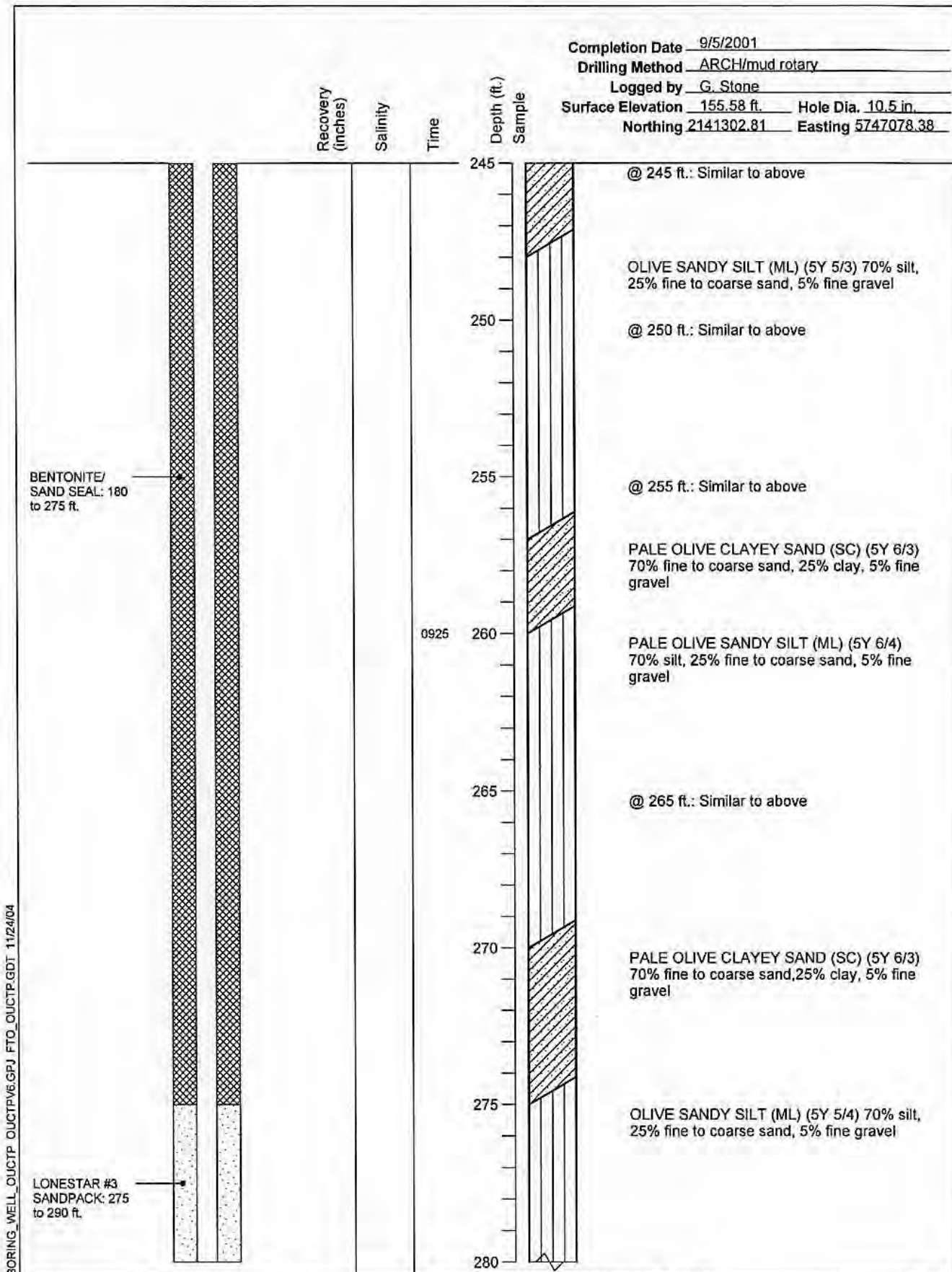
Fort Ord, California

**A35**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT</i>	11/04	



Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and Log of Boring MW-BW-30-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A35**

DRAWN  
TAC

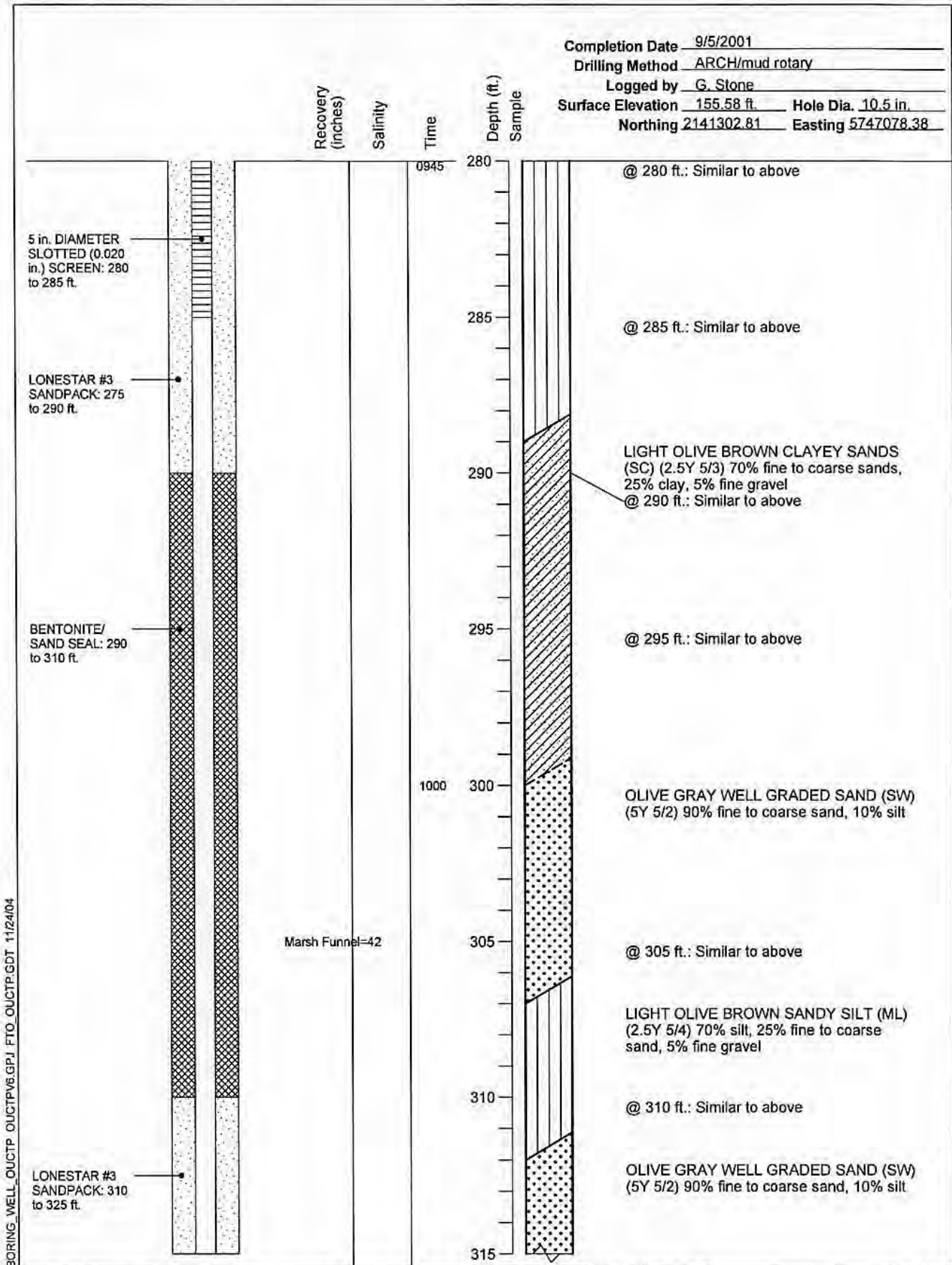
JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-30-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A35**

DRAWN  
TAC

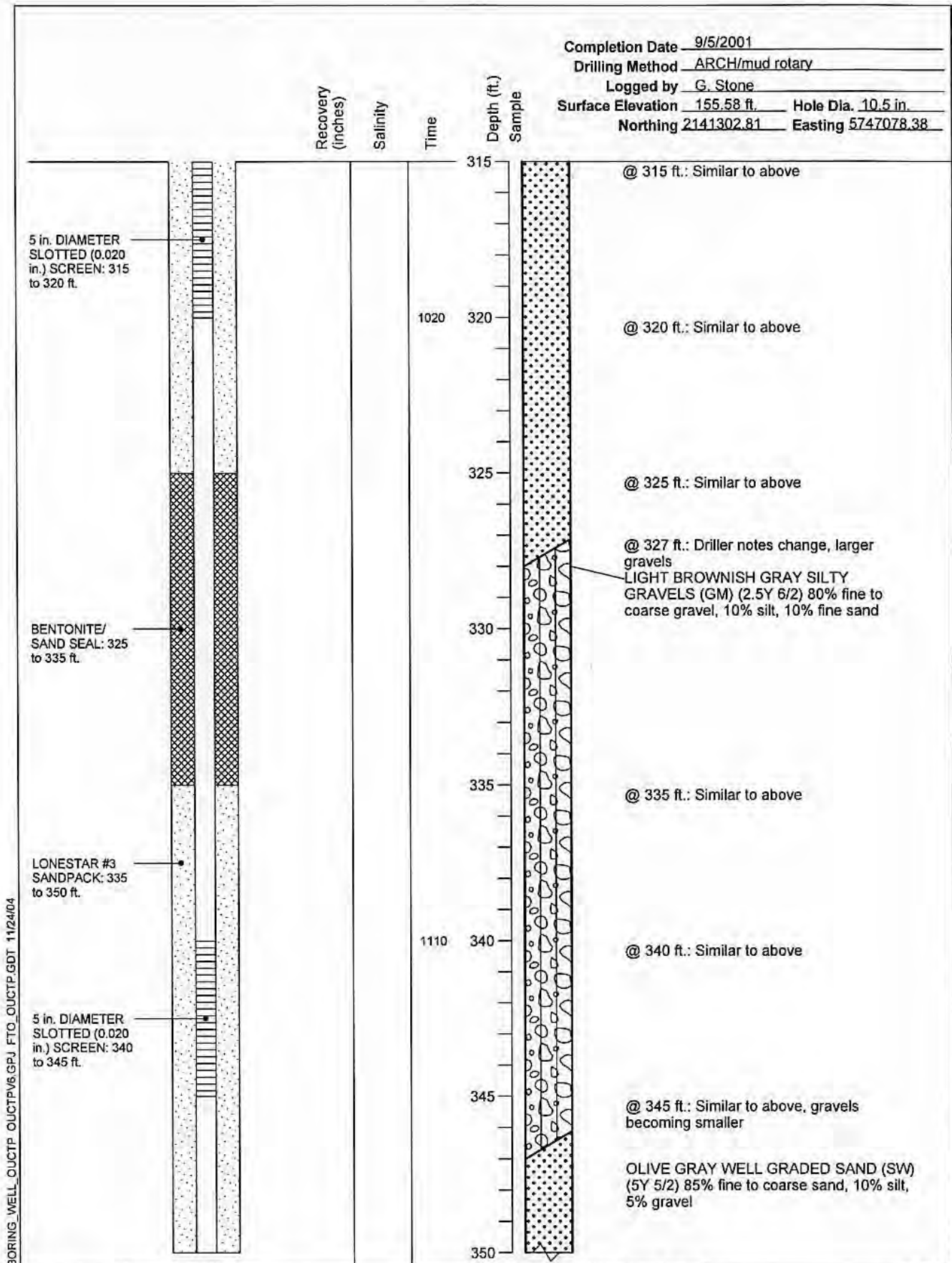
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APPROVED  
*WDT / m*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



**Well Construction Details and Log of Boring MW-BW-30-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A35**

DRAWN  
TAC

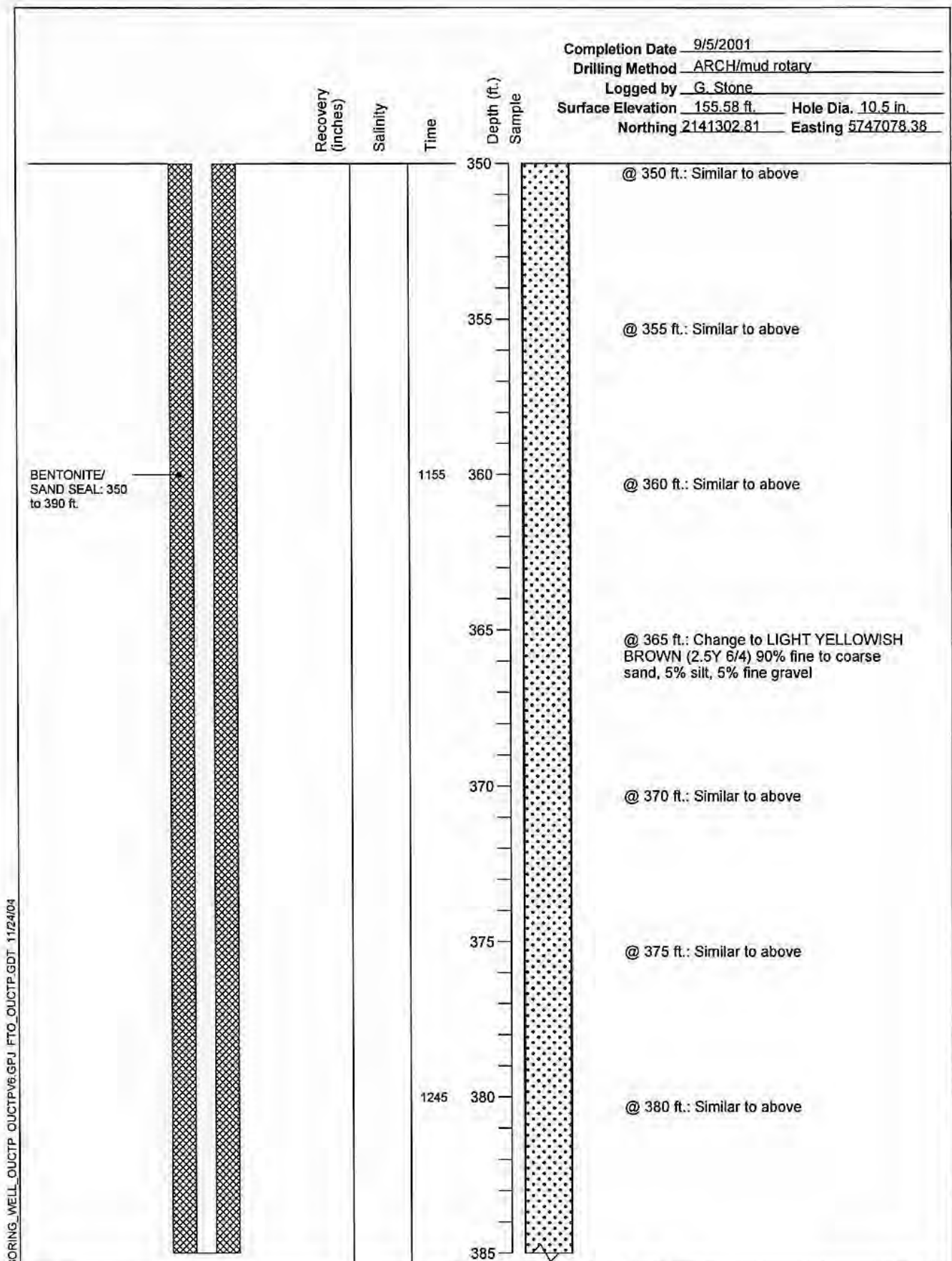
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APPROVED  
*[Signature]*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.36



Well Construction Details and Log of Boring MW-BW-30-180  
 OUCTP

PLATE



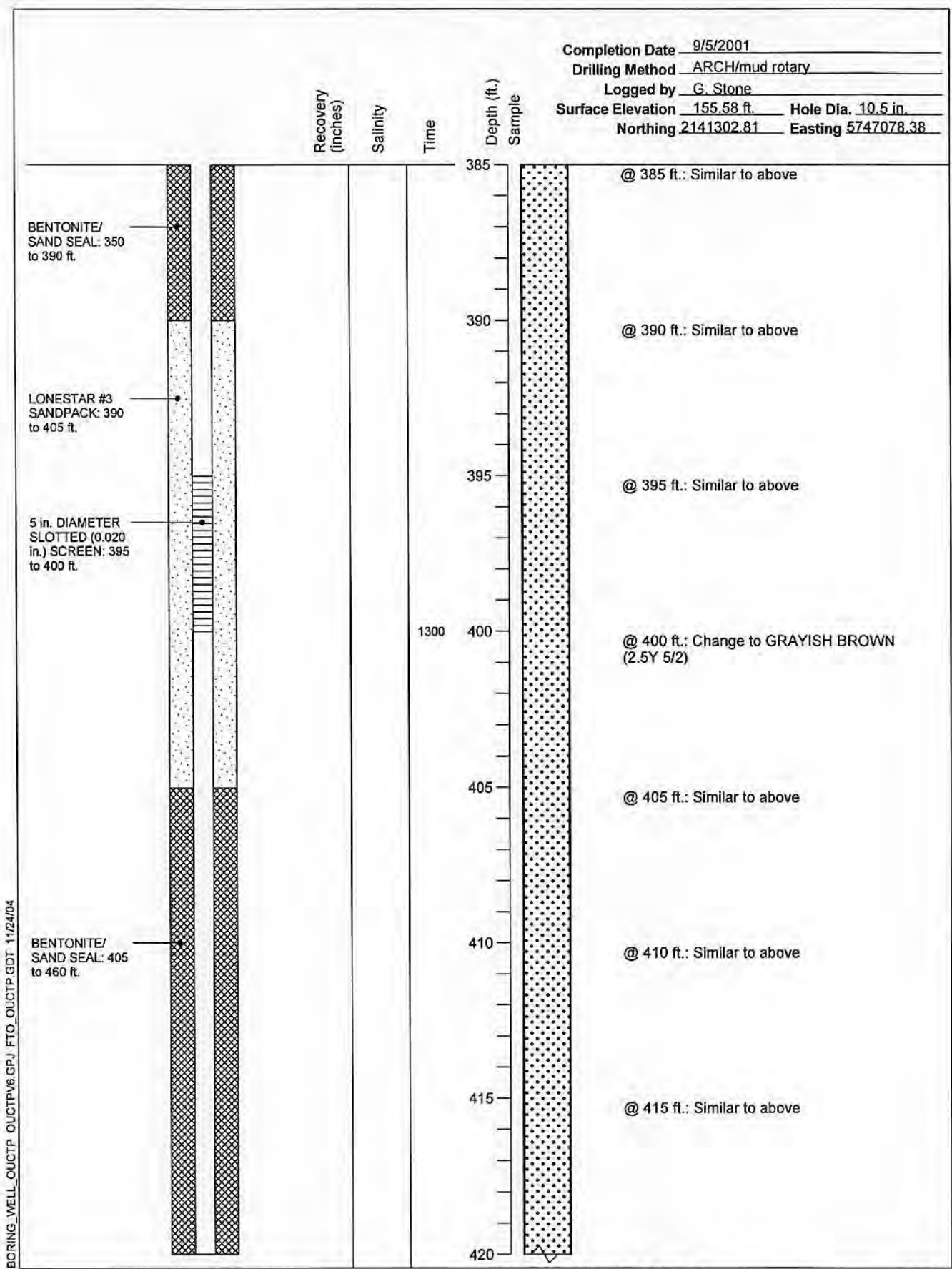
MACTEC

Fort Ord, California

**A35**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT / can</i>	11/04	

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and  
Log of Boring MW-BW-30-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A35**

DRAWN  
TAC

JOB NUMBER  
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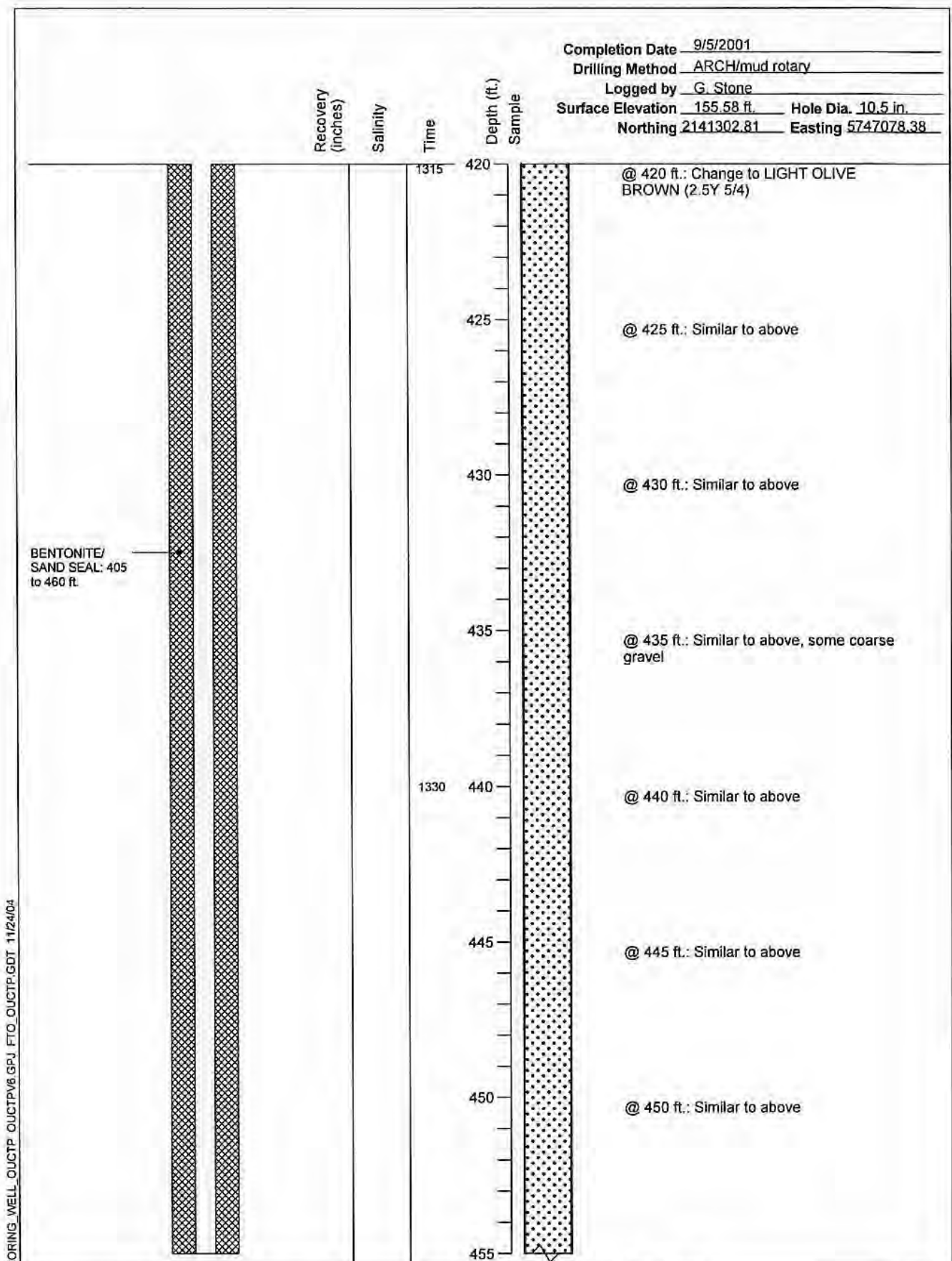
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*NOT/Jan*

DATE  
11/04

REVISED DATE



Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP\_V8.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-30-180**

PLATE



**MACTEC**

Fort Ord, California

**A35**

DRAWN  
TAC

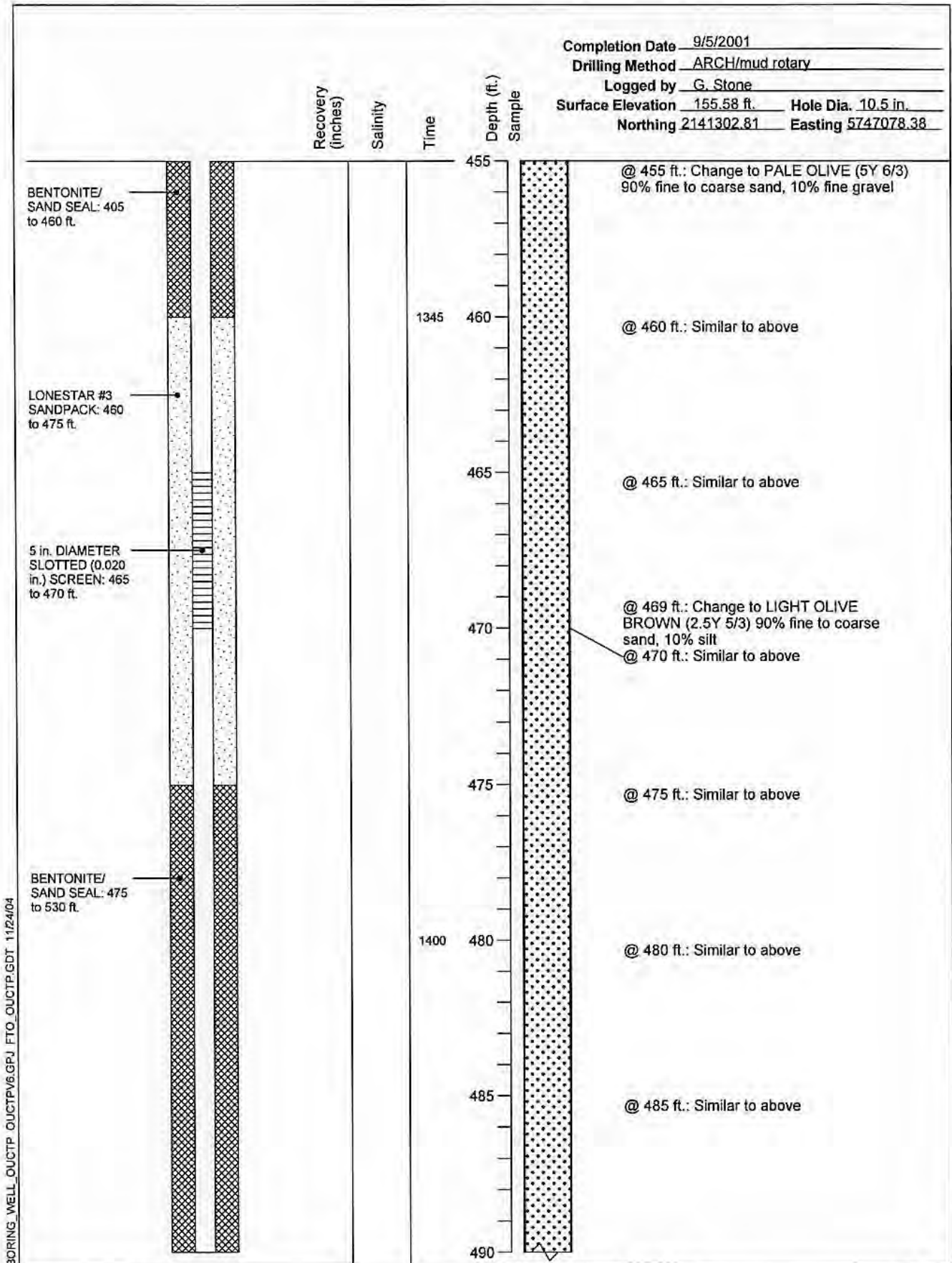
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APPROVED  
*MDT / aw*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and Log of Boring MW-BW-30-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A35**

DRAWN  
TAC

JOB NUMBER  
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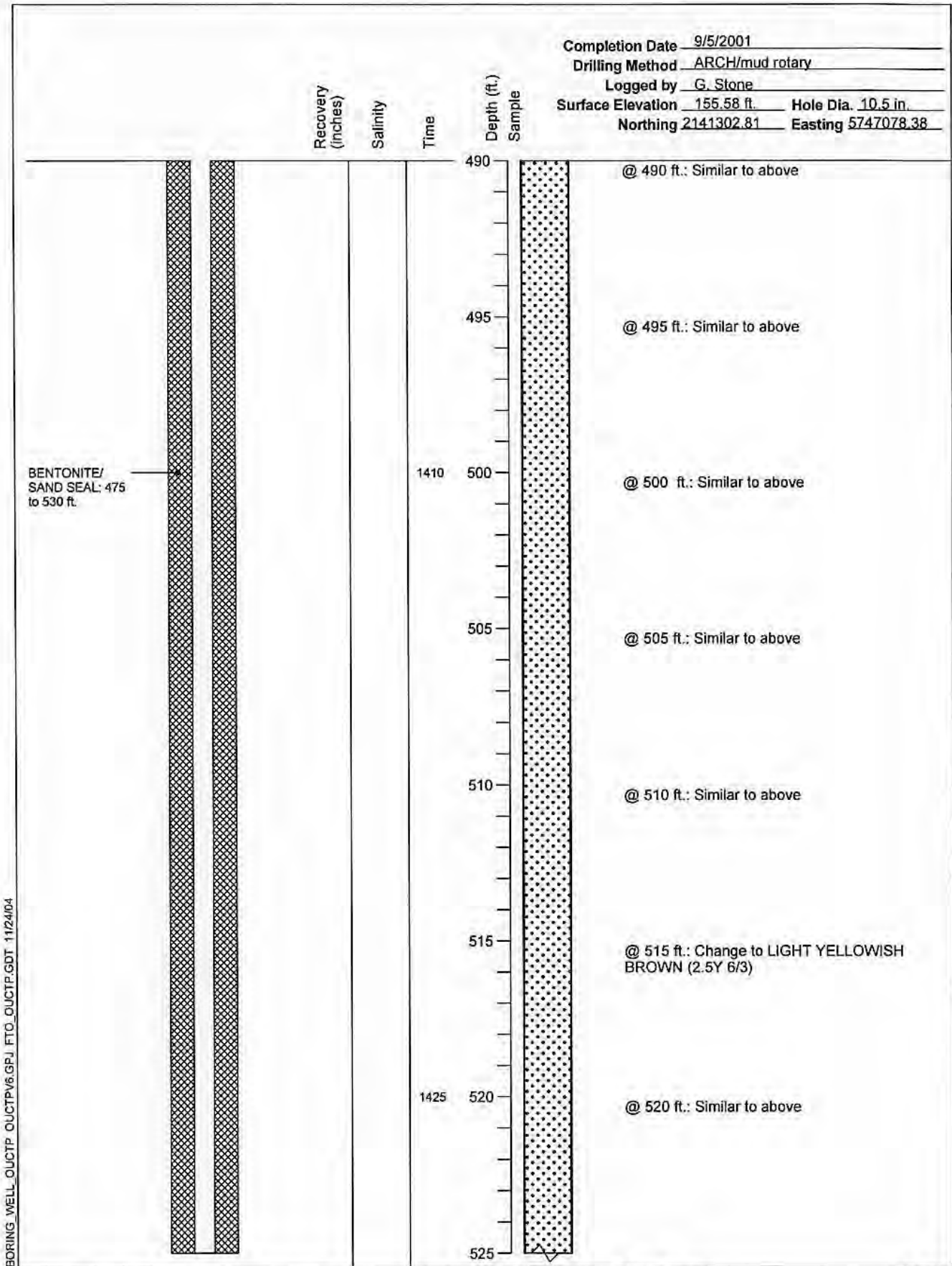
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*MDT / Cln*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



Well Construction Details and  
Log of Boring MW-BW-30-180  
OUCTP

PLATE



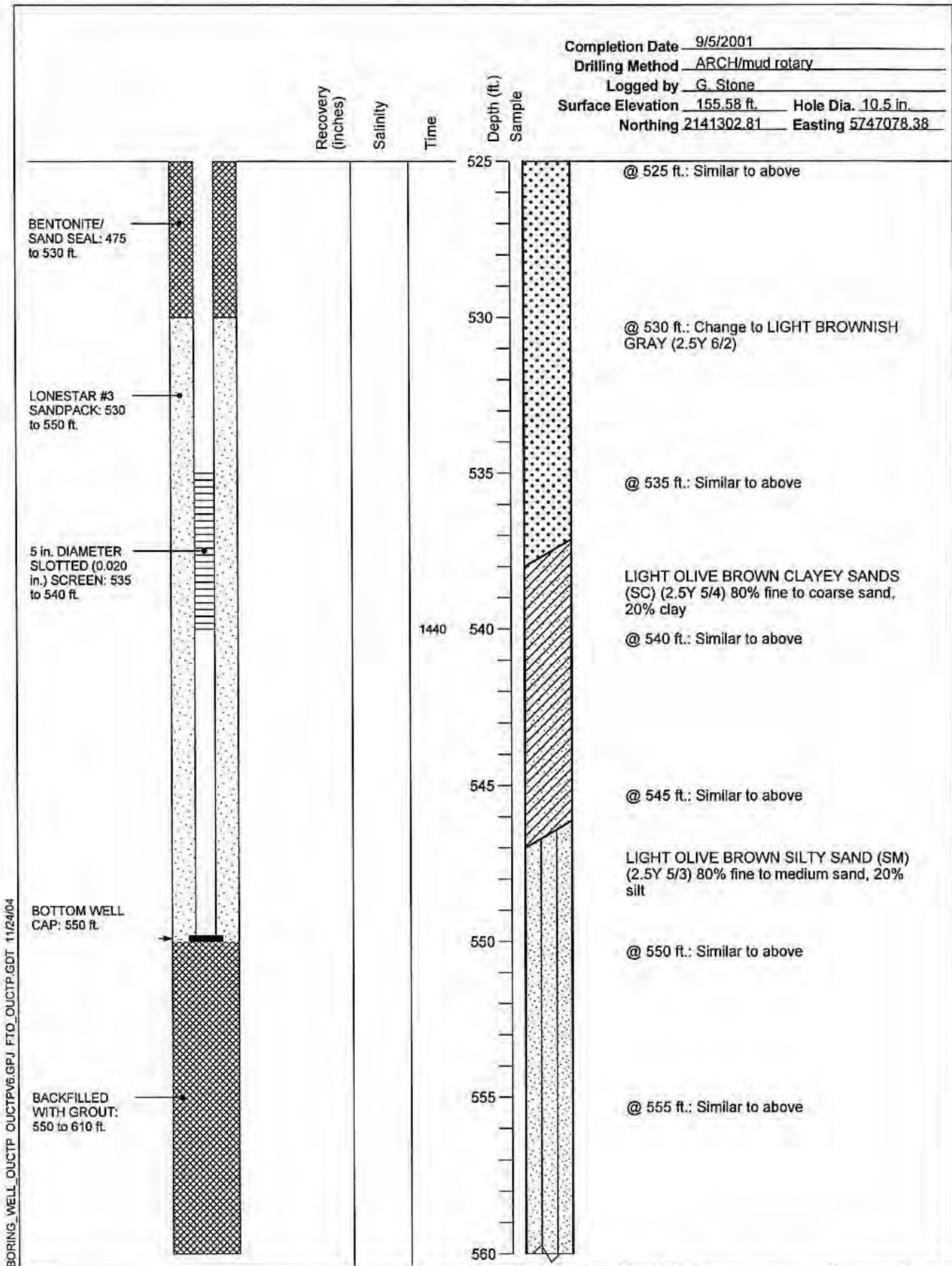
MACTEC

Fort Ord, California

**A35**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/cw</i>	11/04	

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
Log of Boring MW-BW-30-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A35**

DRAWN  
TAC

JOB NUMBER  
55596 001701

APPROVED

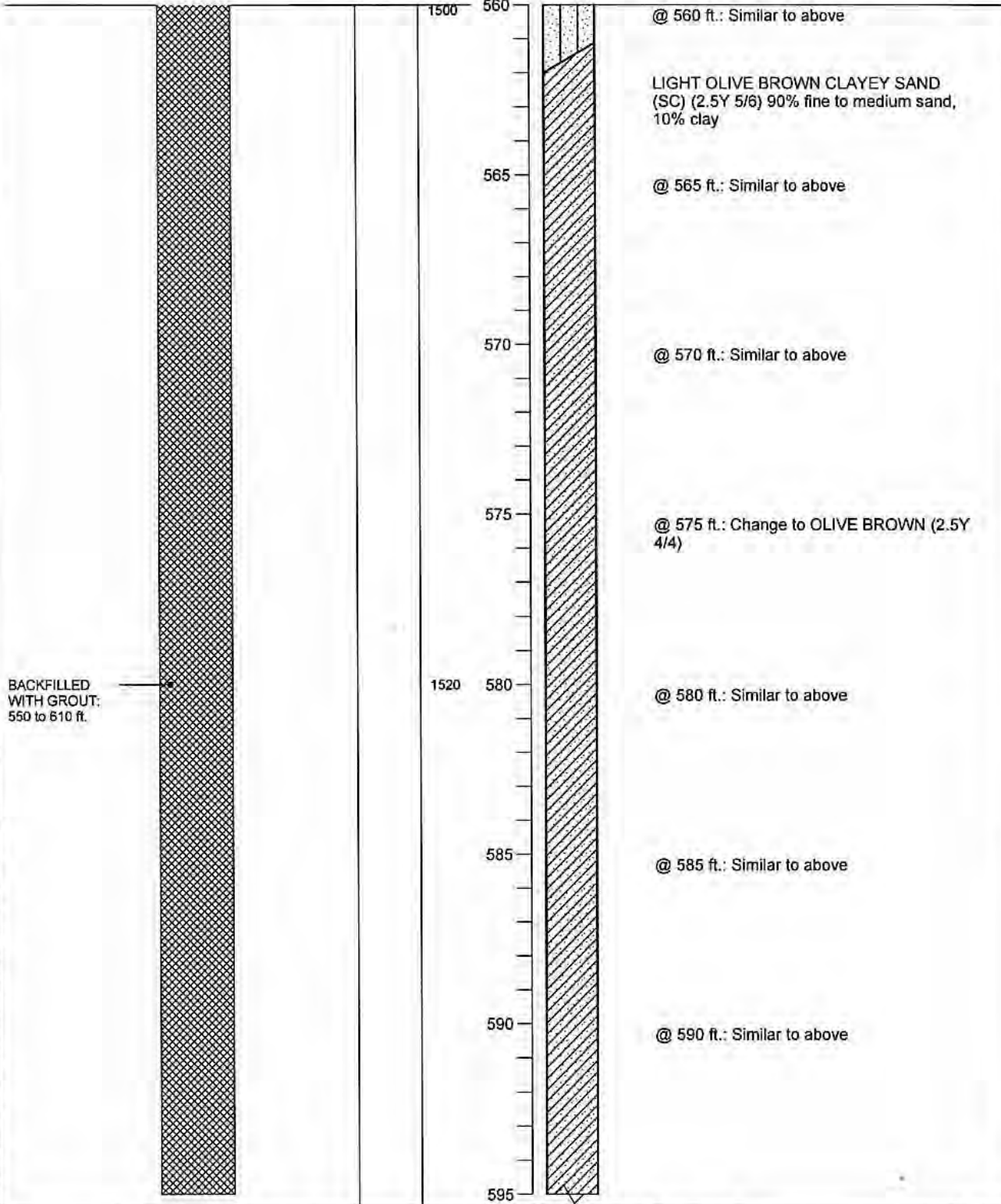
*MST/cw*

DATE  
11/04

REVISED DATE

Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft. Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38

Recovery (inches)  
 Salinity  
 Time  
 Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV&GPJ FTO\_OUCTP.GDT 11/24/04

BACKFILLED WITH GROUT:  
550 to 610 ft.

**Well Construction Details and Log of Boring MW-BW-30-180**  
 OUCTP

PLATE



**MACTEC**

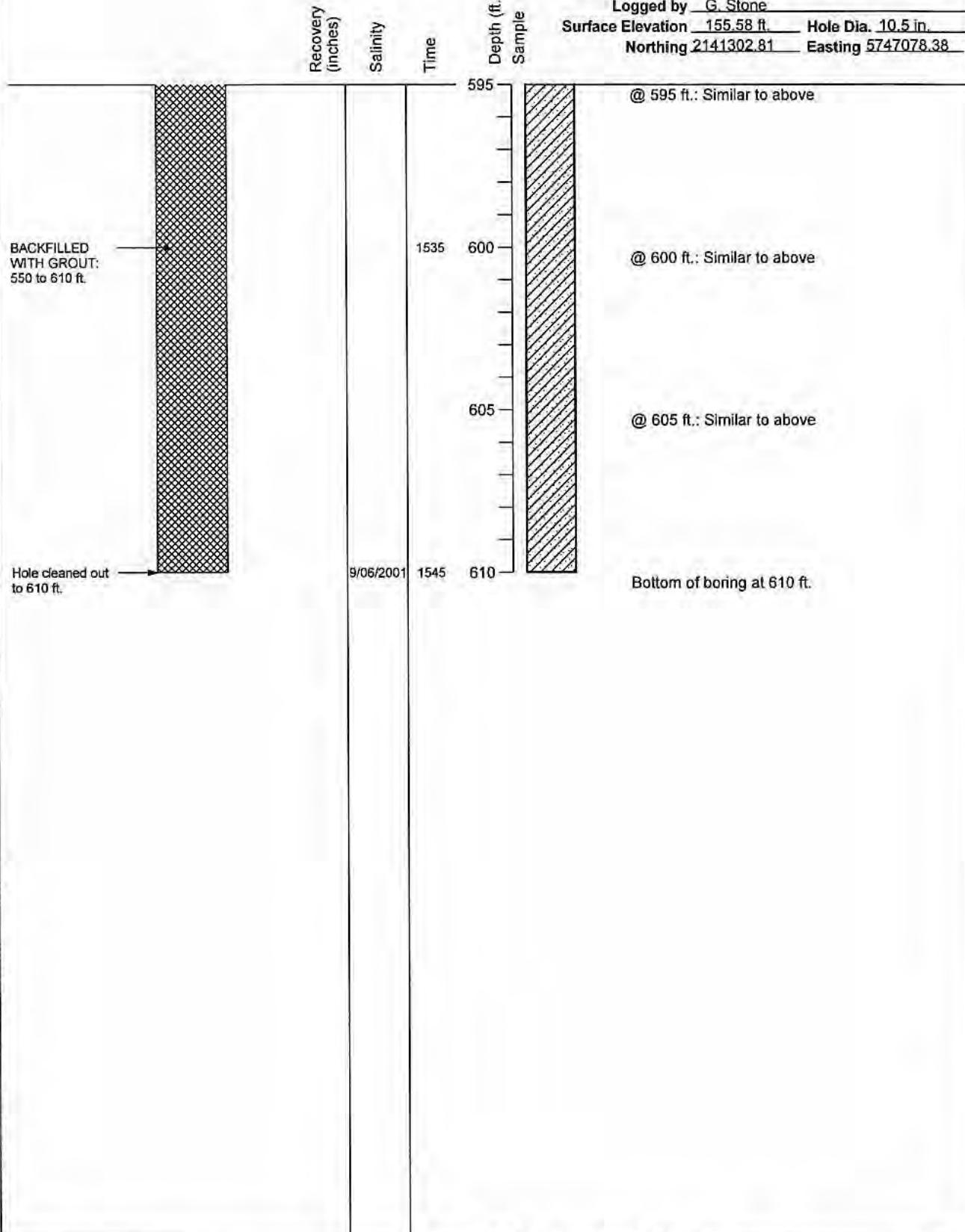
Fort Ord, California

**A35**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT / GSW</i>	11/04	



Completion Date 9/5/2001  
 Drilling Method ARCH/mud rotary  
 Logged by G. Stone  
 Surface Elevation 155.58 ft Hole Dia. 10.5 in.  
 Northing 2141302.81 Easting 5747078.38



BORING\_WELL\_OUCTP OUCTPV5.GPJ\_FTD\_OUCTP.GDT 11/24/04

**MACTEC** Well Construction Details and Log of Boring MW-BW-30-180 PLATE

OUCTP Fort Ord, California **A35**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 10/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.55 ft. Hole Dia. 12 in.  
 Northing 2141327.39 Easting 5746909.545

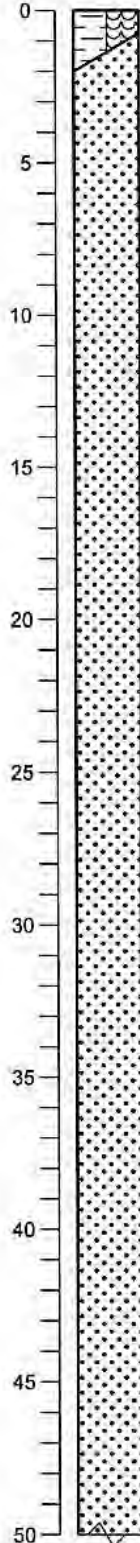
Top of PVC Casing  
 Elev. 152.15 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 76  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 68 ft.

Depth (ft.)  
 Sample



DARK BROWN SANDY ORGANIC SOIL  
 (OL/OH) (10YR 3/3) Loose, dry, 70% sand,  
 30% fines  
 YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/4) Loose, dry, 90%  
 sand, 10% silt

@ 5 ft.: Change to 90% fine to coarse sand

@ 10 ft.: Similar to above

@ 15 ft.: Color change to LIGHT  
 YELLOWISH BROWN (10YR 6/4)

@ 20 ft.: Color change to YELLOW (10YR  
 7/6) 95% sand, 5% silt

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Color change to BROWNISH  
 YELLOW (10YR 6/6)

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-30-A  
 OUCTP

PLATE

Fort Ord, California

**A36**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

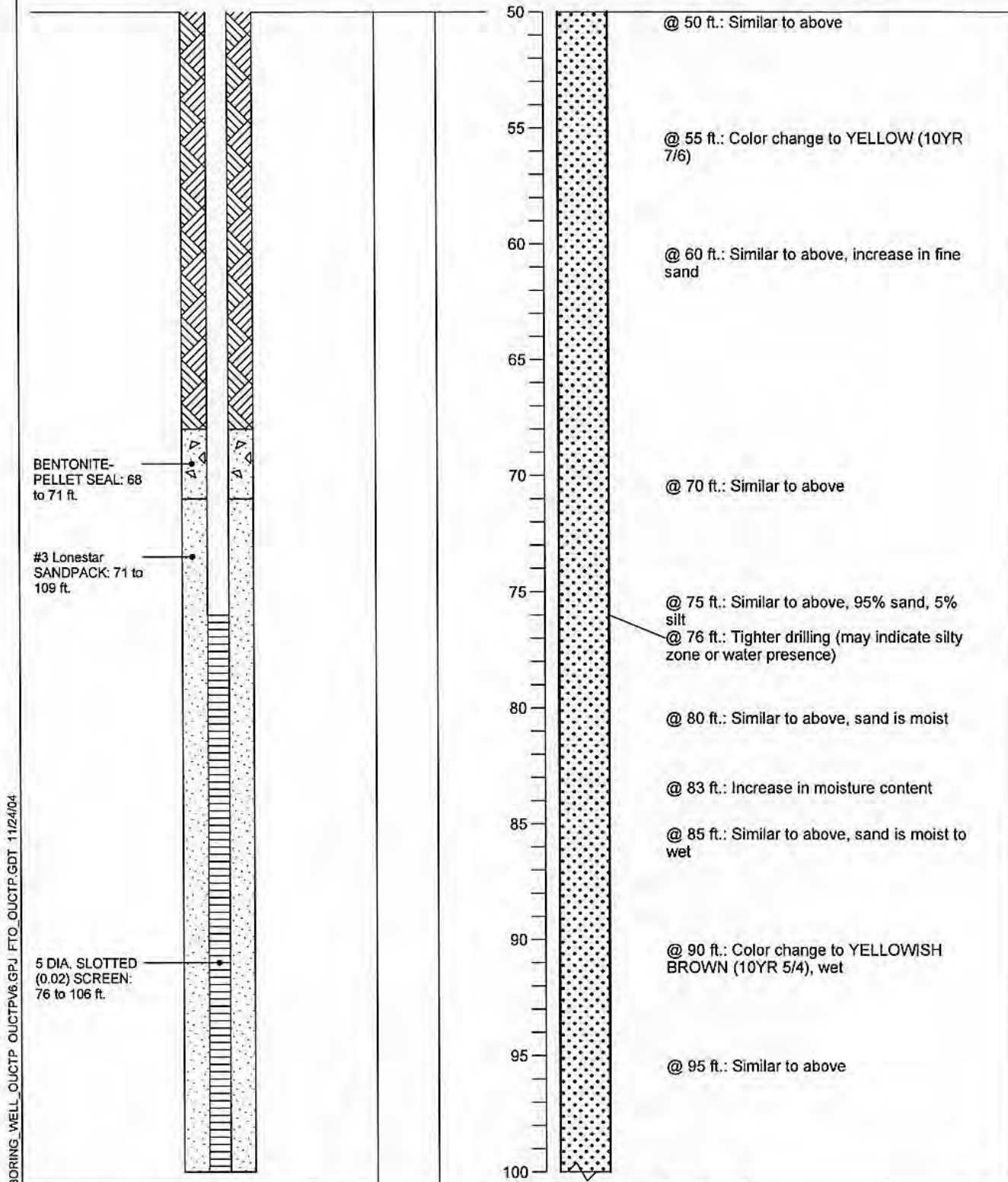
APPROVED  
*not/cm*

DATE  
 11/04

REVISED DATE

Completion Date 10/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.55 ft. Hole Dia. 12 in.  
 Northing 2141327.39 Easting 5746909.545

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-30-A  
 OUCTP

PLATE



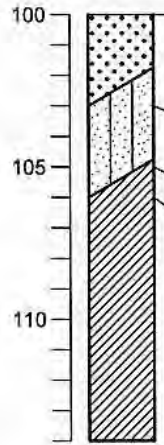
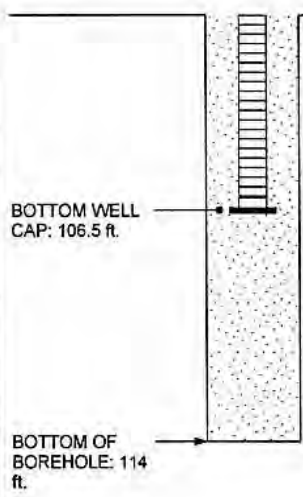
**MACTEC**

Fort Ord, California

**A36**

DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MDT / am</i>	DATE 11/04	REVISED DATE
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Completion Date 10/30/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 152.55 ft. Hole Dia. 12 in.  
 Northing 2141327.39 Easting 5746909.545



@ 100 ft.: Similar to above, 95% sand, 5% silt

@ 102 ft.: Driller notes tighter drilling, color change to 10YR 6/4  
 YELLOWISH BROWN SILTY SAND (SM) (10YR 5/4) Dense, wet, 70% sand, 30% silt, trace green color on auger

@ 105 ft.: Driller notes a change (tighter with 12 in. auger)  
 LIGHT OLIVE BROWN SANDY FAT CLAY (CL) (2.5Y 5/4) Dense, wet, 70% clay, 30% sand, trace green color on auger

@ 110 ft.: Similar to above

DARK GREENISH GRAY LEAN CLAY WITH SAND (CL) (10Y 4/1) Very dense, moist, 70% clay, 15% sand, 5% silt Bottom of boring at 114 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**MACTEC**

Well Construction Details and Log of Boring MW-BW-30-A

OUCTP

Fort Ord, California

PLATE

**A36**

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DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MTT/can</i>	11/04	

Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29

Top of PVC Casing  
 Elev. 137.11 ft.  
 CHRISTY  
 BOX

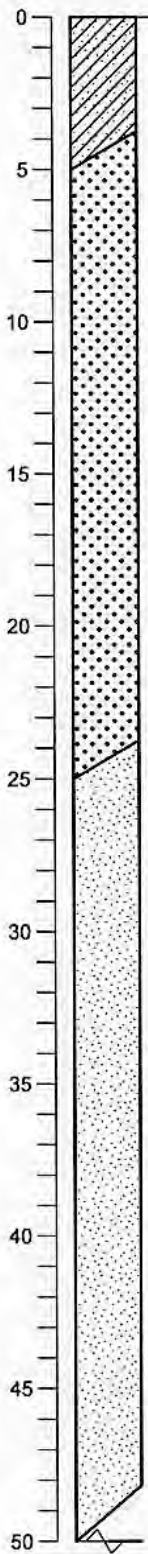
GROUND SURFACE

Salinity

Time

Depth (ft.)  
 Sample

BENTONITE-  
 CEMENT SEAL: 0  
 to 141 ft.



DARK GRAY SILTY SAND (SC) (2.5Y 4/1)  
 Loose, dry, 75% fine to coarse sand, 25% silt

BROWN WELL GRADED SAND (SW)  
 (10YR 4/3) Loose, dry, 95% fine to coarse sand, 5% silt

@ 10 ft.: Color change to YELLOWISH BROWN (10YR 5/6) Loose, dry

@ 15 ft.: Similar to above

@ 20 ft.: Color change to LIGHT YELLOWISH BROWN (10YR 6/4)

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 6/4) Loose, dry, 95% fine to medium sand, 5% silt

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Color change to YELLOWISH BROWN (10YR 5/6)

@ 45 ft.: Similar to above

1040

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



MACTEC

Well Construction Details and  
 Log of Boring MW-BW-31-180  
 OUCTP

PLATE

Fort Ord, California

**A37**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

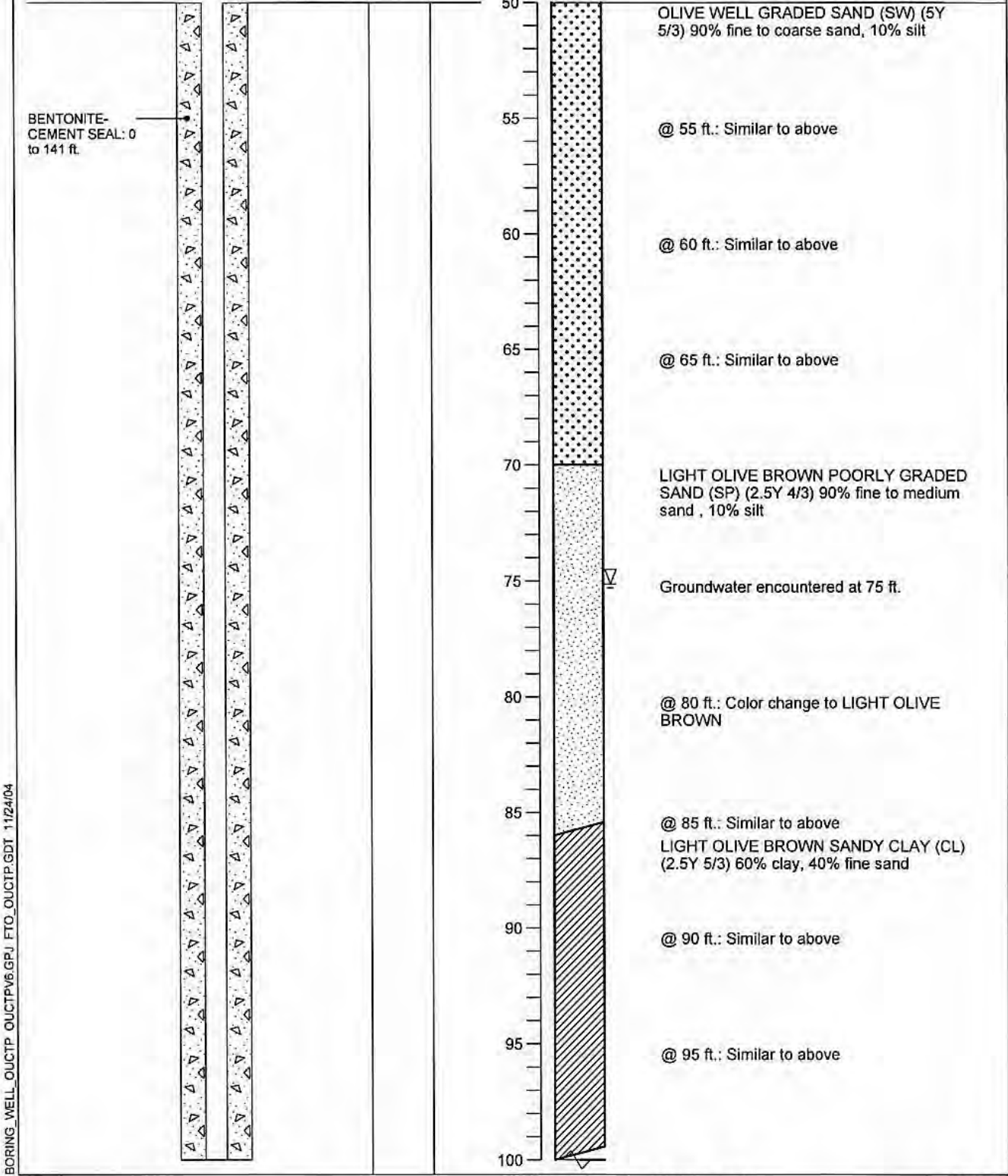
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*MDT / am*

DATE  
 11/04

REVISED DATE



Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPv6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-31-180**  
 OUCTP

PLATE

**A37**

Fort Ord, California

DRAWN  
CN

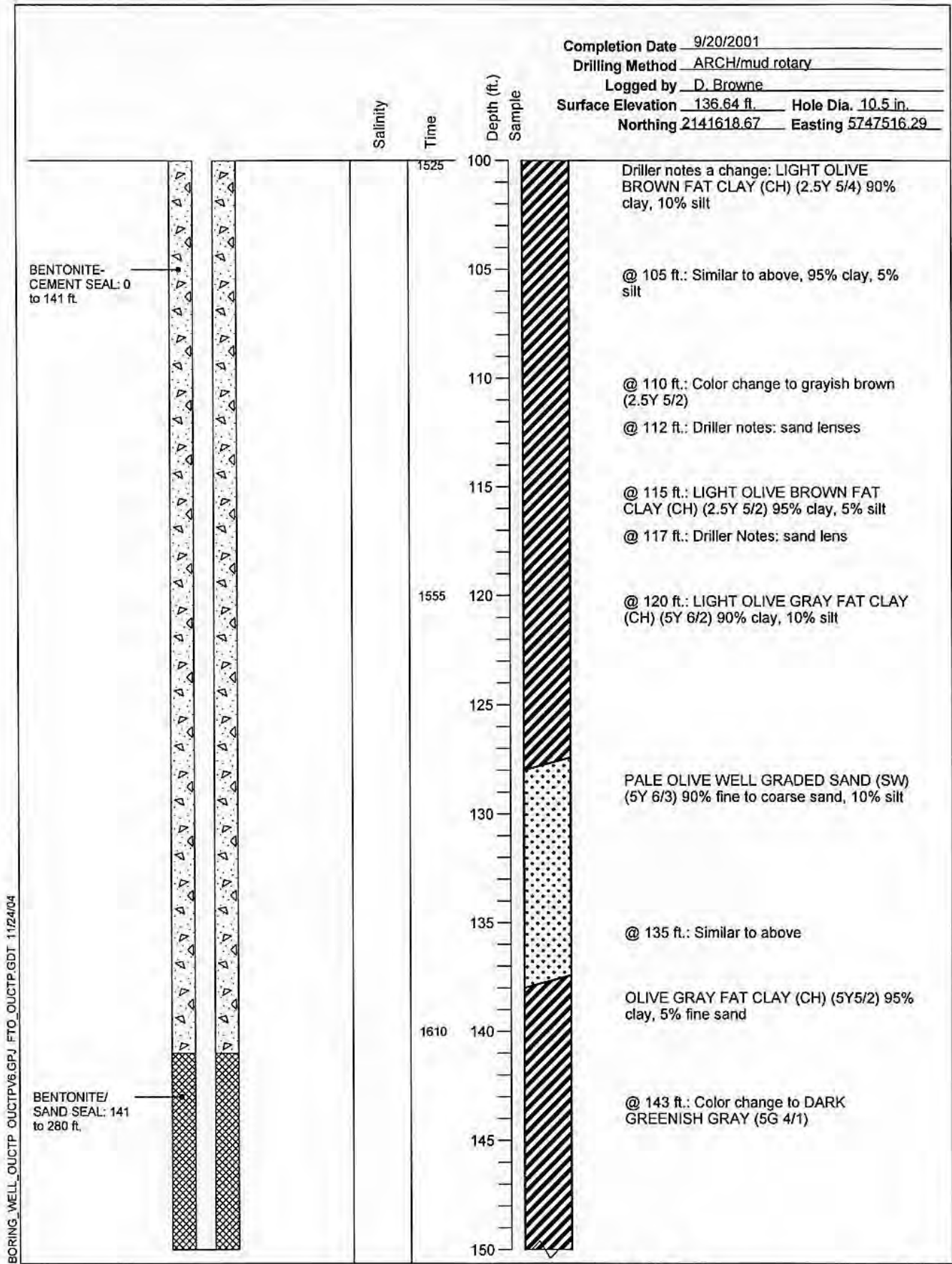
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APPROVED  
*MTB / cur*

DATE  
11/04

REVISED DATE

Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
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 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

Well Construction Details and Log of Boring MW-BW-31-180  
 OUCTP

PLATE

**A37**

Fort Ord, California

DRAWN  
CN

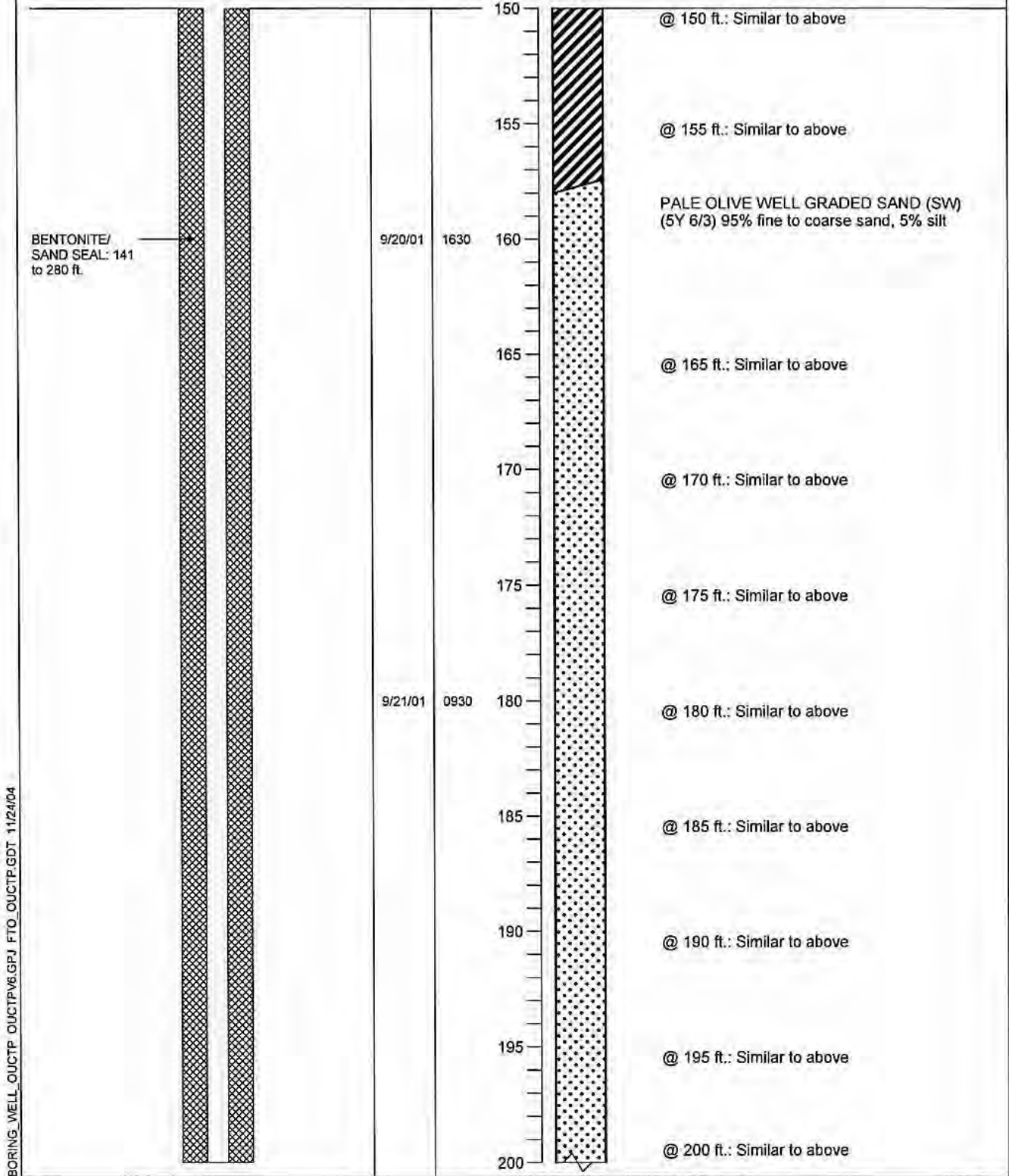
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APPROVED  
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DATE  
11/04

REVISED DATE

Completion Date 9/20/2001  
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 Logged by D. Browne  
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 Northing 2141618.67 Easting 5747516.29



BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-31-180  
OUCTP

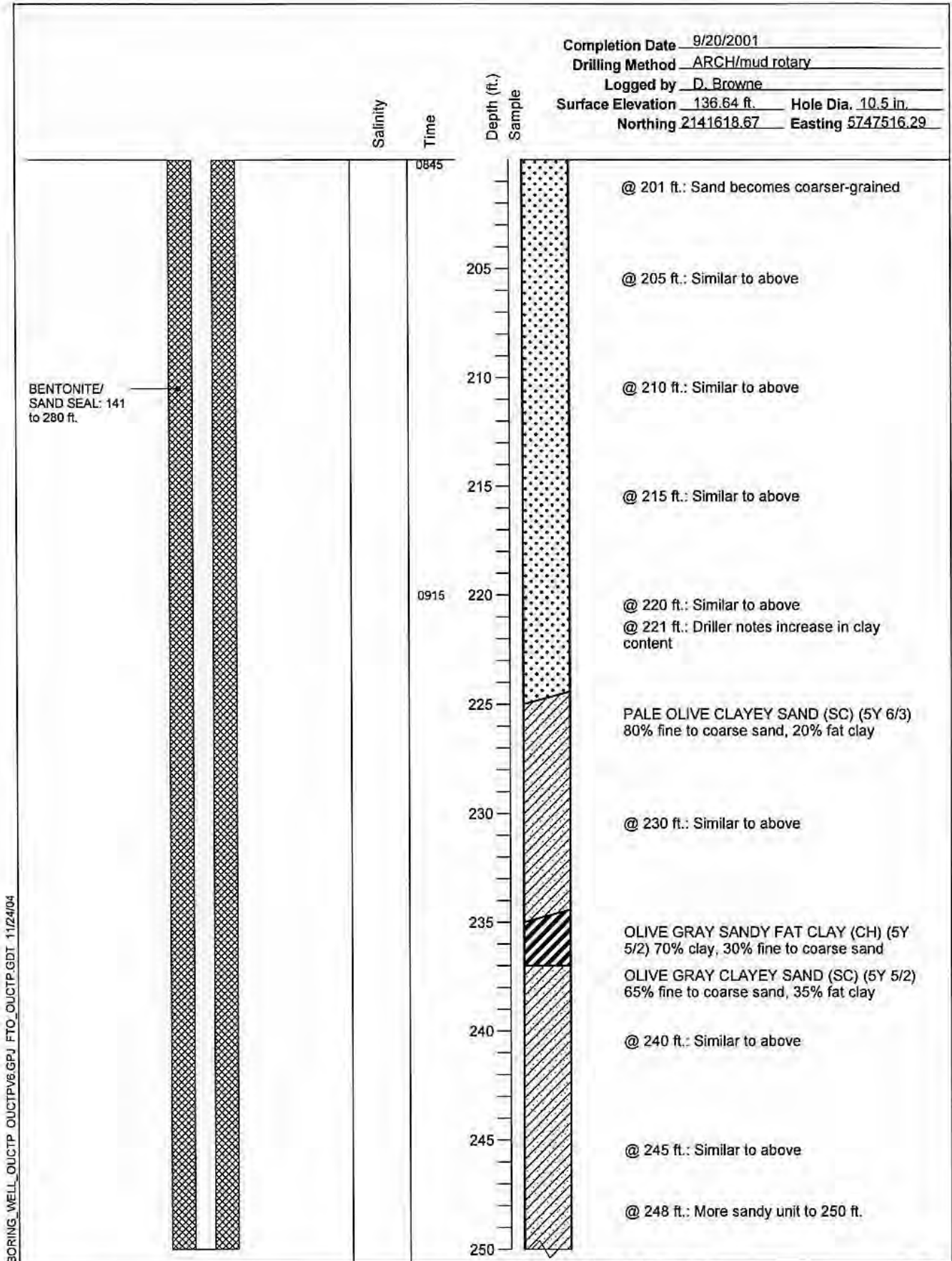
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**A37**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT</i>	11/04	

Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-31-180  
 OUCTP

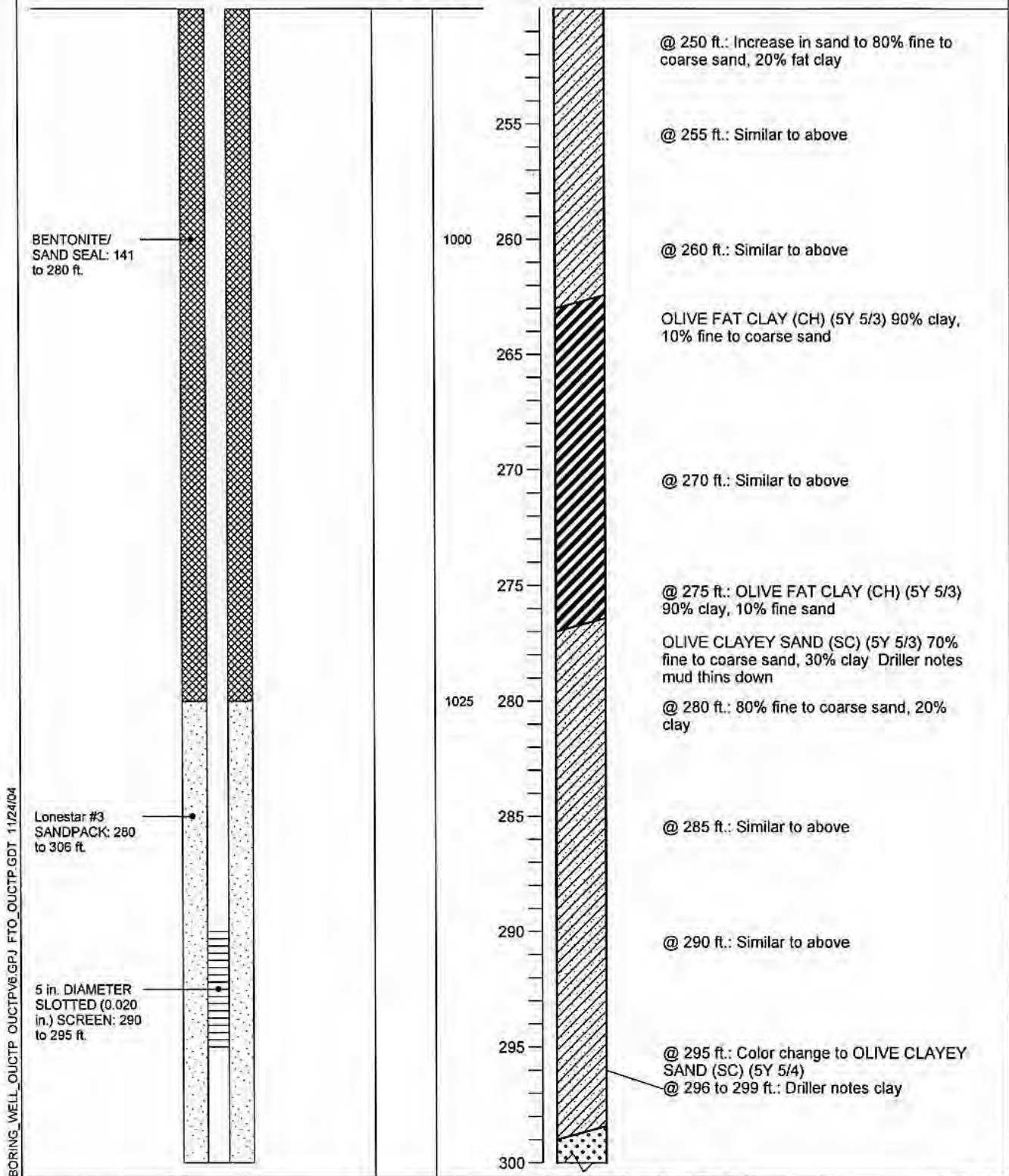
PLATE

**A37**

Fort Ord, California

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MOT/cw</i>	DATE 11/04	REVISED DATE
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Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP OUCTP#6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-31-180  
OUCTP

PLATE

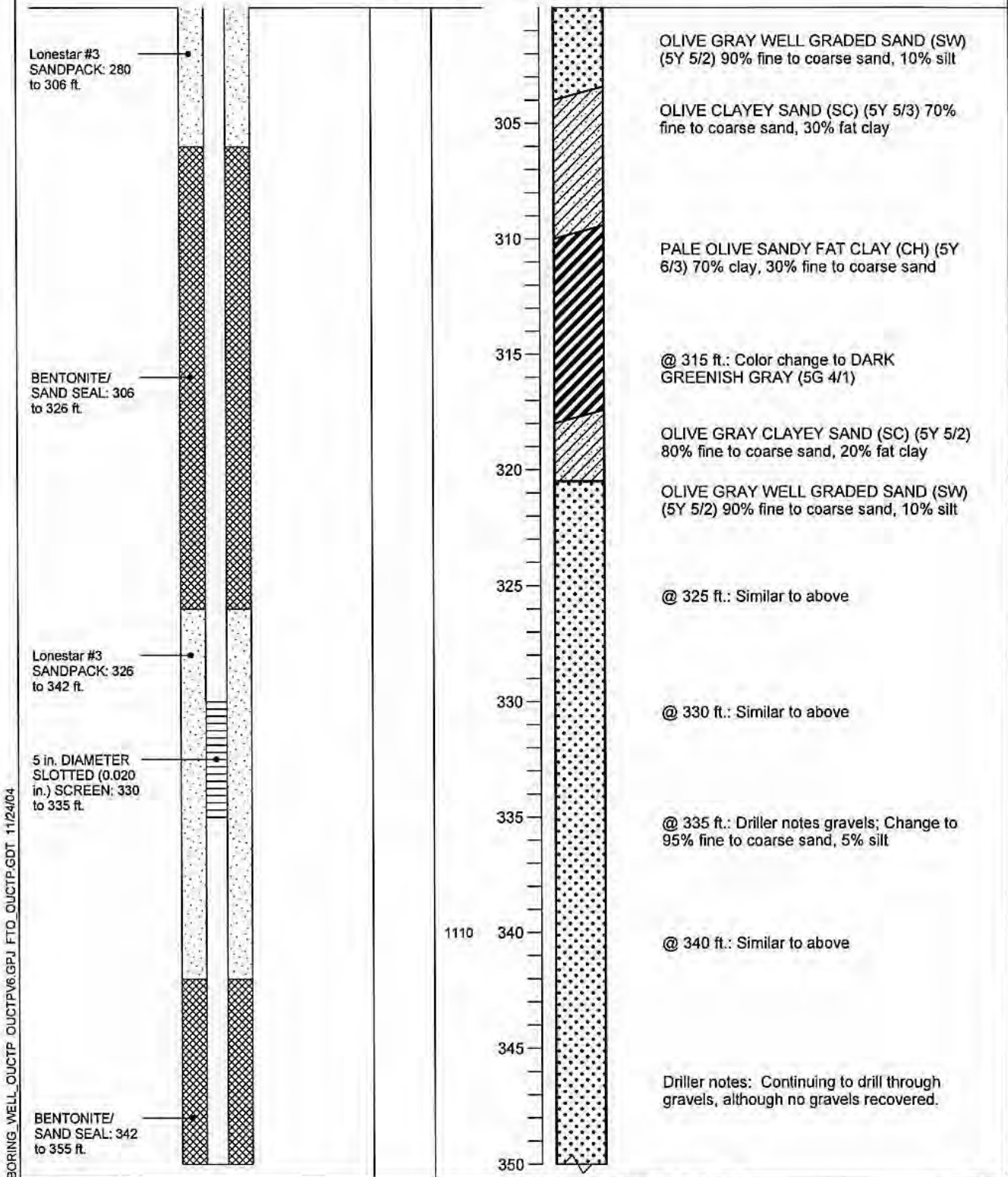
**A37**

Fort Ord, California

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT/cnr</i>	DATE 11/04	REVISED DATE
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Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTQ\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-31-180  
 OUCTP

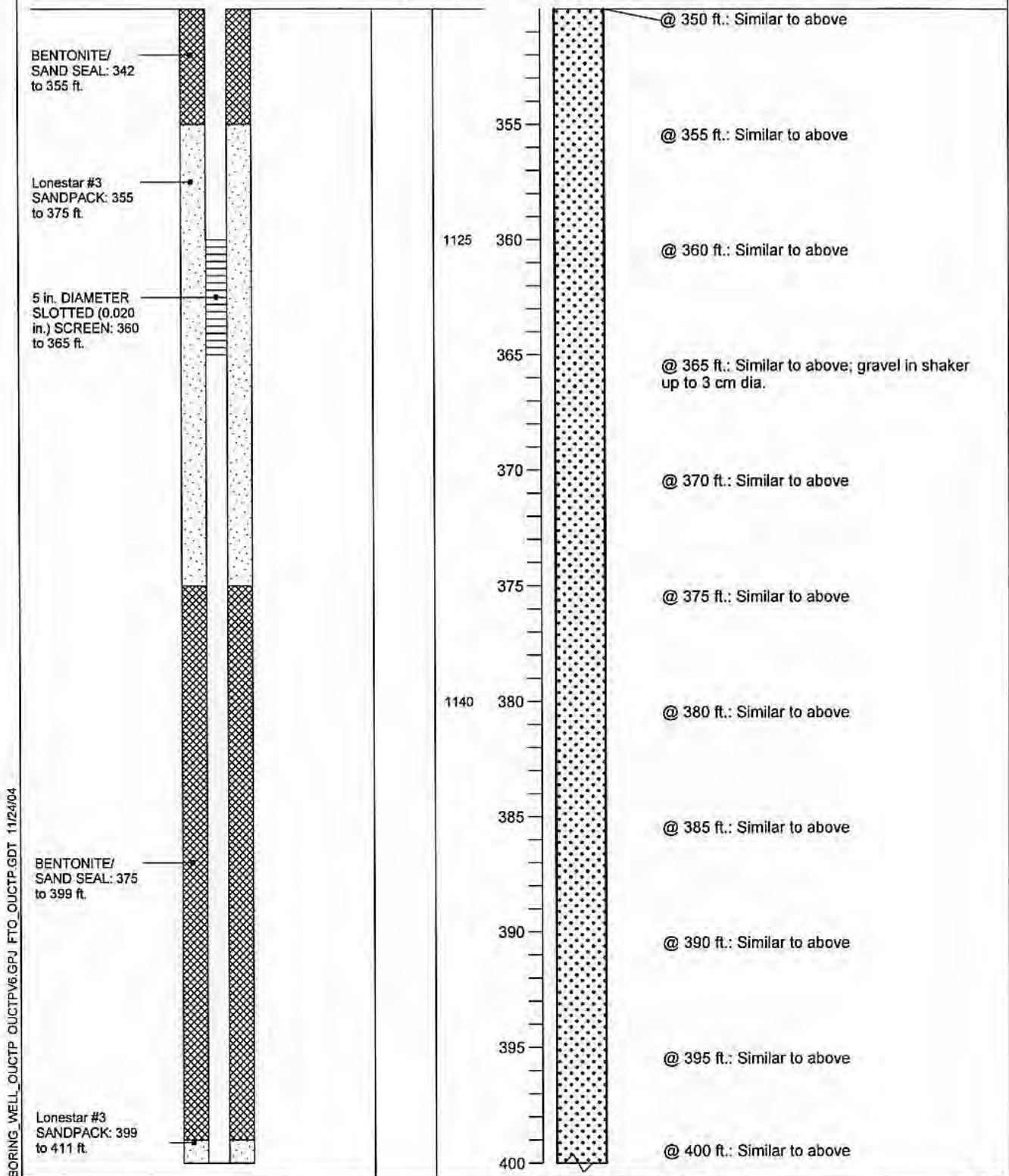
PLATE

**A37**

Fort Ord, California

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 11/04	REVISED DATE
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Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP OUCTPV6 GPJ FTQ\_OUCTP.GDT 11/24/04

BENTONITE/  
SAND SEAL: 342  
to 355 ft.

Lonestar #3  
SANDPACK: 355  
to 375 ft.

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 360  
to 365 ft.

BENTONITE/  
SAND SEAL: 375  
to 399 ft.

Lonestar #3  
SANDPACK: 399  
to 411 ft.

Depth (ft.)  
Sample

350  
355  
360  
365  
370  
375  
380  
385  
390  
395  
400

@ 350 ft.: Similar to above

@ 355 ft.: Similar to above

@ 360 ft.: Similar to above

@ 365 ft.: Similar to above; gravel in shaker up to 3 cm dia.

@ 370 ft.: Similar to above

@ 375 ft.: Similar to above

@ 380 ft.: Similar to above

@ 385 ft.: Similar to above

@ 390 ft.: Similar to above

@ 395 ft.: Similar to above

@ 400 ft.: Similar to above



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-31-180  
OUCTP

PLATE

**A37**

Fort Ord, California

DRAWN  
CN

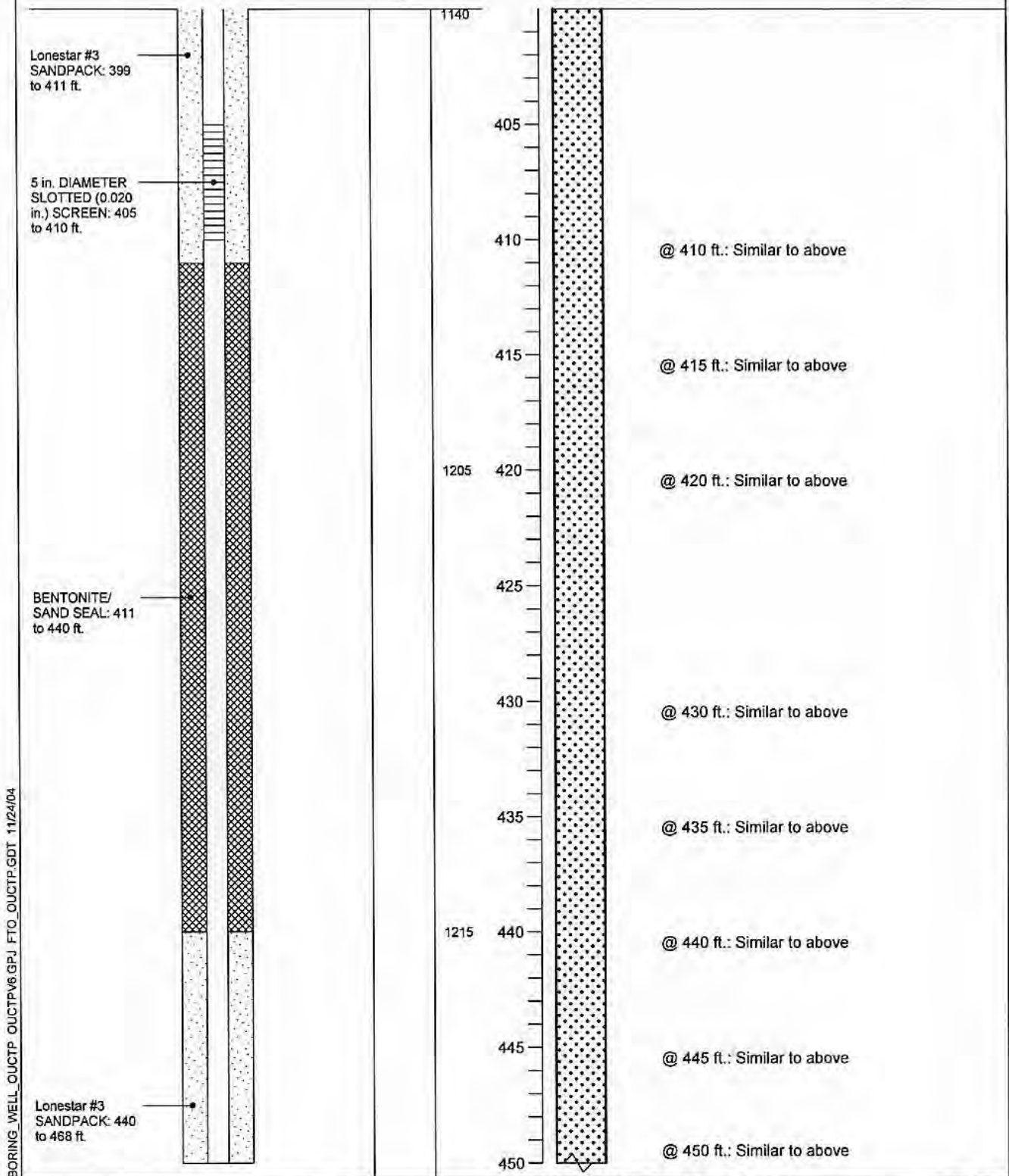
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APPROVED  
*MST/can*

DATE  
11/04

REVISED DATE

Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-31-180**  
OUCTP

PLATE

**A37**

Fort Ord, California

DRAWN  
CN

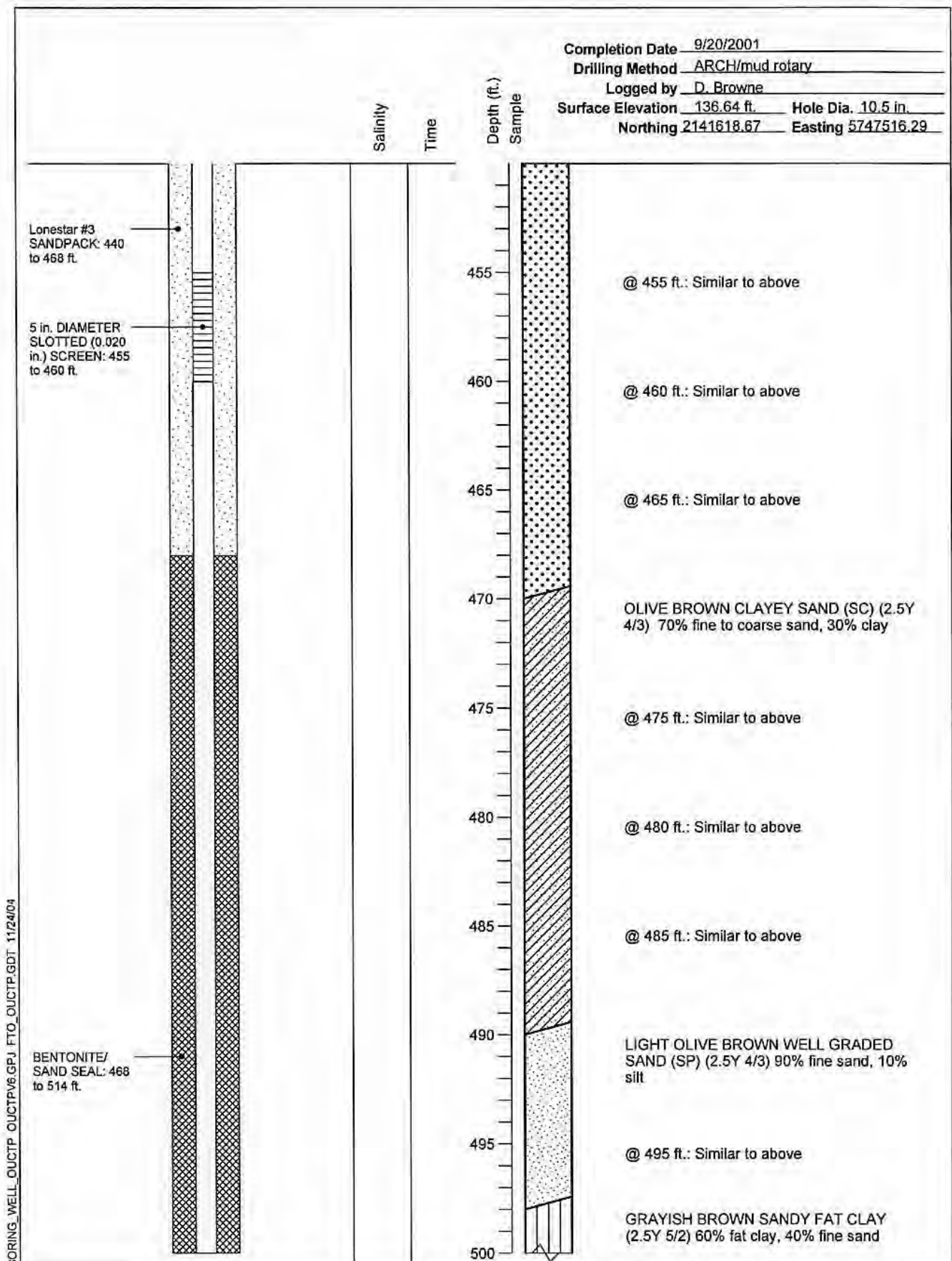
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APPROVED  
*not/can*

DATE  
11/04

REVISED DATE

Completion Date 9/20/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 136.64 ft. Hole Dia. 10.5 in.  
 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-31-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A37**

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CN

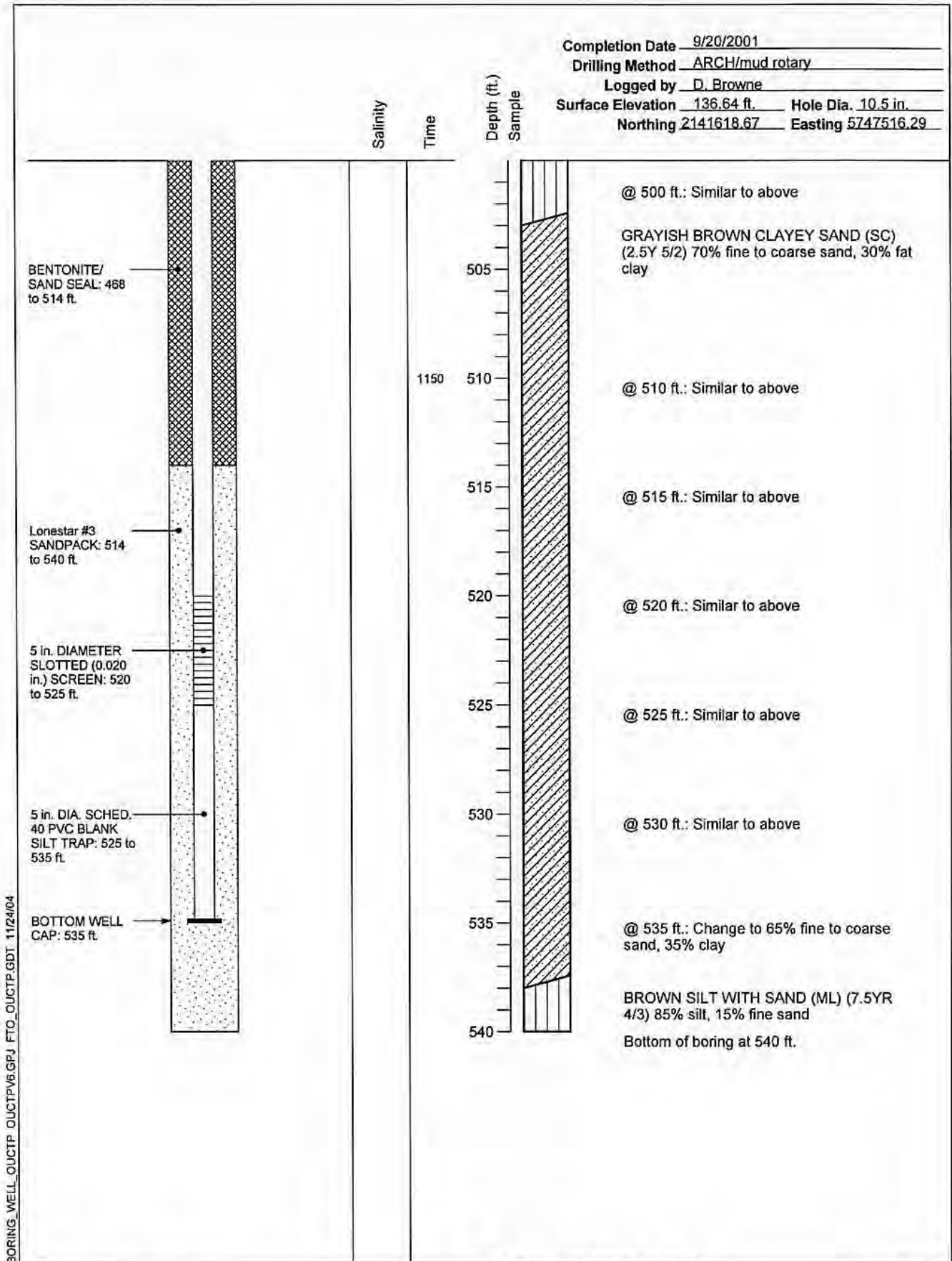
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*MDT*

DATE  
11/04

REVISED DATE

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 Northing 2141618.67 Easting 5747516.29



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-31-180**  
 OUCTP

PLATE

**A37**

Fort Ord, California

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

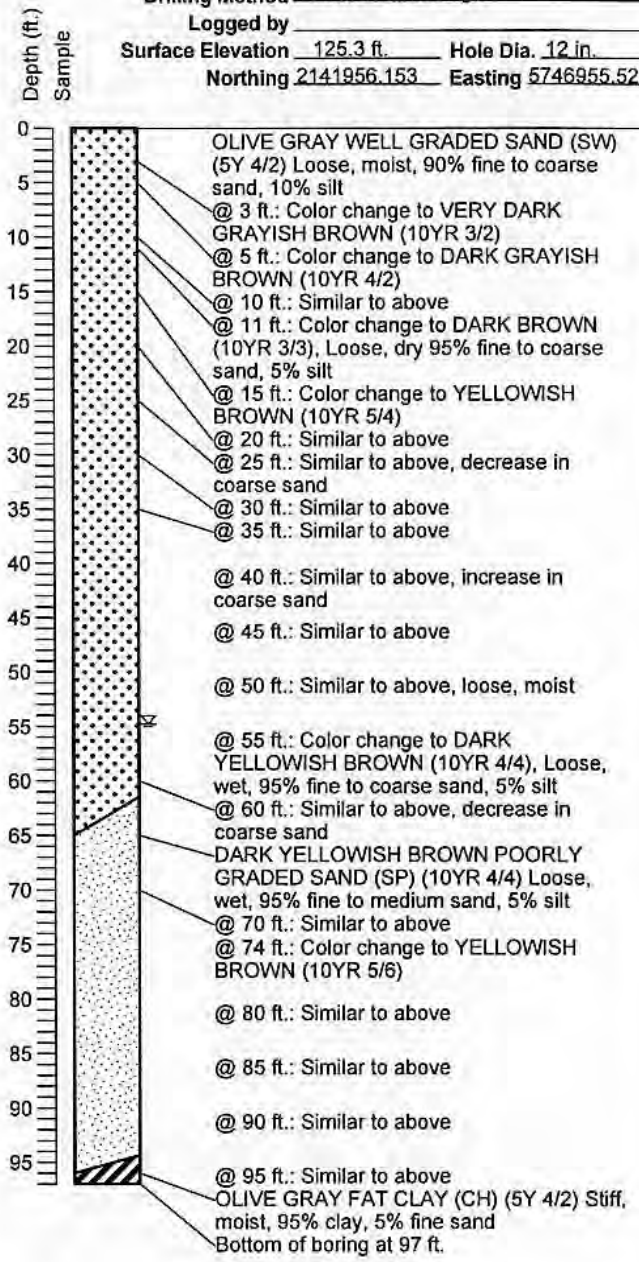
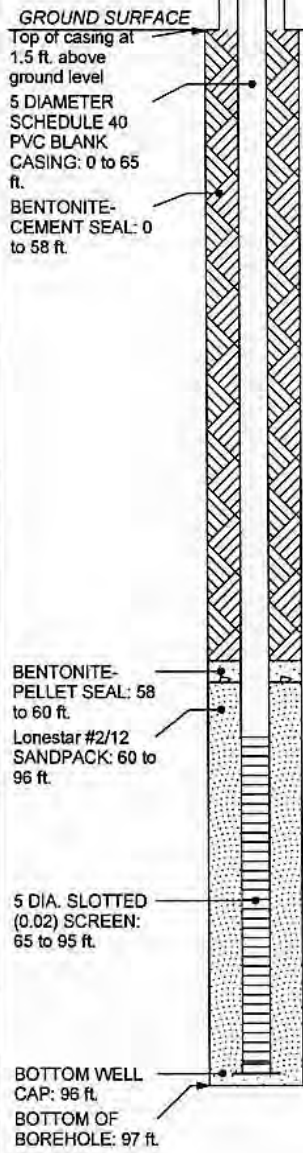
DATE  
 11/04

REVISED DATE



Top of PVC Casing  
Elev. 126.07 ft.

Completion Date 11/18/2000  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 125.3 ft. Hole Dia. 12 in.  
Northing 2141956.153 Easting 5746955.528



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-31-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A38**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MAJ / cm*

DATE  
11/04

REVISED DATE

Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73

Top of PVC Casing  
 Elev. 153.04 ft.  
 CHRISTY  
 BOX

Salinity  
 Time

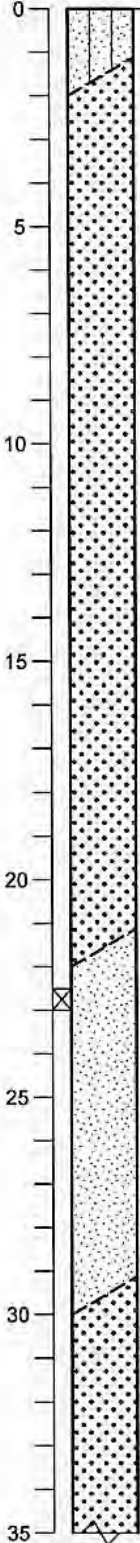
Depth (ft.)  
 Sample

GROUND SURFACE

BENTONITE-  
 CEMENT SEAL: 0  
 to 135 ft.

9/06/01 1050

1115



OLIVE GRAY SILTY SAND (SM) (5Y 4/3)  
 Loose, dry, 70% fine to coarse sand, 30% silt

VERY DARK GRAYISH BROWN WELL  
 GRADED SAND (SW) (10YR 3/2) Loose,  
 dry, 85% sand, 15% silt

@ 5 ft.: Change to DARK GRAYISH  
 BROWN (10YR 4/2) silt decreased to 10%

@ 7 ft.: Change to BROWN (10YR 4/3)

@ 10 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/4)

@ 15 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) silt decreased to 5%

@ 20 ft.: Change to LIGHT YELLOWISH  
 BROWN (10YR 6/4)

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 95% fine  
 to medium sand, 5% silt

@ 25 ft.: Similar to above

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 4/4) Loose,  
 dry, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-32-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A39**

DRAWN  
 TAC

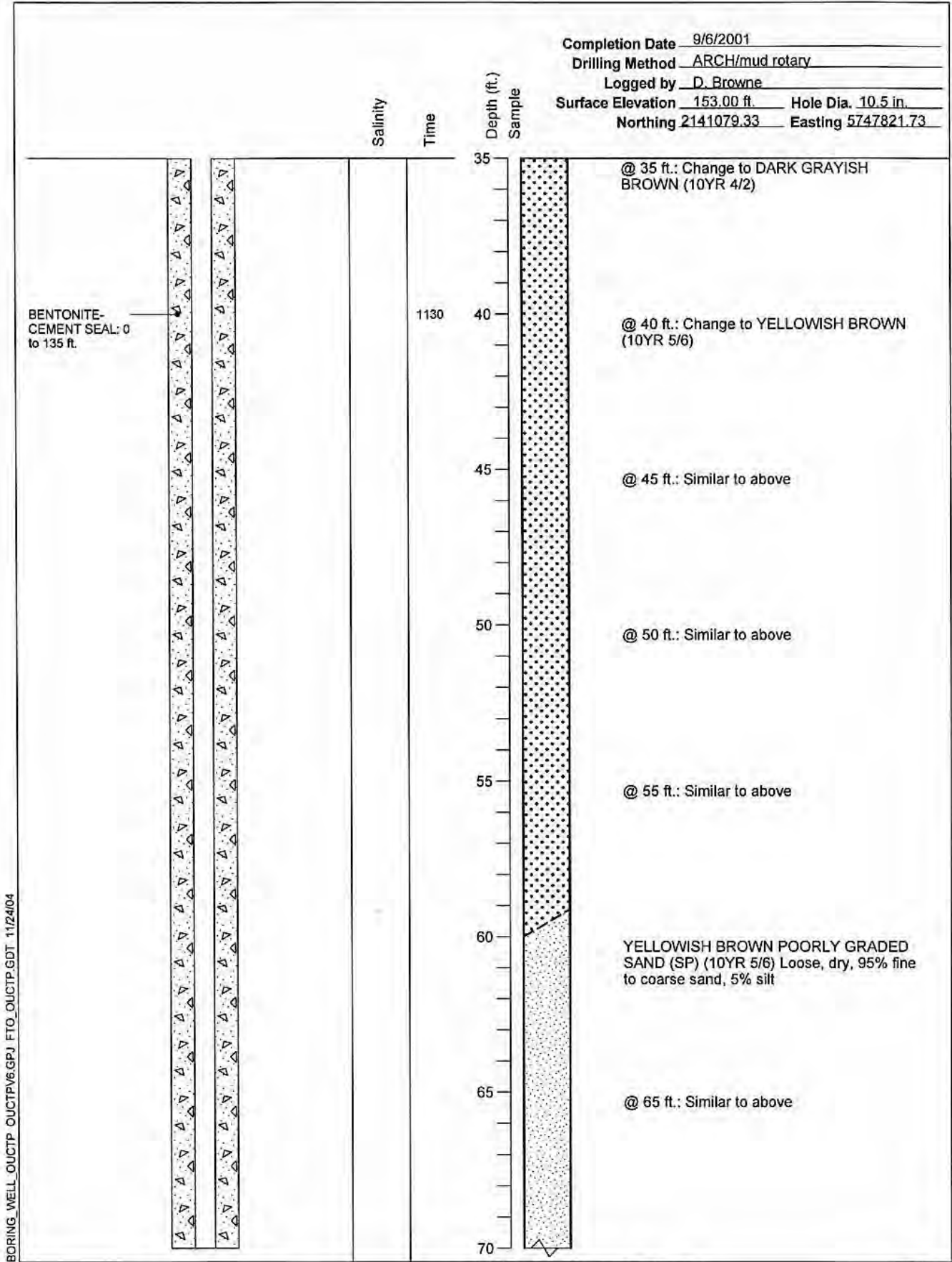
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APPROVED  
*MDT / can*

DATE  
 11/04

REVISED DATE

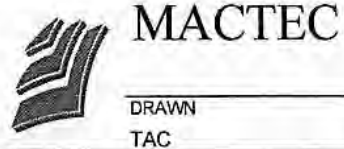
Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE

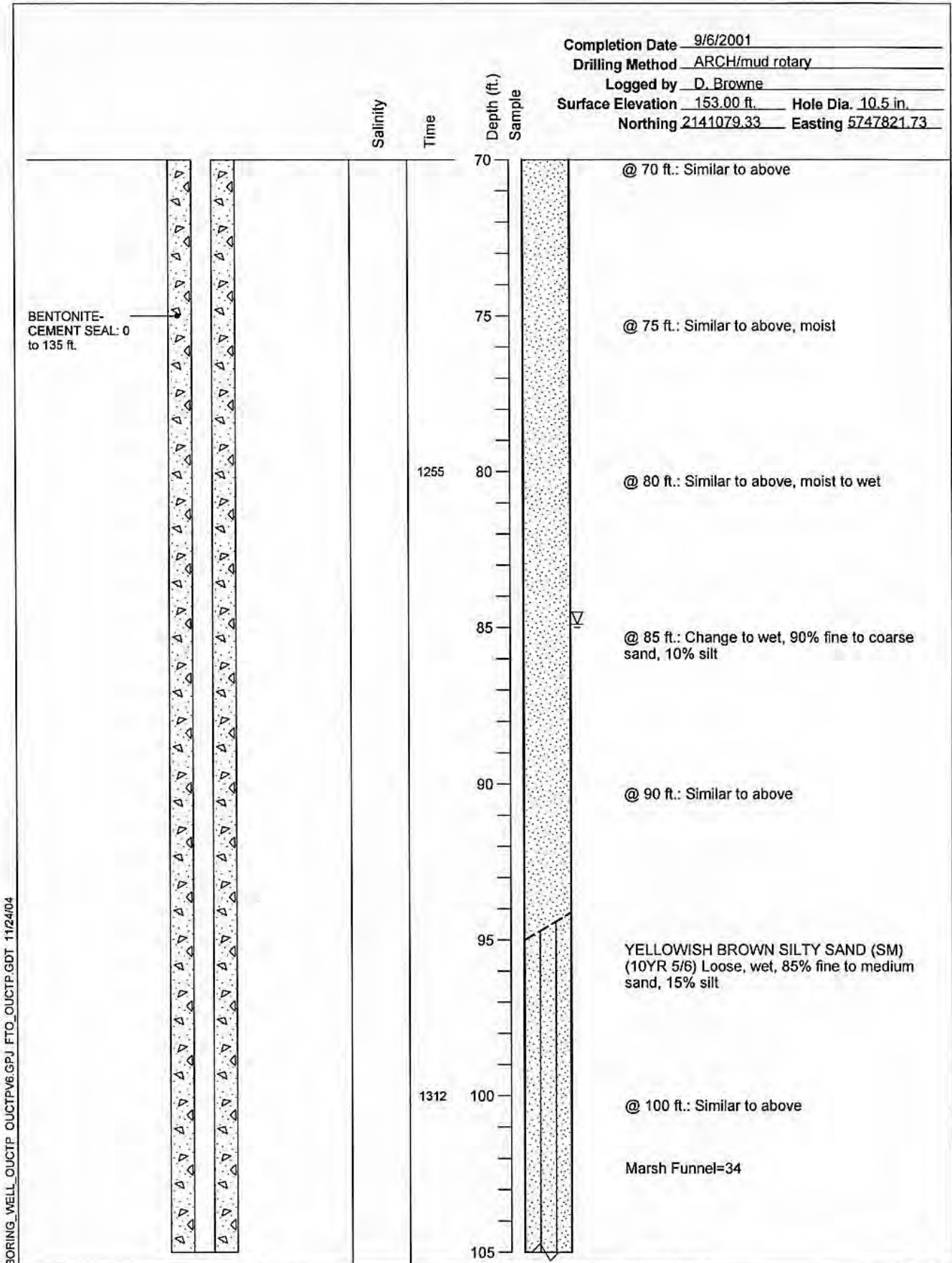


Fort Ord, California

**A39**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/cw</i>	11/04	

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 Northing 2141079.33 Easting 5747821.73



**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

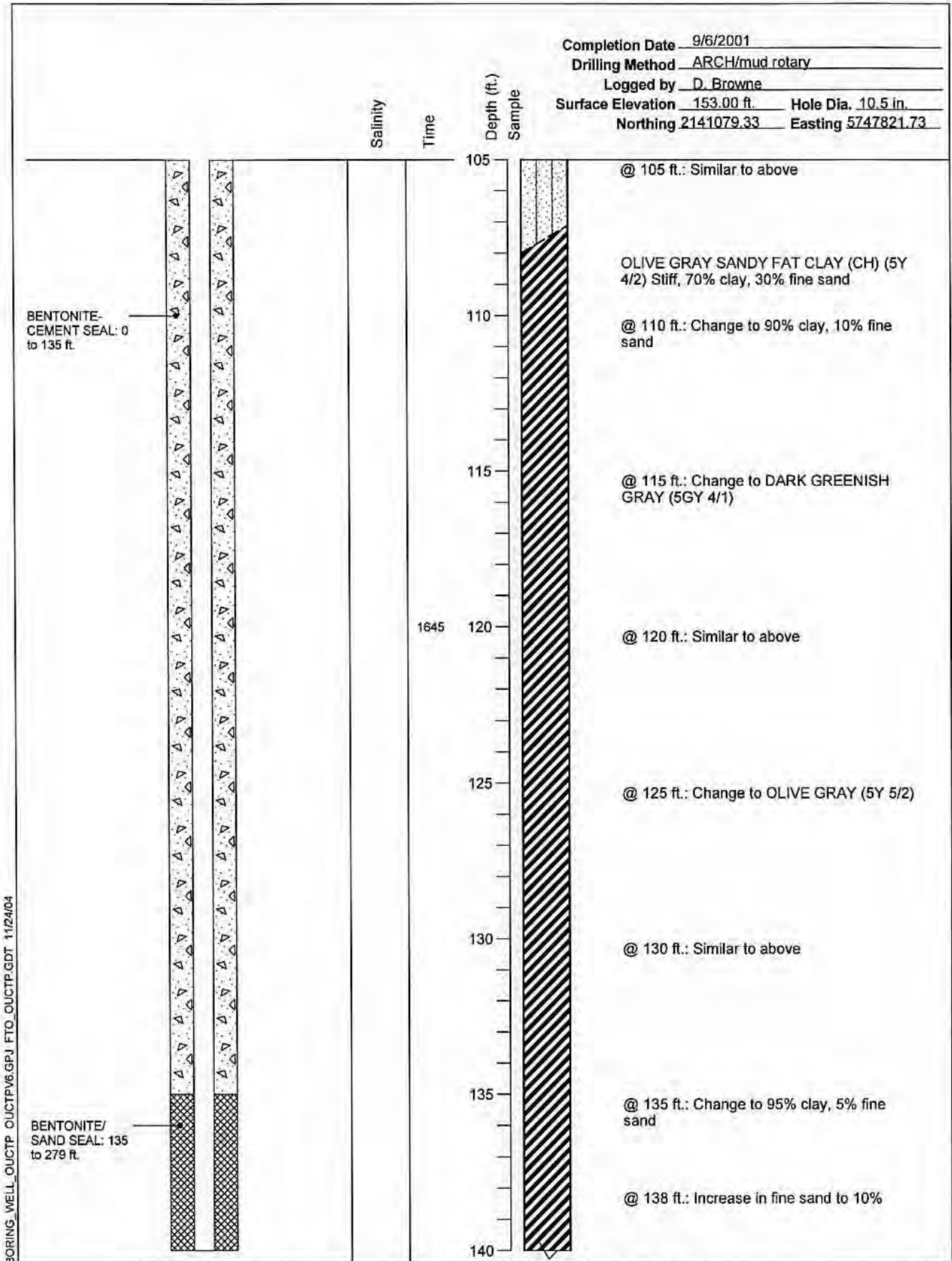
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*MDT/can*

DATE  
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 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

JOB NUMBER  
55596 001701

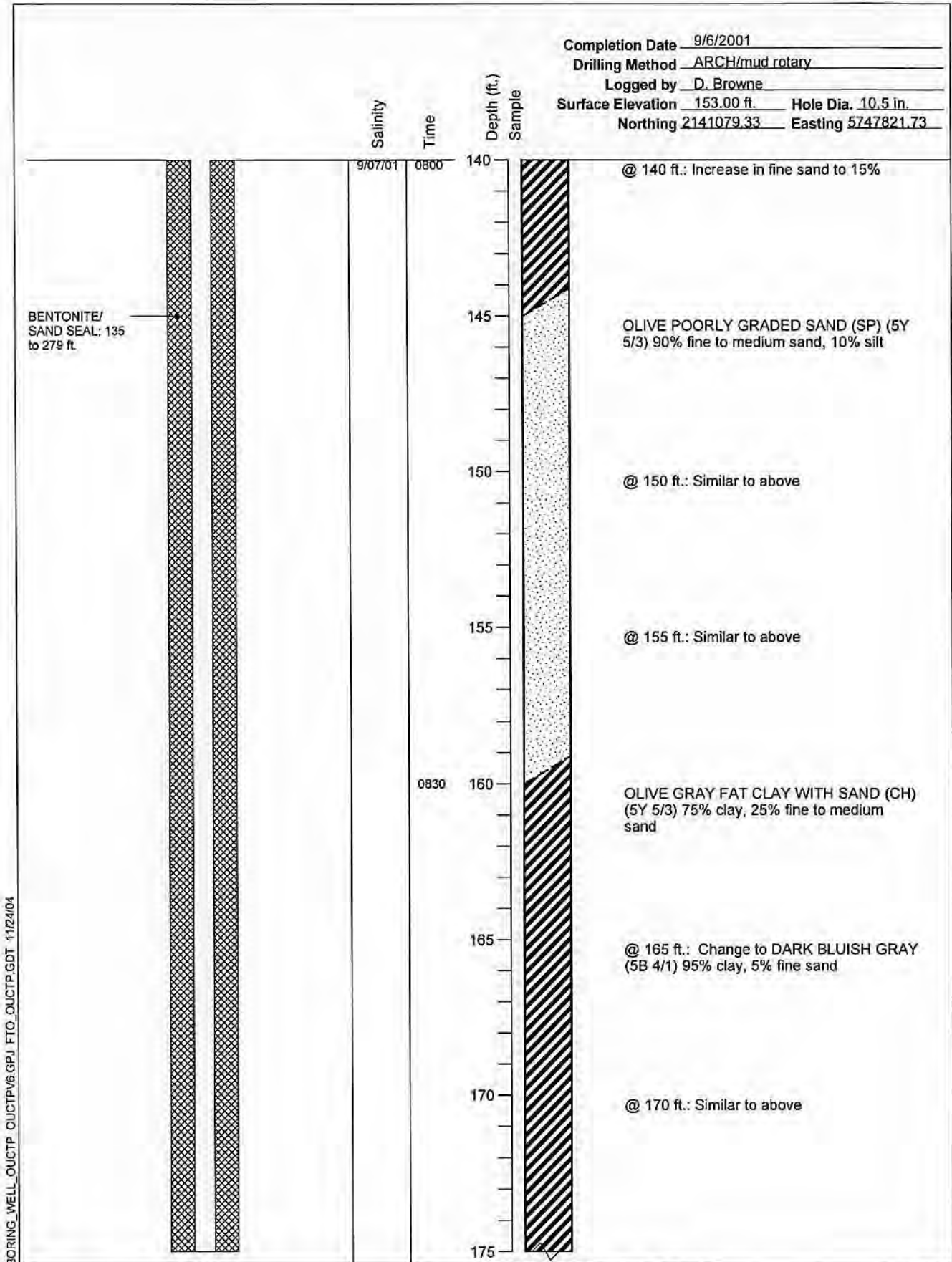
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*MDT / cm*

DATE  
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REVISED DATE



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BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-32-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A39**

DRAWN  
TAC

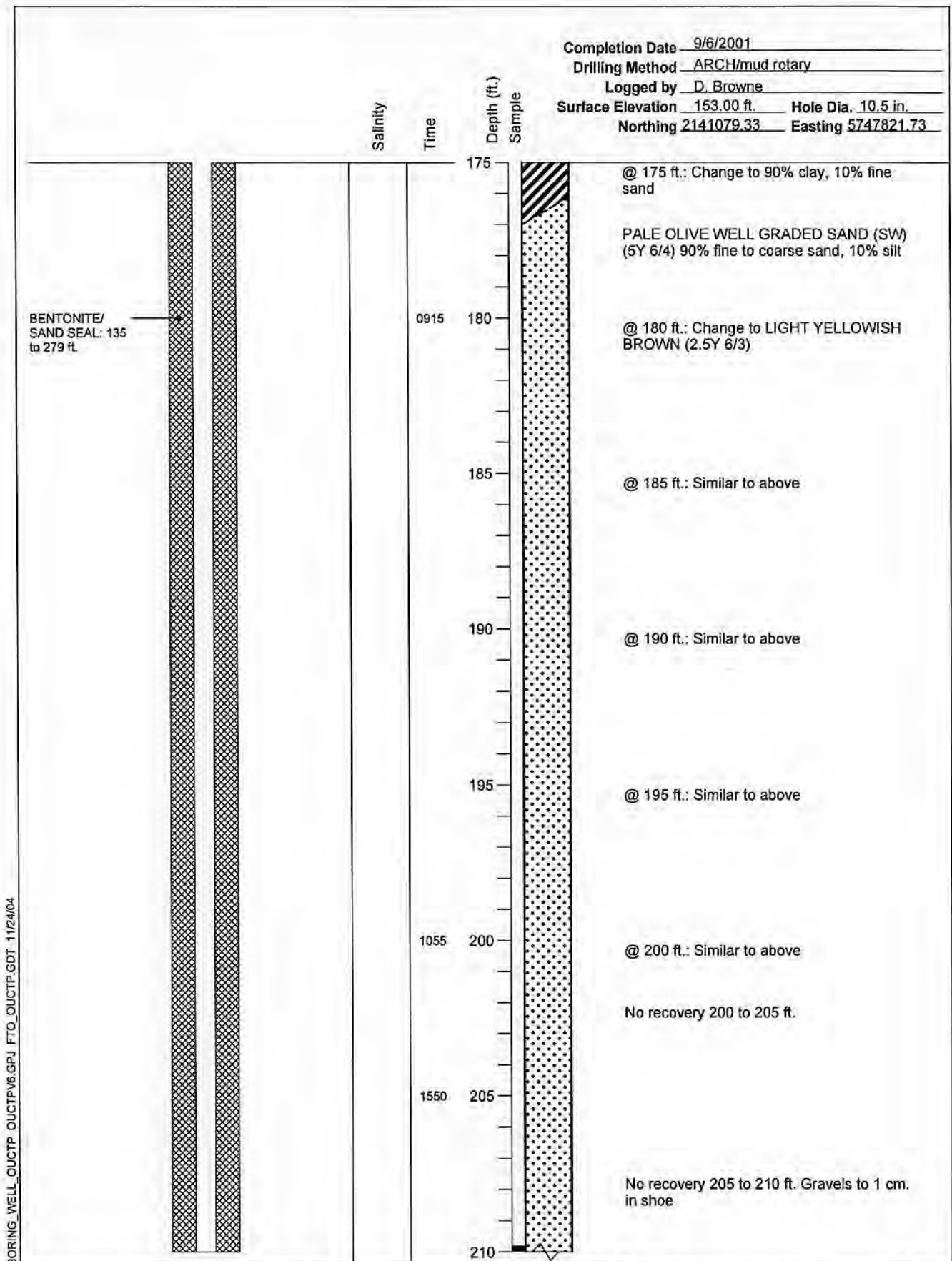
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BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-32-180**  
OUCTP

PLATE

**A39**

Fort Ord, California

DRAWN  
TAC

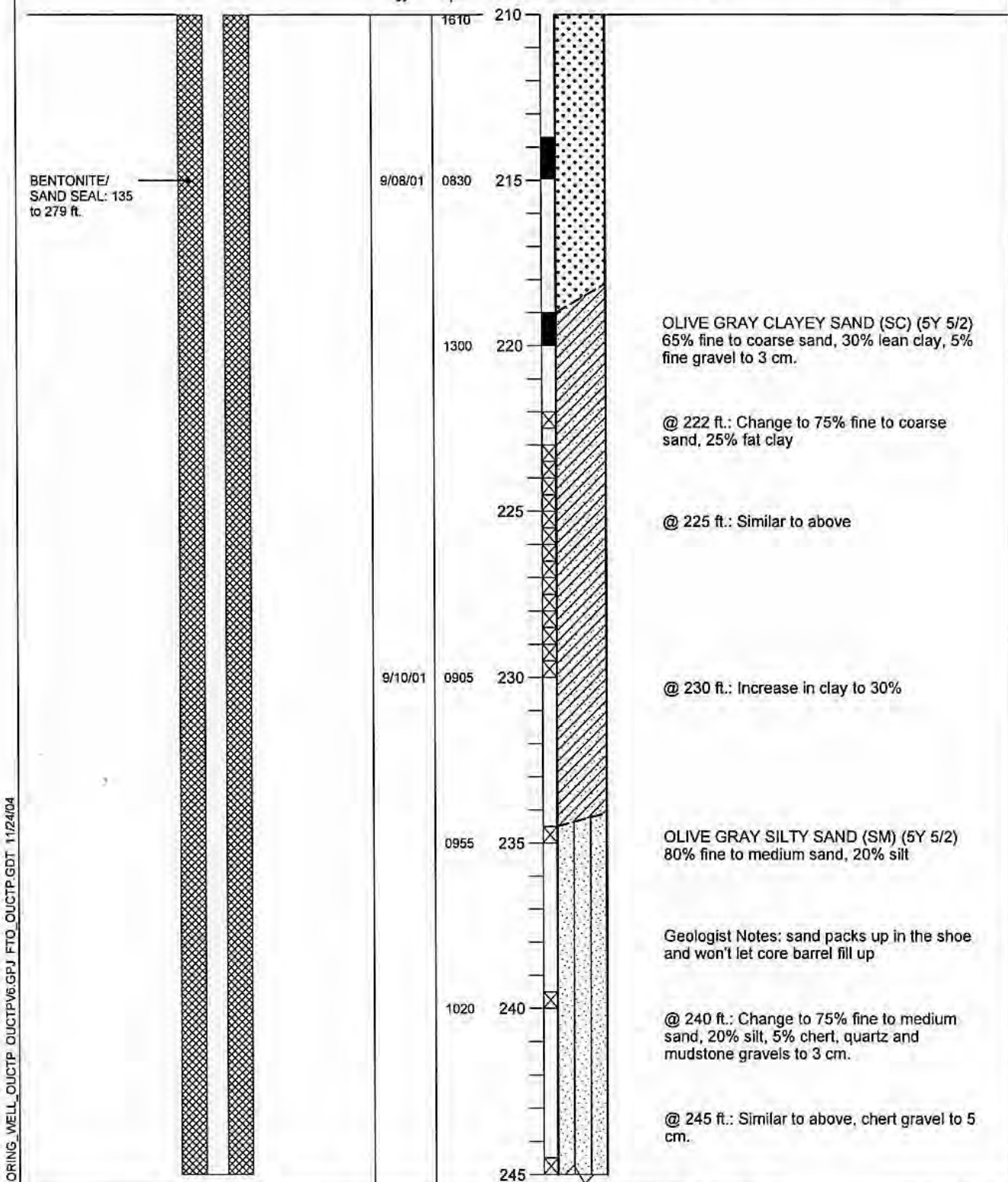
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APPROVED  
*MDT / [Signature]*

DATE  
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REVISED DATE

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 Northing 2141079.33 Easting 5747821.73



**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



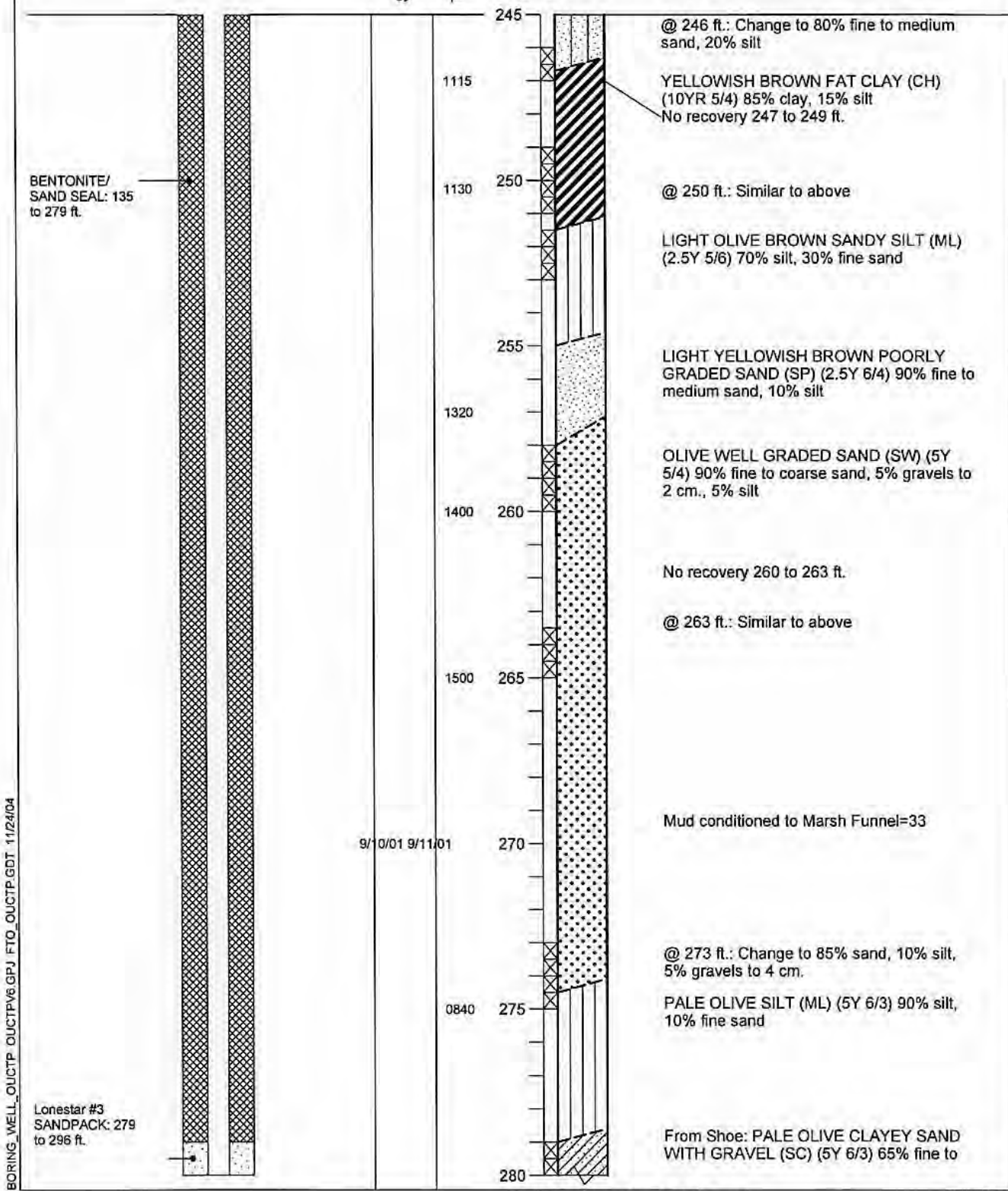
**MACTEC**

Fort Ord, California

**A39**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/cw</i>	11/04	

Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
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 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180** PLATE  
 OUCTP



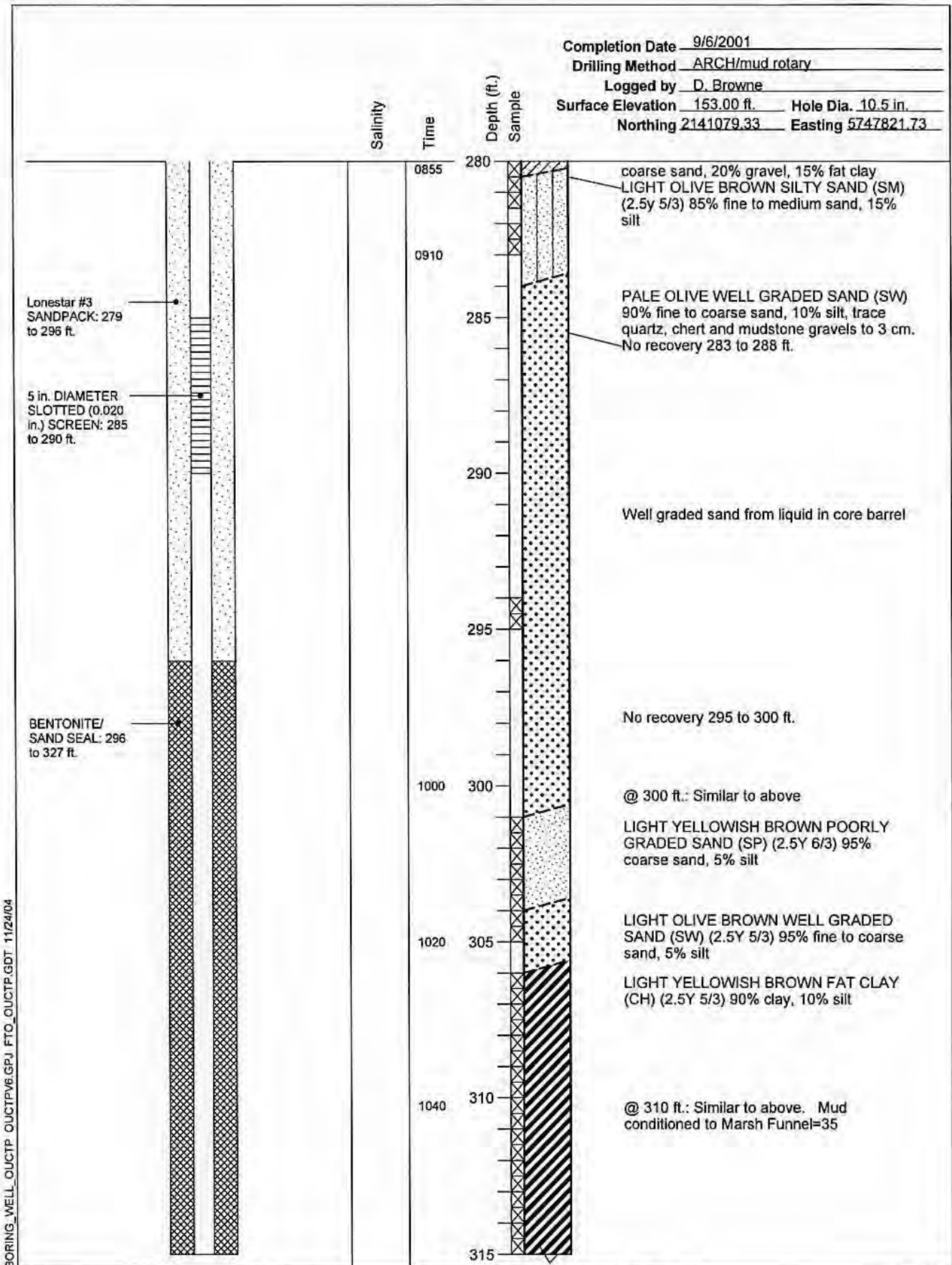
**MACTEC**

Fort Ord, California

**A39**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>WST/cw</i>	DATE 11/04	REVISED DATE
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Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

JOB NUMBER  
55596 001701

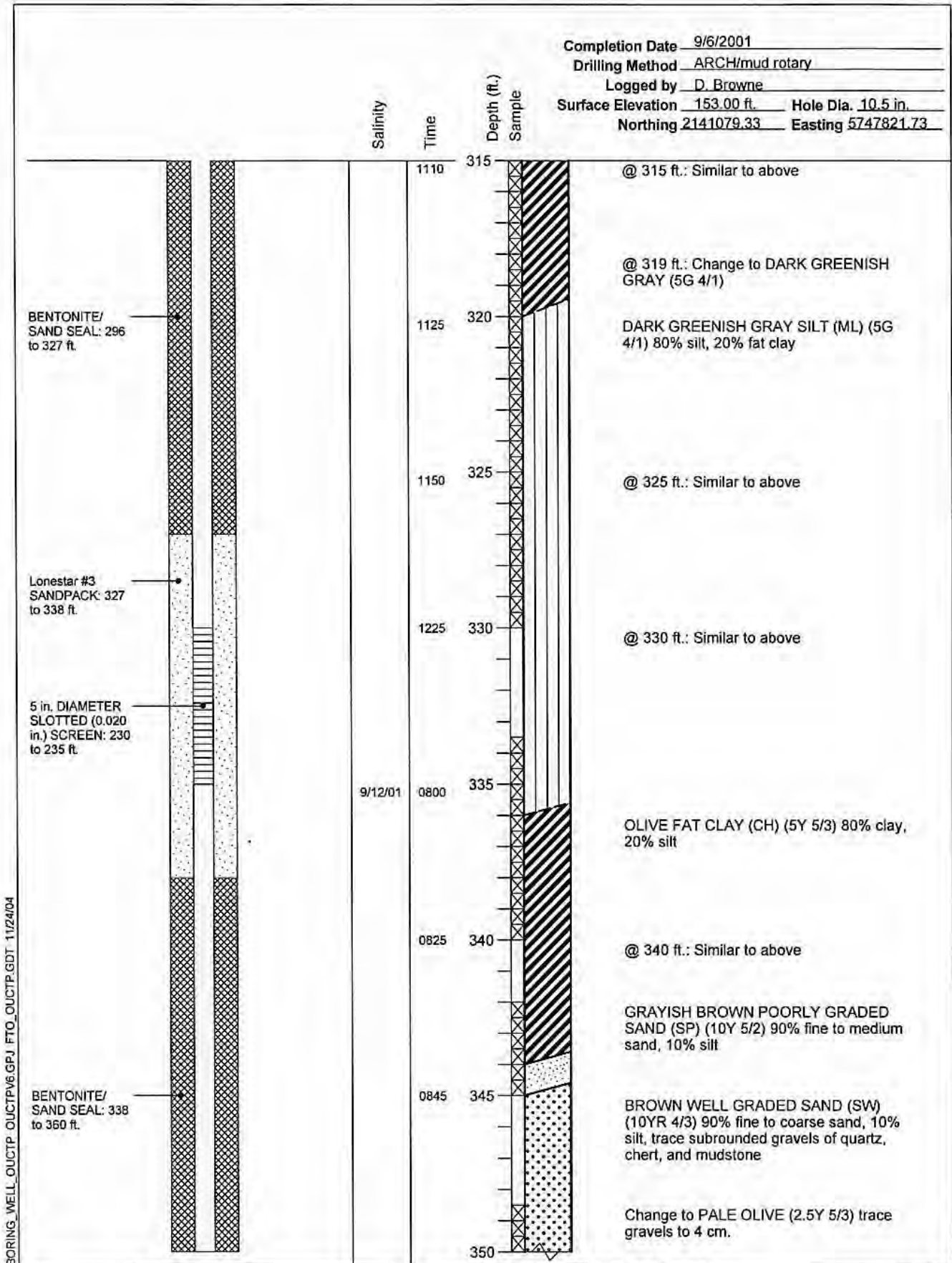
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DATE  
11/04

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 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

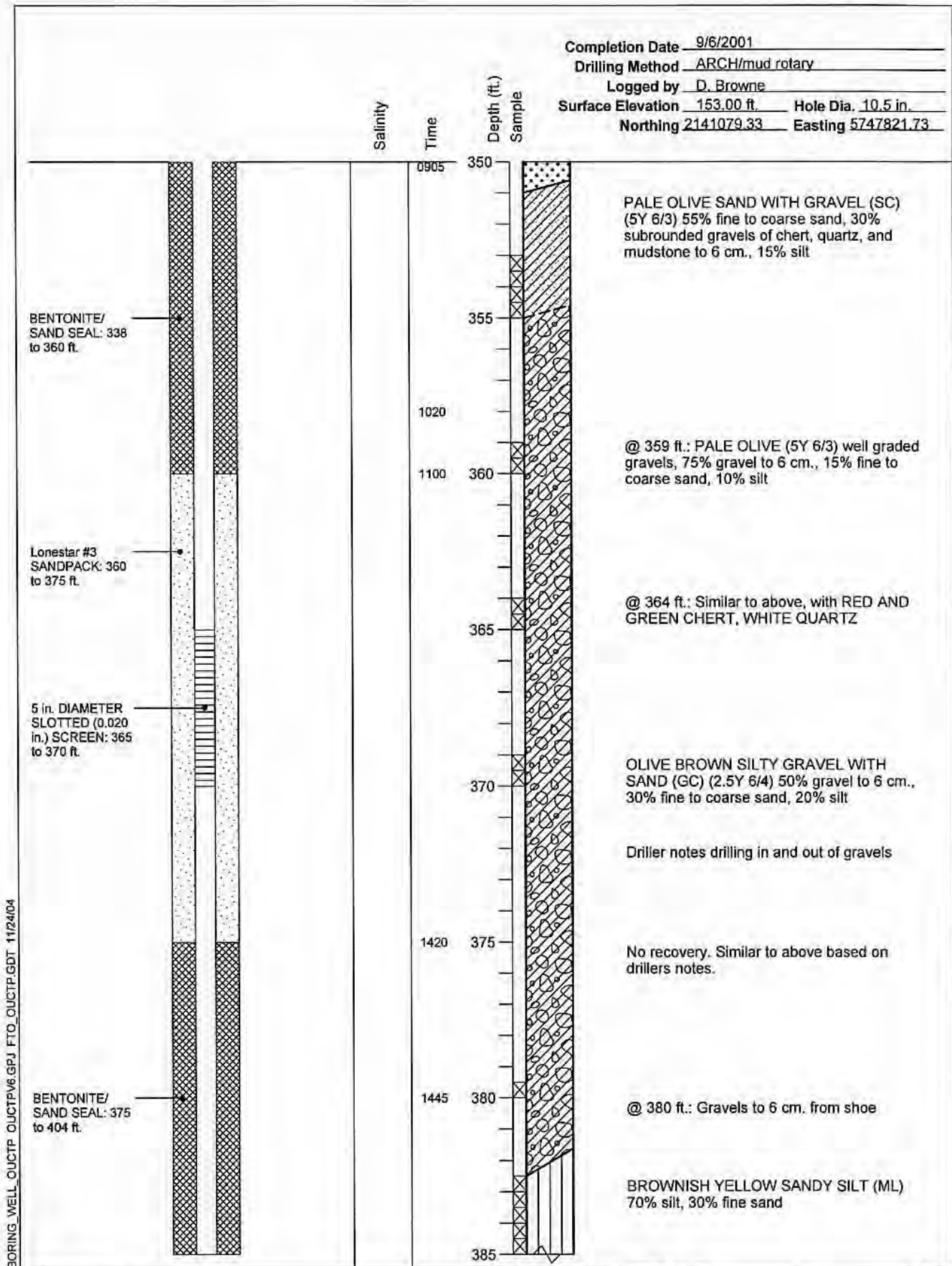
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APPROVED  
*MDT / CW*

DATE  
11/04

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**Well Construction Details and  
 Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

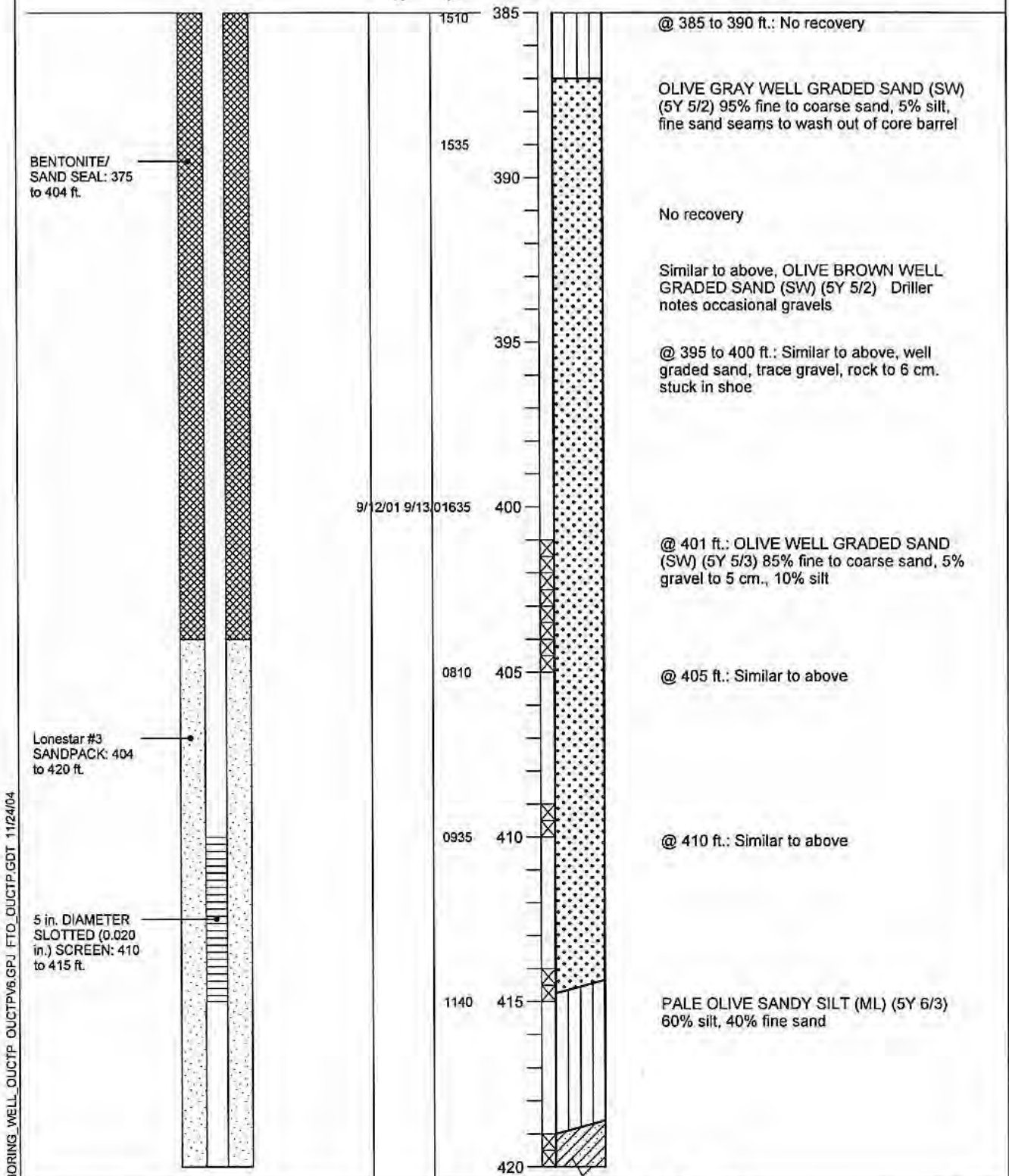
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BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180** PLATE



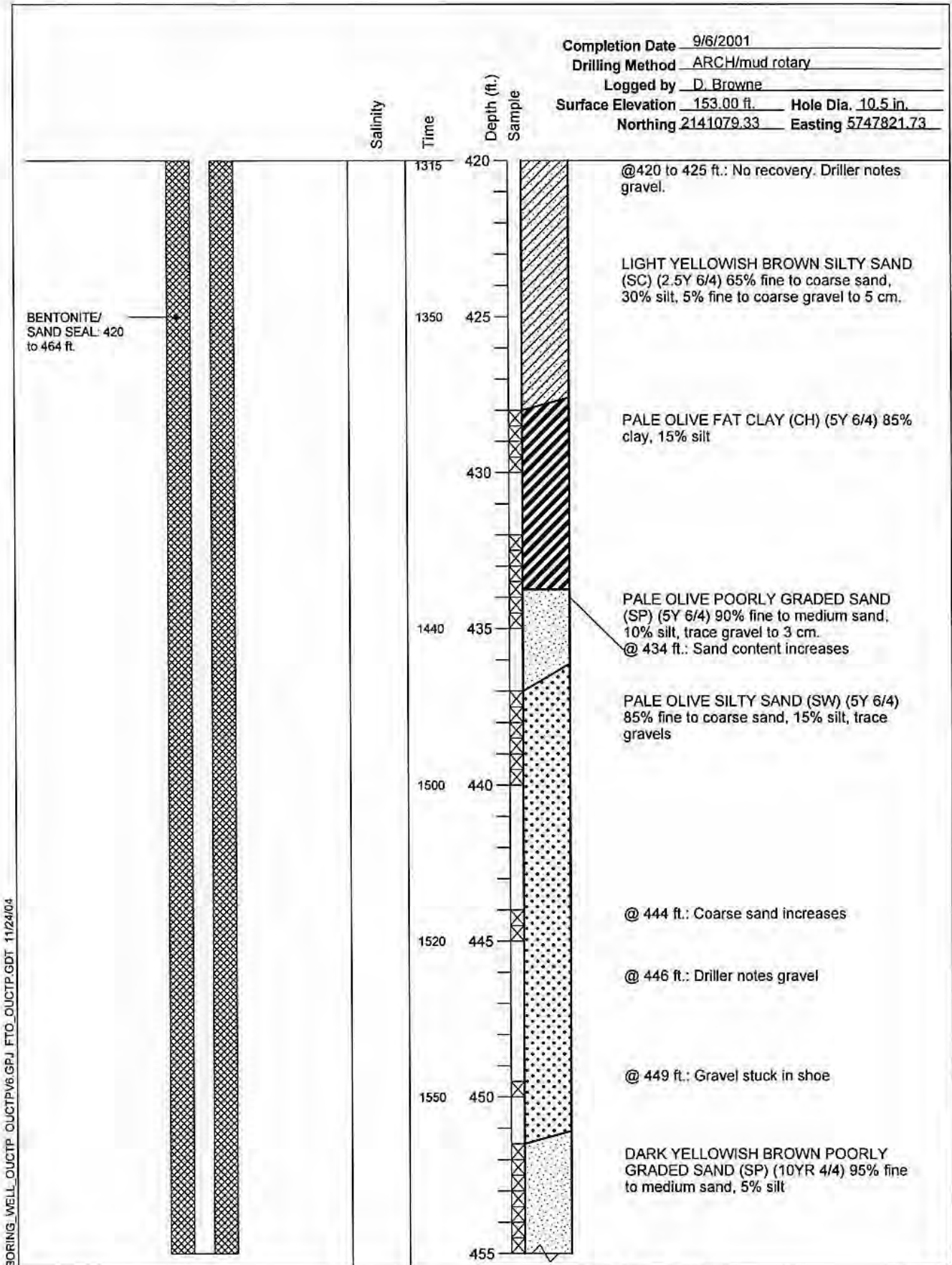
**MACTEC**

OUCTP  
 Fort Ord, California

**A39**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	MDT/cm	11/04	

Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



**Well Construction Details and Log of Boring MW-BW-32-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A39**

DRAWN  
TAC

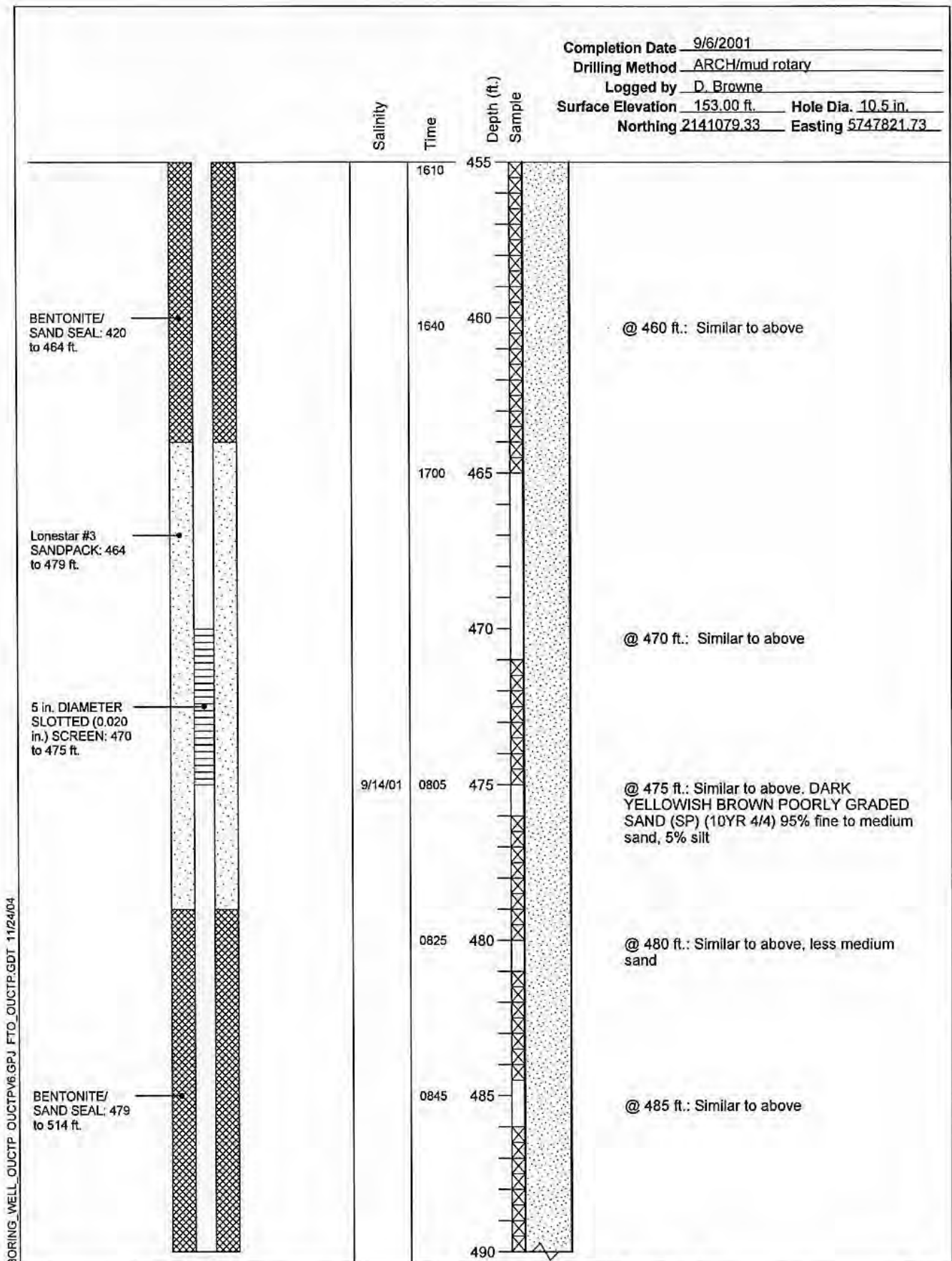
JOB NUMBER  
55596 001701

APPROVED  
*MOT/cwr*

DATE  
11/04

REVISED DATE

Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-32-180**  
OUCTP

PLATE



**MACTEC**

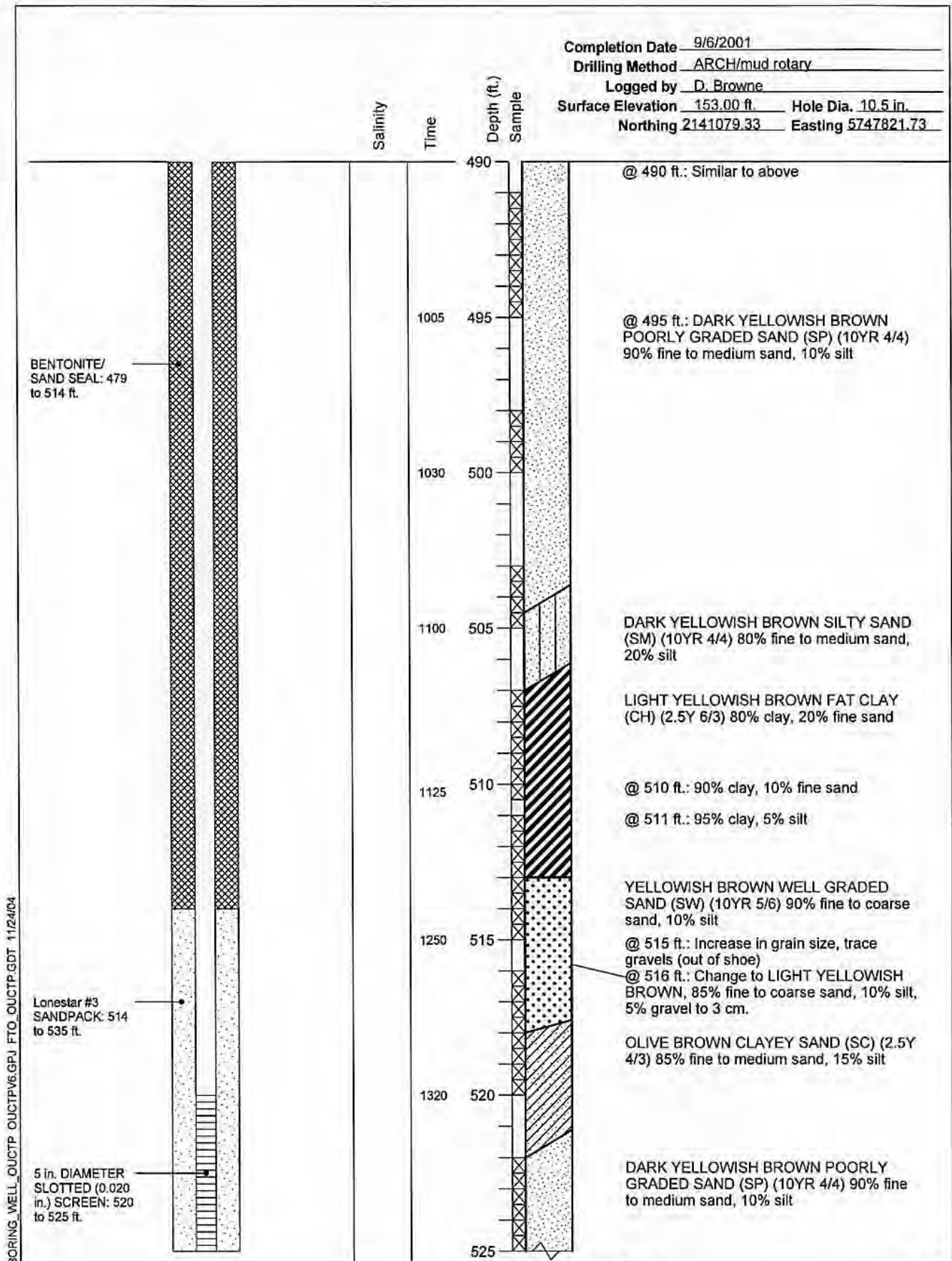
Fort Ord, California

**A39**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/car</i>	11/04	



Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
Log of Boring MW-BW-32-180**  
OUCTP

PLATE



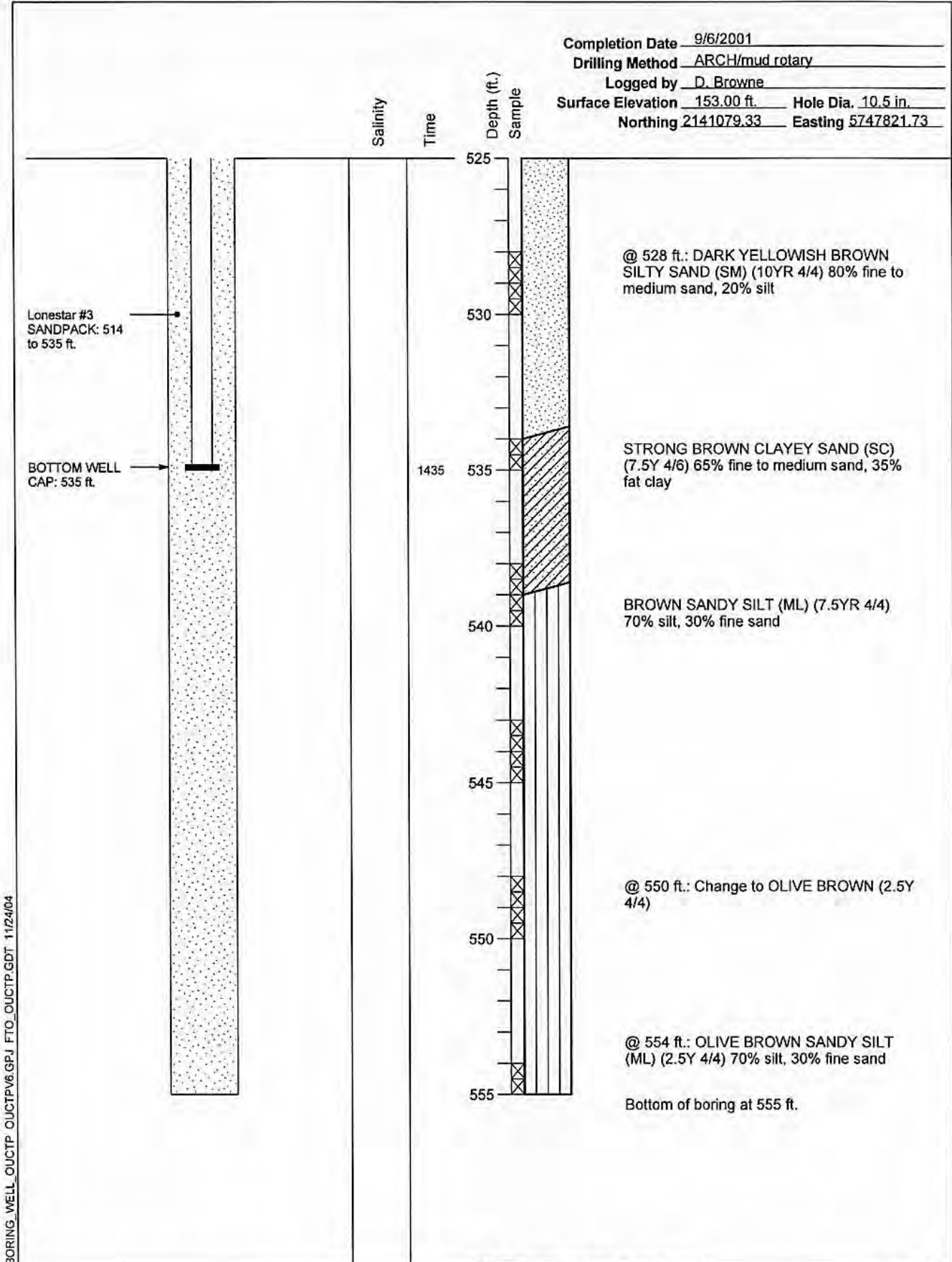
**MACTEC**

Fort Ord, California

**A39**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04	REVISED DATE
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Completion Date 9/6/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.00 ft. Hole Dia. 10.5 in.  
 Northing 2141079.33 Easting 5747821.73



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-32-180  
 OUCTP

PLATE

**A39**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT/cor</i>	11/04	

Top of PVC Casing  
Elev. 113.48 ft.

Completion Date 11/7/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 112.65 ft. Hole Dia. 12 in.  
 Northing 2142128.262 Easting 5747436.099

GROUND SURFACE

Top of casing at  
1.5 ft. above  
ground level

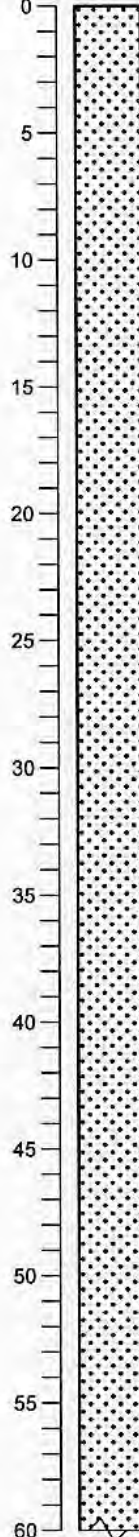
5 DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: 0 to 85  
ft.

BENTONITE-  
CEMENT SEAL: 0  
to 44 ft.

BENTONITE-  
PELLET SEAL: 44  
to 47 ft.

Lonestar #2/12  
SANDPACK: 47 to  
85 ft.

Depth (ft.)  
Sample



VERY DARK GRAYISH BROWN WELL  
GRADED SAND (SW) (10YR 3/2) Loose,  
moist, 95% fine to coarse sand, 5% silt

@ 4 ft.: Color change to DARK  
YELLOWISH BROWN (10YR 4/6), dry

@ 10 ft.: Similar to above

@ 12 ft.: Color change to LIGHT  
YELLOWISH BROWN (2.5Y 6/4), dry to  
moist

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above, decrease in  
coarse sand

@ 25 ft.: Similar to above

@ 30 ft.: Color change to OLIVE YELLOW  
(2.5Y 6/6)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above, moist

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-32-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A40**

DRAWN  
PCB

JOB NUMBER  
55596 001701

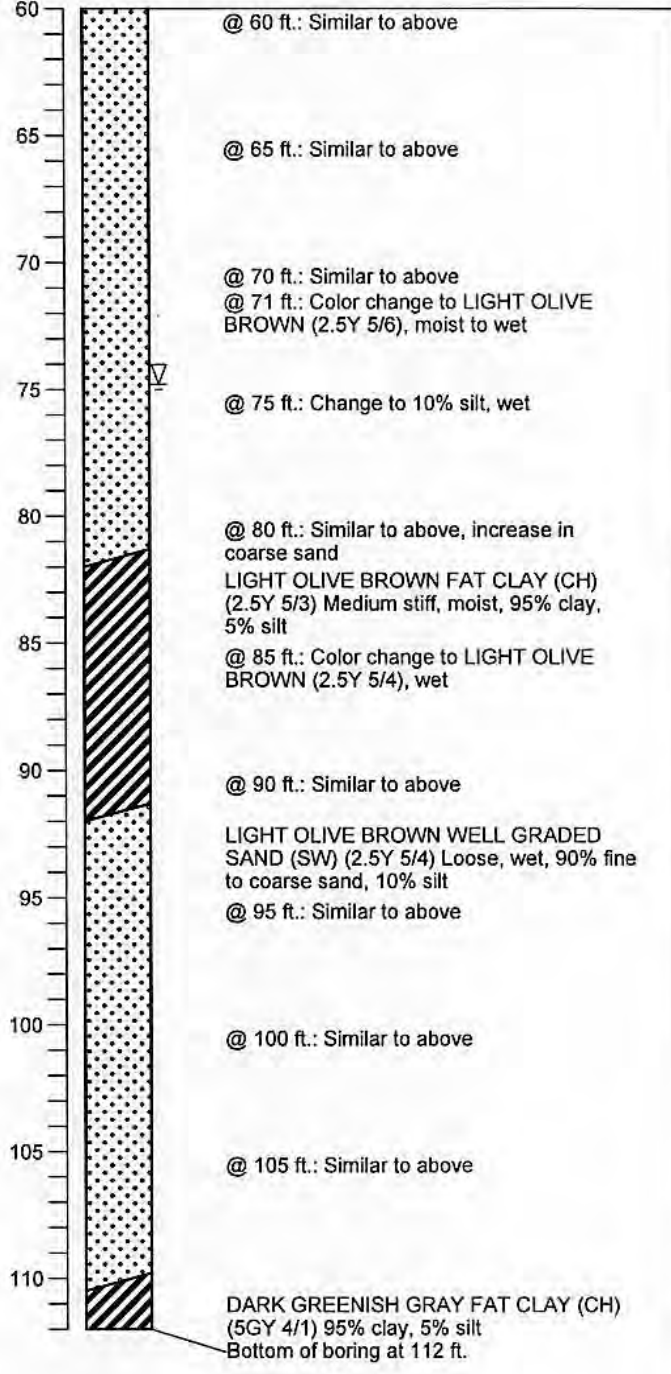
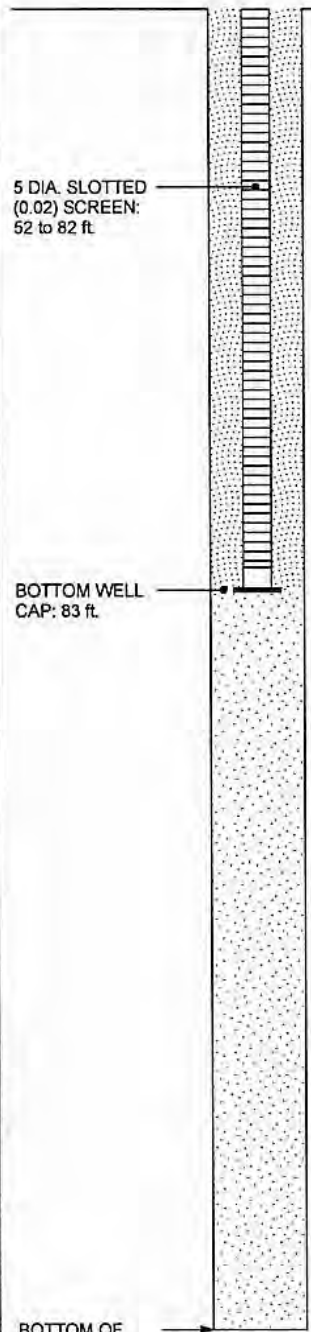
APPROVED  
*MST / CM*

DATE  
11/04

REVISED DATE

Completion Date 11/7/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 112.65 ft. Hole Dia. 12 in.  
 Northing 2142128.262 Easting 5747436.099

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BOTTOM OF BOREHOLE: 112 ft.



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-32-A**  
 OUCTP

PLATE

**A40**

Fort Ord, California

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cw*

DATE  
11/04

REVISED DATE

Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35

Top of PVC Casing  
 Elev. 153.85 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

BENTONITE-  
 CEMENT SEAL: 0  
 to 170 ft.

Salinity  
 Time

8/27/01 1435

1445

1500

Depth (ft.)  
 Sample

0  
 5  
 10  
 15  
 20  
 25  
 30  
 35  
 40  
 45  
 50

OLIVE GRAY SILTY SAND (SM) (5Y 5/2)  
 Loose, dry, 80% fine to coarse sand, 20% silt

@ 5 ft.: Similar to above

@ 10 ft.: Change to LIGHT OLIVE GRAY  
 SILTY SAND (5Y 6/7), 85% fine to coarse  
 sand, 15% silt

LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 6/4) Loose,  
 dry, 90% fine to coarse sand, 10% silt  
 @ 15 ft.: Similar to above

@ 20 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (10YR 6/4) Loose,  
 dry, 95% fine to medium sand, 5% silt  
 YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/4) Loose, dry, 95%  
 fine to coarse sand, 5% silt

@ 27 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/4)

@ 30 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6) Decrease in coarse sand

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) Moist, 90% fine to coarse sand,  
 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-33-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

A41

DRAWN  
 TAC

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cur*

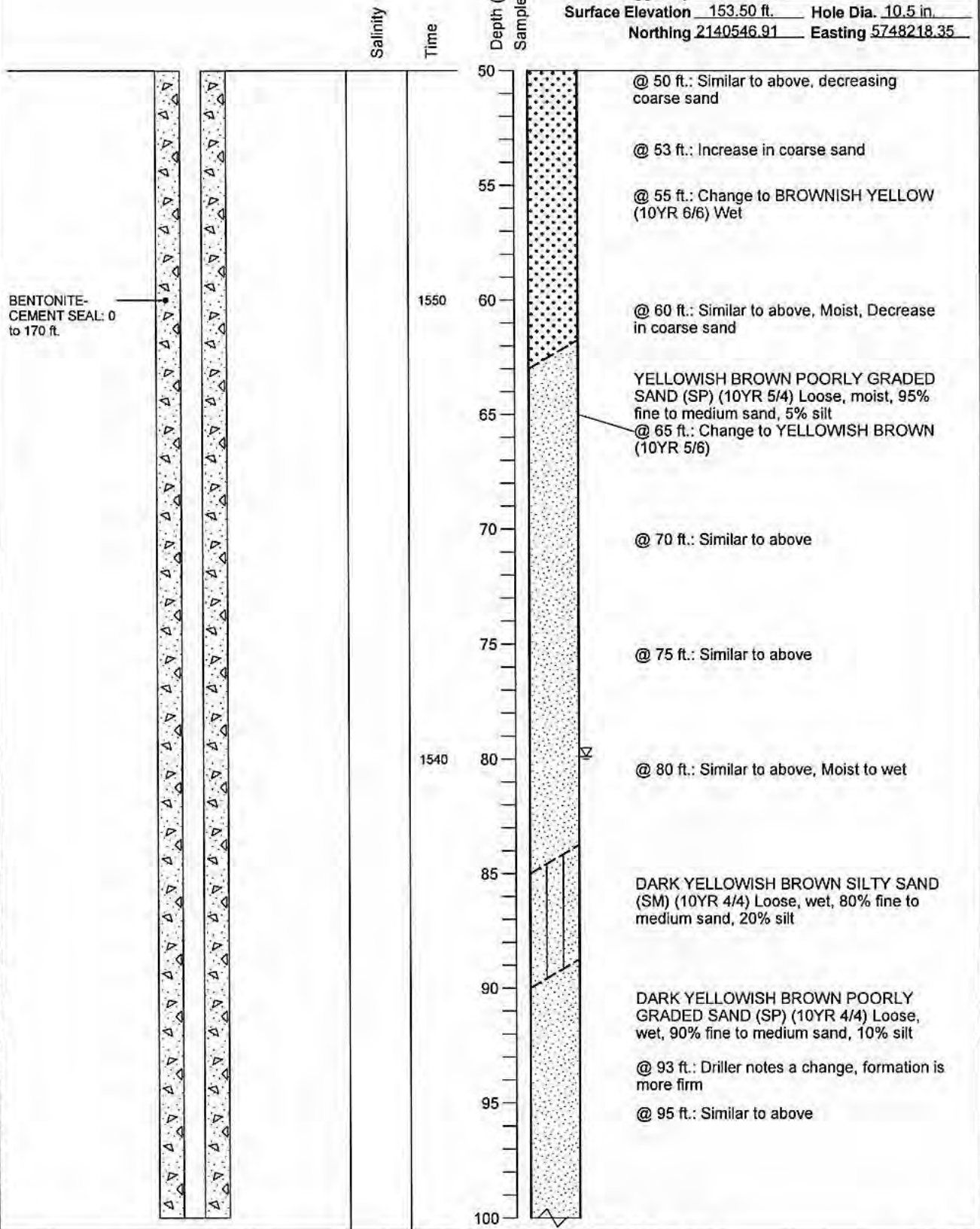
DATE  
 11/04

REVISED DATE



Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and Log of Boring MW-BW-33-180**  
OUCTP

PLATE



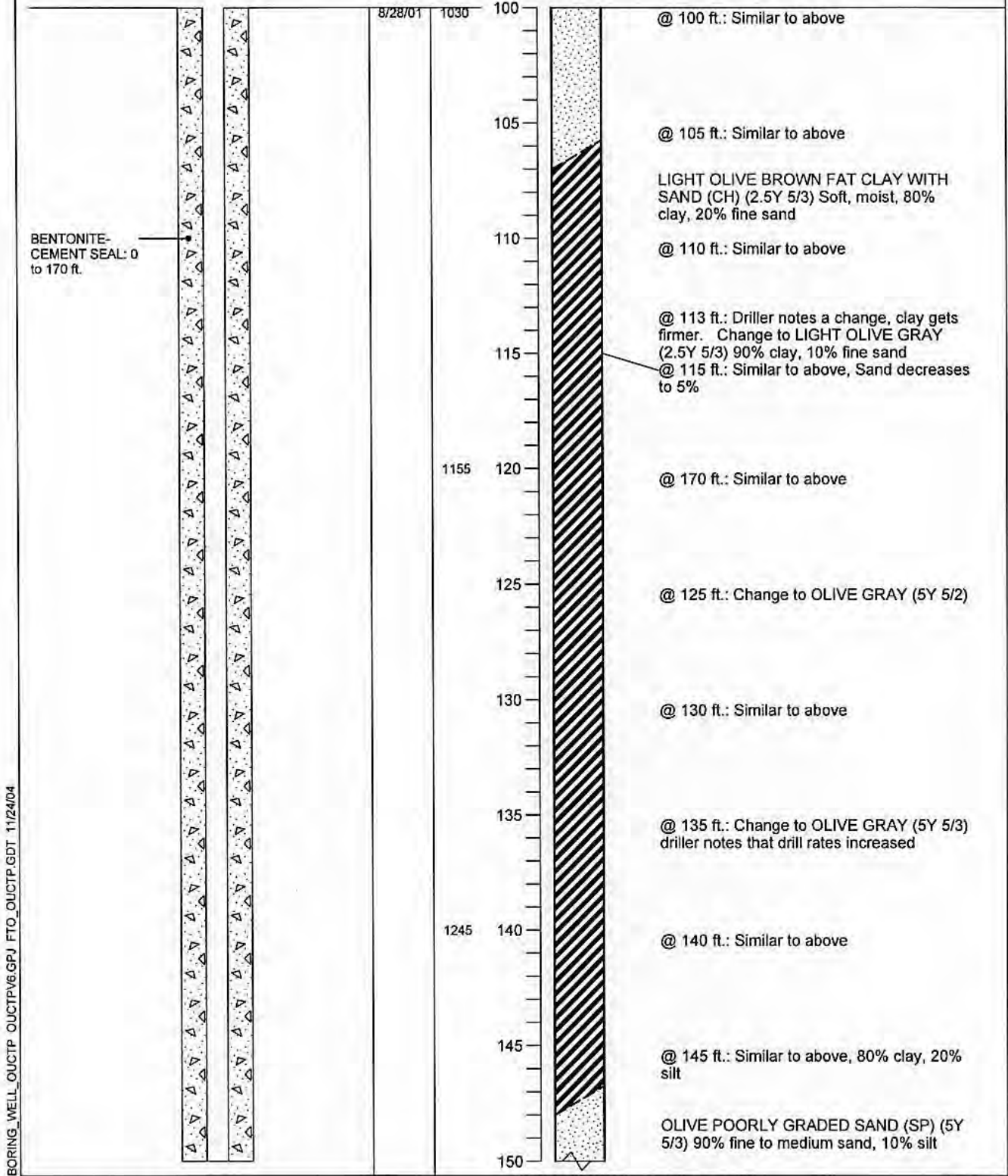
**MACTEC**

Fort Ord, California

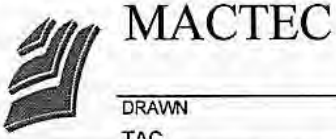
**A41**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	MDT / cm	11/04	

Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



Well Construction Details and Log of Boring MW-BW-33-180 PLATE  
 OUCTP

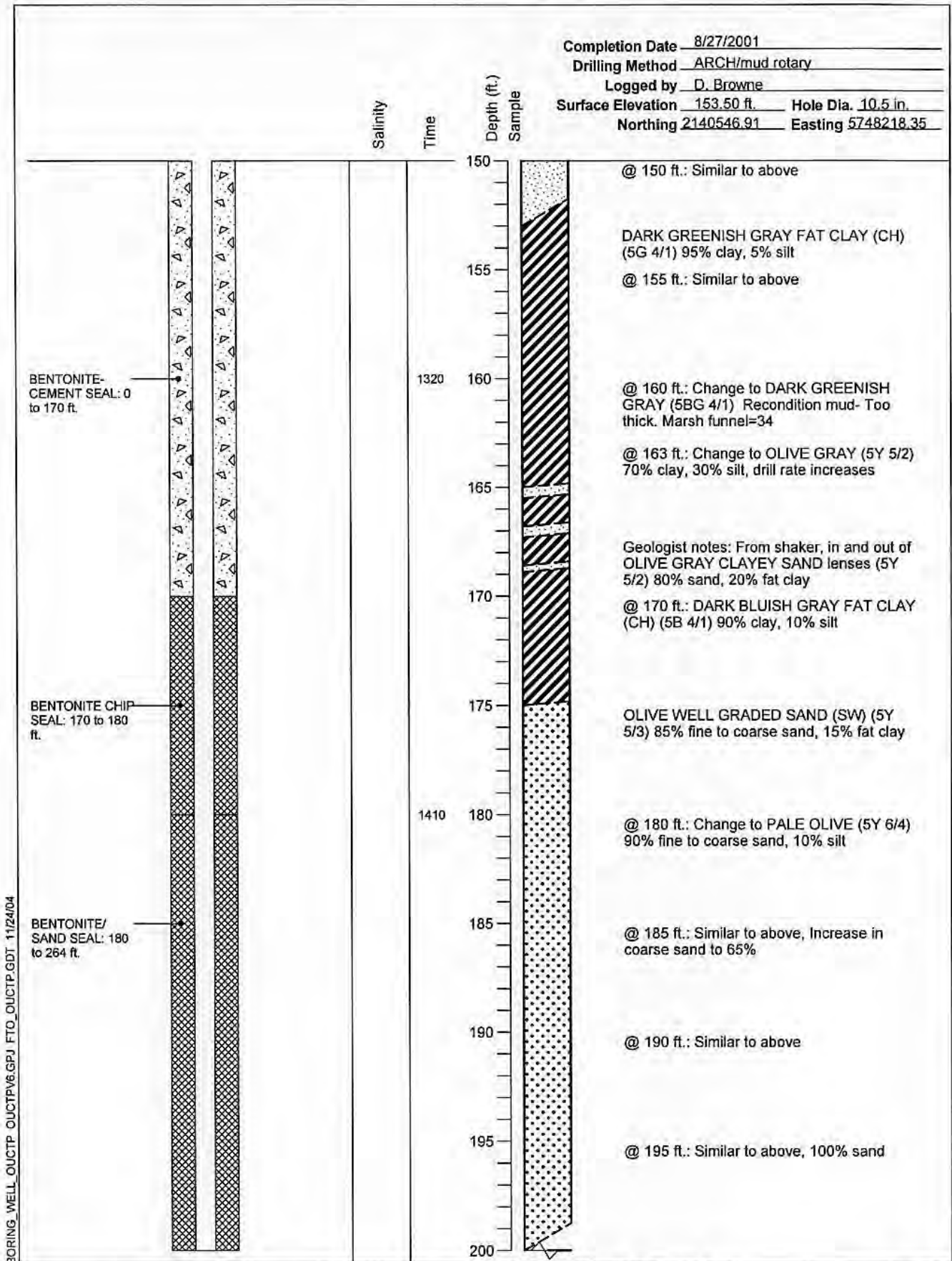


Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT / car</i>	11/04	

**A41**

Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP\_OUCTPV&GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-33-180**  
 OUCTP

PLATE



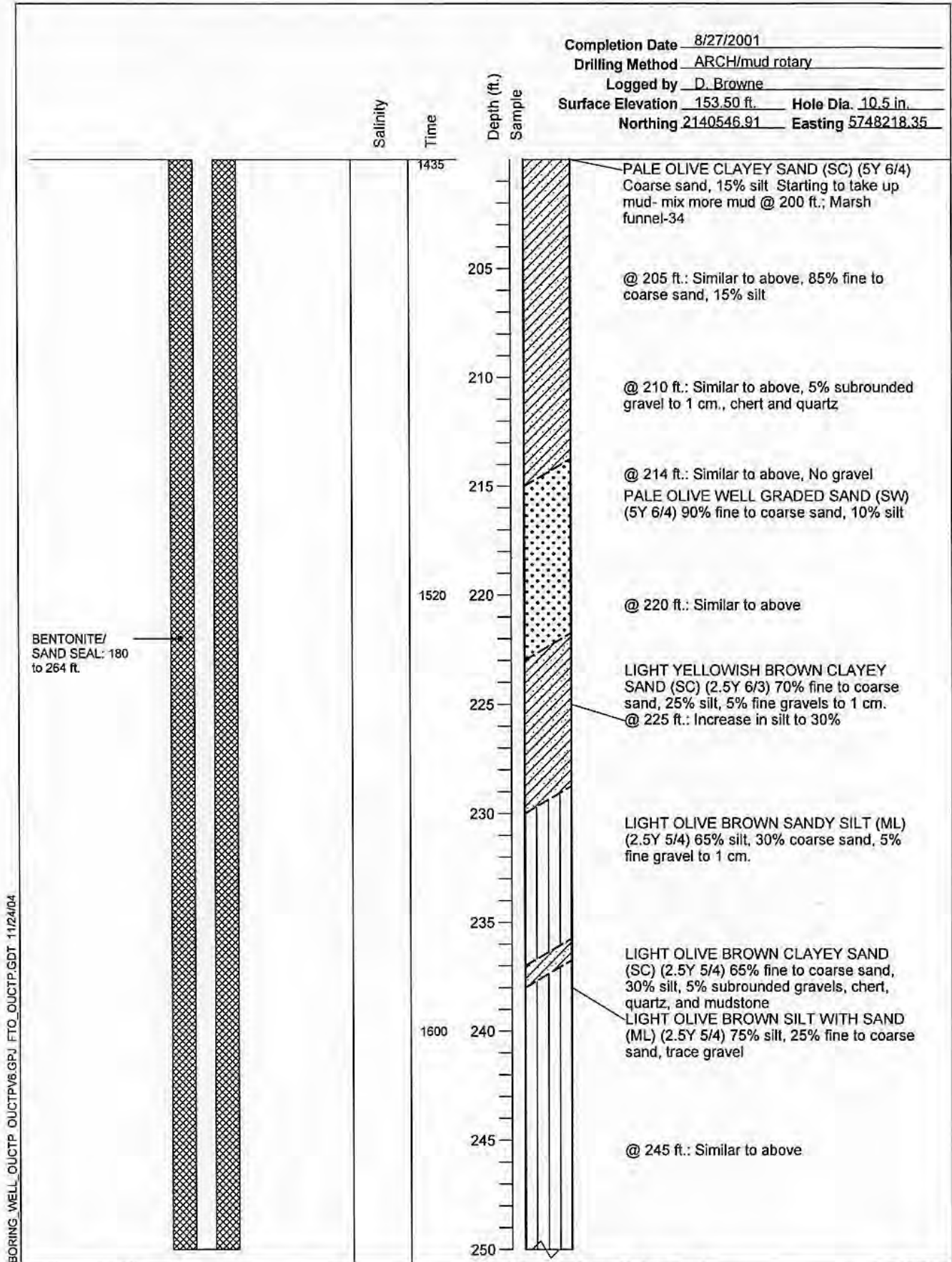
**MACTEC**

Fort Ord, California

**A41**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MDT/cw</i>	DATE 11/04	REVISED DATE
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Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-33-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A41**

DRAWN  
 TAC

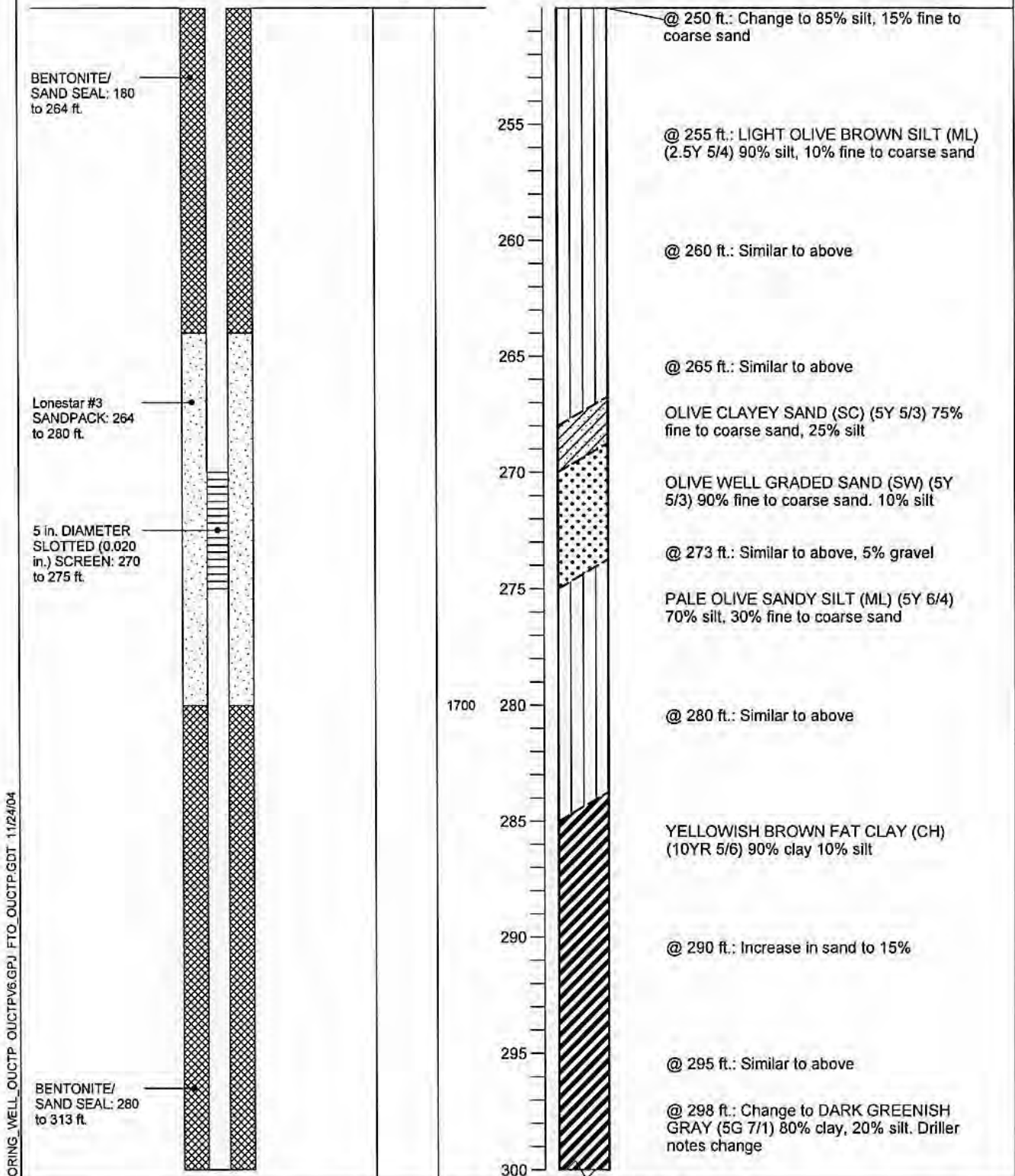
JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cur*

DATE  
 11/04

REVISED DATE

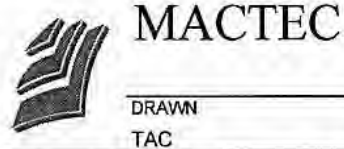
Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-33-180**  
 OUCTP

PLATE



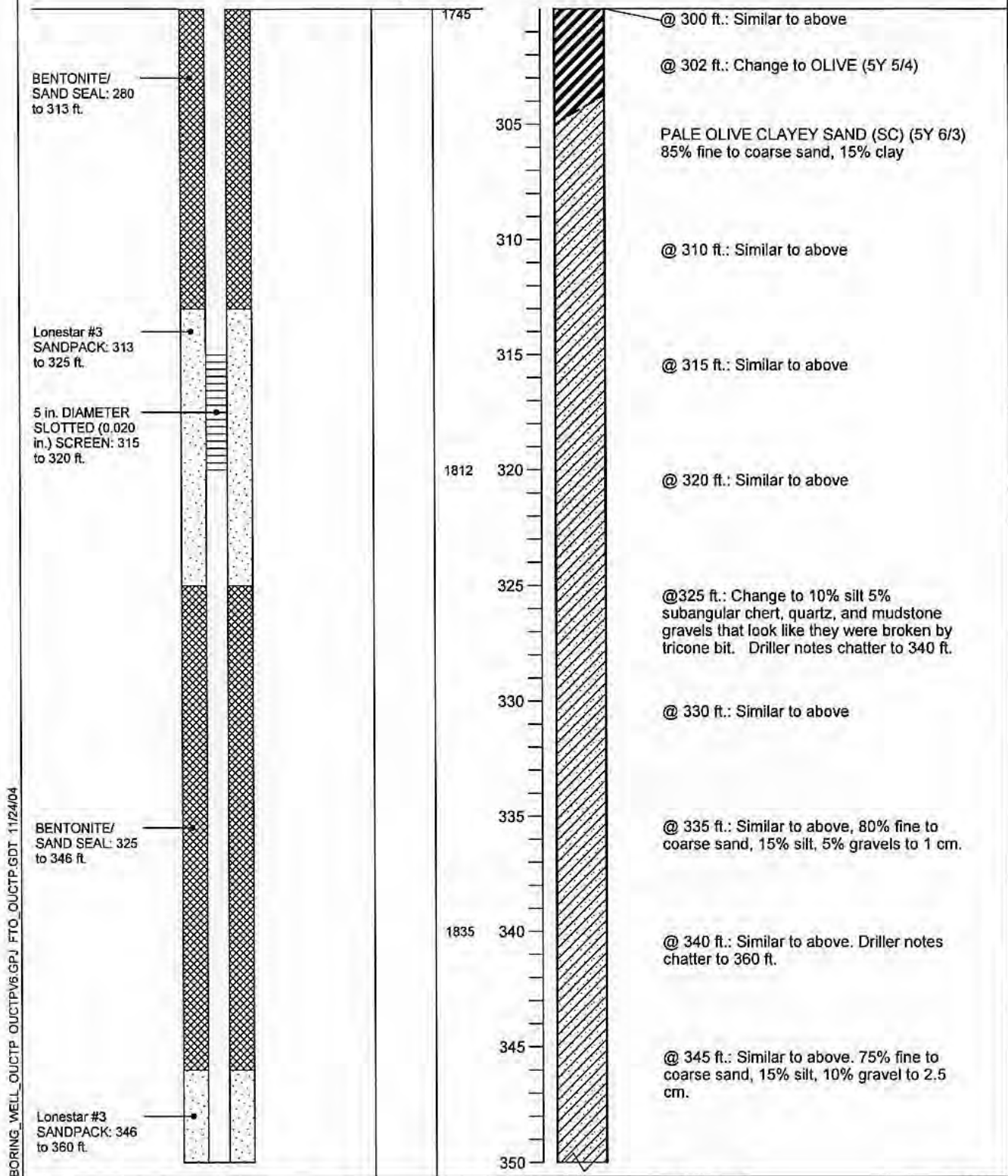
Fort Ord, California

**A41**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MST / cur</i>	DATE 11/04	REVISED DATE
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Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP\_VS\_GPJ\_FTO\_OUCTP\_GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-33-180**  
 OUCTP

PLATE



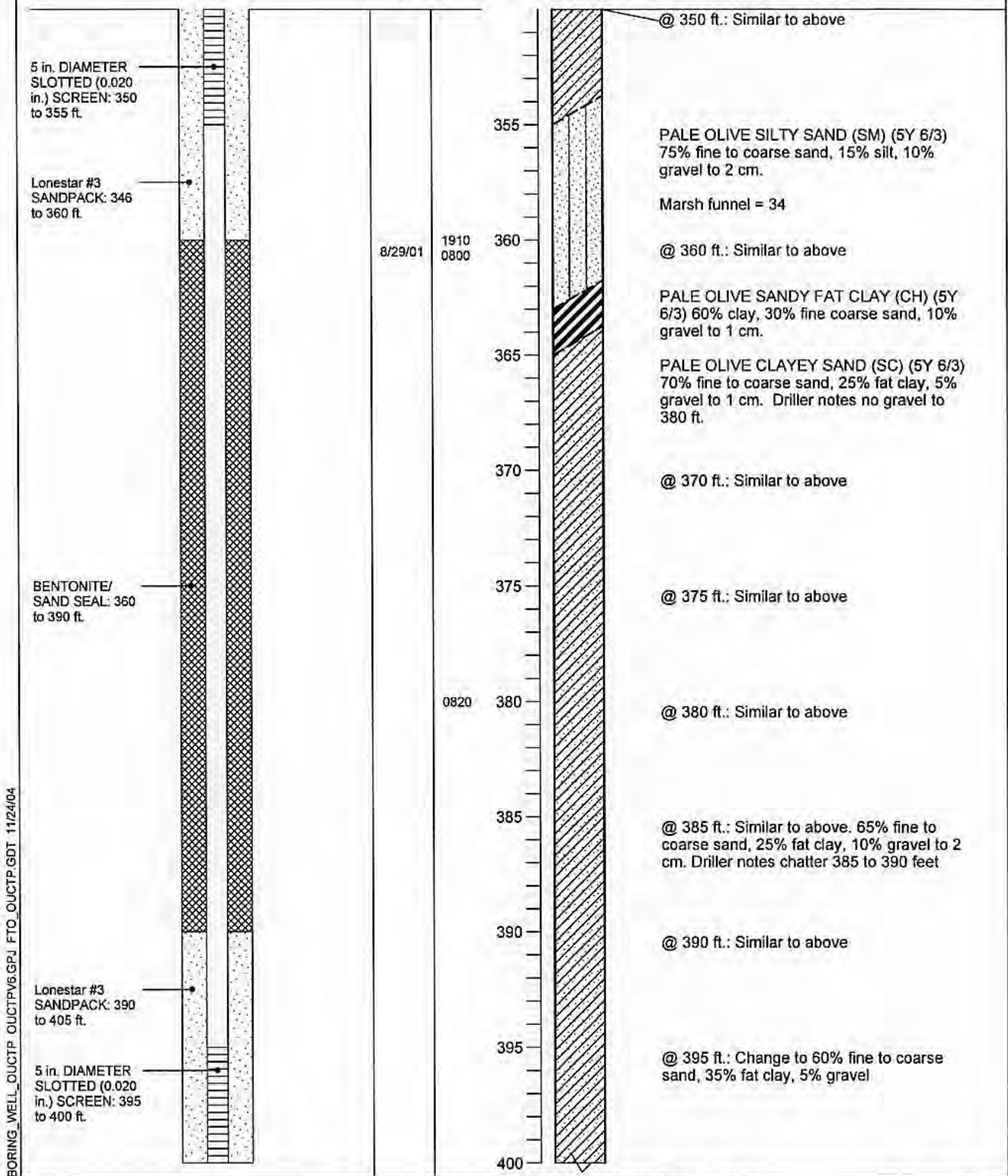
**MACTEC**

Fort Ord, California

**A41**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MDT / cur</i>	DATE 11/04	REVISED DATE
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Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP.GPJ\_FTD\_OUCTP.GDT\_11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-33-180**  
 OUCTP

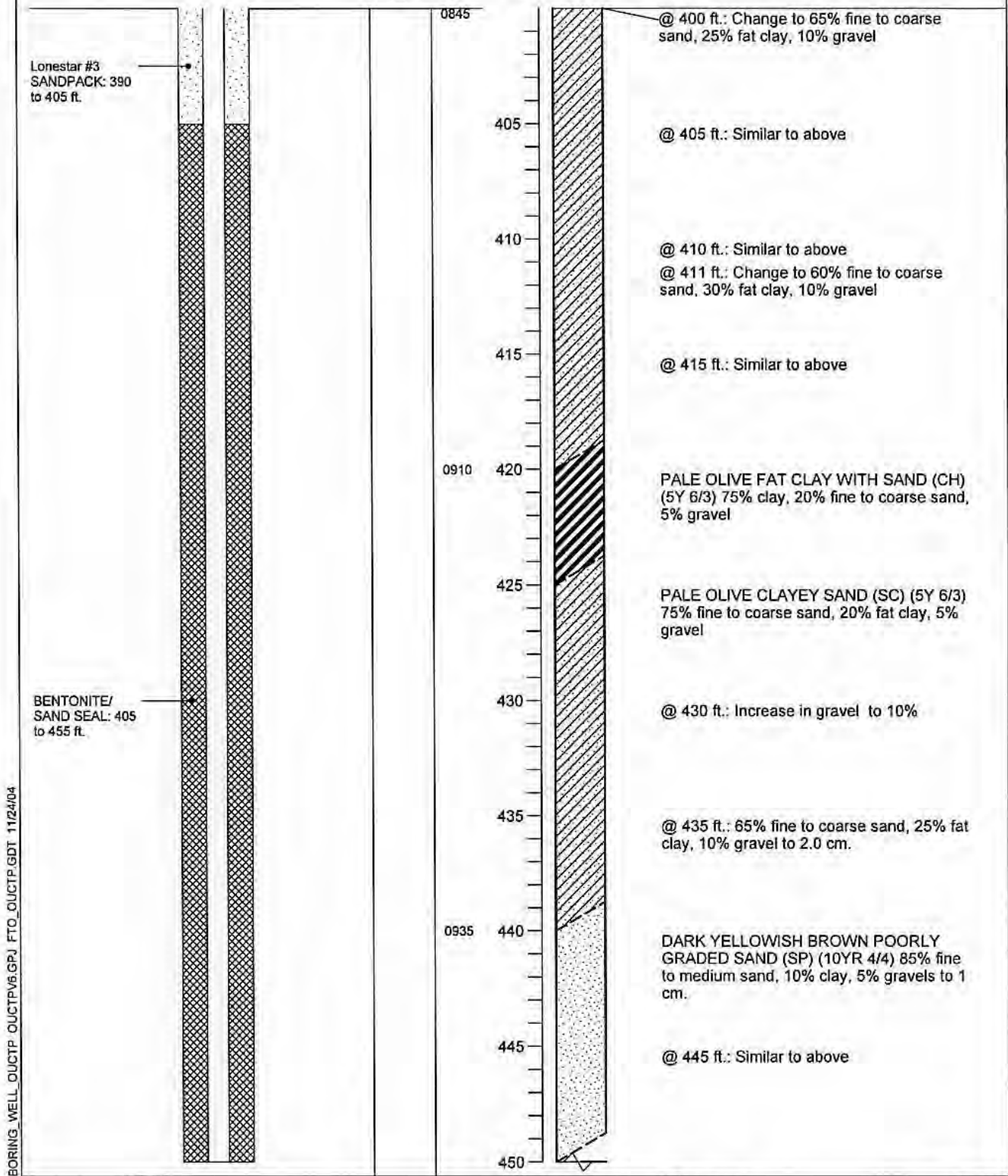
PLATE

Fort Ord, California

**A41**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MOT / car</i>	DATE 11/04	REVISED DATE
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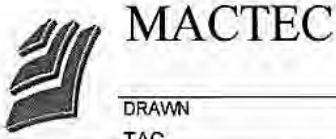
Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_DUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-33-180  
 OUCTP

PLATE

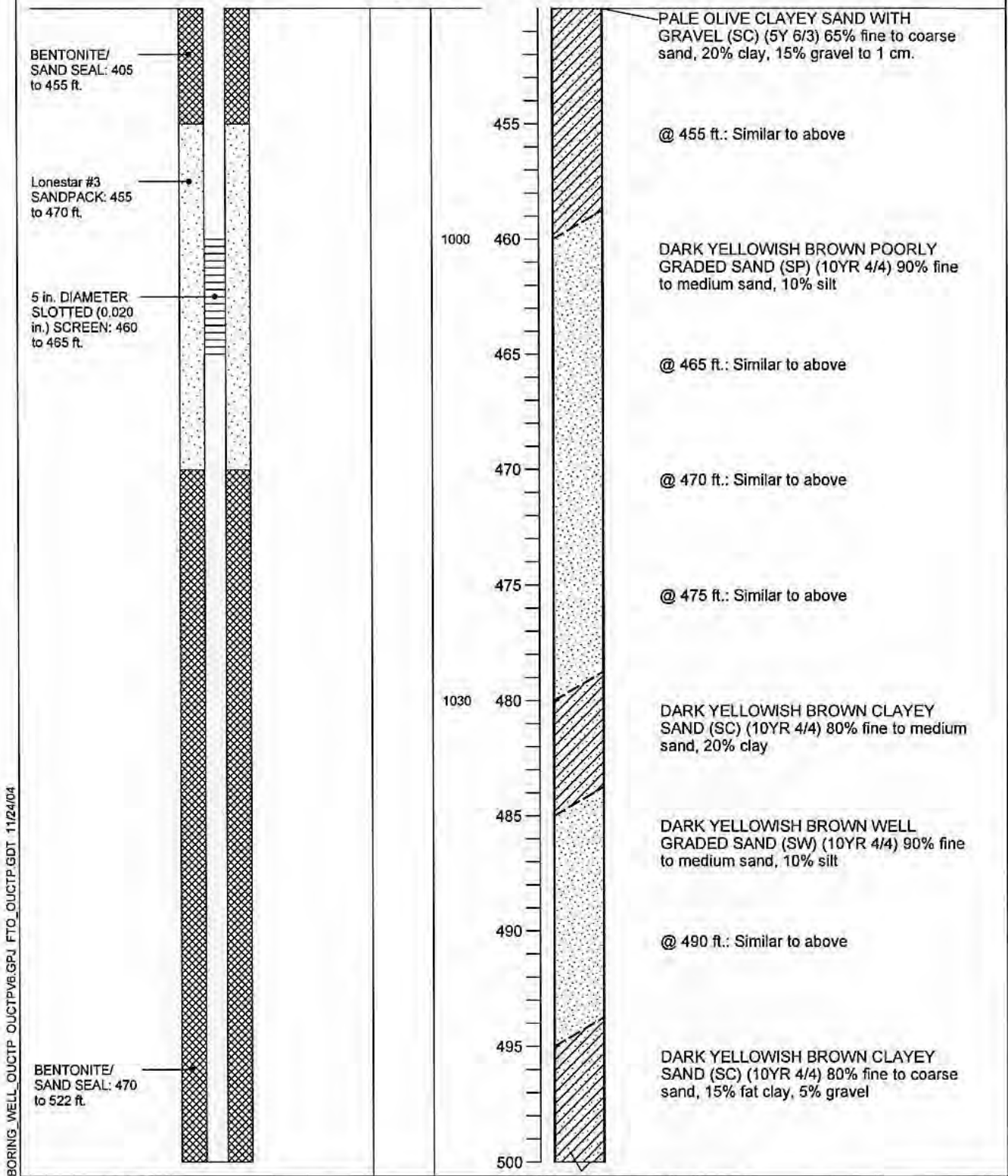


Fort Ord, California

**A41**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>mat/cur</i>	11/04	

Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP OUCTPV8.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-33-180**

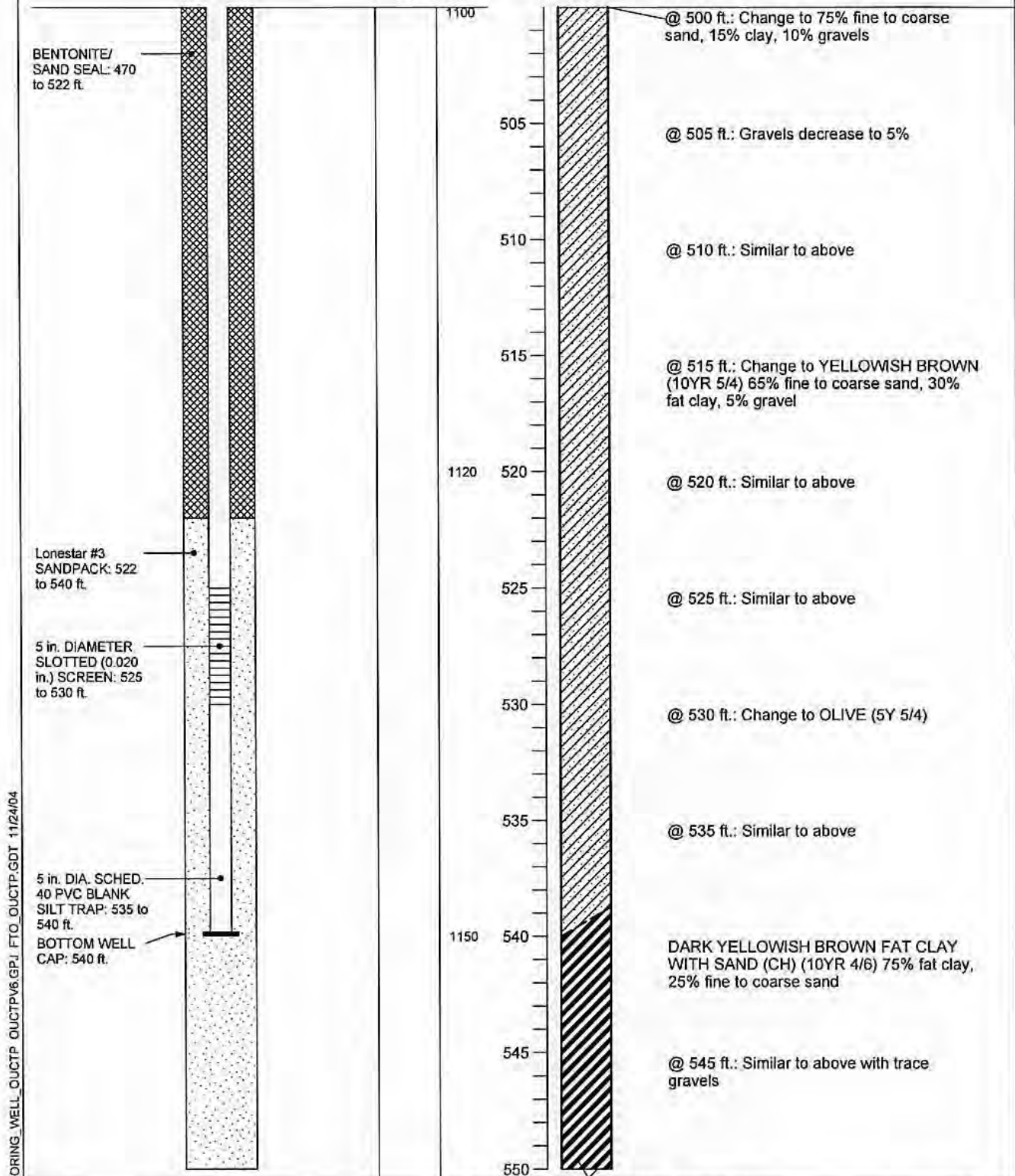
PLATE

OUCTP  
Fort Ord, California

**A41**

DRAWN TAC	JOB NUMBER 55596 001701	APPROVED <i>MDT/cen</i>	DATE 11/04	REVISED DATE
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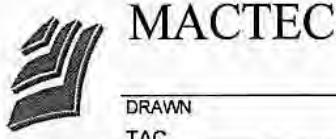
Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-33-180  
 OUCTP

PLATE



Fort Ord, California  
 DRAWN TAC JOB NUMBER 55596 001701 APPROVED *MDT / jcw* DATE 11/04 REVISED DATE

**A41**

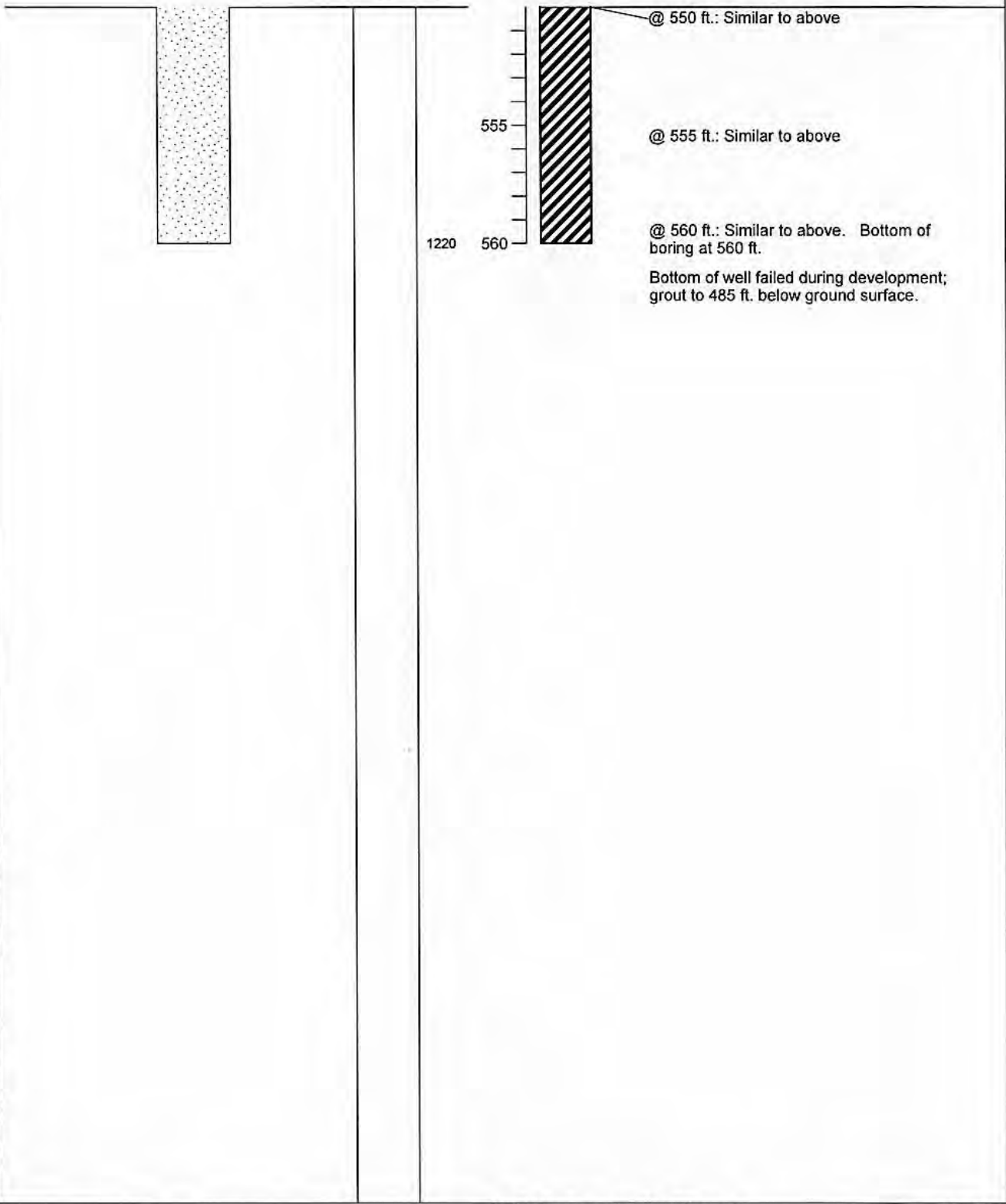


Completion Date 8/27/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 153.50 ft. Hole Dia. 10.5 in.  
 Northing 2140546.91 Easting 5748218.35

Salinity

Time

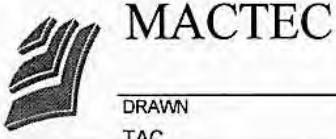
Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-33-180**

PLATE



Fort Ord, California

**A41**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
TAC	55596 001701	<i>MDT / cur</i>	11/04	

Completion Date 11/3/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 127.24 ft. Hole Dia. 12 in.  
 Northing 2141538.57 Easting 5745863.589

Top of PVC Casing  
 Elev. 126.52 ft.  
 CHRISTY  
 BOX

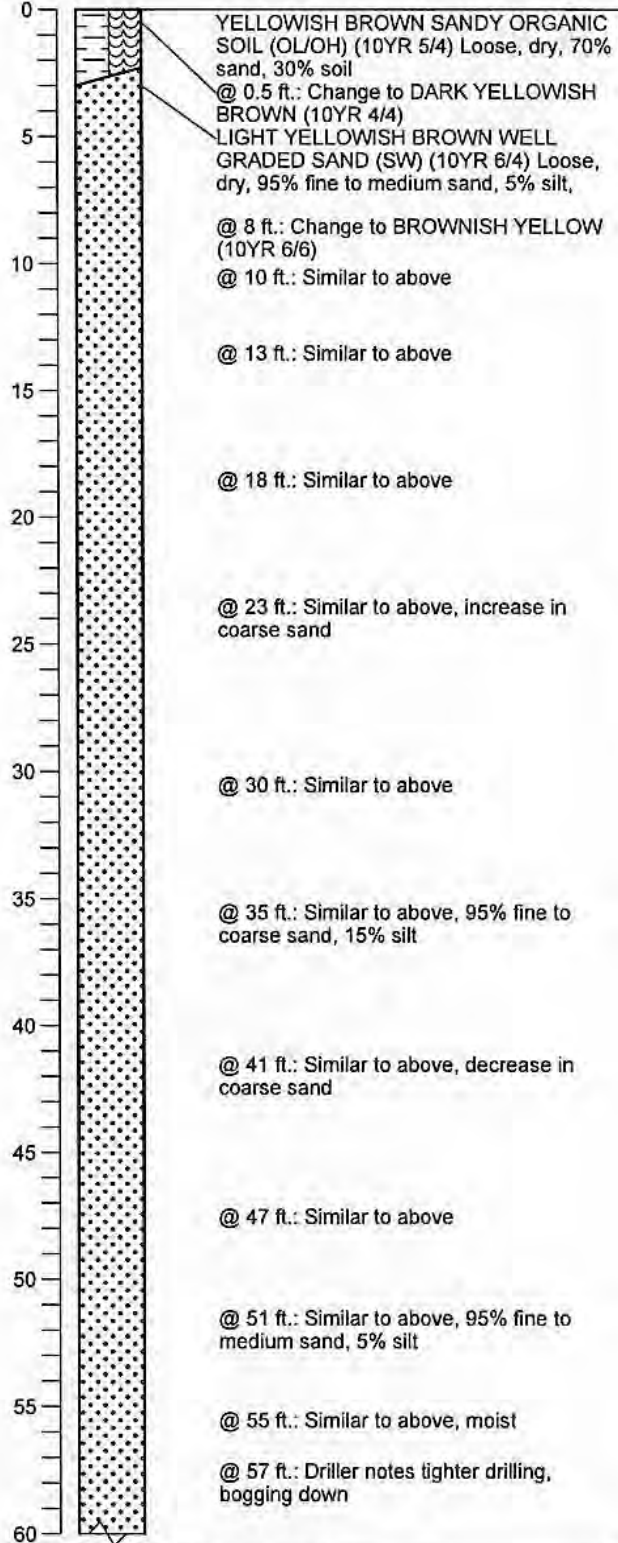
GROUND SURFACE

Top of casing at  
 0.5 ft. below  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 70  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 62 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-33-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A42**

DRAWN  
 PCB

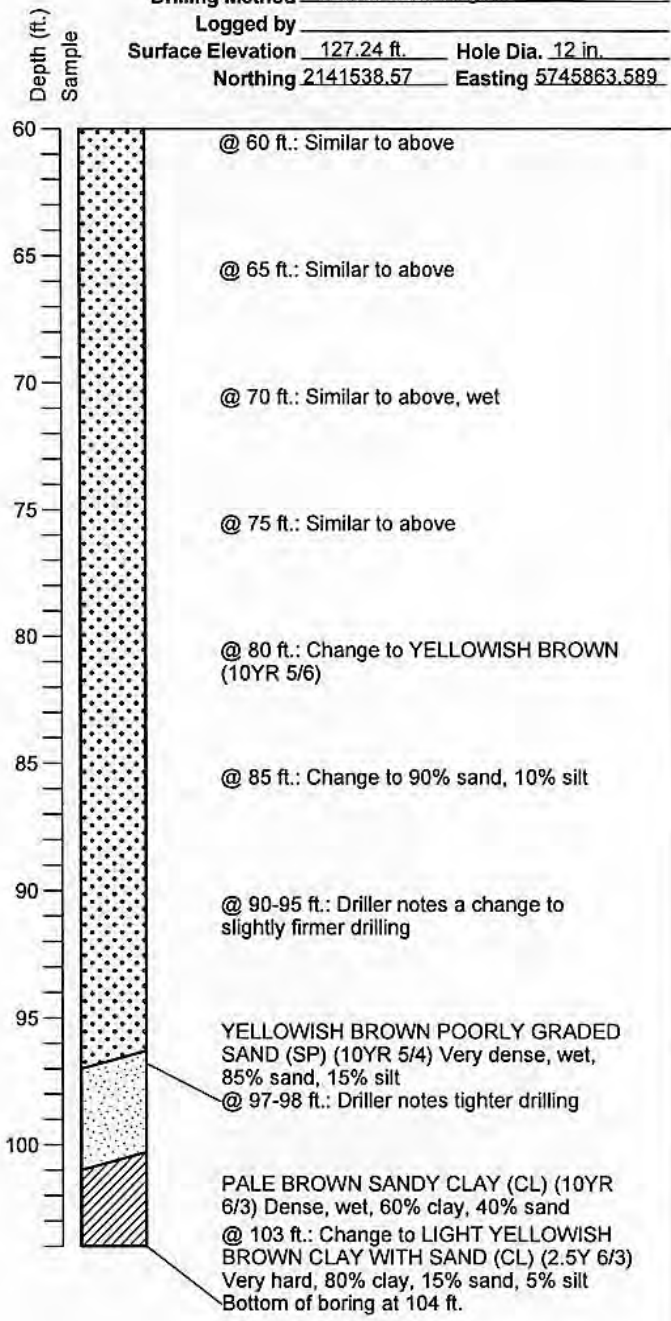
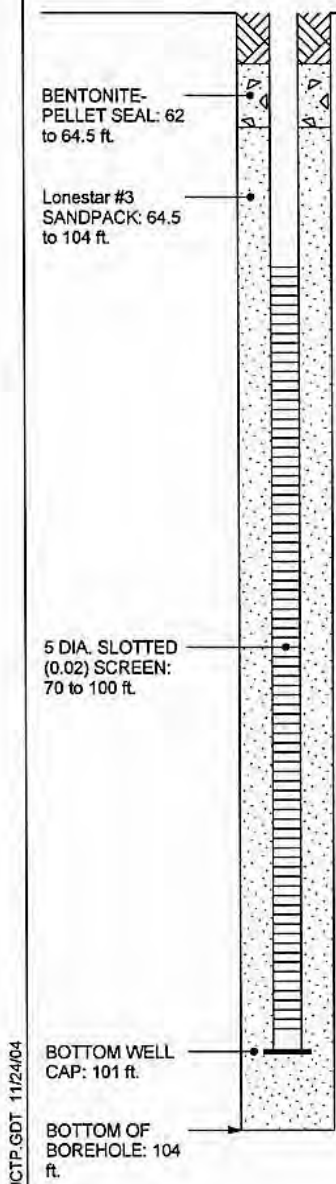
JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cur*

DATE  
 11/04

REVISED DATE

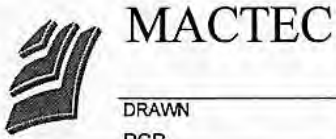
Completion Date 11/3/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 127.24 ft. Hole Dia. 12 in.  
 Northing 2141538.57 Easting 5745863.589



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-33-A**  
 OUCTP

PLATE



Fort Ord, California

**A42**

DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>NOT / am</i>	DATE 11/04	REVISED DATE
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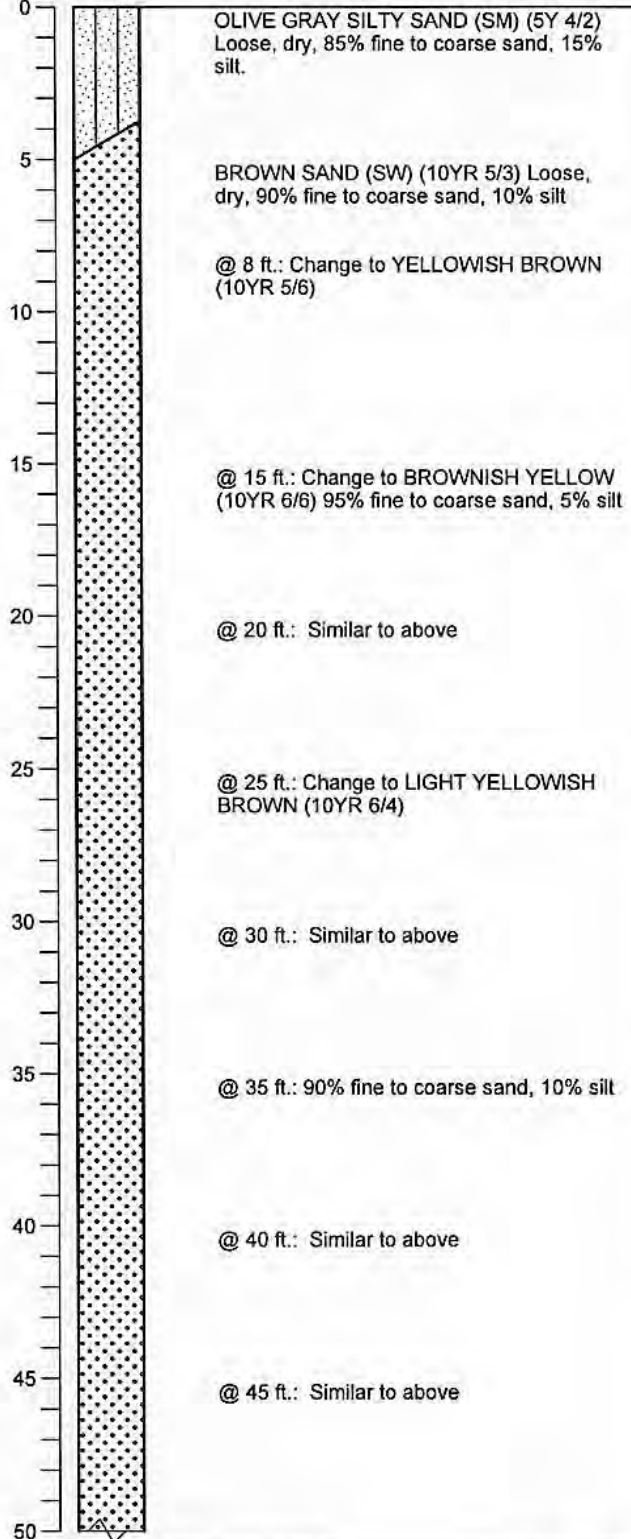
Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Top of PVC Casing  
 Elev. 127.61 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

GROUT SEAL: 0  
 to 117 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-34-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A43**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
 MDT / cm

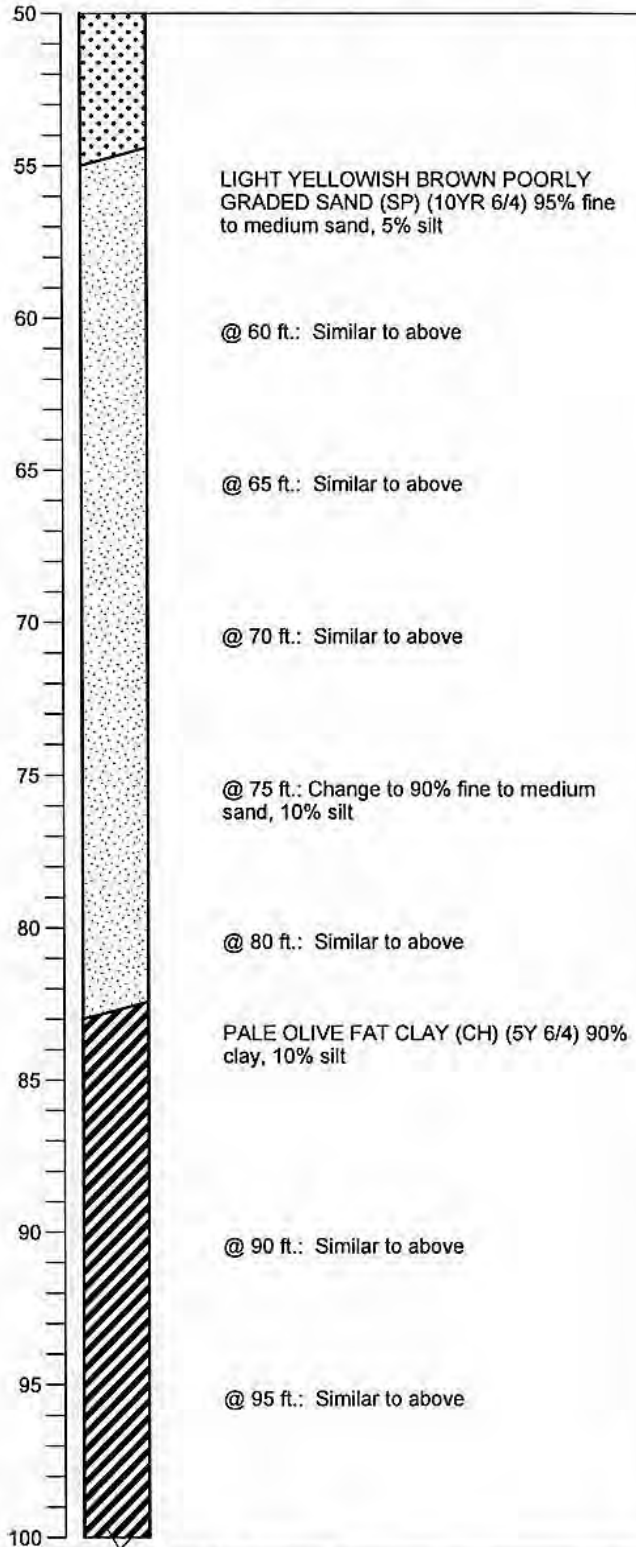
DATE  
 11/04

REVISED DATE

Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample

GROUT SEAL: 0  
to 117 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-34-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT / an*

DATE  
11/04

REVISED DATE

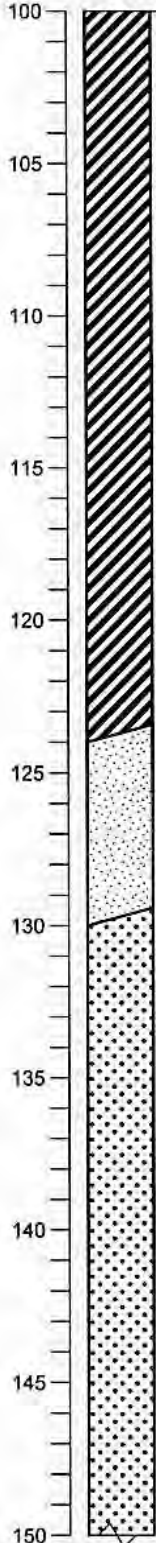


Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample

GROUT SEAL: 0  
to 117 ft.

BENTONITE/  
SAND SEAL: 117  
to 285 ft.



@ 100 ft.: Change to DARK GREENISH GRAY (5GY 4/1)

@ 103 ft.: Driller notes change to sand; none observed in cuttings

@ 110 ft.: Change to PALE OLIVE (5Y 6/3)

@ 115 ft.: Change to DARK GREENISH GRAY (5GY 4/1) Driller notes sand.

@ 120 ft.: Similar to above

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/3) 90% fine to medium sand, 10% silt

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (2.5Y 6/3) 95% fine to coarse sand, 5% silt

@ 135 ft.: Similar to above

@ 140 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-34-180**  
OUCTP

PLATE

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

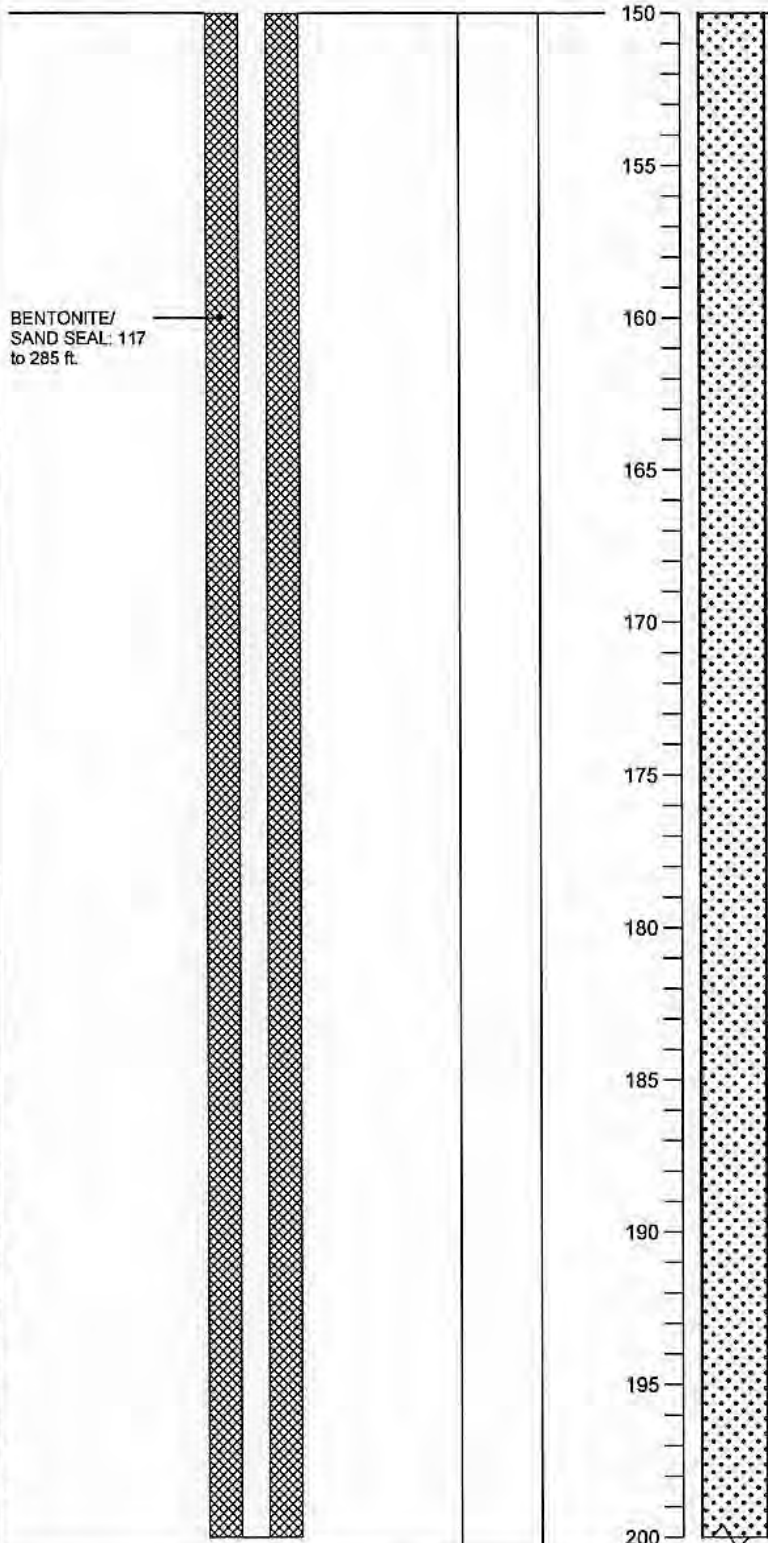
APPROVED  
*MDT / em*

DATE  
11/04

REVISED DATE

Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
 Sample



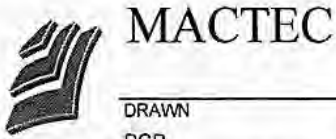
BENTONITE/  
 SAND SEAL: 117  
 to 285 ft.

@ 150 ft.: Similar to above  
 LIGHT YELLOWISH BROWN SAND (SW)  
 (2.5Y 6/3) 95% fine to coarse sand, 5% silt  
 @ 160 ft.: Similar to above  
 @ 170 ft.: Similar to above  
 @ 180 ft.: Similar to above  
 @ 190 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-34-180**

PLATE



DRAWN  
 PCB

JOB NUMBER  
 55596 001701

Fort Ord, California  
 APPROVED  
*MDT / cur*

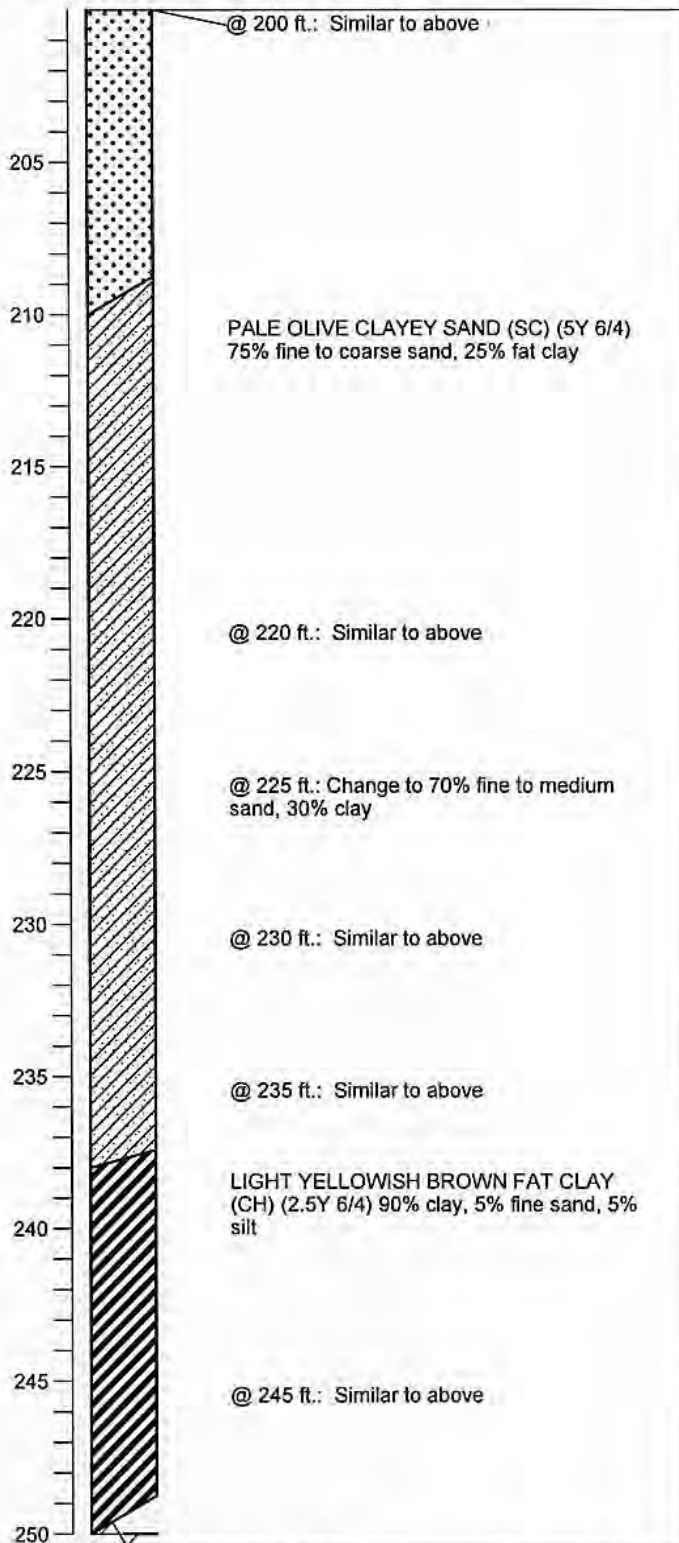
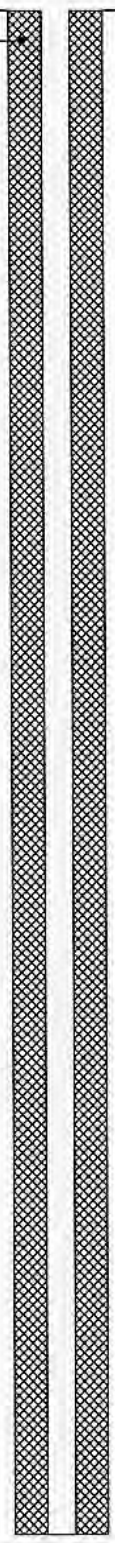
DATE  
 11/04

**A43**  
 REVISED DATE

Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample

BENTONITE/  
SAND SEAL: 117  
to 285 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
Log of Boring MW-BW-34-180  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

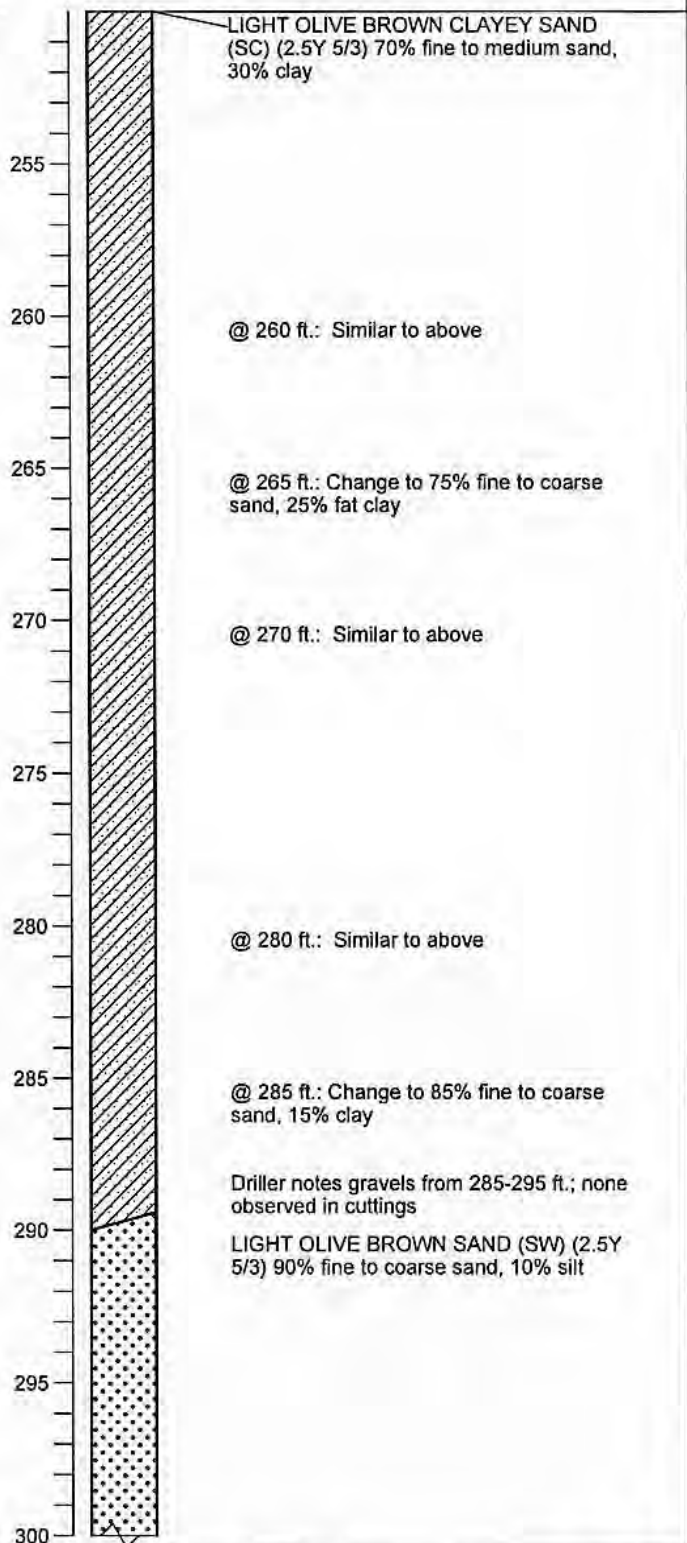
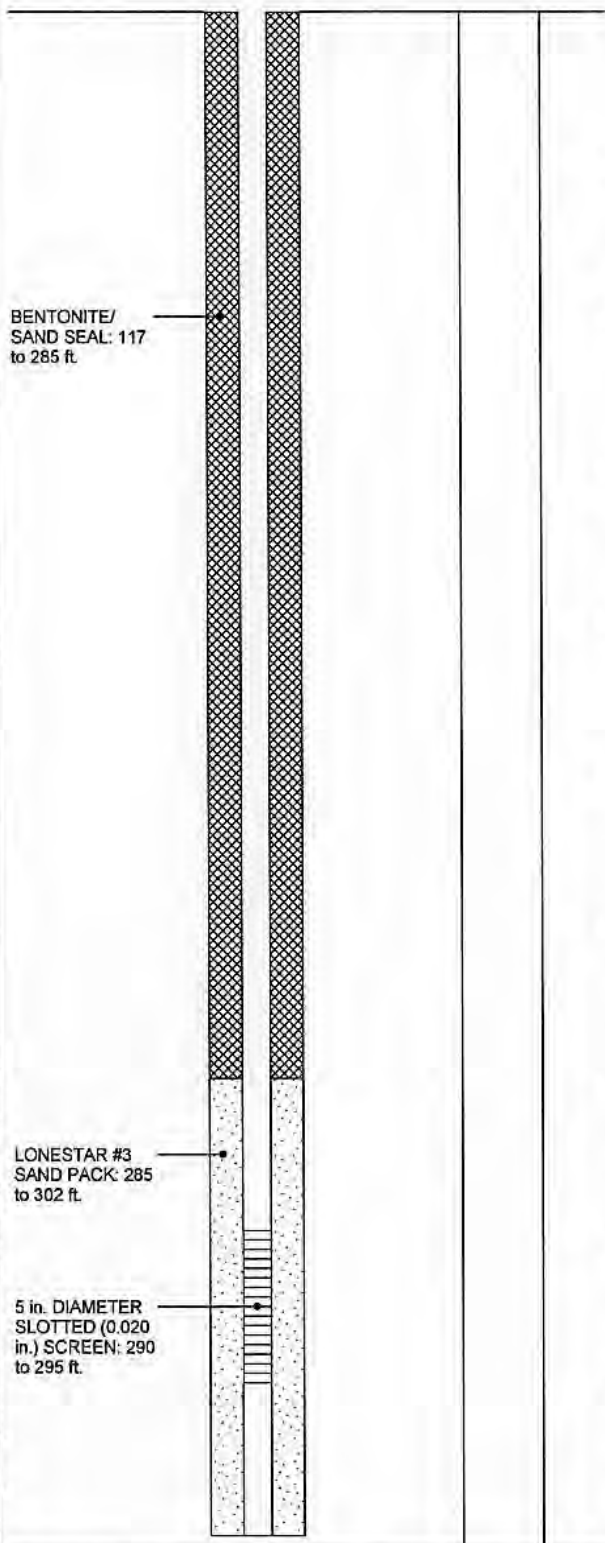
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*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-34-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE

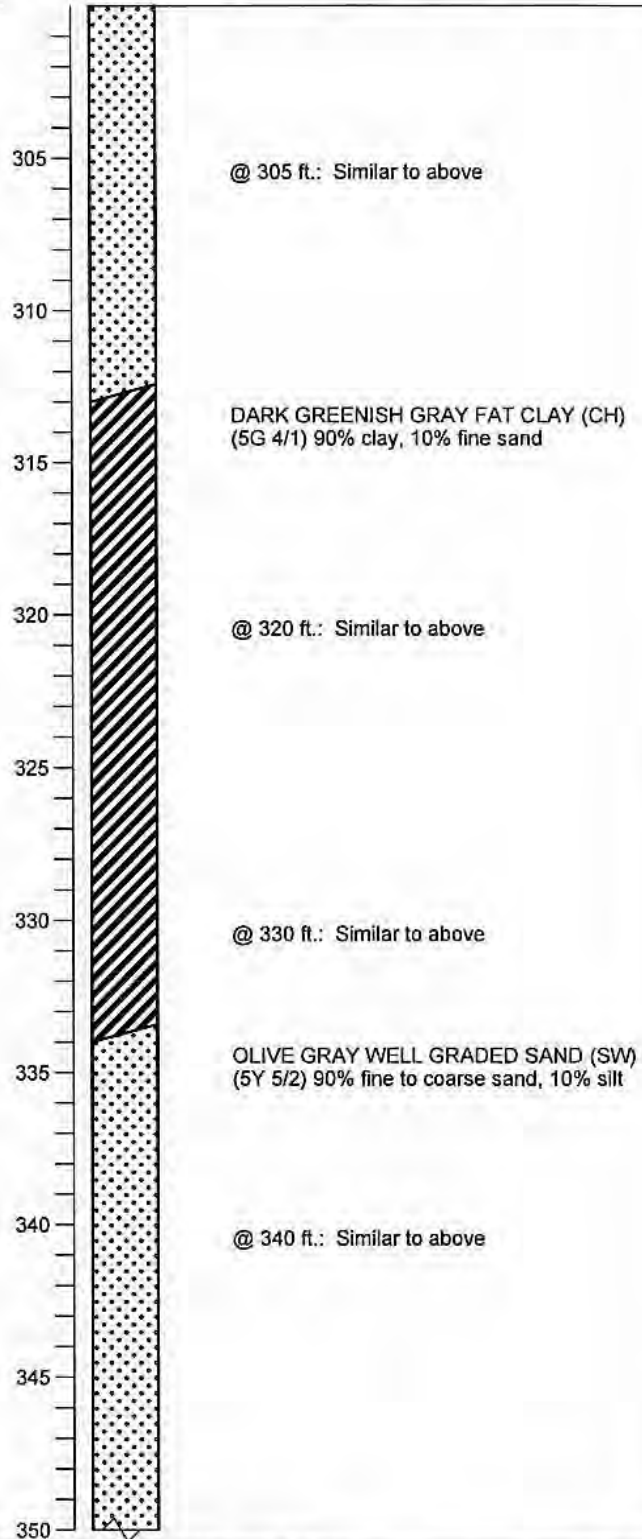
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 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample

LONESTAR #3  
SAND PACK: 285  
to 302 ft.

BENTONITE/  
SAND SEAL: 302  
to 347 ft.

LONESTAR #3  
SAND PACK: 347  
to 369 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



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Well Construction Details and  
Log of Boring MW-BW-34-180  
OUCTP

PLATE

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cur*

DATE  
11/04

REVISED DATE



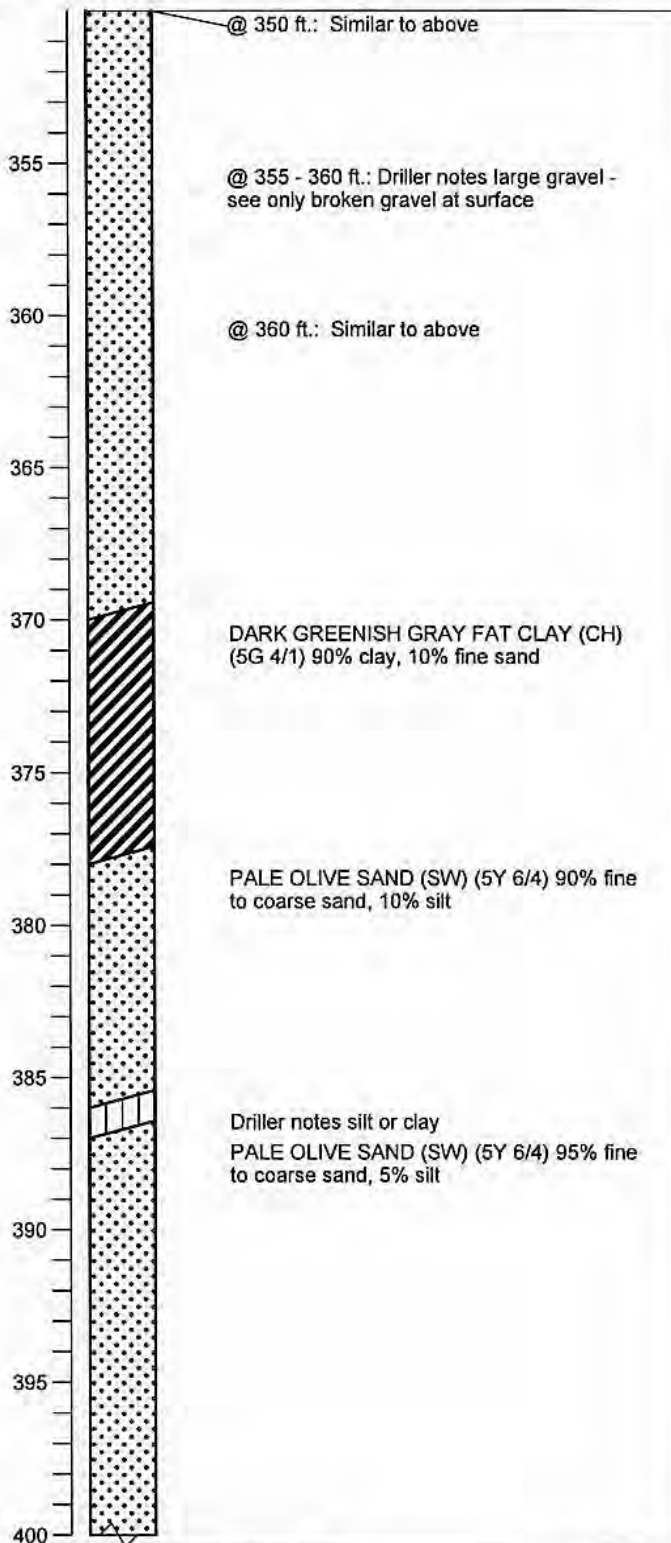
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 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample

LONESTAR #3  
SAND PACK: 347  
to 369 ft.

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 355  
to 360 ft.

BENTONITE/  
SAND SEAL: 369  
to 415 ft.



BORING\_WELL\_OUCTP V6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
Log of Boring MW-BW-34-180**  
OUCTP

PLATE

**A43**

Fort Ord, California

DRAWN PCB JOB NUMBER 55596 001701

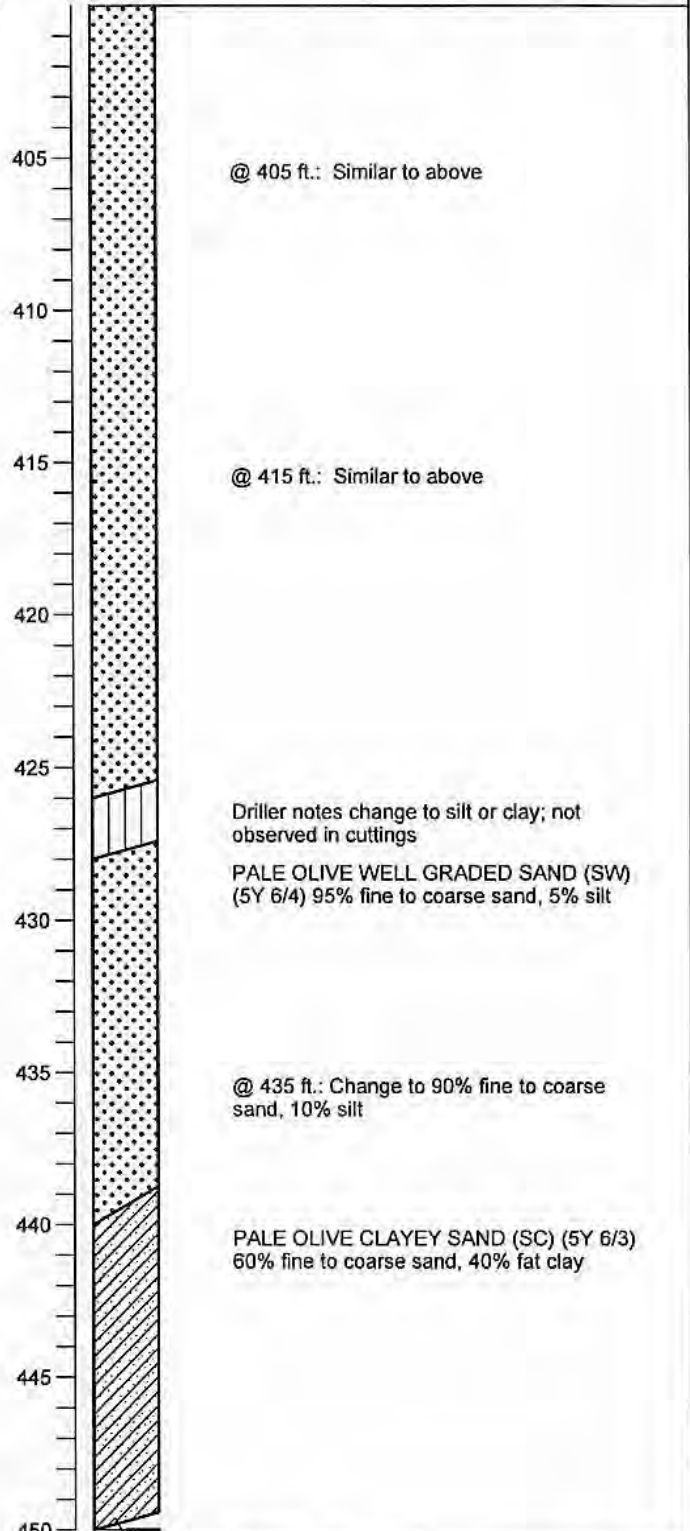
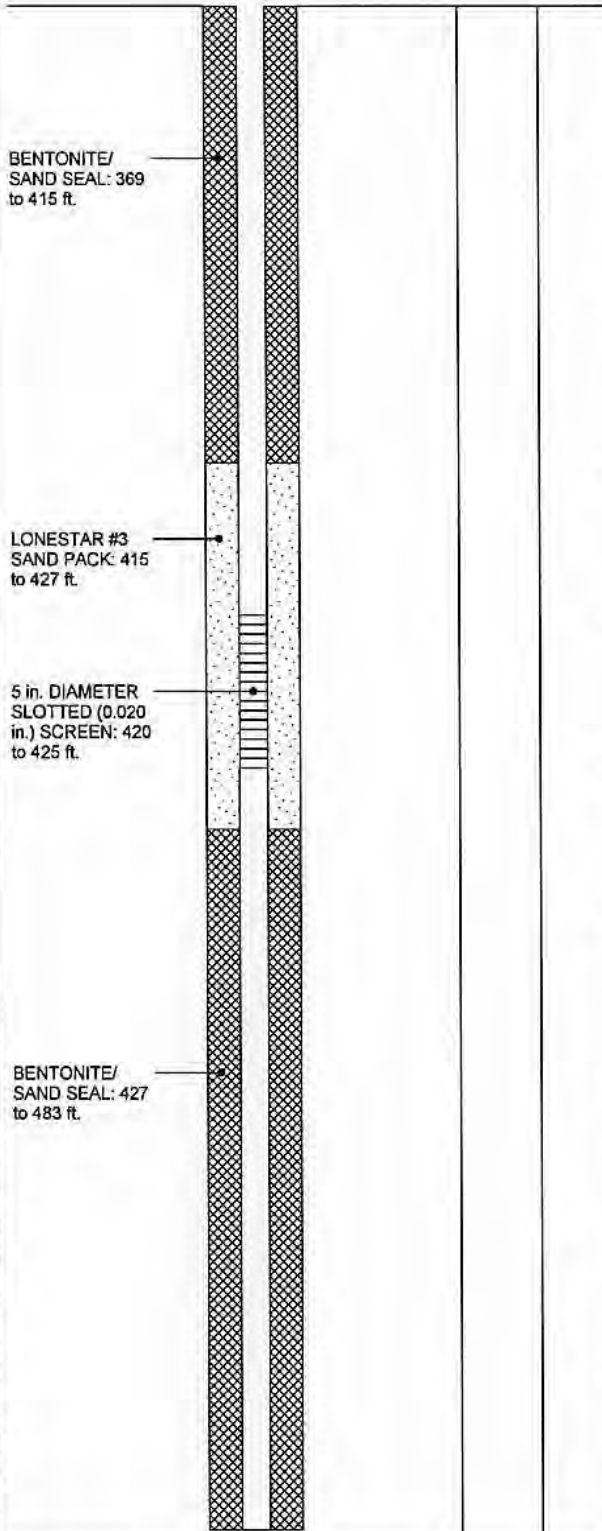
APPROVED MDT / can

DATE 11/04

REVISED DATE

Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-34-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A43**

DRAWN  
PCB

JOB NUMBER  
55596 001701

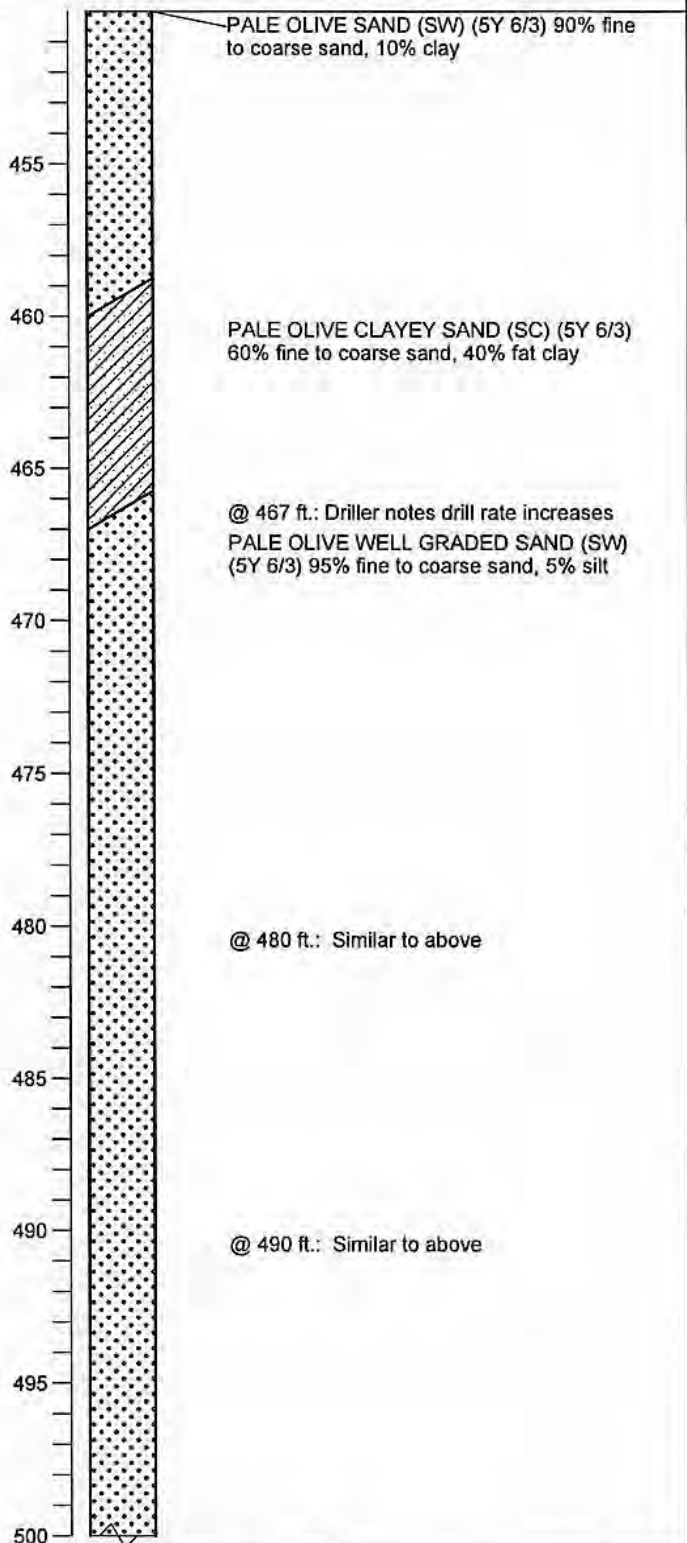
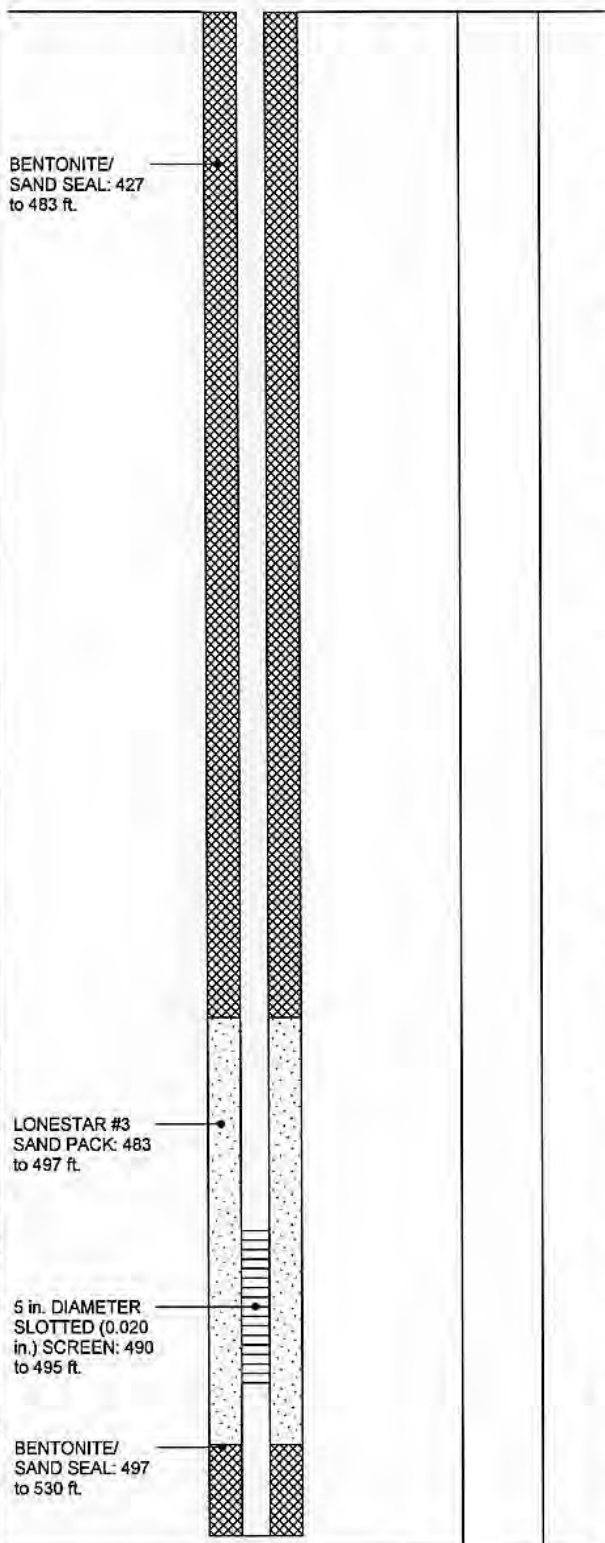
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*MDT/aw*

DATE  
11/04

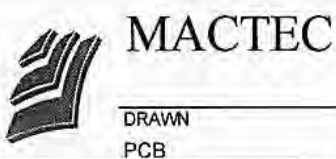
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Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and Log of Boring MW-BW-34-180**  
 OUCTP

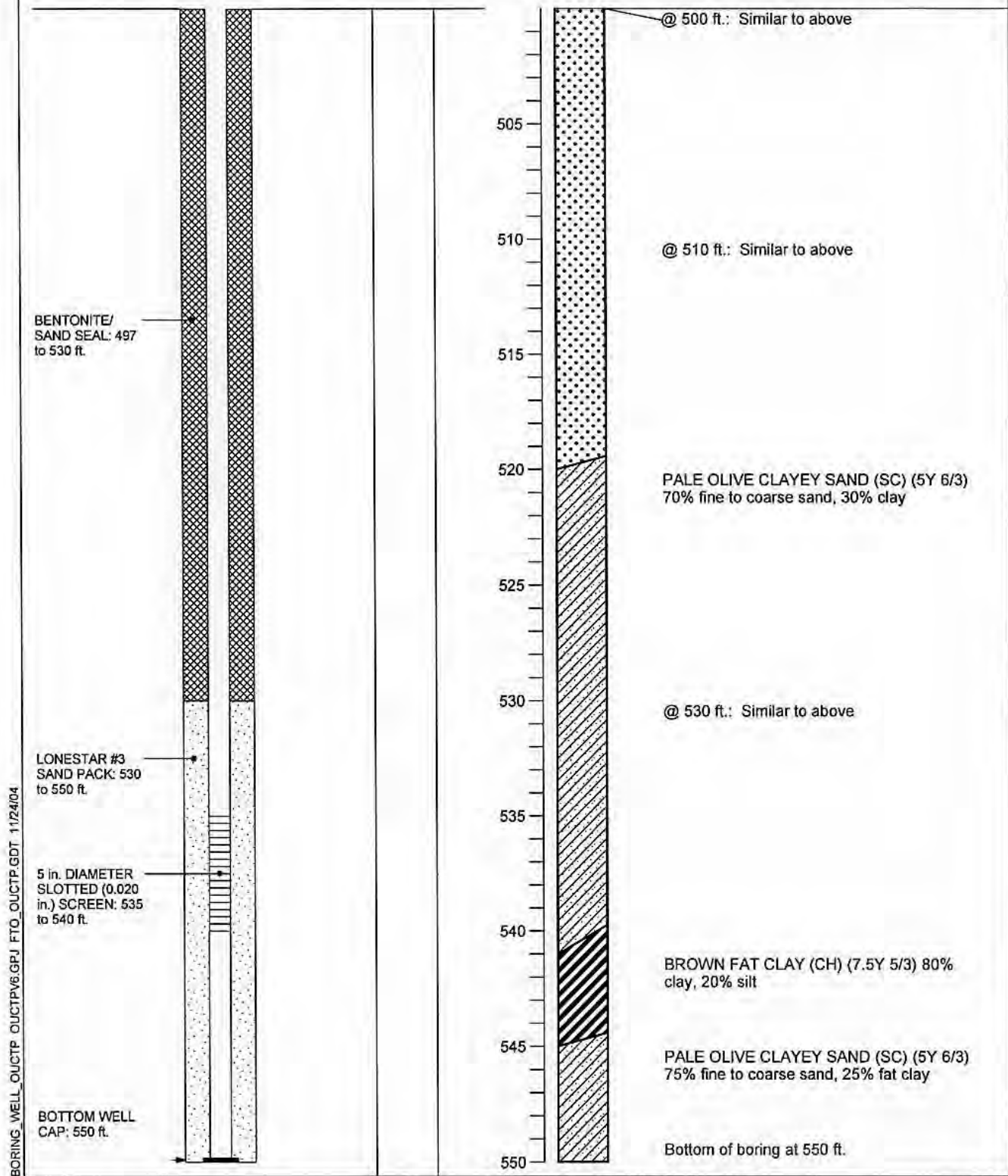
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**A43**

DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MDT/cm</i>	DATE 11/04	REVISED DATE
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Completion Date 10/2/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 127.50 ft. Hole Dia. 10.5 in.  
 Northing 2140709.06 Easting 5750371.95

Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE/  
 SAND SEAL: 497  
 to 530 ft.

LONESTAR #3  
 SAND PACK: 530  
 to 550 ft.

5 in. DIAMETER  
 SLOTTED (0.020  
 in.) SCREEN: 535  
 to 540 ft.

BOTTOM WELL  
 CAP: 550 ft.

@ 500 ft.: Similar to above

@ 510 ft.: Similar to above


PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)  
 70% fine to coarse sand, 30% clay

@ 530 ft.: Similar to above

BROWN FAT CLAY (CH) (7.5Y 5/3) 80%  
 clay, 20% silt

PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)  
 75% fine to coarse sand, 25% fat clay

Bottom of boring at 550 ft.

 **MACTEC**  
 DRAWN: PCB  
 JOB NUMBER: 55596 001701

**Well Construction Details and  
 Log of Boring MW-BW-34-180**  
 OUCTP  
 Fort Ord, California

PLATE

**A43**  
 APPROVED: *MDT/cwr*  
 DATE: 11/04  
 REVISED DATE:

Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 129.19 ft. Hole Dia. 12 in.  
 Northing 2142013.663 Easting 5746372.131

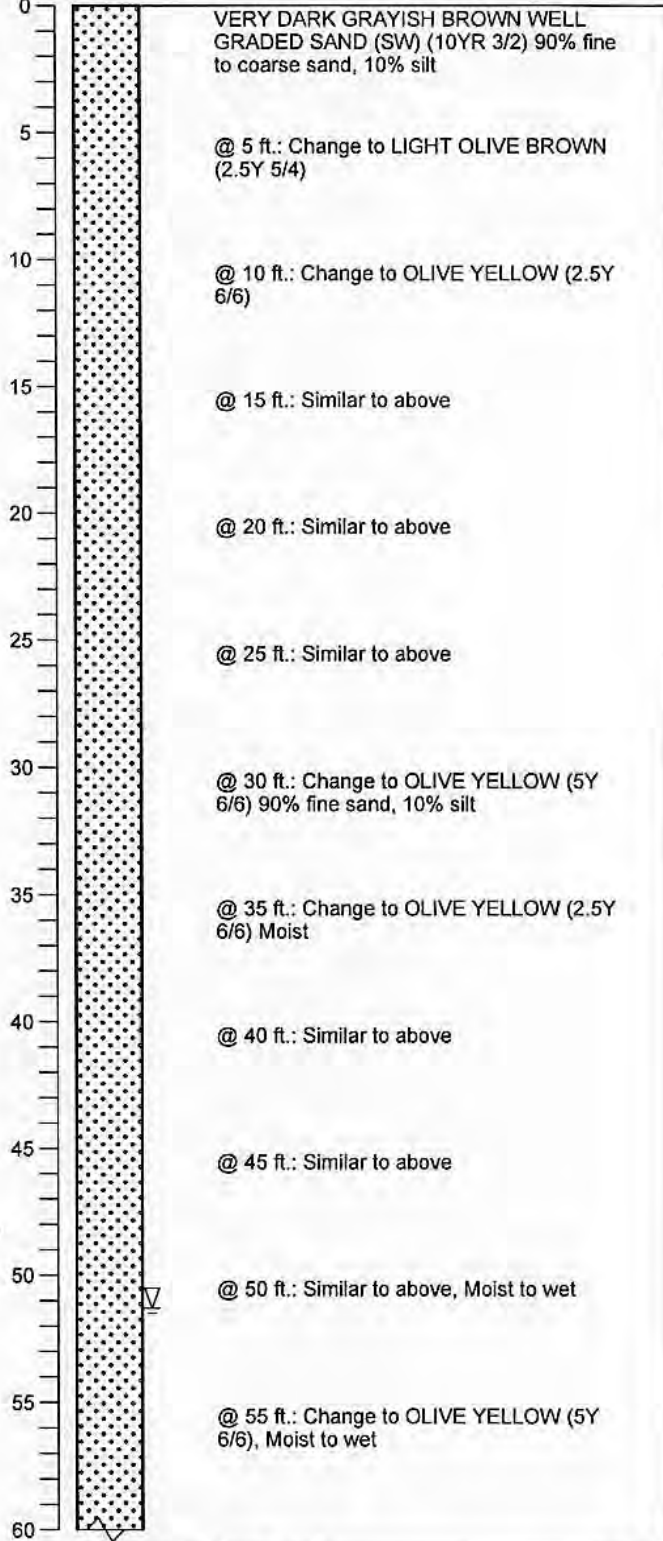
Top of PVC Casing  
 Elev. 128.60 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 67  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 59 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP V6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-34-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A44**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
 MST / CM

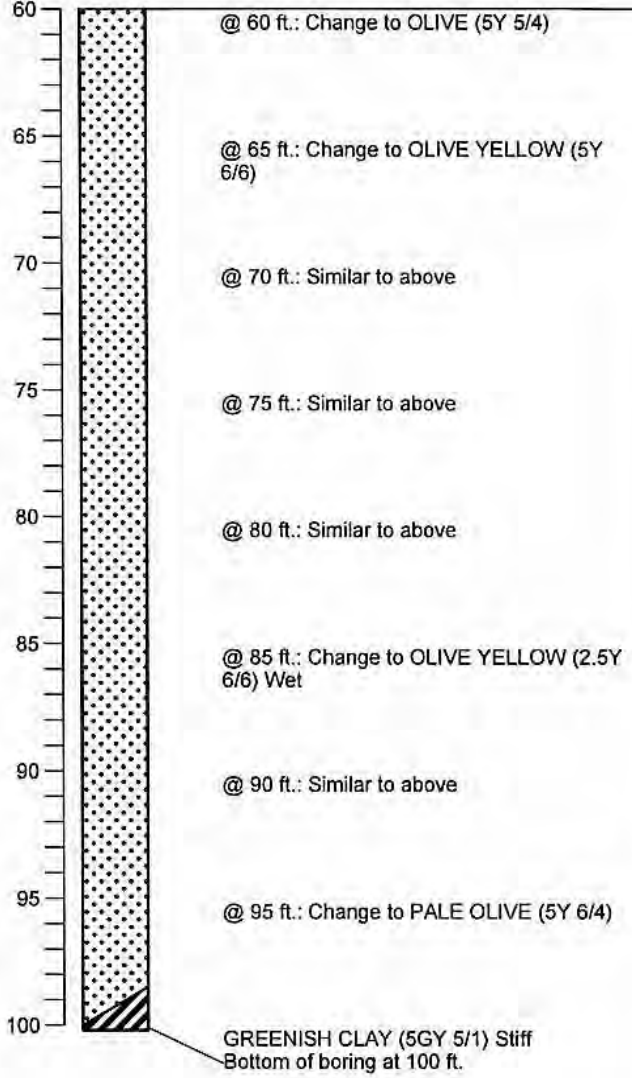
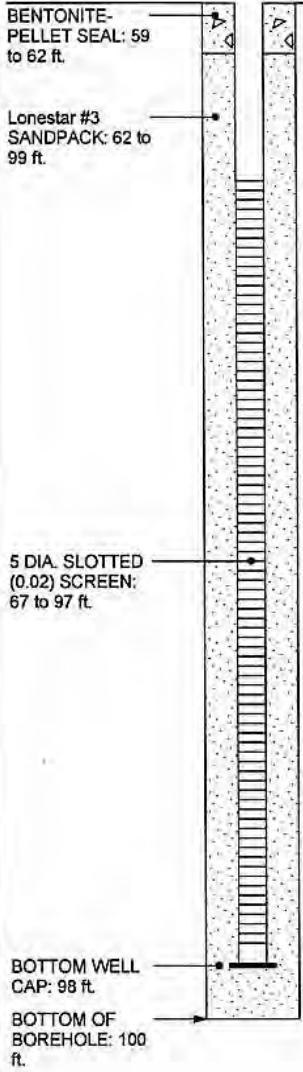
DATE  
 11/04

REVISED DATE



Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 129.19 ft. Hole Dia. 12 in.  
 Northing 2142013.663 Easting 5746372.131

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-34-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A44**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT/can</i>	11/04	

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57

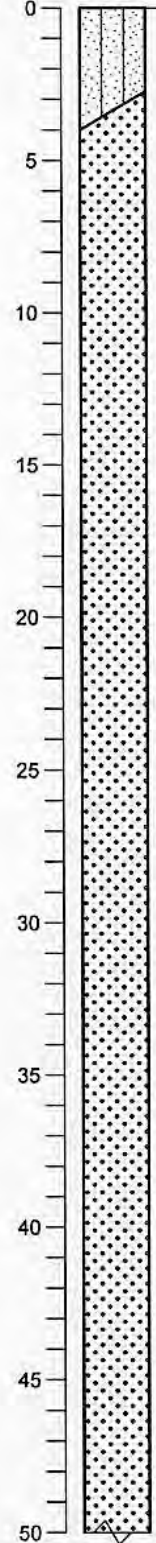
Top of PVC Casing  
 Elev. 138.56 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

BENTONITE-  
 CEMENT SEAL: 0  
 to 140 ft.

Time

Depth (ft.)  
 Sample



BROWN SILTY SAND (SM) (10YR 5/3)  
 Loose, dry, 80% fine to coarse sand, 20% silt

YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10 YR 5/4) 90% fine to coarse  
 sand, 10% silt

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-35-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A45**

DRAWN  
 CN

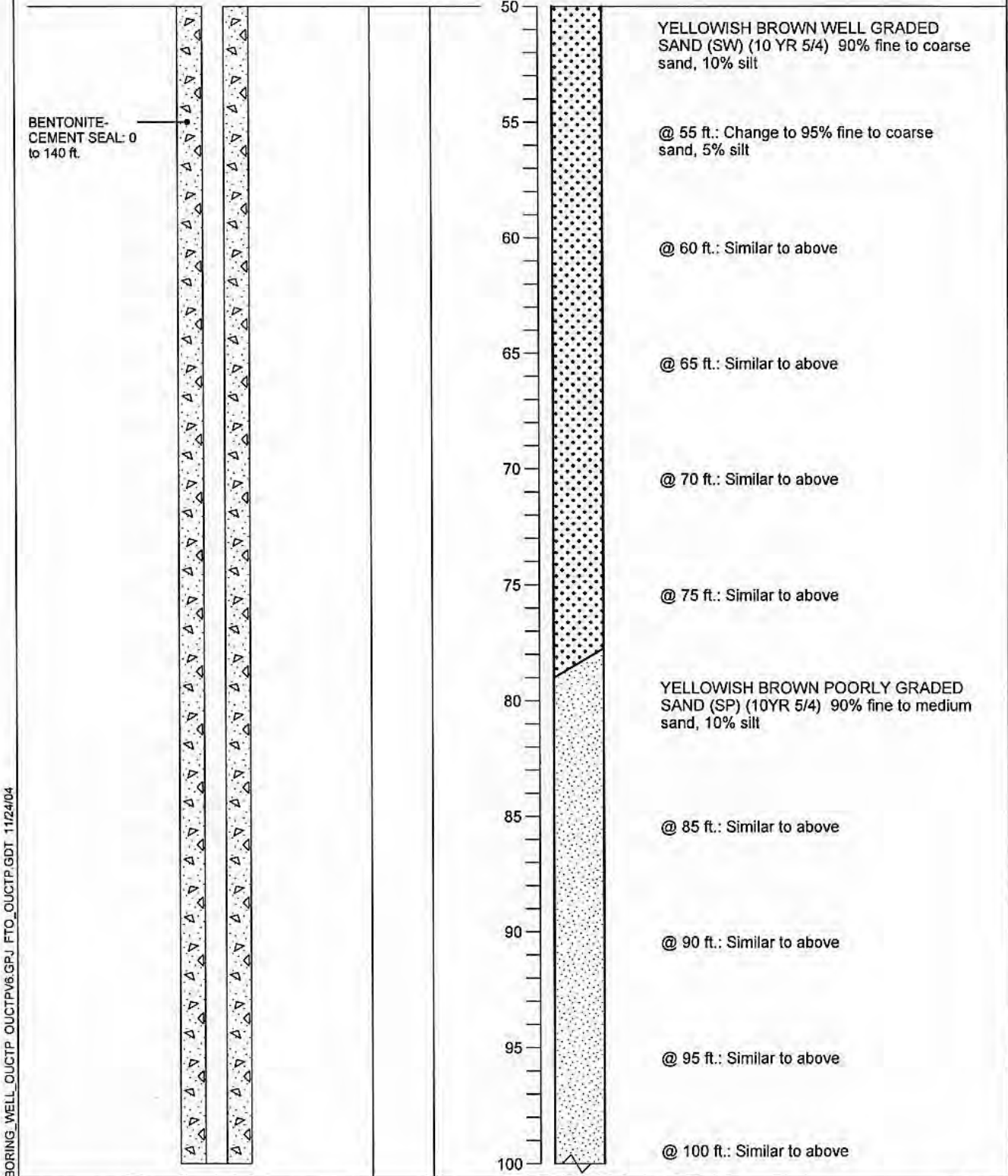
JOB NUMBER  
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APPROVED  
*MST/cun*

DATE  
 11/04

REVISED DATE

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-35-180** PLATE  
 OUCTP



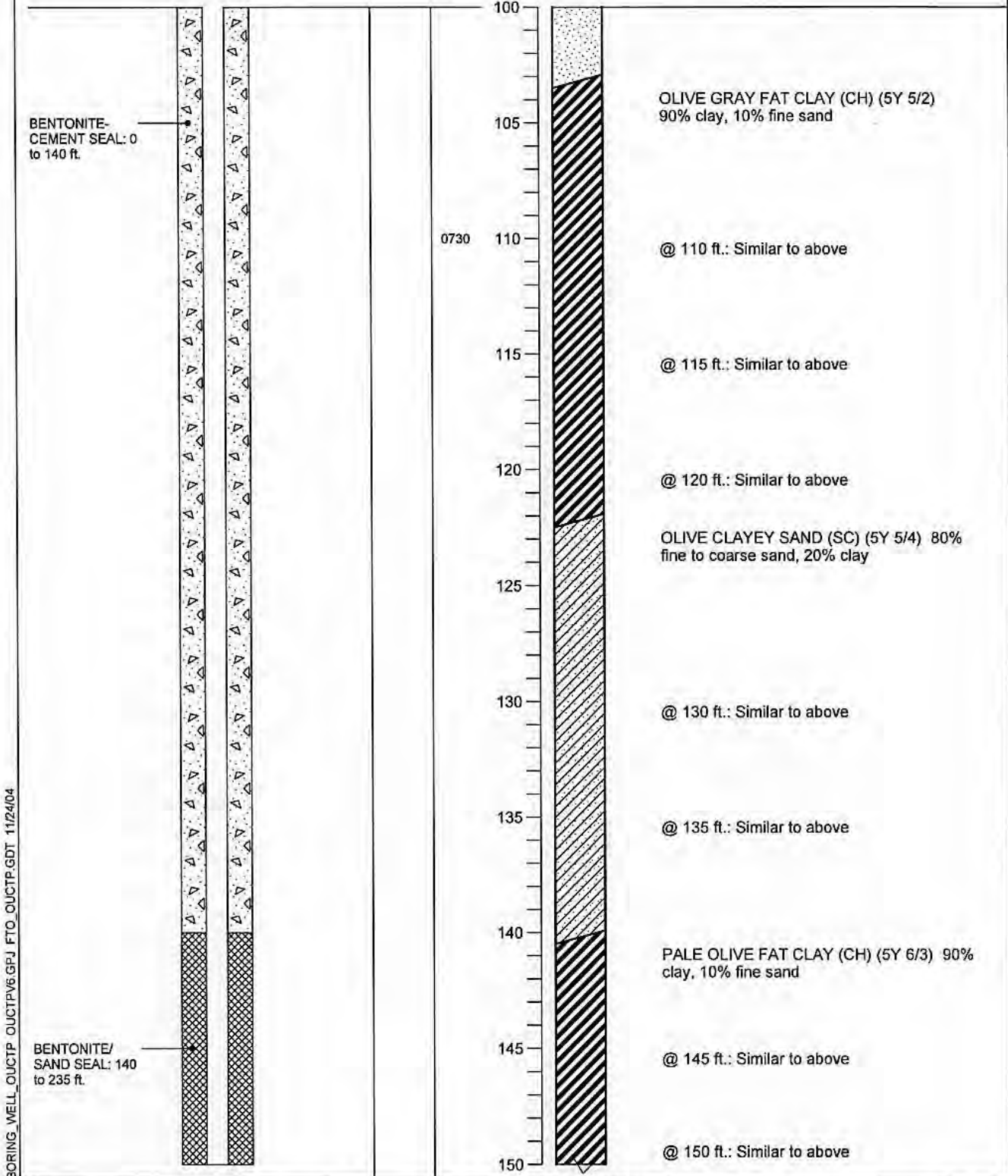
**MACTEC**

Fort Ord, California

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04	REVISED DATE
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**A45**

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE-  
CEMENT SEAL: 0  
to 140 ft.

BENTONITE/  
SAND SEAL: 140  
to 235 ft.

**Well Construction Details and  
Log of Boring MW-BW-35-180**  
OUCTP

PLATE



**MACTEC**

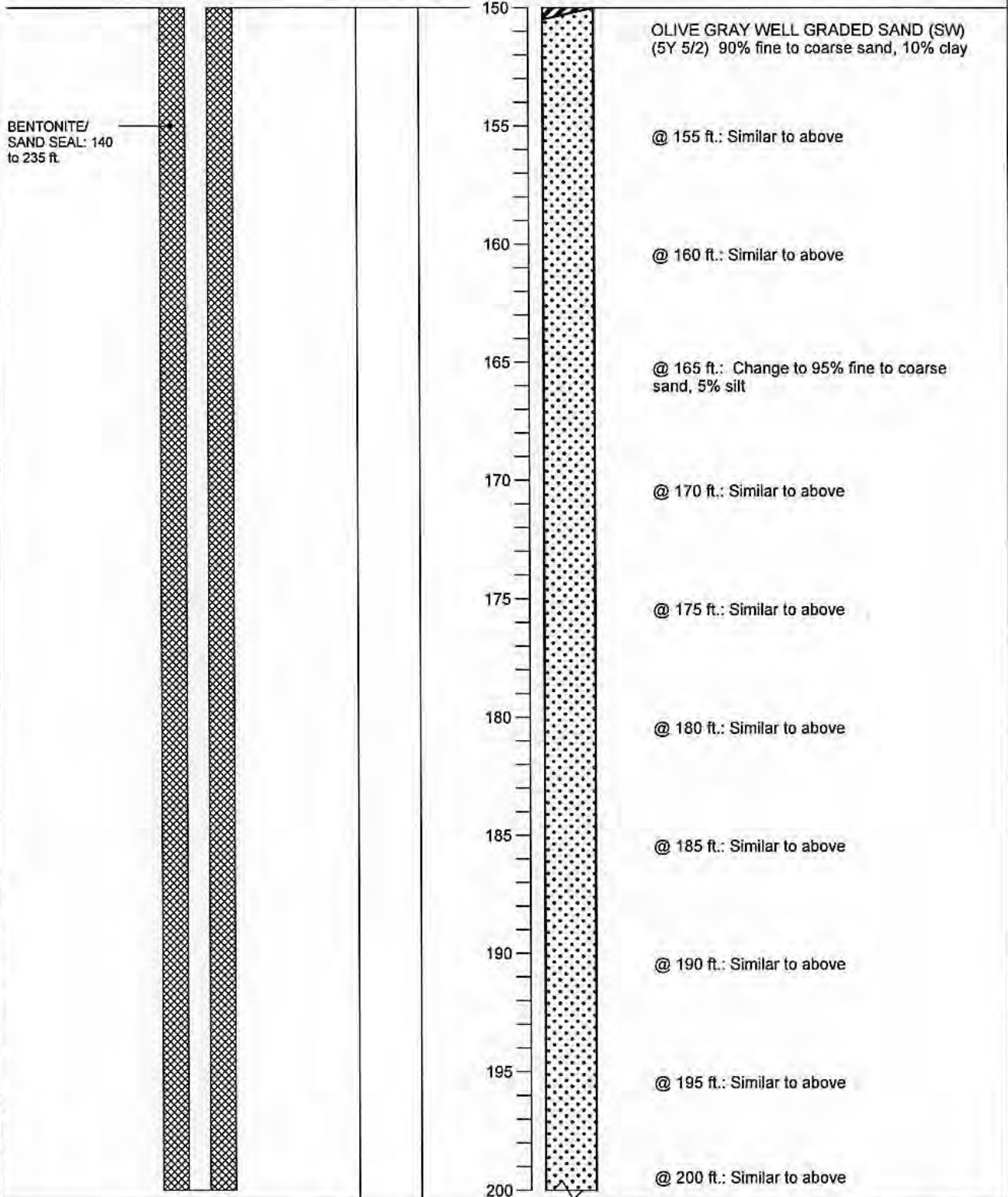
Fort Ord, California

**A45**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT/cw</i>	11/04	

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
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 Northing 2141535.96 Easting 5751176.57

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



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**Well Construction Details and Log of Boring MW-BW-35-180**  
OUCTP

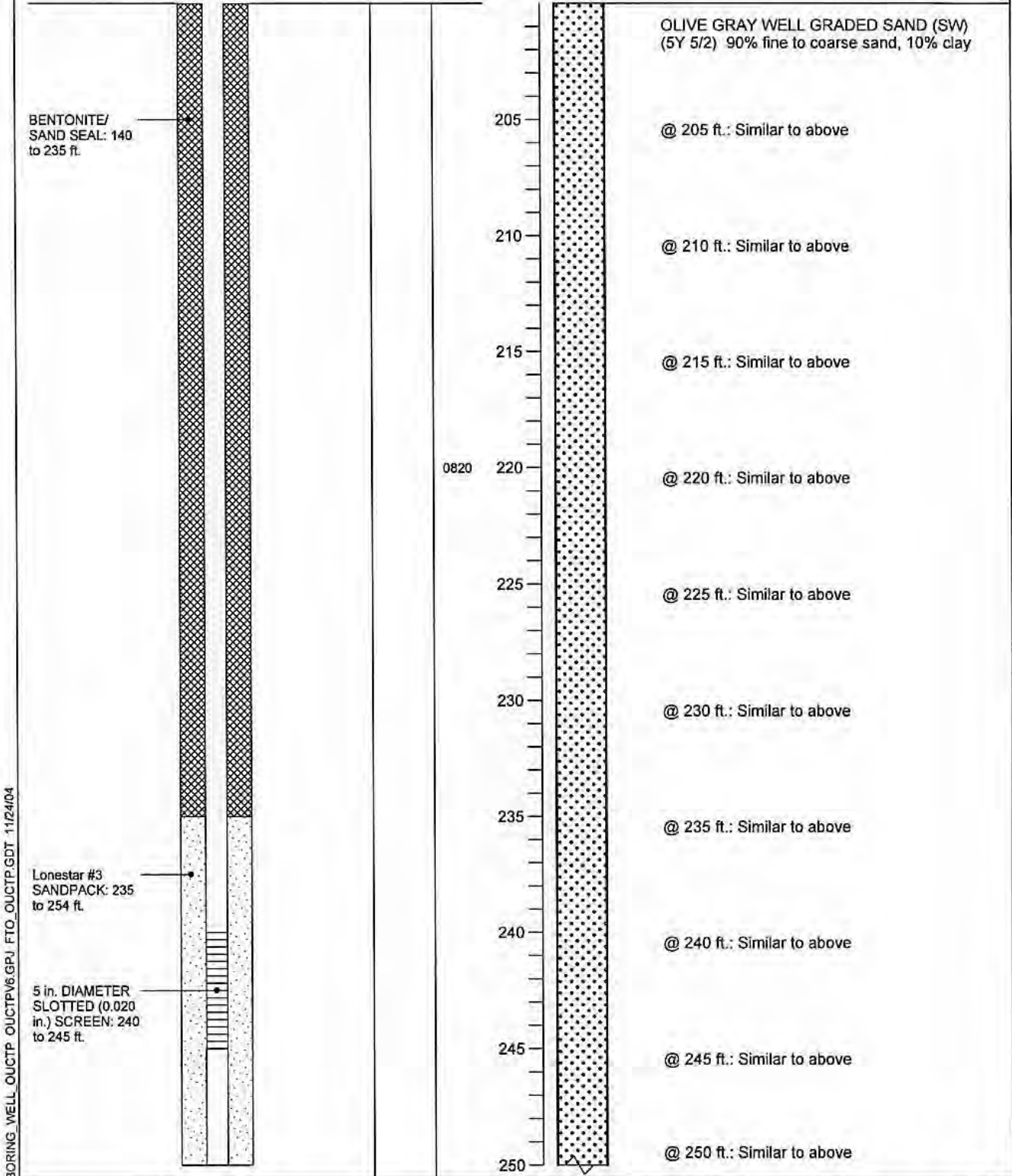
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**A45**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MOT/can</i>	DATE 11/04	REVISED DATE
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Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 11/24/04

BENTONITE/  
SAND SEAL: 140  
to 235 ft.

Lonestar #3  
SANDPACK: 235  
to 254 ft.

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 240  
to 245 ft.

OLIVE GRAY WELL GRADED SAND (SW)  
(5Y 5/2) 90% fine to coarse sand, 10% clay

@ 205 ft.: Similar to above

@ 210 ft.: Similar to above

@ 215 ft.: Similar to above

0820 @ 220 ft.: Similar to above

@ 225 ft.: Similar to above

@ 230 ft.: Similar to above

@ 235 ft.: Similar to above

@ 240 ft.: Similar to above

@ 245 ft.: Similar to above

@ 250 ft.: Similar to above

**Well Construction Details and  
Log of Boring MW-BW-35-180**  
OUCTP

PLATE

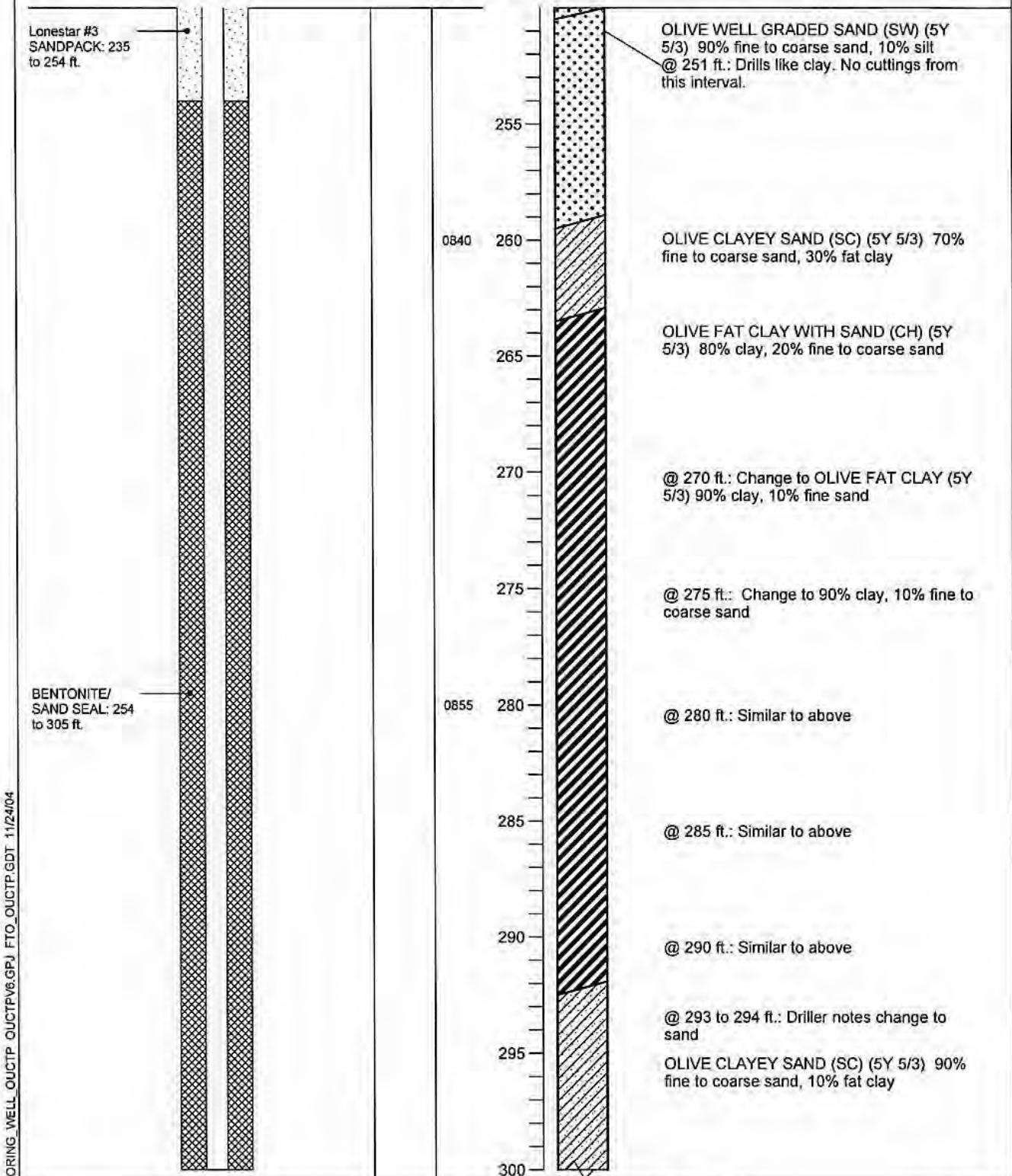


Fort Ord, California

**A45**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	MST / <i>car</i>	11/04	

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-35-180**  
 OUCTP

PLATE

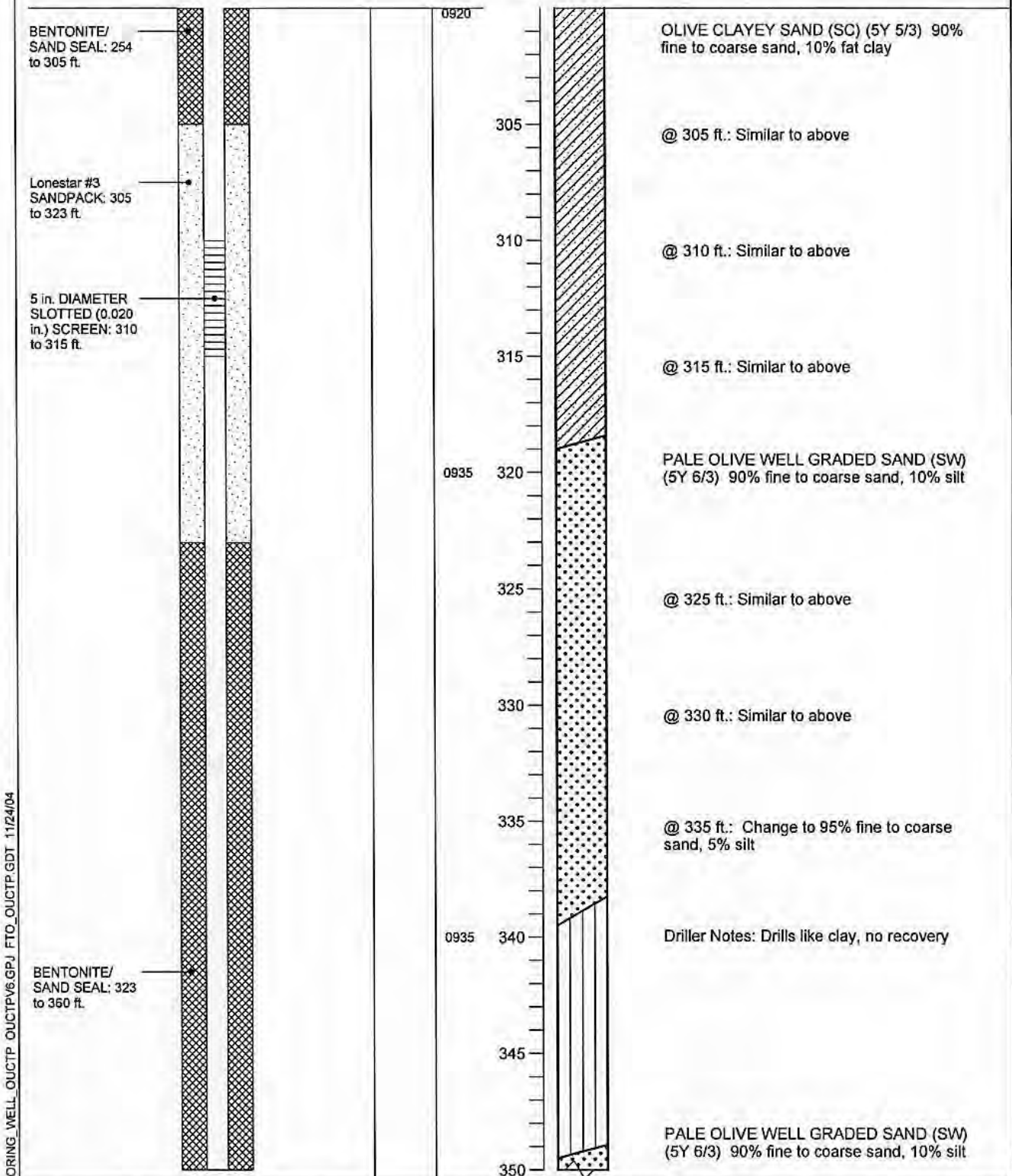


Fort Ord, California

**A45**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MAT / cm</i>	11/04	

Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-35-180**  
OUCTP

PLATE



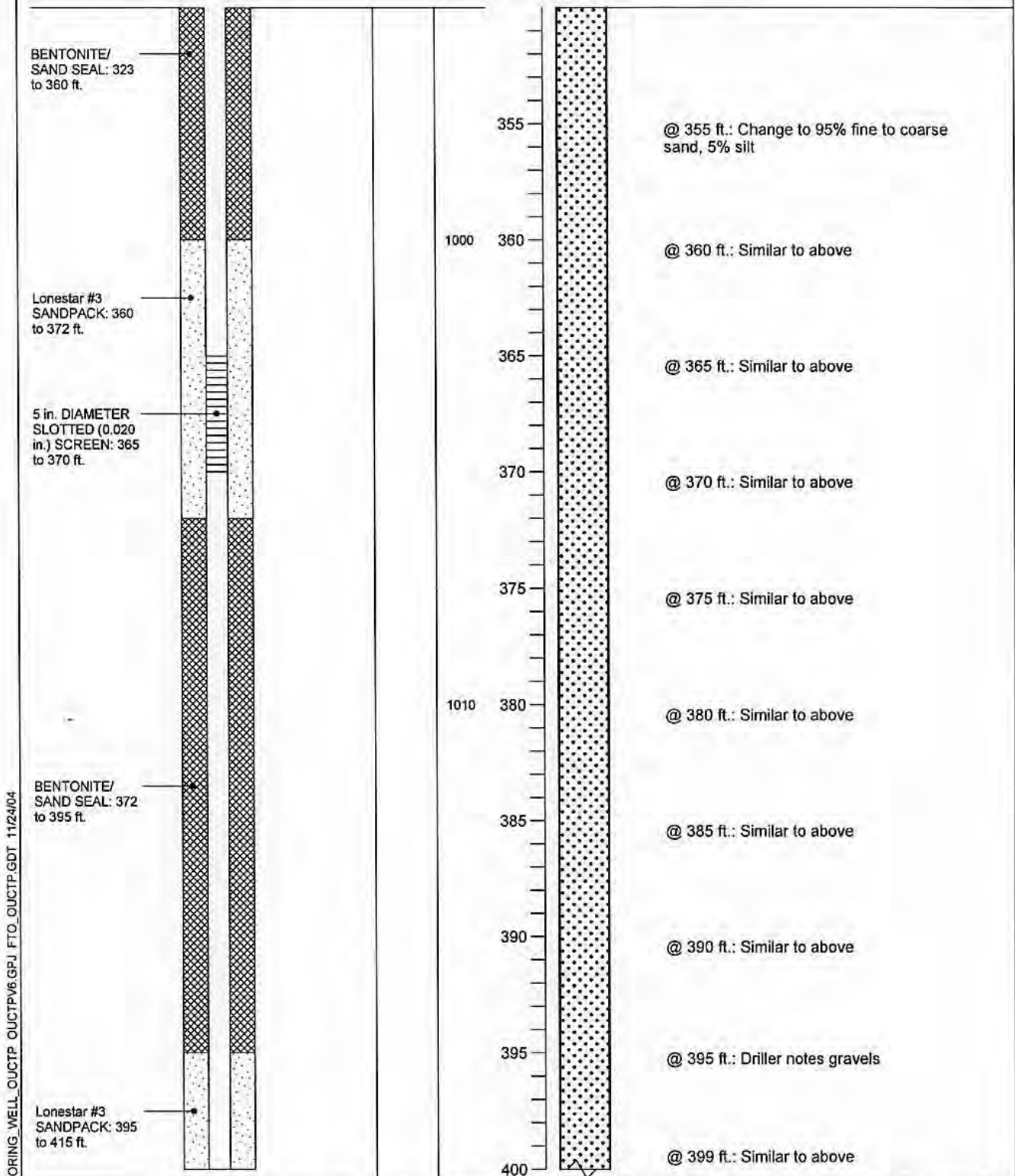
**MACTEC**

Fort Ord, California

**A45**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04	REVISED DATE
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Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-35-180**  
OUCTP

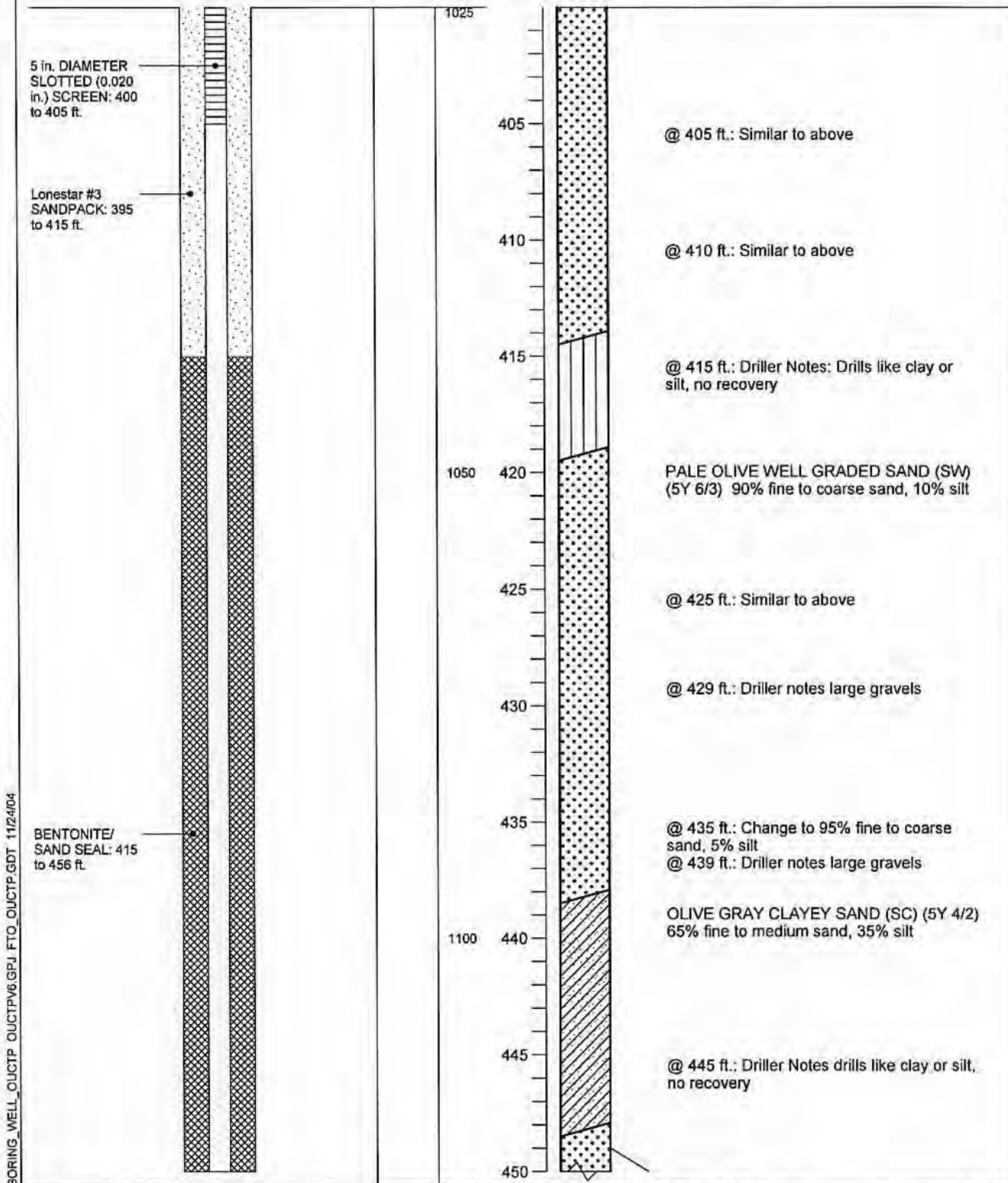
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**A45**

Fort Ord, California

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 11/04	REVISED DATE
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Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-35-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A45**

DRAWN  
CN

JOB NUMBER  
55596 001701

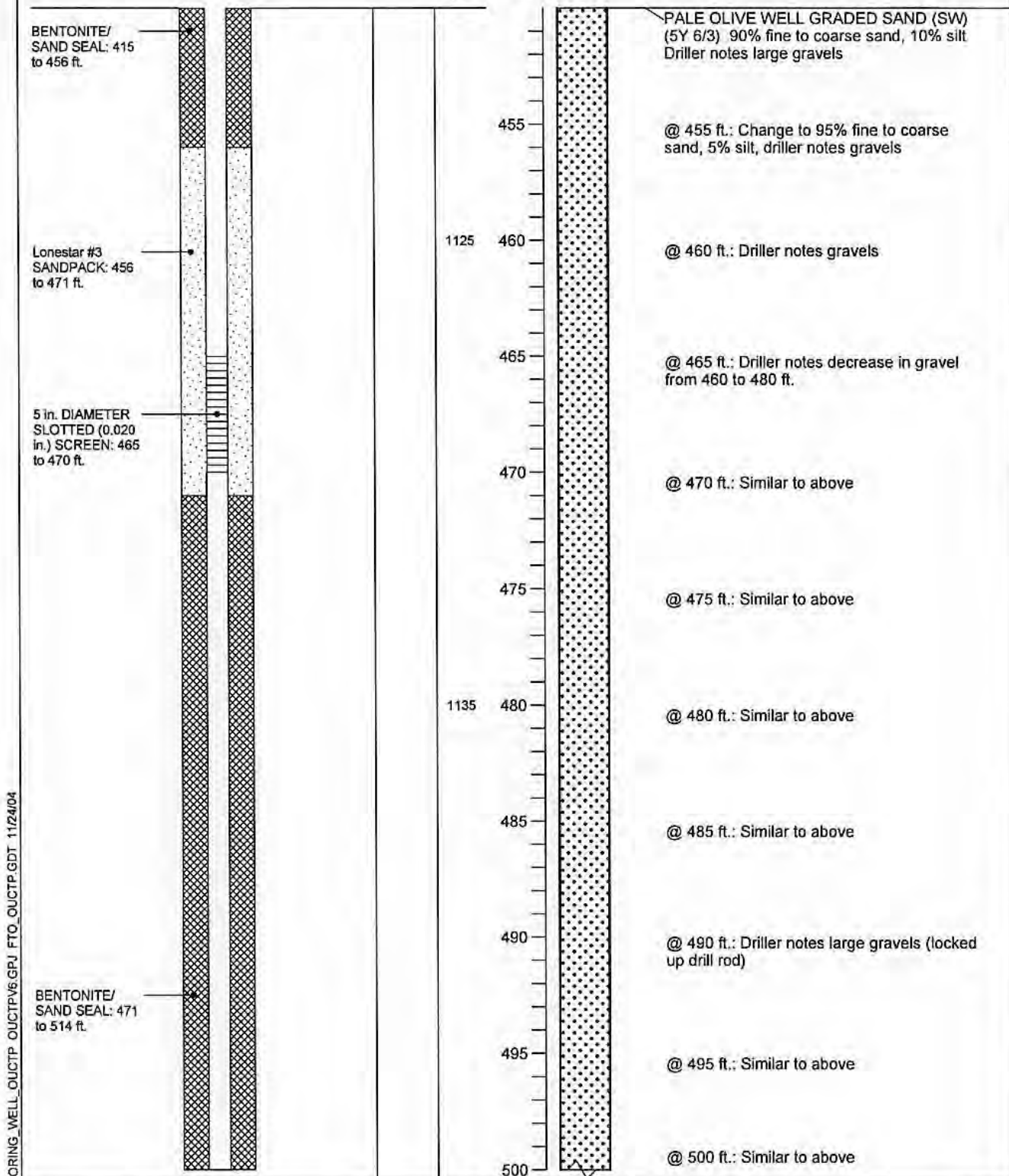
APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE



Completion Date 10/8/2001  
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 Northing 2141535.96 Easting 5751176.57



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**MACTEC**

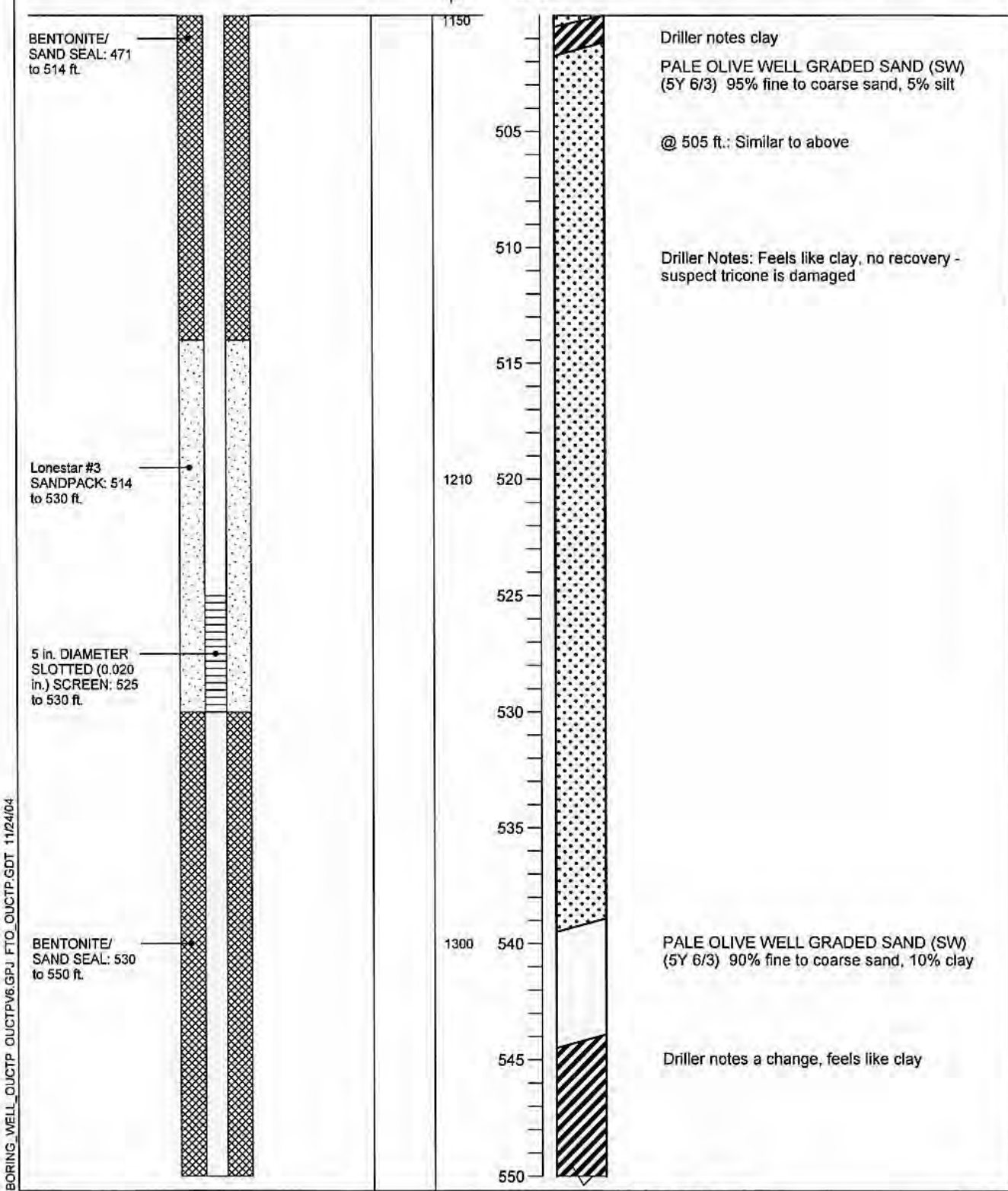
**Well Construction Details and Log of Boring MW-BW-35-180**  
OUCTP

PLATE

**A45**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04	REVISED DATE
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BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



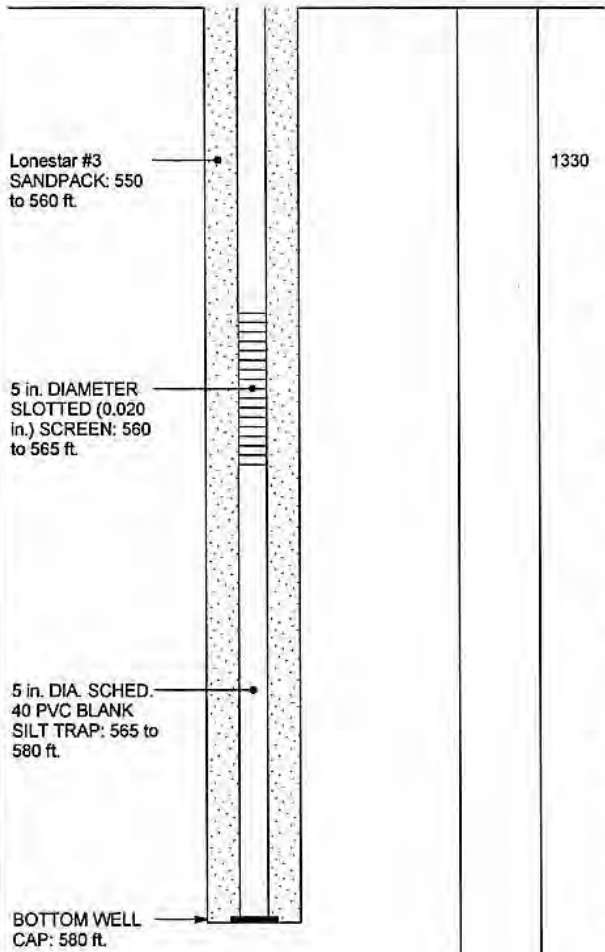
**Well Construction Details and  
Log of Boring MW-BW-35-180**  
 OUCTP  
 Fort Ord, California

PLATE

**A45**

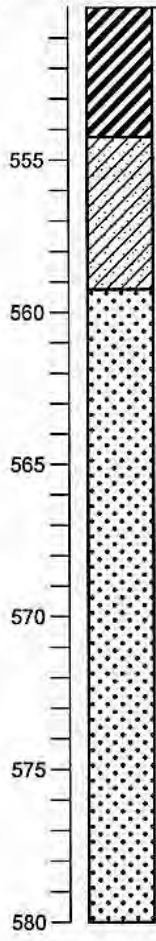
DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT / car</i>	DATE 11/04	REVISED DATE
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Completion Date 10/8/2001  
 Drilling Method ARCH/mud rotary  
 Logged by D. Browne  
 Surface Elevation 138.50 ft. Hole Dia. 10.5 in.  
 Northing 2141535.96 Easting 5751176.57



Time

Depth (ft.)  
Sample



PALE OLIVE CLAYEY SAND (SC) (5Y 6/3)  
80% fine to coarse sand, 20% fat clay

PALE OLIVE WELL GRADED SAND (SW)  
(5Y 6/3) 90% fine to coarse sand, 10% silt

@ 565 ft.: Similar to above

@ 570 ft.: Similar to above

@ 575 ft.: Similar to above

Bottom of boring at 580 ft.

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-35-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A45**

DRAWN  
CN

JOB NUMBER  
55596 001701

APPROVED  
*MST/cnr*

DATE  
11/04

REVISED DATE

Completion Date 11/16/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 111.76 ft. Hole Dia. 12 in.  
 Northing 2142432.427 Easting 5746201.783

Top of PVC Casing  
 Elev. 112.29 ft.

GROUND SURFACE

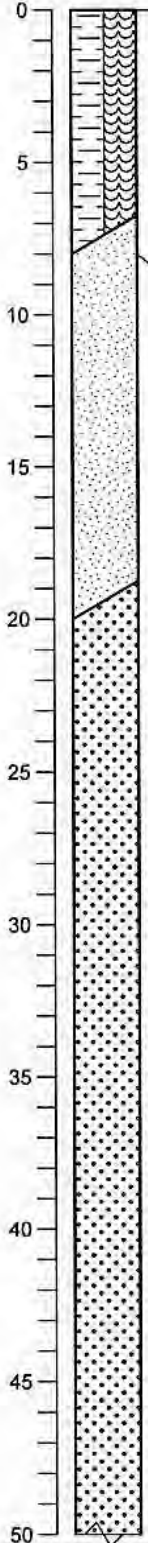
Top of casing at  
 0.5 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 59  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 59 ft.



Depth (ft.)  
 Sample



VERY DARK GRAYISH BROWN SANDY ORGANIC SOIL (OL/OH) (10YR 3/2) Loose, moist, 65% soil, 35% medium to fine sand

@ 3 ft.: Change to DARK GRAYISH BROWN (10YR 4/2), 60% soil, 40% sand

@ 8 ft.: Change to BROWN (10YR 5/3) 60% sand, 40% soil  
 LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 6/4) Loose, dry, 100% fine sand

@ 15 ft.: Similar to above

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4) Medium dense, dry, 100% fine to medium sand

@ 30 ft.: Similar to above

@ 33 ft.: Change to BROWNISH YELLOW (10YR 6/6) Moist, increase in grain size

@ 38 ft.: Similar to above, decrease in grain size

@ 40 ft.: Similar to above

@ 45 ft.: Change to YELLOWISH BROWN (10YR 5/6) 95% sand, 5% silt

@ 48 ft.: Change to 90% sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-35-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A46**

DRAWN  
 PCB

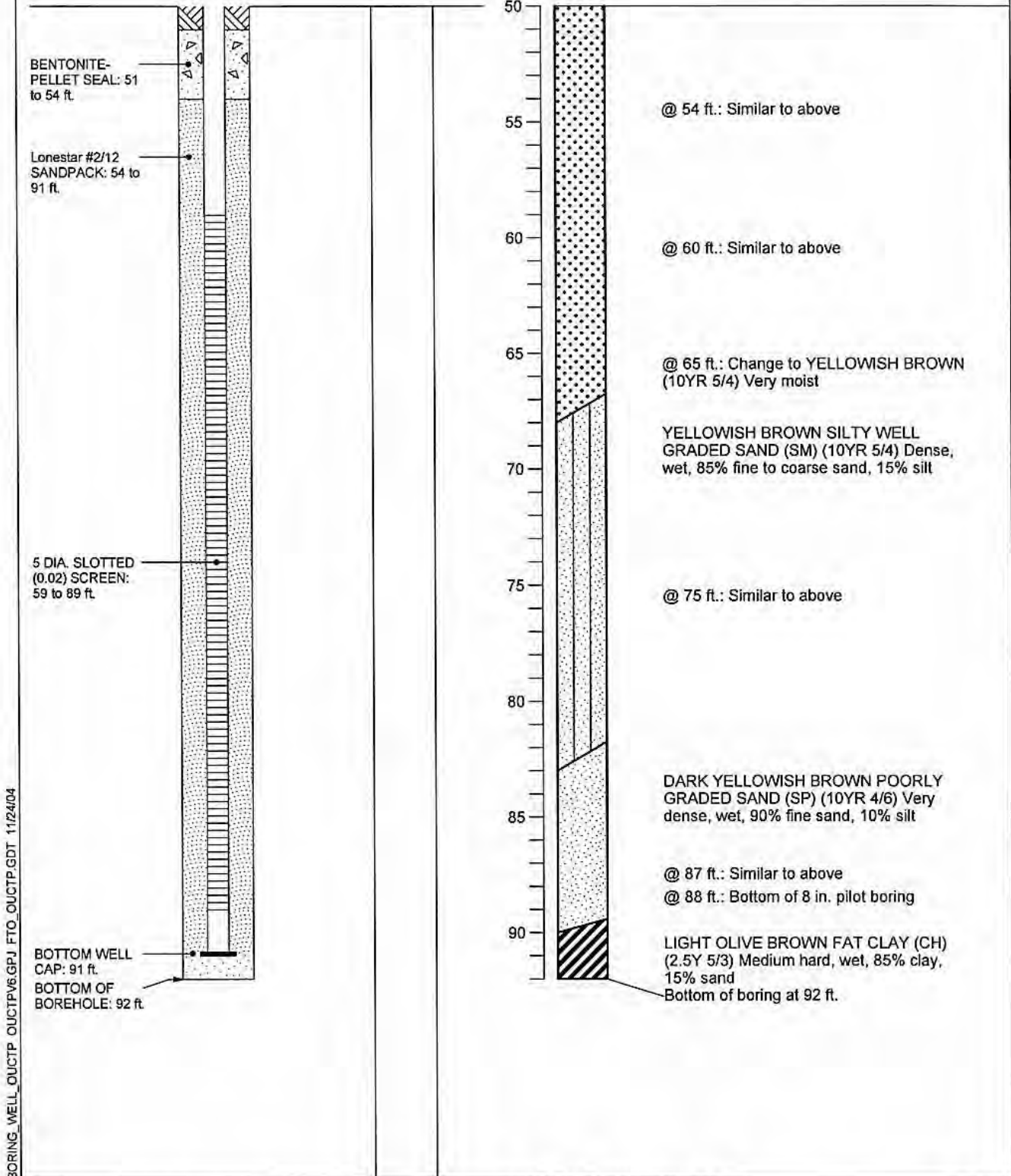
JOB NUMBER  
 55596 001701

APPROVED  
 MDT / cm

DATE  
 11/04

REVISED DATE

Completion Date 11/16/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 111.76 ft. Hole Dia. 12 in.  
 Northing 2142432.427 Easting 5746201.783



BORING\_WELL\_OUCTP\_OUCTPV6GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-35-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A46**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cwr*

DATE  
11/04

REVISED DATE



Completion Date 11/13/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 115.03 ft. Hole Dia. 12 in.  
 Northing 2142791.202 Easting 5746519.207

Top of PVC Casing  
 Elev. 114.66 ft.  
 CHRISTY  
 BOX

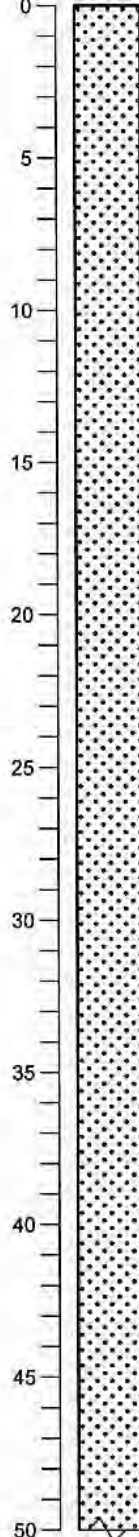
GROUND SURFACE  
 Top of casing at  
 0.5 ft. above  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 55  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 47.5 ft.

BENTONITE-  
 PELLET SEAL:

Depth (ft.)  
 Sample



VERY DARK BROWN WELL GRADED  
 SAND (SW) (10YR 2/2) Moist, 95% fine to  
 coarse sand, 5% silt

@ 3 ft.: Change to DARK BROWN (10YR  
 3/3)

@ 5 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/4)

@ 8 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/4), Increase in coarse sand

@ 13 ft.: Change to LIGHT YELLOWISH  
 BROWN (2.5Y 6/4)

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, Moist to wet

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-36-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A47**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

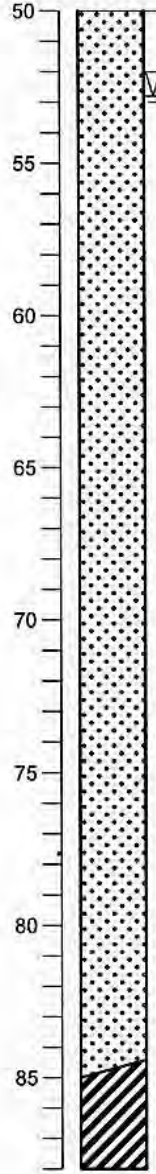
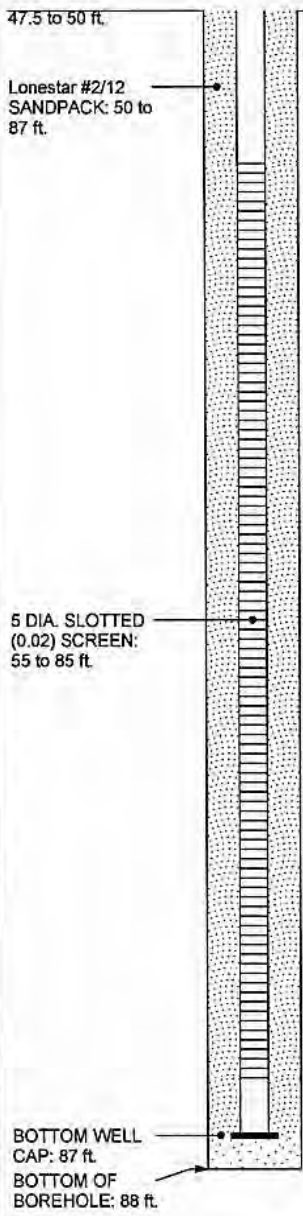
APPROVED  
*MDT/lan*

DATE  
 11/04

REVISED DATE

Completion Date 11/13/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 115.03 ft. Hole Dia. 12 in.  
 Northing 2142791.202 Easting 5746519.207

Depth (ft.)  
Sample



@ 50 ft.: Change to OLIVE YELLOW (2.5Y 6/6)  
 @ 53 ft.: Change to OLIVE BROWN (2.5Y 4/4)  
 @ 55 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6)  
 @ 60 ft.: Change to OLIVE YELLOW (2.5Y 6/6), Increase in fine sand  
 @ 65 ft.: Similar to above  
 @ 70 ft.: Similar to above  
 @ 75 ft.: Similar to above  
 @ 80 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4), Wet  
 @ 83 ft.: Change to OLIVE BROWN (2.5Y 4/3)  
 DARK GREENISH GRAY FAT CLAY (CH) (5GY 4/1) Medium stiff, oxidized orange color  
 Bottom of boring at 88 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
 Log of Boring MW-BW-36-A  
 OUCTP  
 Fort Ord, California

PLATE

**A47**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MBT/cwr*

DATE  
11/04

REVISED DATE

Completion Date 11/27/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 110.10 ft. Hole Dia. 12 in.  
 Northing 2142104.205 Easting 5744854.563

Top of PVC Casing  
 Elev. 99.58 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

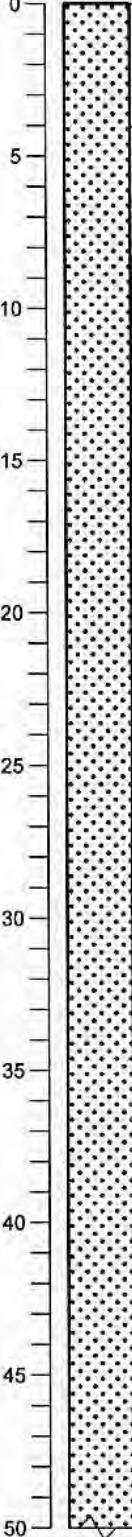
5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 45  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 37.5 ft.

BENTONITE-  
 PELLET SEAL:  
 37.5 to 40 ft.

Lonestar #2/12  
 SANDPACK: 40 to  
 76 ft.

Depth (ft.)  
 Sample



VERY DARK BROWN WELL GRADED  
 SAND (SW) (10YR 2/1) 90% fine to coarse  
 sand, 10% silt

@ 3 ft.: Change to VERY DARK BROWN  
 (10YR 2/2)

@ 4 ft.: Change to VERY DARK BROWN  
 (10YR 2/1)

@ 7 ft.: Change to VERY DARK GRAYISH  
 BROWN (10YR 3/2)

@ 10 ft.: Change to LIGHT OLIVE BROWN  
 (2.5YR 5/4)

@ 12 ft.: Change to BROWN (10YR 4/3)

@ 15 ft.: Change to LIGHT OLIVE BROWN  
 (2.5YR 5/4)

@ 17 ft.: Change to OLIVE BROWN (2.5YR  
 4/4)

@ 20 ft.: Change to LIGHT OLIVE BROWN  
 (2.5YR 5/4) Dry to moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Change to OLIVE BROWN (2.5YR  
 4/3) Increase in coarse sand, moist

@ 45 ft.: Change to LIGHT OLIVE BROWN  
 (2.5YR 5/4)

@ 48 ft.: Change to OLIVE BROWN (2.5YR  
 4/3)

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-37-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A48**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

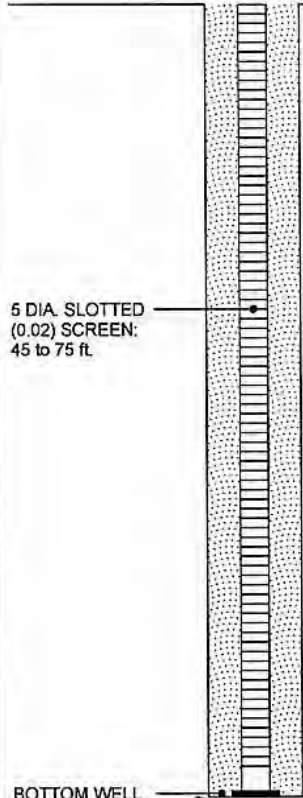
APPROVED  
*MDT / cm*

DATE  
 11/04

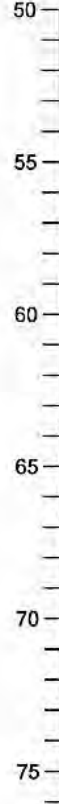
REVISED DATE

Completion Date 11/27/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 110.10 ft. Hole Dia. 12 in.  
 Northing 2142104.205 Easting 5744854.563

Depth (ft.)  
 Sample



BOTTOM WELL CAP: 87 ft  
 BOTTOM OF BOREHOLE: 76 ft



@ 50 ft.: Change to LIGHT OLIVE BROWN (2.5YR 5/4)  
 @ 55 ft.: Similar to above  
 @ 60 ft.: Similar to above, Very moist  
 @ 65 ft.: Similar to above  
 @ 70 ft.: Similar to above, Wet  
 GREENISH GRAY FAT CLAY (CH) (5G 5/1) Moist, soft, organic, 90% clay, 10% fine sand  
 Bottom of boring at 76 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-37-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A48**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 116.00 ft. Hole Dia. 12 in.  
 Northing 2142390.799 Easting 5745790.759

Top of PVC Casing  
 Elev. 115.68 ft.  
 CHRISTY  
 BOX

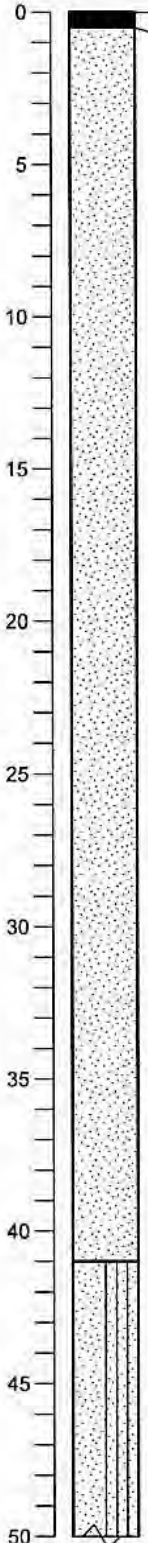
GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

5 DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0 to 55  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 48 ft.

BENTONITE-  
 PELLET SEAL: 48

Depth (ft.)  
 Sample



6 in. CONCRETE SIDEWALK  
 DARK YELLOWISH BROWN SAND (SP)  
 (10YR 4/4) Loose, fine sand

@ 4 ft.: Change to VERY DARK GRAYISH  
 BROWN (10YR 3/2)

@ 15 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4), 5% silt

@ 30 ft.: Similar to above


@ 33 ft.: Change to BROWN (10YR 5/3)

VERY DARK GRAYISH BROWN SAND TO  
 SILTY SAND (SP-SM) (10YR 3/2) Loose,  
 damp, fine sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-38-A**

PLATE



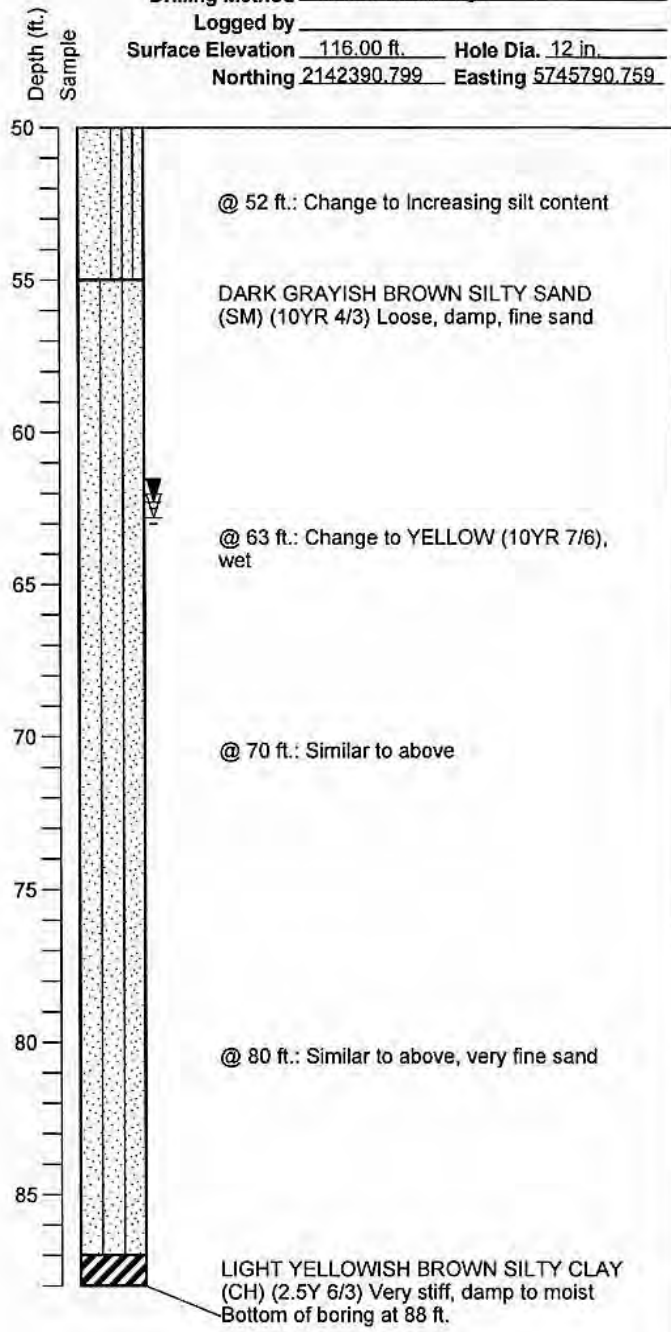
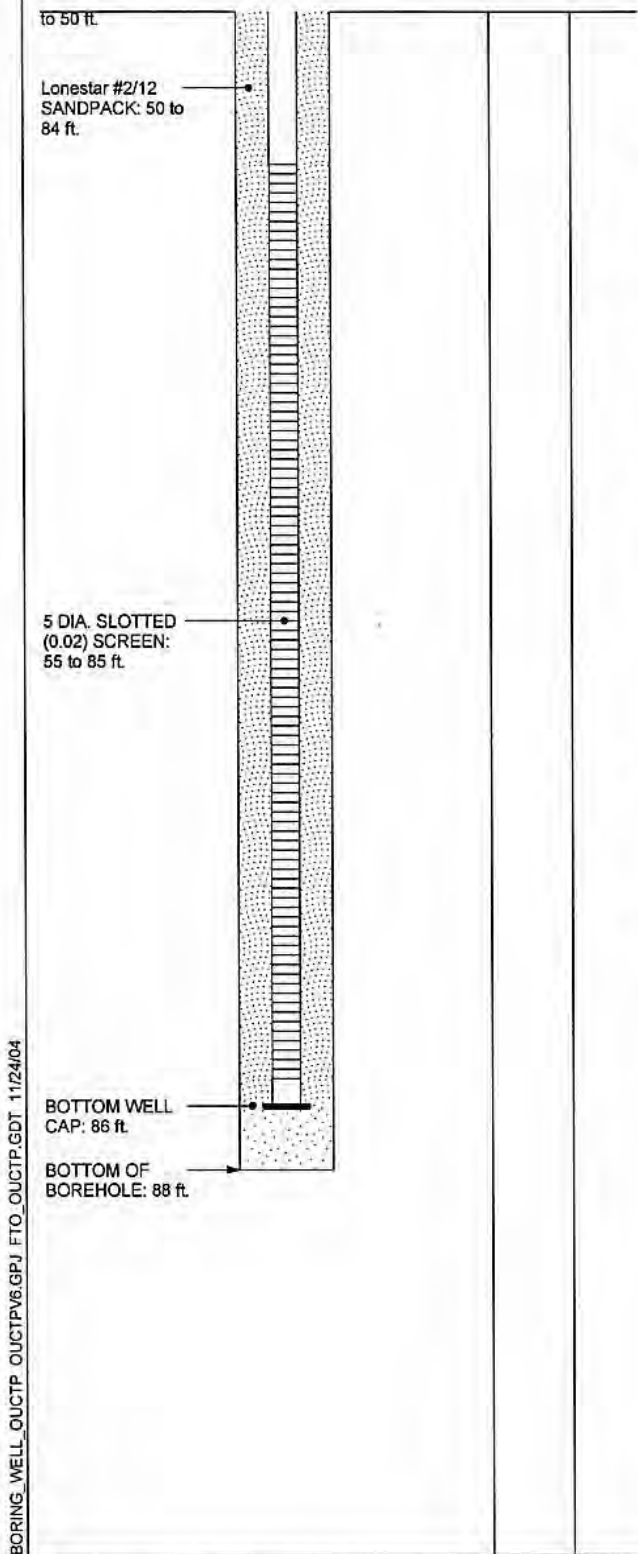
**MACTEC**  
 DRAWN: PCB  
 JOB NUMBER: 55596 001701

Fort Ord, California  
 APPROVED: *MDT/cw*

**A49**  
 DATE: 11/04  
 REVISED DATE: \_\_\_\_\_



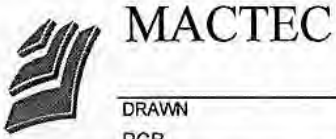
Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 116.00 ft. Hole Dia. 12 in.  
 Northing 2142390.799 Easting 5745790.759



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-38-A**  
 OUCTP

PLATE



Fort Ord, California

**A49**

DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MDT/cor</i>	DATE 11/04	REVISED DATE
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Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 79.12 ft. Hole Dia. 12 in.  
 Northing 2143239.705 Easting 5745712.811

Top of PVC Casing  
 Elev. 79.86 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 26  
 ft.

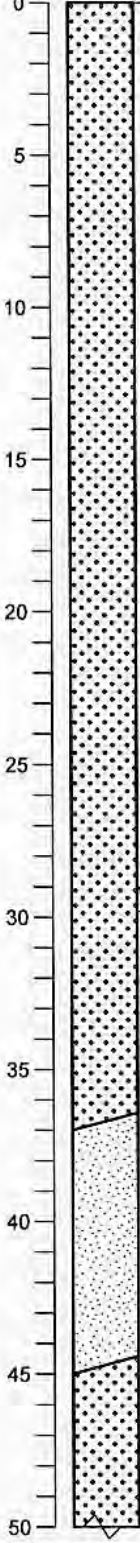
BENTONITE-  
 CEMENT SEAL: 0  
 to 18 ft.

BENTONITE-  
 PELLET SEAL: 18  
 to 20.5 ft.

Lonestar #2/12  
 SANDPACK: 20.5  
 to 58 ft.

5 DIA. SLOTTED  
 (0.02) SCREEN:  
 26 to 56 ft.

Depth (ft.)  
 Sample



DARK OLIVE GRAY WELL GRADED SAND (SW) (5Y 3/2) Loose, moist, 90% fine to coarse sand, 10% silt

@ 3 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3), dry

@ 5 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 10 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 15 ft.: Similar to above

@ 18 ft.: Similar to above, moist

@ 20 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above, wet

@ 35 ft.: Similar to above

DARK YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 4/6) Loose, wet, 90% fine to medium sand, 10% silt

@ 40 ft.: Change to BROWN (10YR 5/2)

LIGHT OLIVE WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine to coarse sand, 10% silt, small percentage coarse sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-39-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A50**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

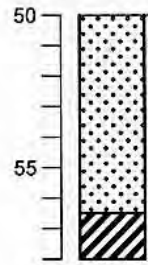
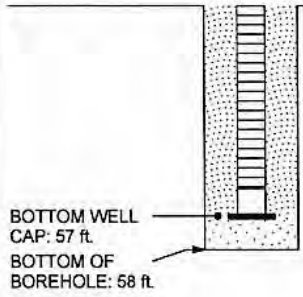
APPROVED  
 MOT/cwr

DATE  
 11/04

REVISED DATE

Completion Date 11/29/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 79.12 ft. Hole Dia. 12 in.  
 Northing 2143239.705 Easting 5745712.811

Depth (ft.)  
 Sample



@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

GREENISH GRAY FAT CLAY (CH) (5G 5/1) Medium stiff, moist, 90% clay, 10% silt  
 Bottom of boring at 58 ft.

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTI\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-39-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A50**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 11/20/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 90.36 ft. Hole Dia. 12 in.  
 Northing 2142358.601 Easting 5744227.275

Top of PVC Casing  
 Elev. 89.57 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

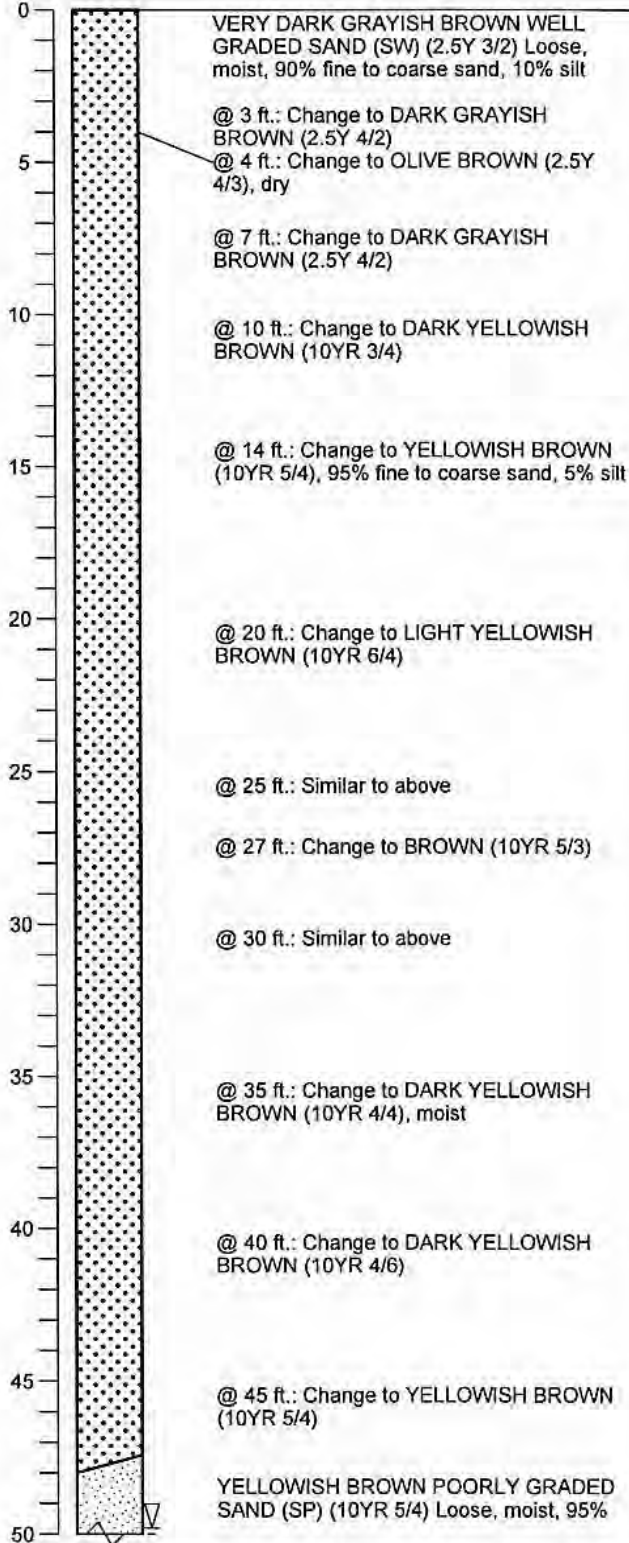
5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 40  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 31.5 ft.

BENTONITE-  
 PELLET SEAL:  
 31.5 to 34 ft.

Lonestar #2/12  
 SANDPACK: 34 to  
 71 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-40-A  
 OUCTP

PLATE



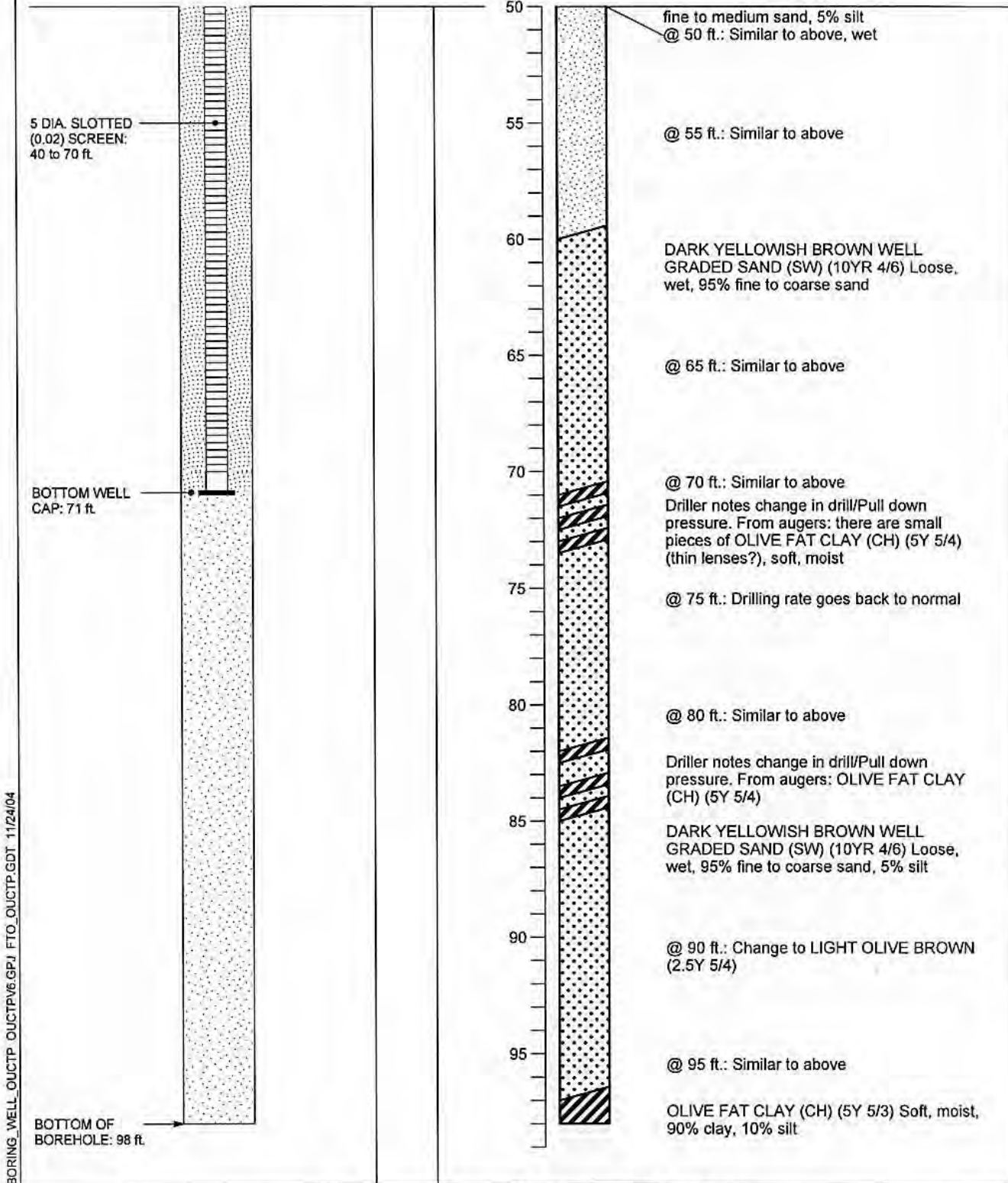
MACTEC

Fort Ord, California

**A51**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MJT/cw</i>	11/04	

Completion Date 11/20/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 90.36 ft. Hole Dia. 12 in.  
 Northing 2142358.601 Easting 5744227.275



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-40-A  
 OUCTP

PLATE



Fort Ord, California

**A51**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	MOT / car	11/04	



Completion Date 11/28/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 87.54 ft. Hole Dia. 12 in.  
 Northing 2143247.438 Easting 5744425.489

Top of PVC Casing  
 Elev. 87.12 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground level

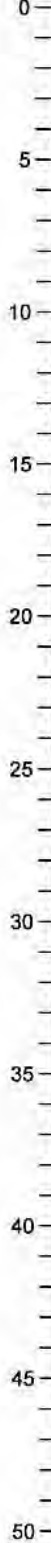
5 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 0 to 28  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 30 ft.

BENTONITE-  
 PELLET SEAL: 30  
 to 32.5 ft.

Lonestar #2/12  
 SANDPACK: 32.5  
 to 68 ft.

Depth (ft.)  
 Sample



6 in. CONCRETE SIDEWALK  
 PALE YELLOW SAND (SP) (2.5Y 7/3)  
 Loose, moist, fine sand

@ 8 ft.: Change to damp

@ 16 ft.: Change to 5% silt

@ 25 ft.: Similar to above

@ 31 ft.: Change to YELLOW (10YR 7/6)

@ 40 ft.: Change to moist

@ 42 ft.: Increasing silt content

BROWNISH YELLOW SILTY SAND  
 (SP-SM) (10YR 6/6) Loose, wet, fine sand

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-41-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A52**

DRAWN  
 PCB

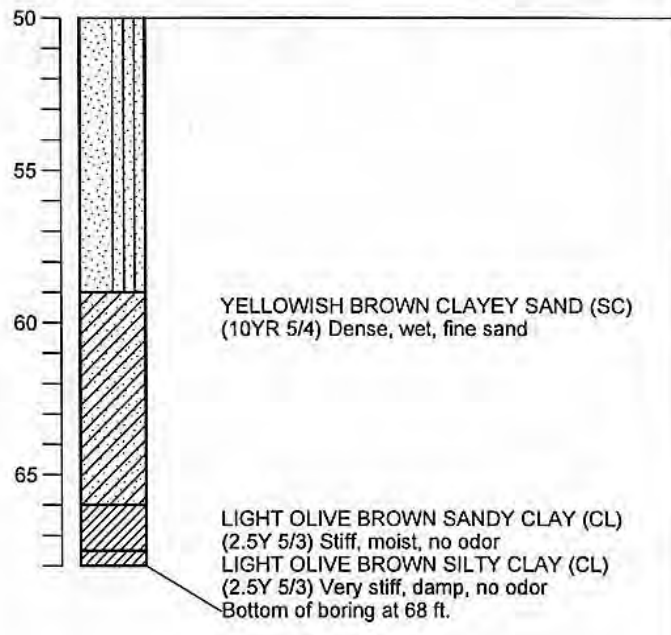
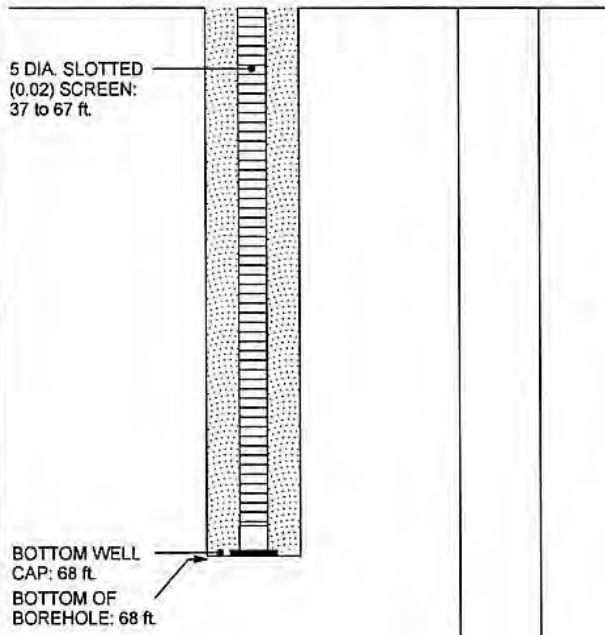
JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

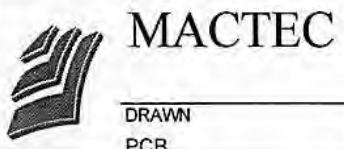
Completion Date 11/28/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 87.54 ft. Hole Dia. 12 in.  
 Northing 2143247.438 Easting 5744425.489



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-41-A**  
 OUCTP

PLATE



Fort Ord, California

**A52**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MOT / car</i>	11/04	

Top of PVC Casing  
Elev. 88.52 ft.

Completion Date 11/15/2000  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 87.65 ft. Hole Dia. 12 in.  
Northing 2143291.792 Easting 5744809.871

GROUND SURFACE  
Top of casing at 2 ft. above ground level

5 DIAMETER SCHEDULE 40 PVC BLANK CASING: 0 to 26 ft.

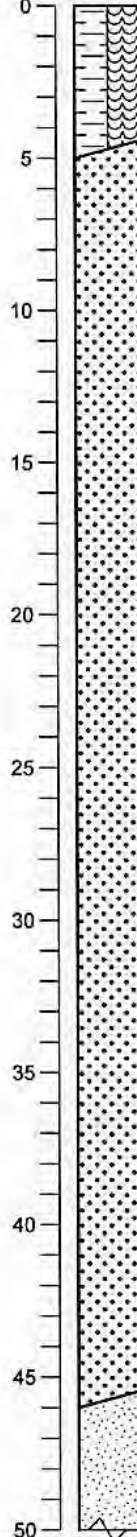
BENTONITE-CEMENT SEAL: 0 to 18.5 ft.

BENTONITE-PELLET SEAL: 18.5 to 21 ft.

Lonestar #2/12 SANDPACK: 21 to 58 ft.

5 DIA. SLOTTED (0.02) SCREEN: 26 to 56 ft.

Depth (ft.)  
Sample



VERY DARK GRAY SANDY ORGANIC SOIL (OL/OH) (2.5Y 3/1) Loose, dry, 70% soil, 30% sand

@ 3 ft.: Change to BROWN (10YR 5/3), 35% sand

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, dry, 100% fine to coarse sand

@ 8 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4), 95% sand, 5% silt

@ 11 ft.: Similar to above

@ 13 ft.: Change to Decrease in grain size

@ 17 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

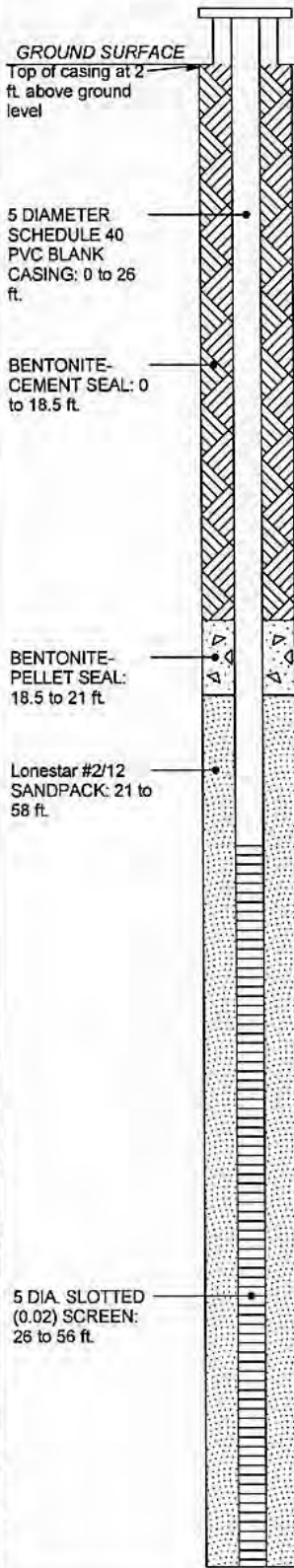
@ 31 ft.: Similar to above

@ 38 ft.: Similar to above, moist

@ 40 ft.: Similar to above

BROWNISH YELLOW POORLY GRADED SAND (SP) (10YR 6/6) Very dense, moist, 95% fine sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
Log of Boring MW-BW-42-A  
OUCTP

PLATE



Fort Ord, California

**A53**

DRAWN  
PCB

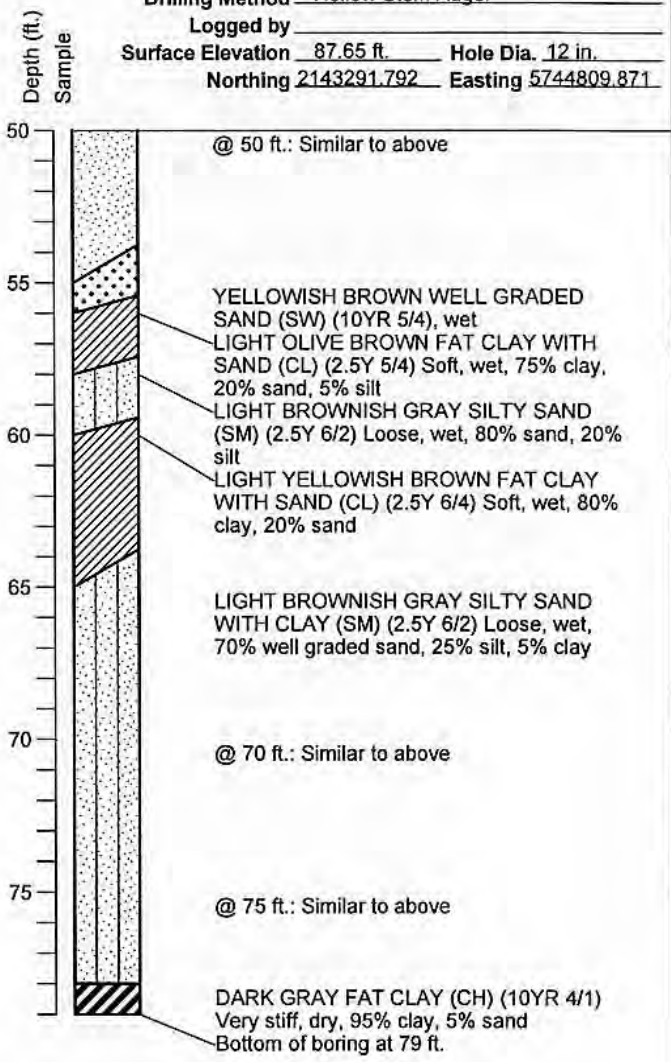
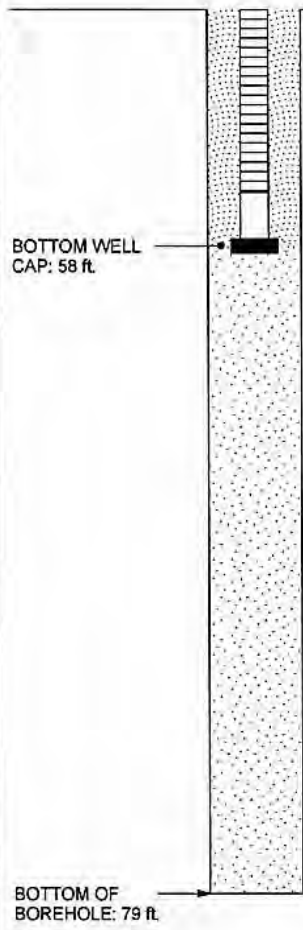
JOB NUMBER  
55596 001701

APPROVED  
*MOT/cwr*

DATE  
11/04

REVISED DATE

Completion Date 11/15/2000  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 87.65 ft. Hole Dia. 12 in.  
 Northing 2143291.792 Easting 5744809.871



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-42-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A53**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE

Completion Date 3/3/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 133.22 ft. Hole Dia. 7 in.  
 Northing 2140678.01 Easting 5746978.17

Top of PVC Casing  
 Elev. 132.85 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at  
 0.5 ft. below  
 ground level

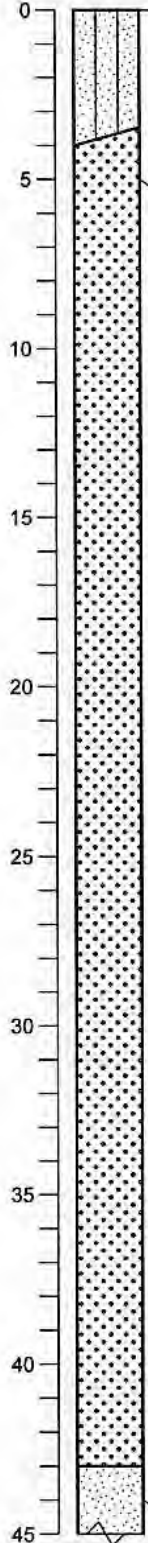
7 in. DIAMETER  
 BOREHOLE: 0 to  
 217 ft.

3 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: -0.5 to  
 180 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 169 ft.

Depth (ft.)  
 Sample



VERY DARK GRAY SILTY SAND (SM)  
 (10YR 3/1) Loose, moist, 80% fine to coarse  
 sand, 20% silt

VERY DARK GRAY WELL GRADED SAND  
 (SW) (10YR 3/1) Loose, dry, 90% fine to  
 coarse sand, 10% silt  
 @ 5 ft.: Change to DARK BROWN (10YR  
 3/3)

@ 8 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) 95% fine to coarse sand, 5% silt

@ 10 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 38 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/4)

@ 40 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 95% fine  
 to medium sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-43-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A54**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

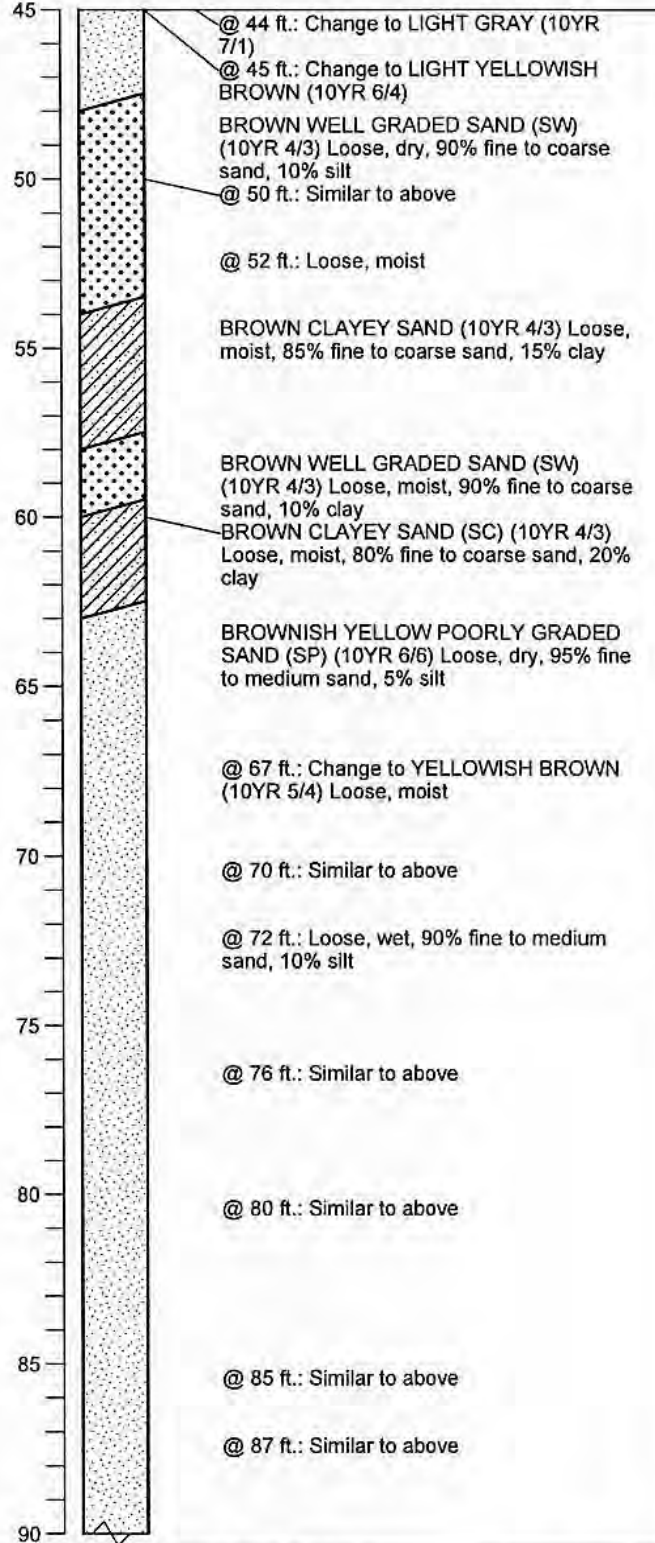
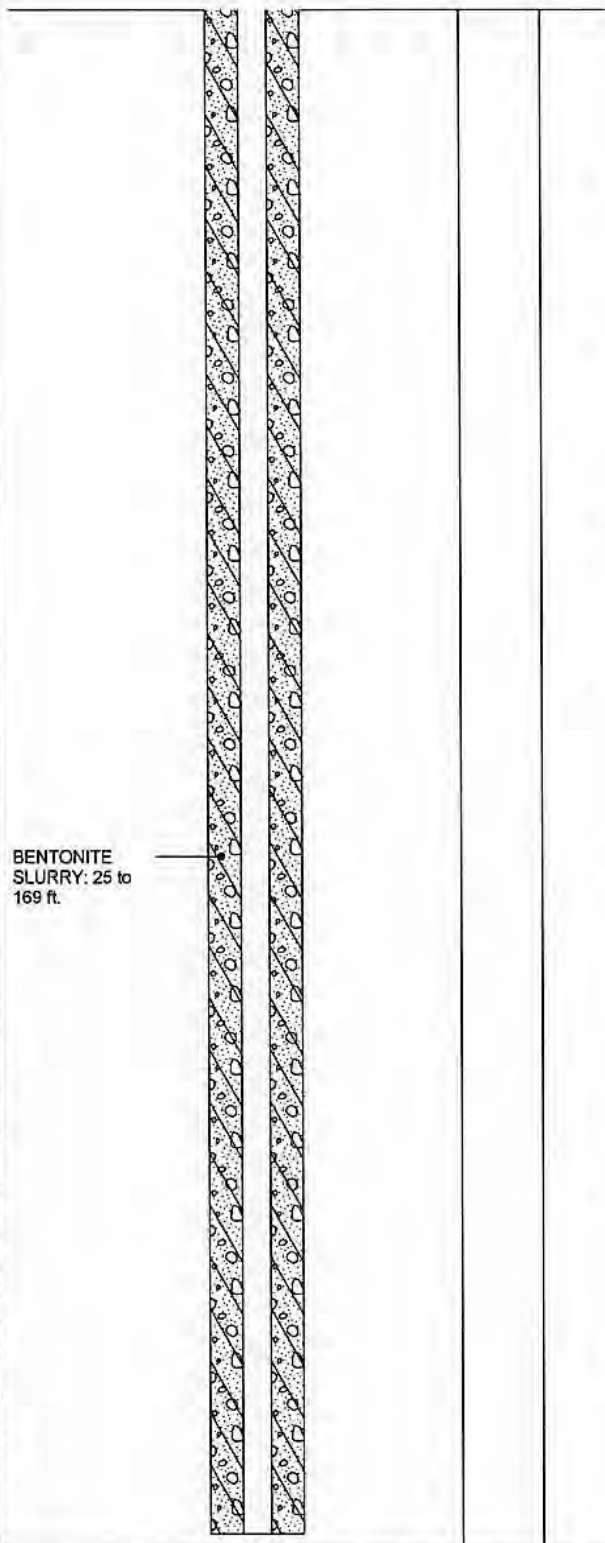
DATE  
 11/04

REVISED DATE



Completion Date 3/3/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 133.22 ft. Hole Dia. 7 in.  
 Northing 2140678.01 Easting 5746978.17

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

BENTONITE SLURRY: 25 to 169 ft.

Well Construction Details and Log of Boring MW-BW-43-180  
 OUCTP

PLATE



MACTEC

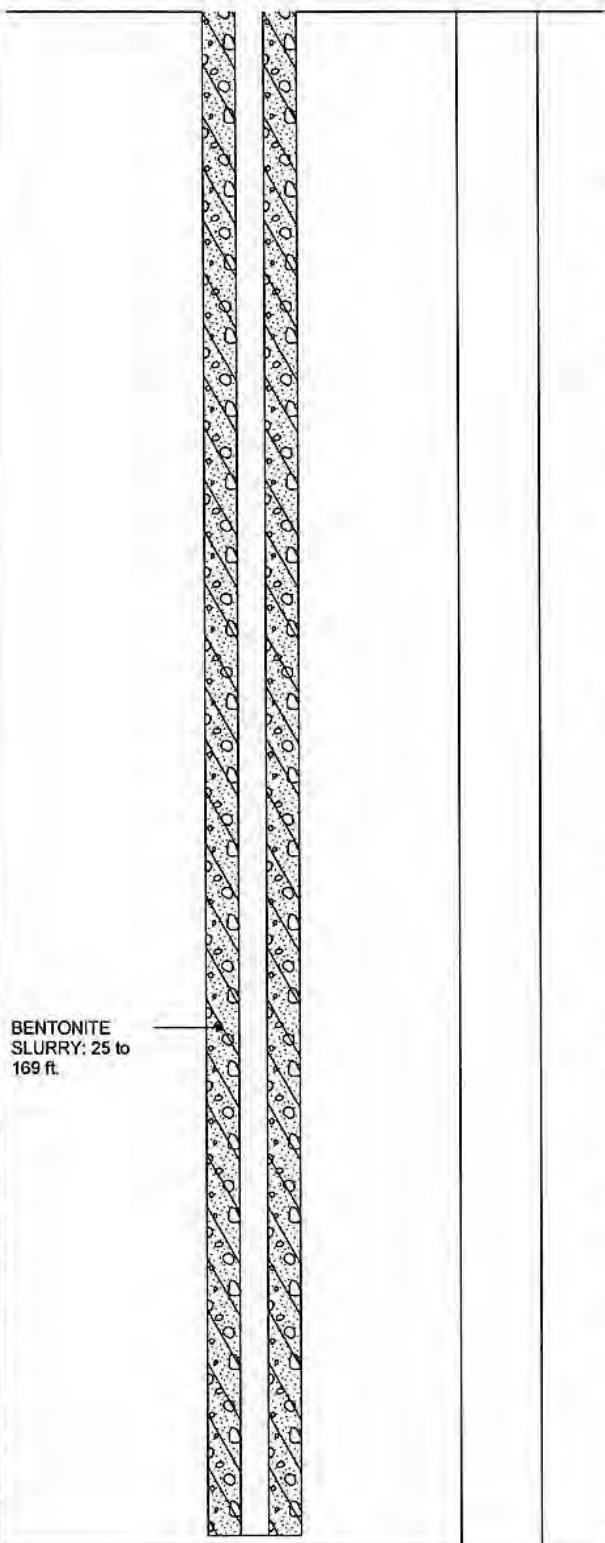
Fort Ord, California

**A54**

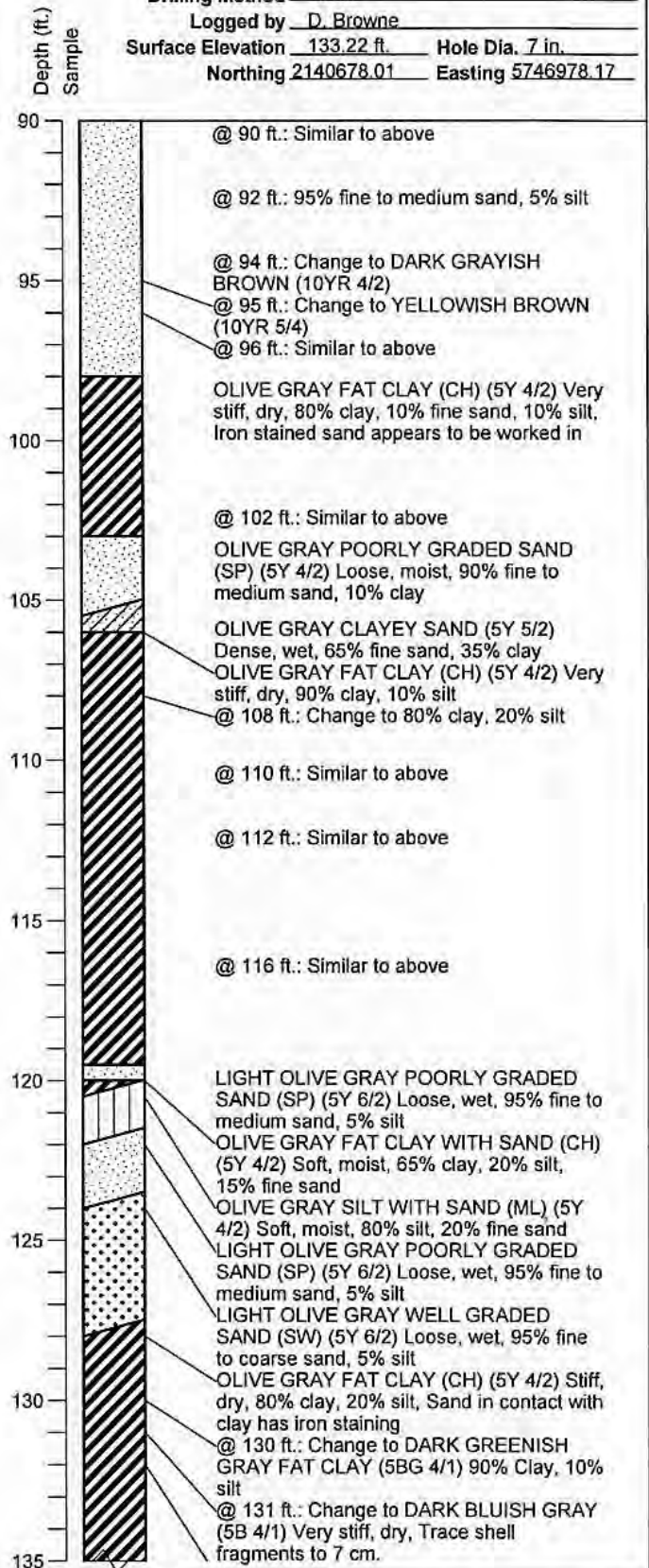
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / con</i>	11/04	

Completion Date 3/3/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 133.22 ft. Hole Dia. 7 in.  
 Northing 2140678.01 Easting 5746978.17

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



BENTONITE SLURRY: 25 to 169 ft.



**Well Construction Details and Log of Boring MW-BW-43-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A54**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

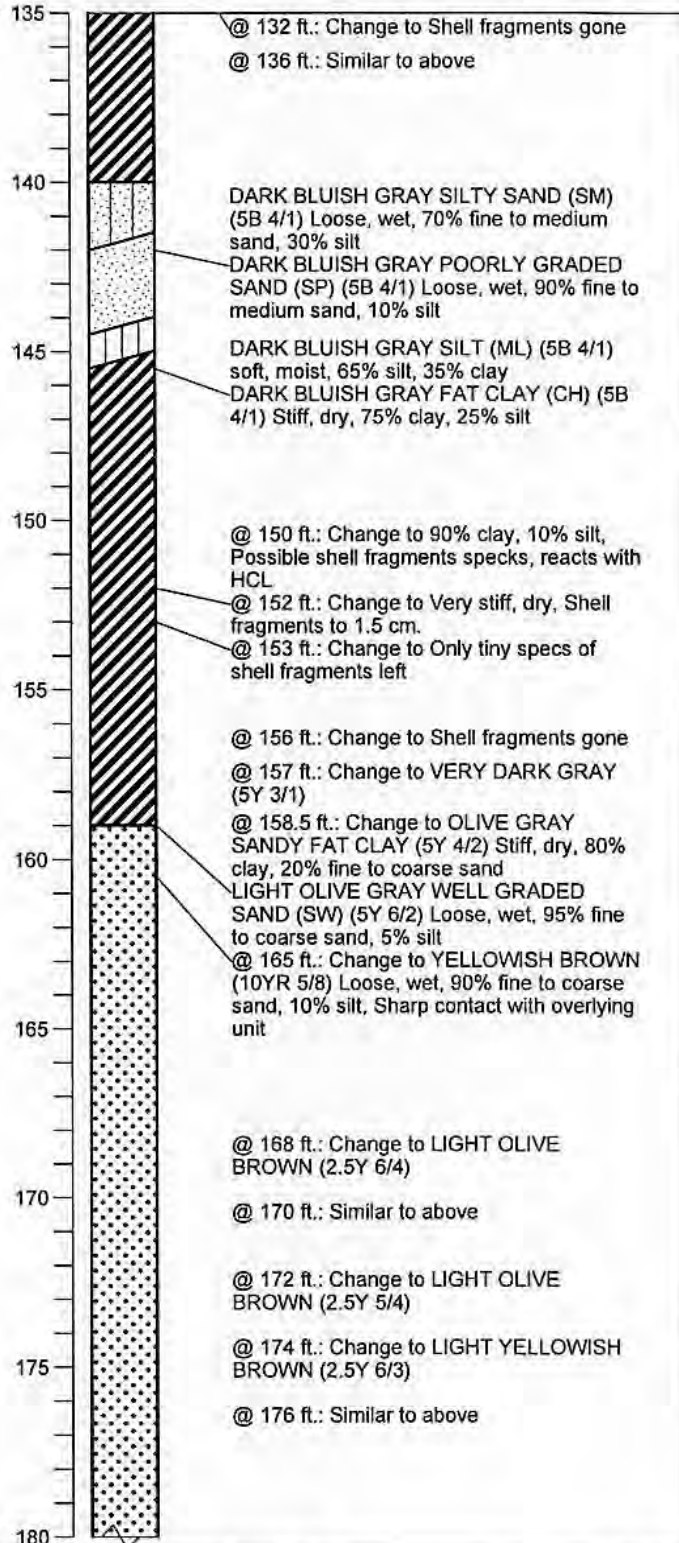
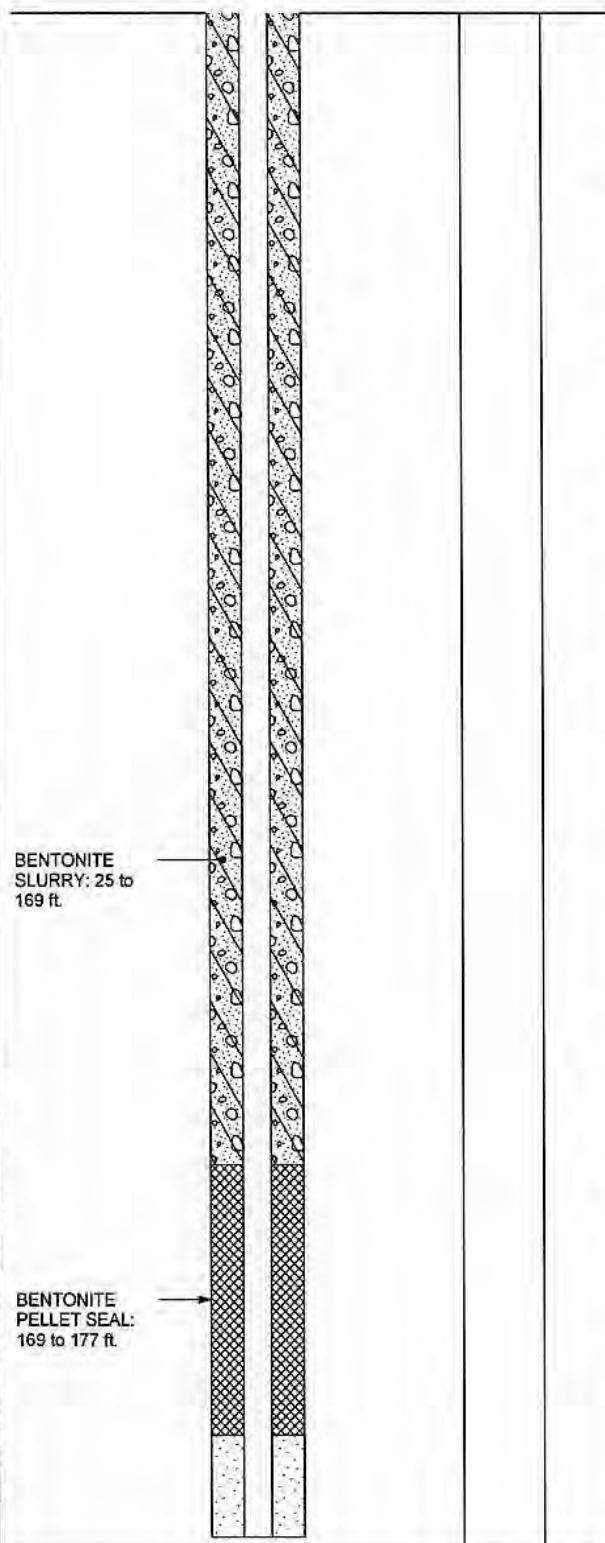
*MDT/Car*

DATE  
11/04

REVISED DATE

Completion Date 3/3/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 133.22 ft. Hole Dia. 7 in.  
 Northing 2140678.01 Easting 5746978.17

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6GPJ\_FTO\_OUCTP.GDT 11/24/04

BENTONITE SLURRY: 25 to 169 ft.

BENTONITE PELLET SEAL: 169 to 177 ft.

**Well Construction Details and Log of Boring MW-BW-43-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A54**

DRAWN  
MBP

JOB NUMBER  
55596 001701

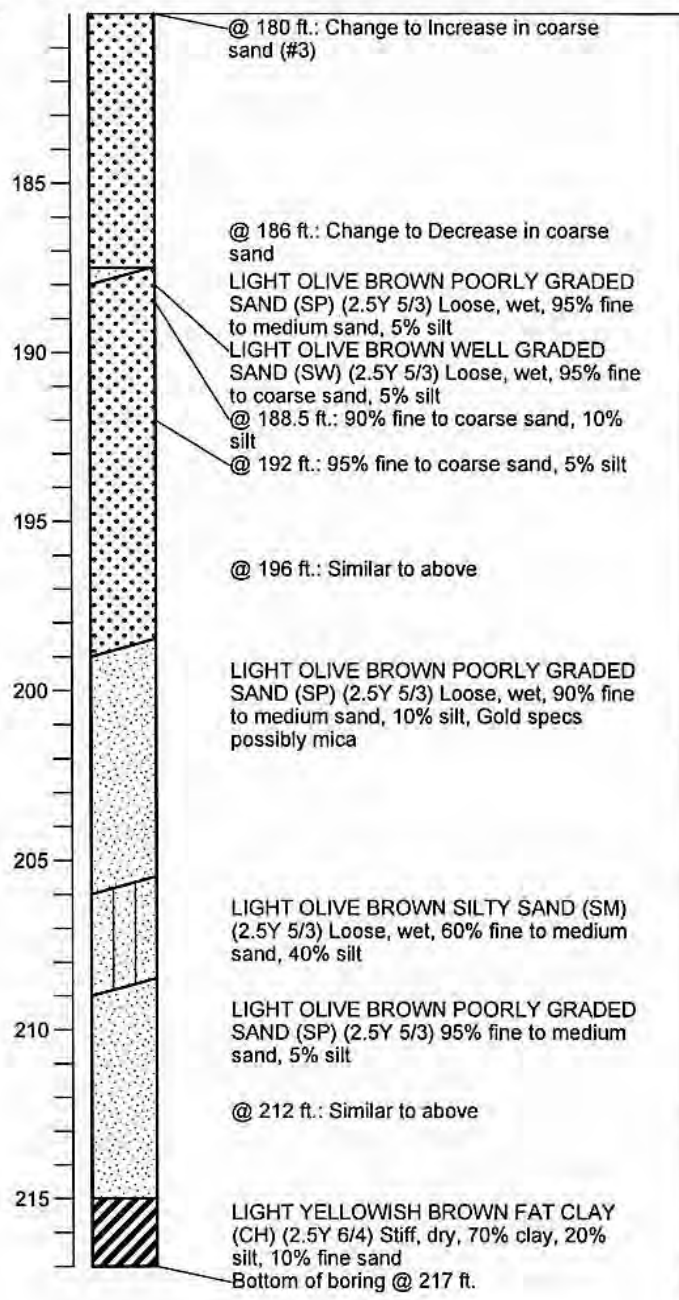
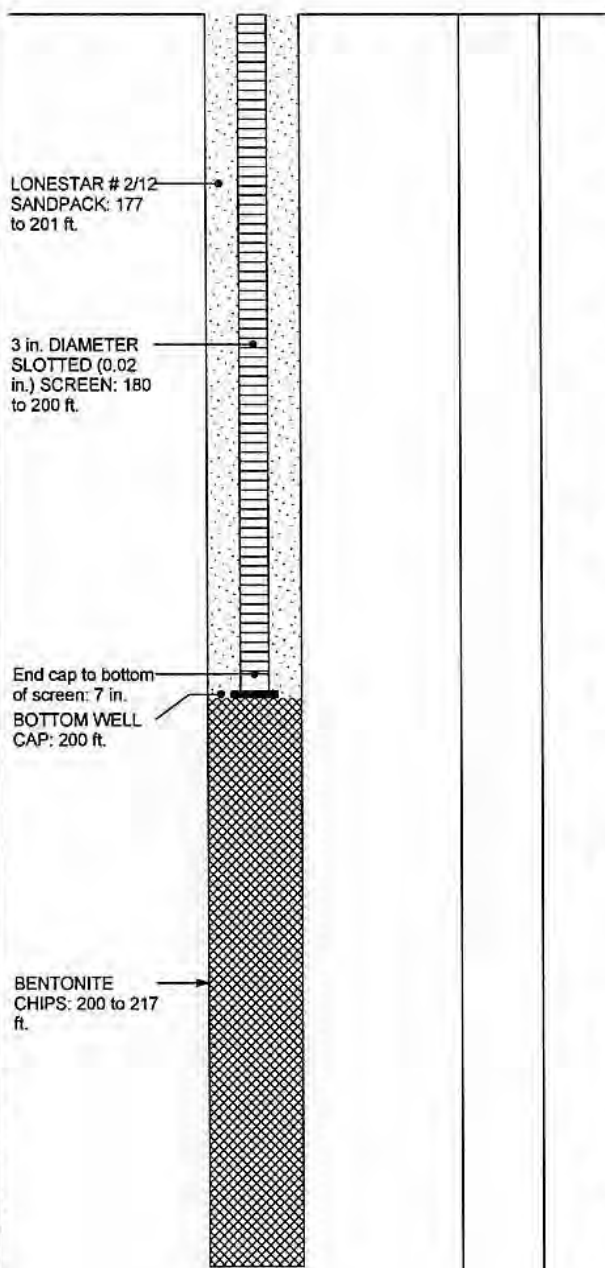
APPROVED  
*MDT / cur*

DATE  
11/04

REVISED DATE

Completion Date 3/3/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 133.22 ft. Hole Dia. 7 in.  
 Northing 2140678.01 Easting 5746978.17

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-43-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A54**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT/Car*

DATE  
 11/04

REVISED DATE



Top of PVC Casing  
Elev. 60.70 ft.

Completion Date 5/24/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 58.70 ft. Hole Dia. 12 in.  
 Northing 2143608.37 Easting 5744303.18

GROUND SURFACE

BENTONITE-CEMENT SEAL: 0 to 5 ft.

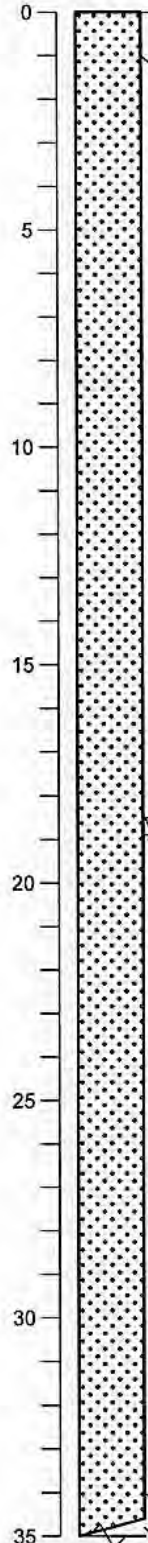
5 in. DIAMETER SCHEDULE 80 PVC BLANK CASING: +2 to 15.2 ft.

BENTONITE PELLET SEAL: 5 to 10 ft.

#3 Lapis Lustré SANDPACK: 10 to 36 ft.

5 in. DIAMETER SLOTTED (0.020 in.) SCREEN: 15 to 35 ft.

Depth (ft.)  
Sample



LIGHT OLIVE BROWN SAND (SW) (2.5Y 5/3) Loose, dry, 50% fine sand, 30% medium sand, 15% fine, 5% coarse sand, trace organics

@ 1 ft.: Change to OLIVE BROWN (2.5Y 4/3) 35% medium sand, no coarse sand

@ 5 ft.: Change to DARK OLIVE BROWN (2.5Y 3/3) slightly moist, 60% fine sand, 30% medium sand, 10% fines

@ 7 ft.: Change to YELLOW (2.5Y 7/8) loose, 60% fine sand, 35% medium sand, 5% fines

@ 10 ft.: Change to 70% fine sand, 25% medium sand, 5% fines

@ 20 ft.: Change to YELLOW (2.5Y 7/6) dense, very moist, 65% fine sand, 25% medium sand, 10% fines

@ 25 ft.: Change to wet

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-43-A**  
OUCTP

PLATE



Fort Ord, California

**A55**

DRAWN  
PCB

JOB NUMBER  
55596 001701

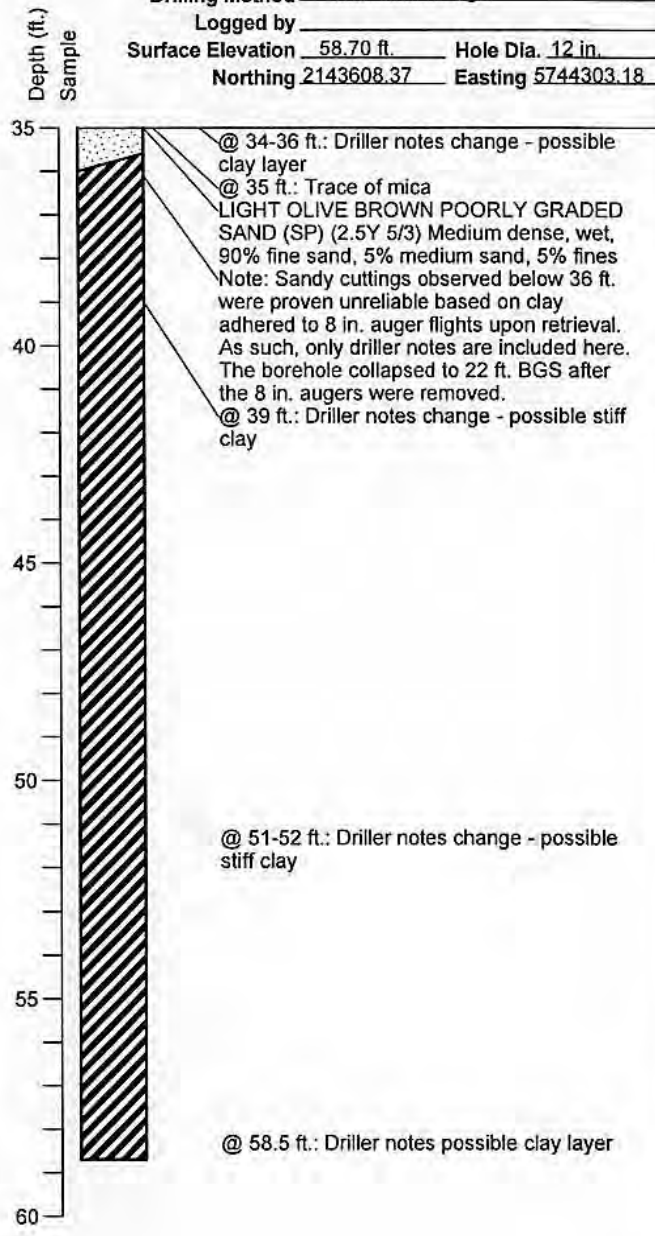
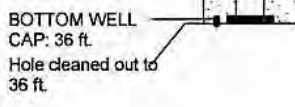
APPROVED  
*MOT / CW*

DATE  
11/04

REVISED DATE



Completion Date 5/24/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 58.70 ft. Hole Dia. 12 in.  
 Northing 2143608.37 Easting 5744303.18



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**MACTEC**  
 DRAWN: PCB  
 JOB NUMBER: 55596 001701

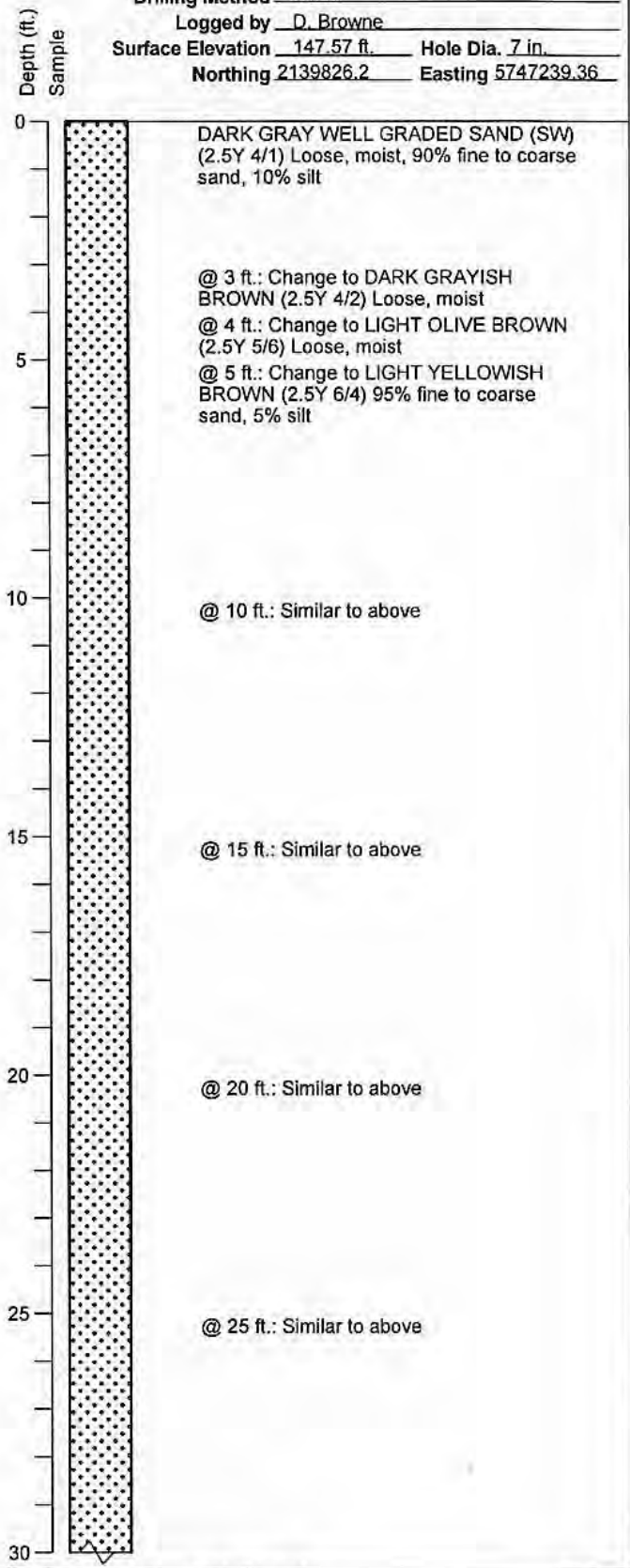
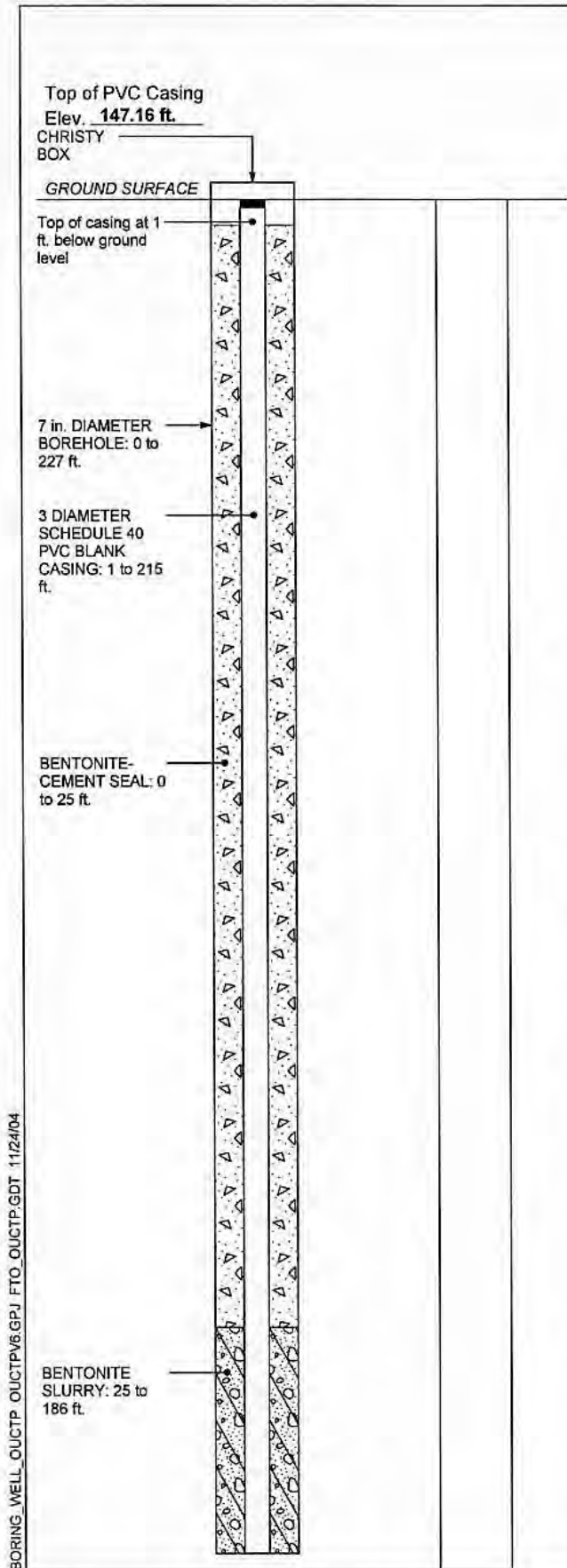
**Well Construction Details and Log of Boring MW-BW-43-A**  
 OUCTP  
 Fort Ord, California

PLATE

**A55**

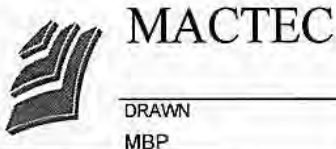
APPROVED: *MBT/Kan* DATE: 11/04  
 REVISED DATE: \_\_\_\_\_

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36



Well Construction Details and Log of Boring MW-BW-44-180  
 OUCTP

PLATE



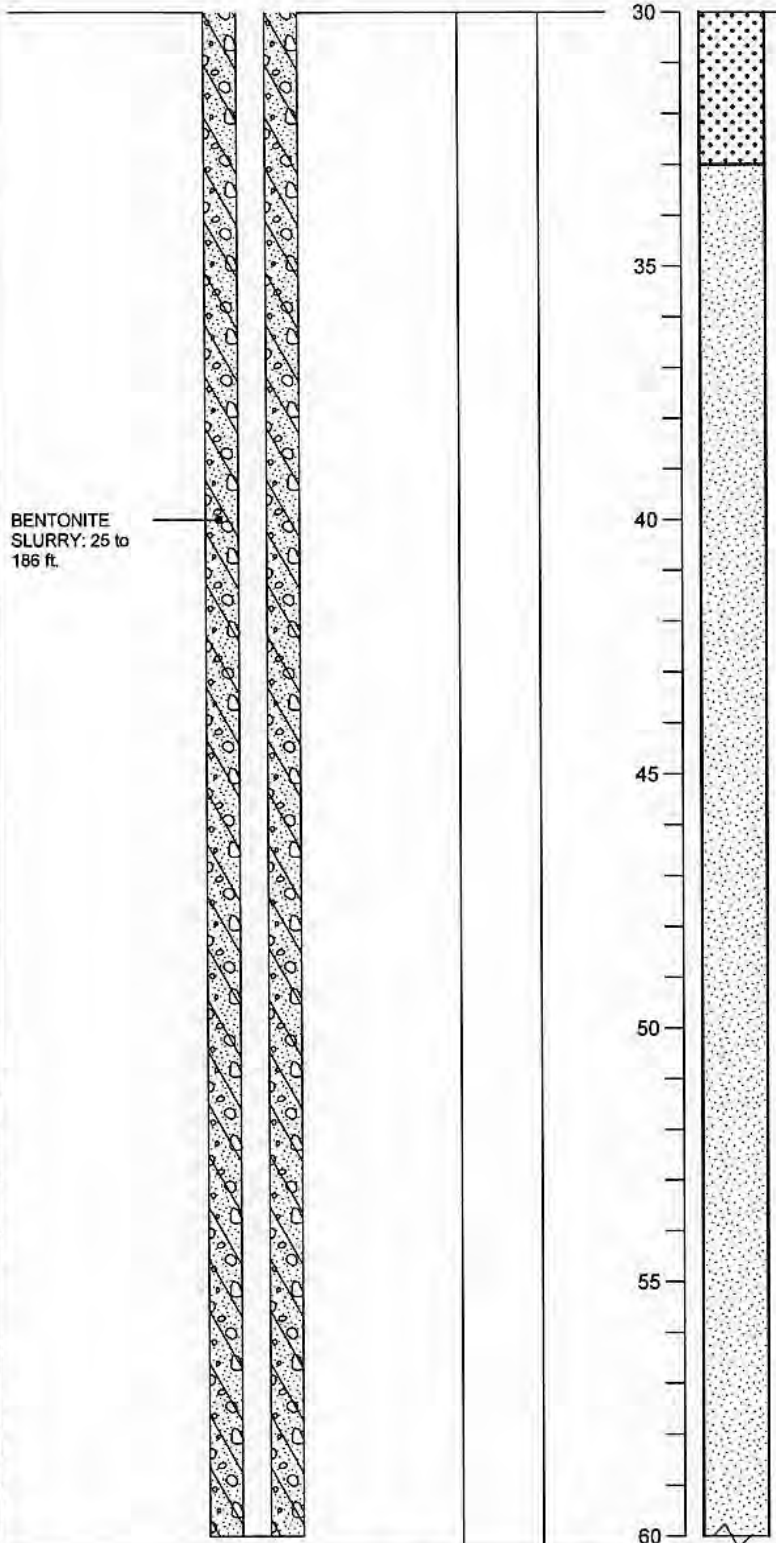
Fort Ord, California

DRAWN: MBP      JOB NUMBER: 55596 001701      APPROVED: *MOT/cha*      DATE: 11/04      REVISED DATE:

**A56**

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
186 ft.

@ 30 ft.: Similar to above

OLIVE YELLOW POORLY GRADED SAND (SP) (2.5Y 6/4) Loose, dry, 95% fine to medium sand, 5% silt

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

@ 49 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6) Loose, dry

@ 52 ft.: Change to YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 95% fine to medium sand, 5% silt

@ 56 ft.: Change to BROWNISH YELLOW (10YR 5/8)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-44-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A56**

DRAWN  
MBP

JOB NUMBER  
55596 001701

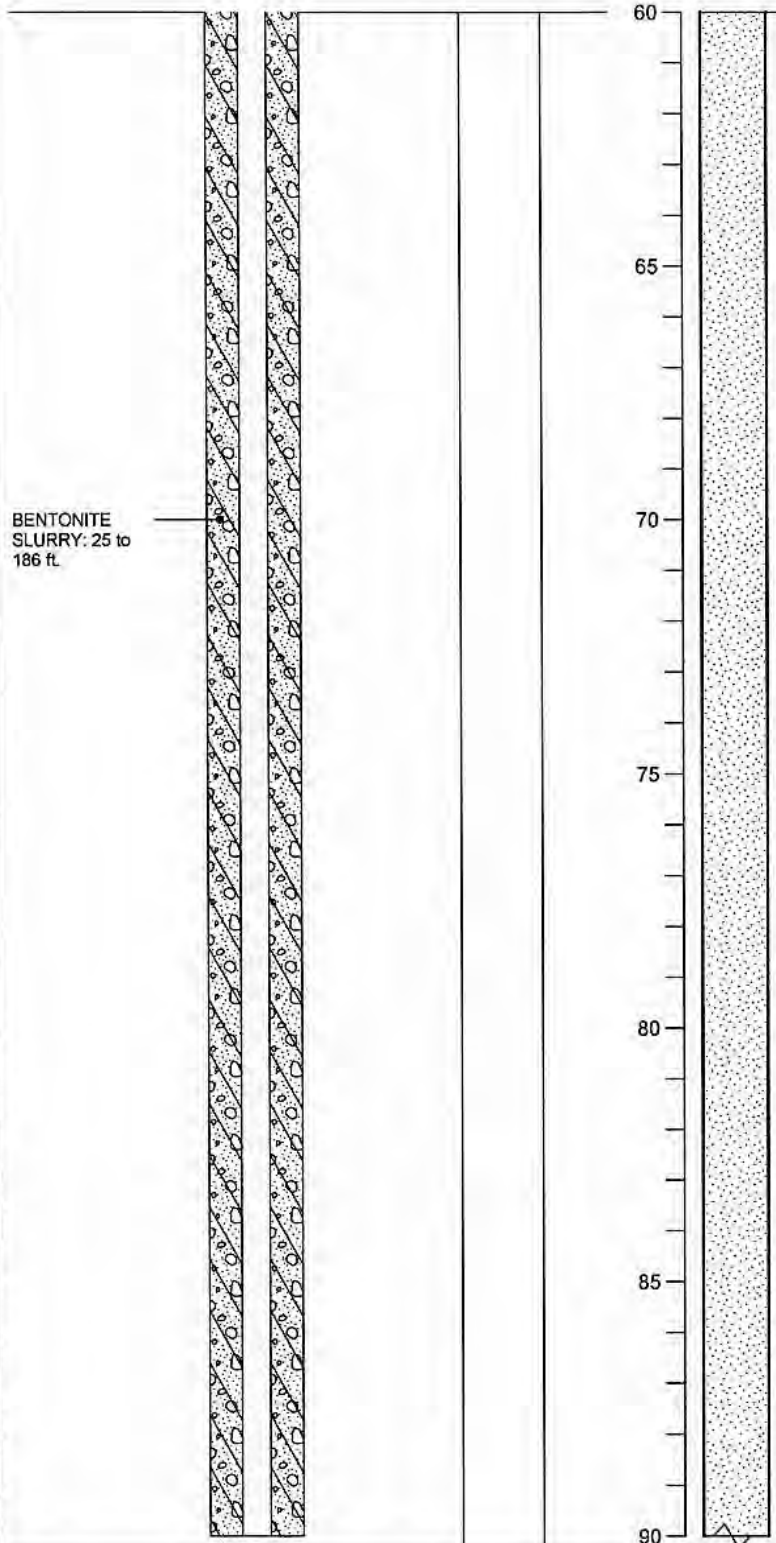
APPROVED  
*MDT / con*

DATE  
11/04

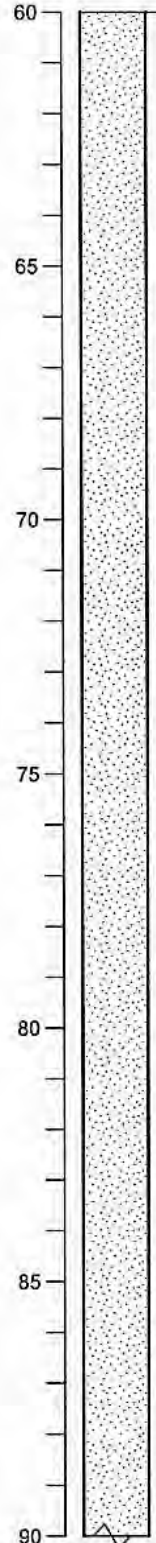
REVISED DATE

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
186 ft.



@ 60 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4)

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 74 ft.: Change to YELLOWISH BROWN (10YR 5/6) Loose, wet

@ 80 ft.: Similar to above

@ 85 ft.: Similar to above

@ 87 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
Log of Boring MW-BW-44-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A56**

DRAWN  
MBP

JOB NUMBER  
55596 001701

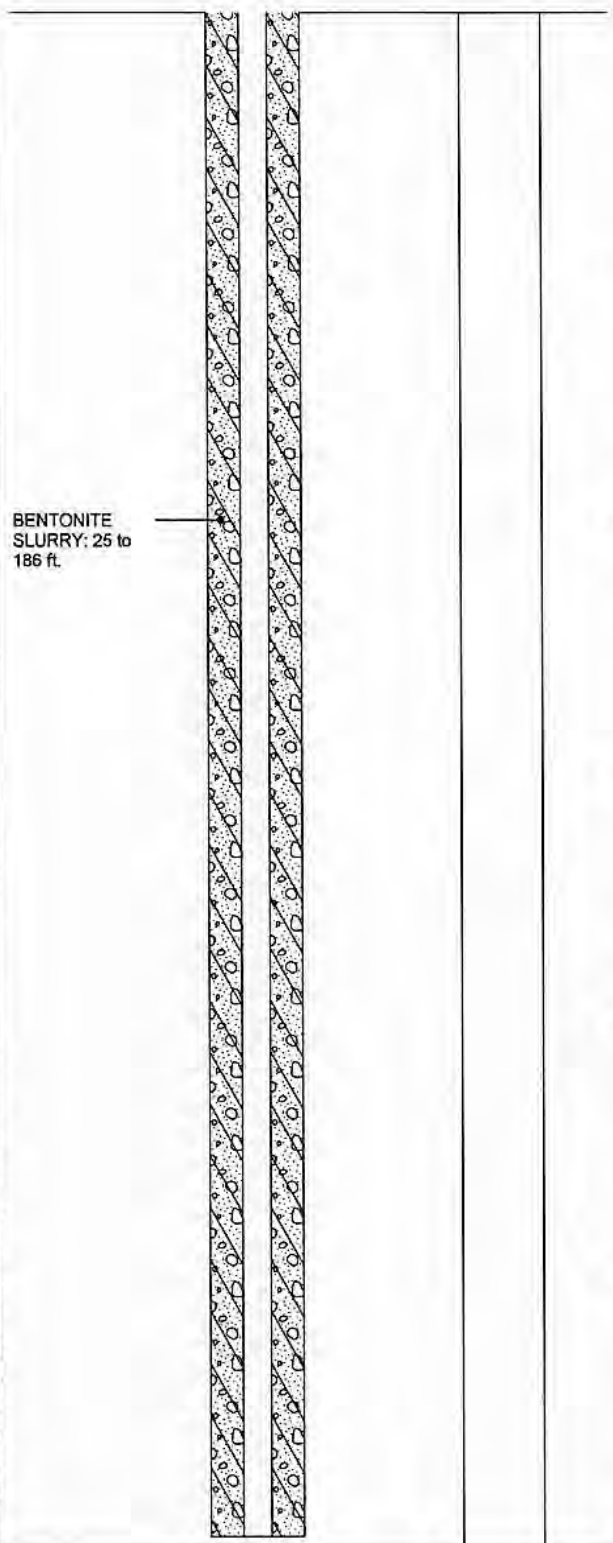
APPROVED  
*MDT/cun*

DATE  
11/04

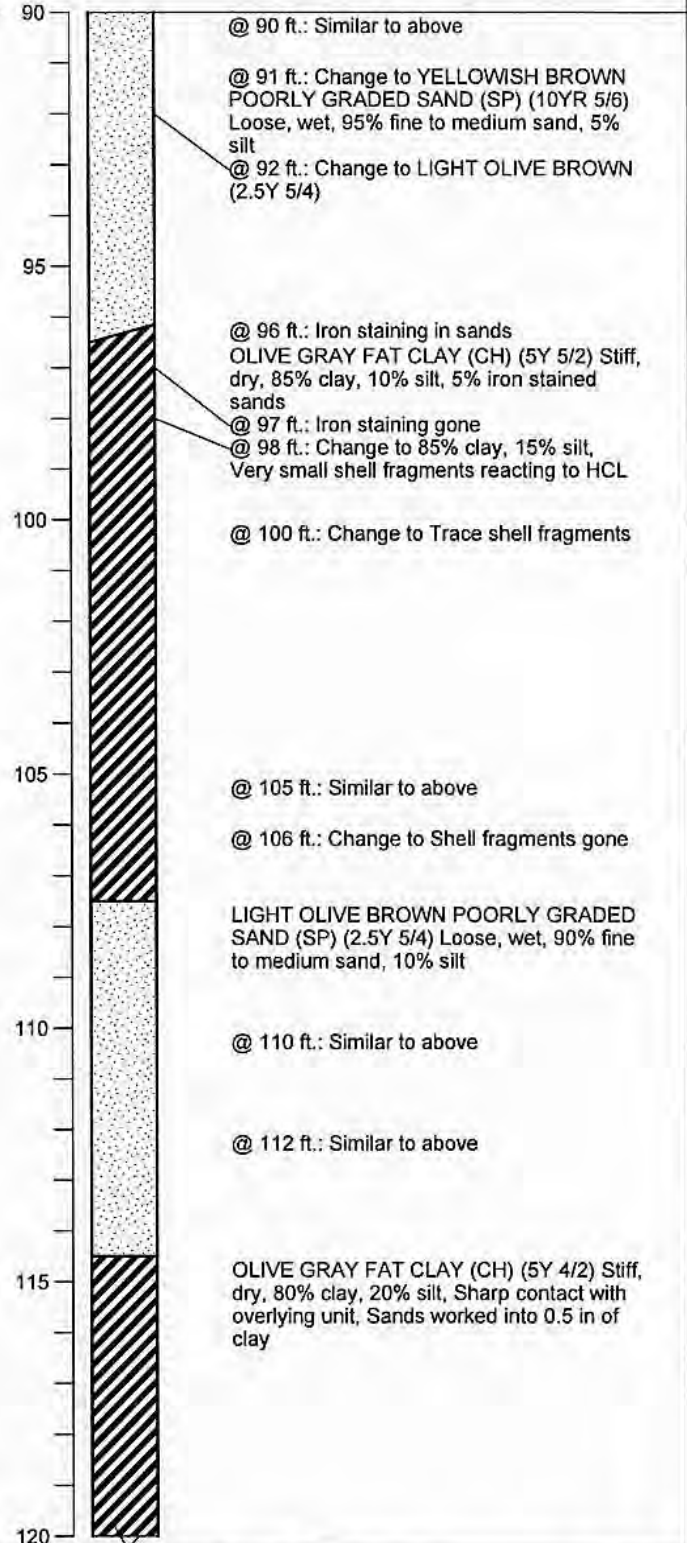
REVISED DATE

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 186 ft.



BORING\_WELL\_OUCTP OUCTPVS.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-44-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A56**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MOT/cmr*

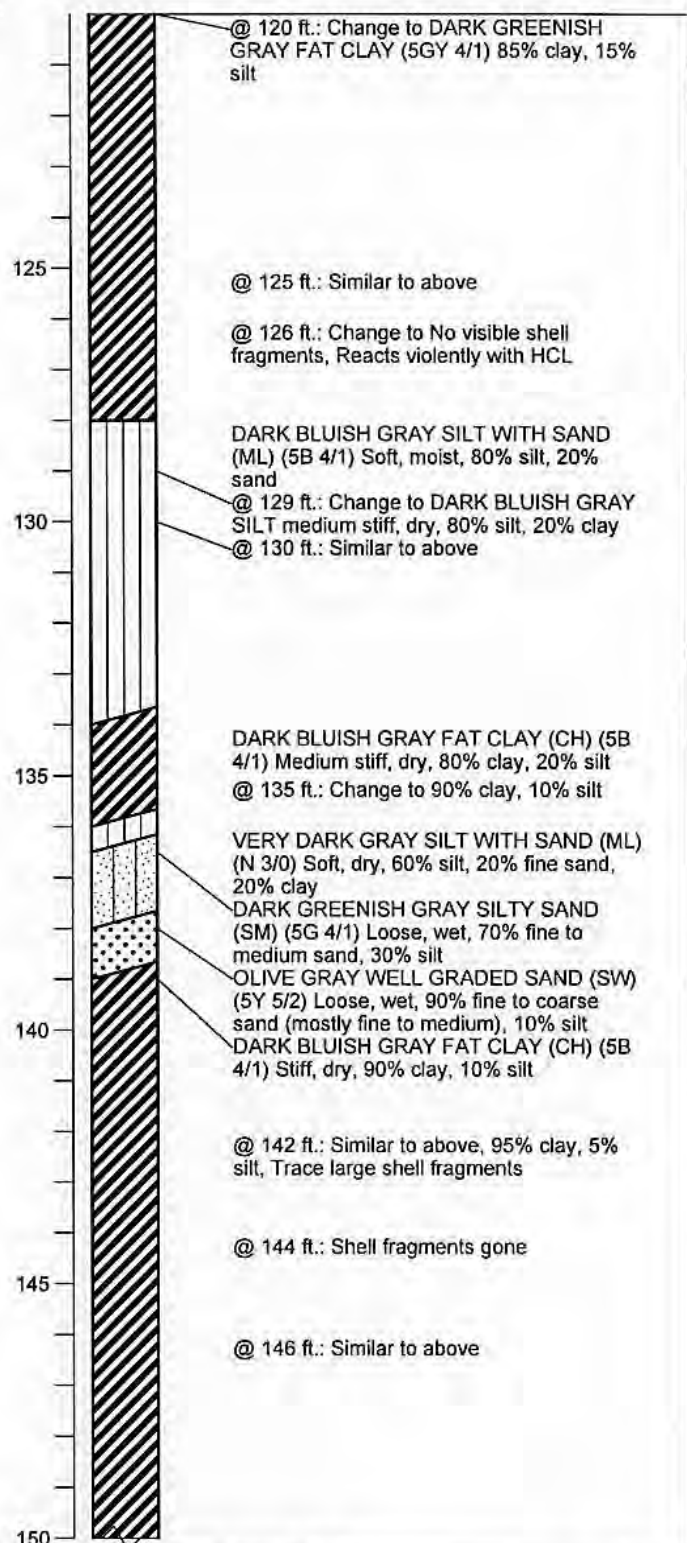
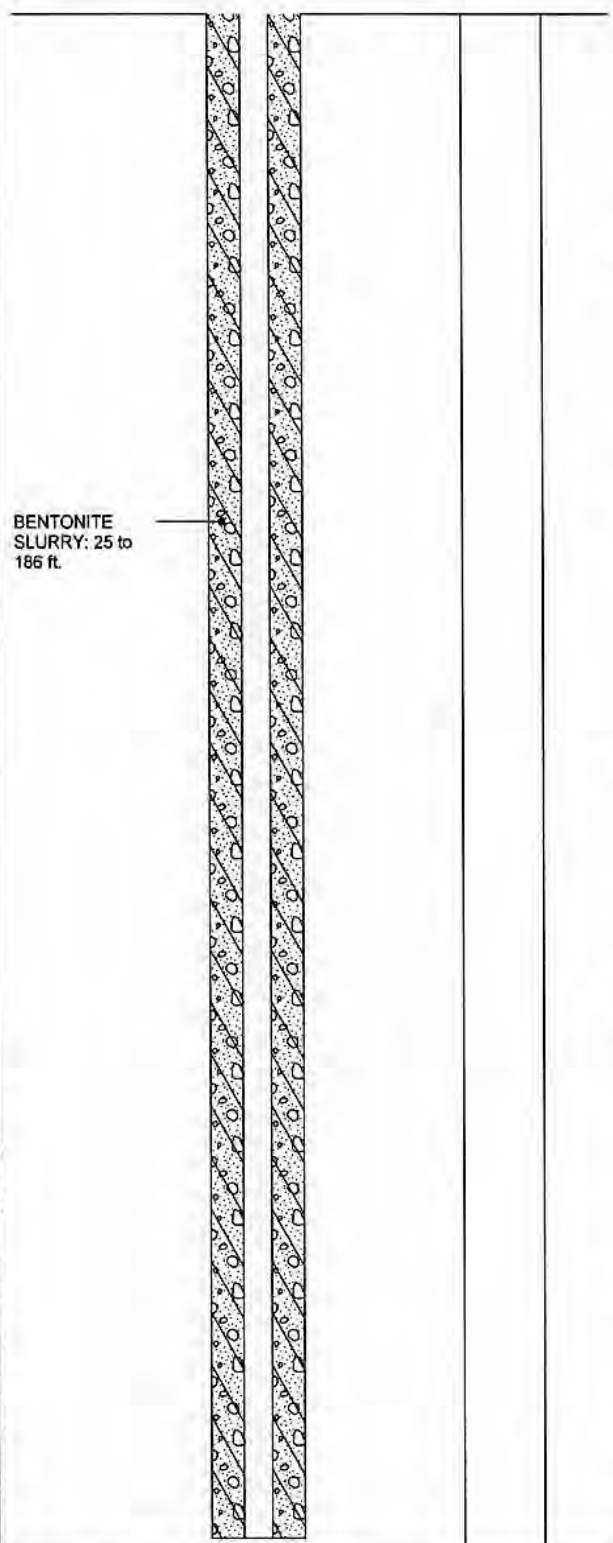
DATE  
 11/04

REVISED DATE



Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

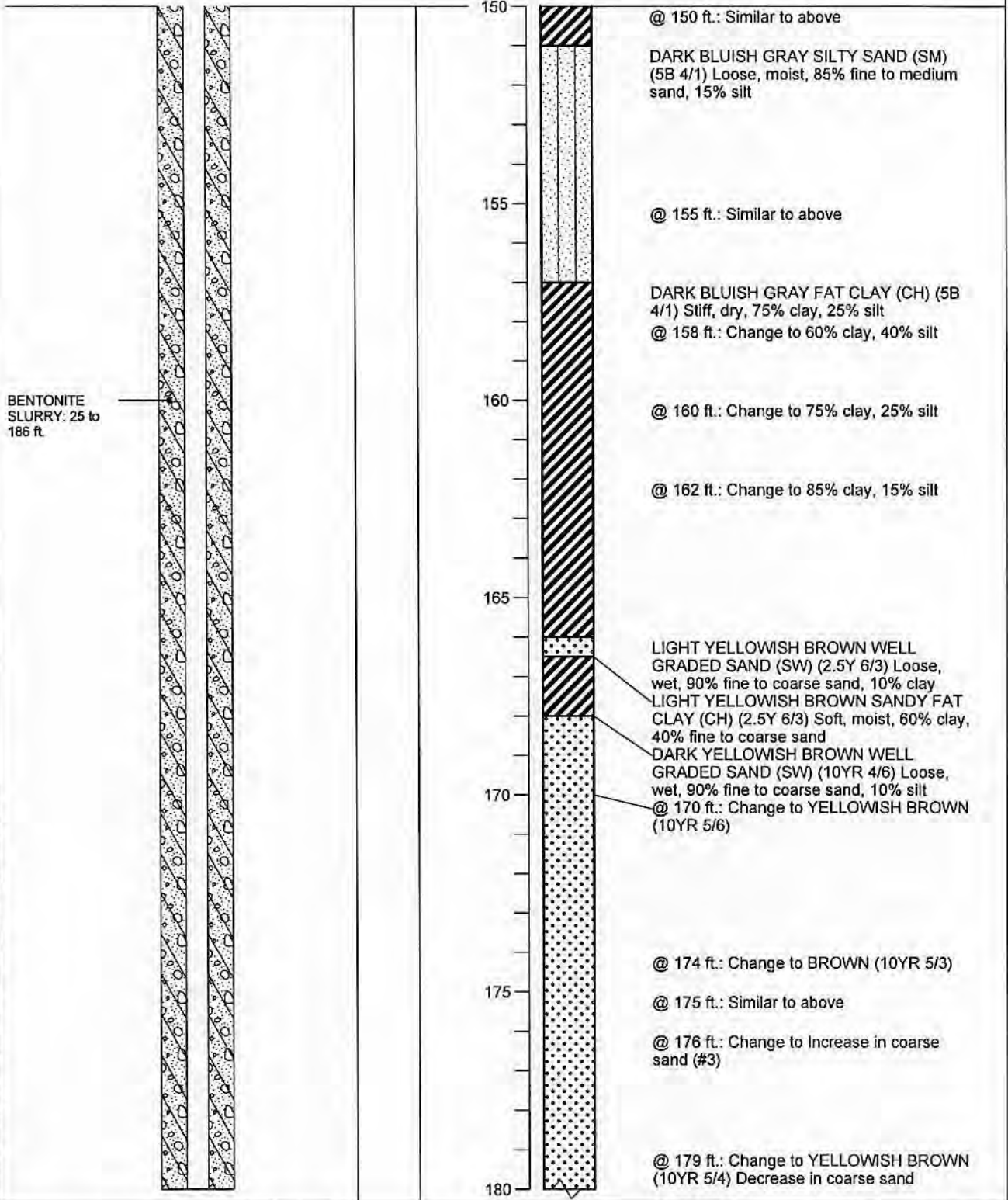
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 DRAWN MBP  
 JOB NUMBER 55596 001701

**Well Construction Details and Log of Boring MW-BW-44-180**  
 OUCTP  
 Fort Ord, California  
 APPROVED *MBT/can*  
 DATE 11/04

PLATE  
**A56**  
 REVISED DATE

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-44-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A56**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED

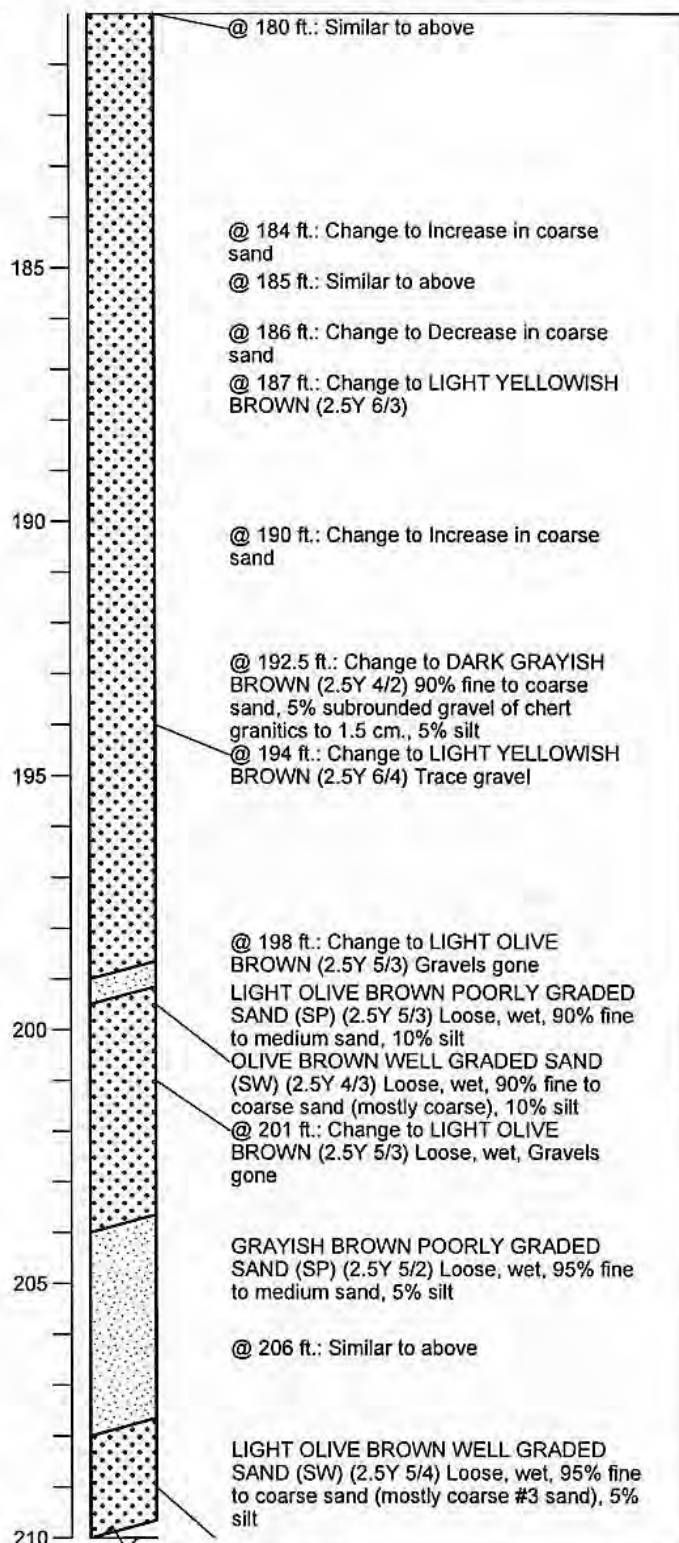
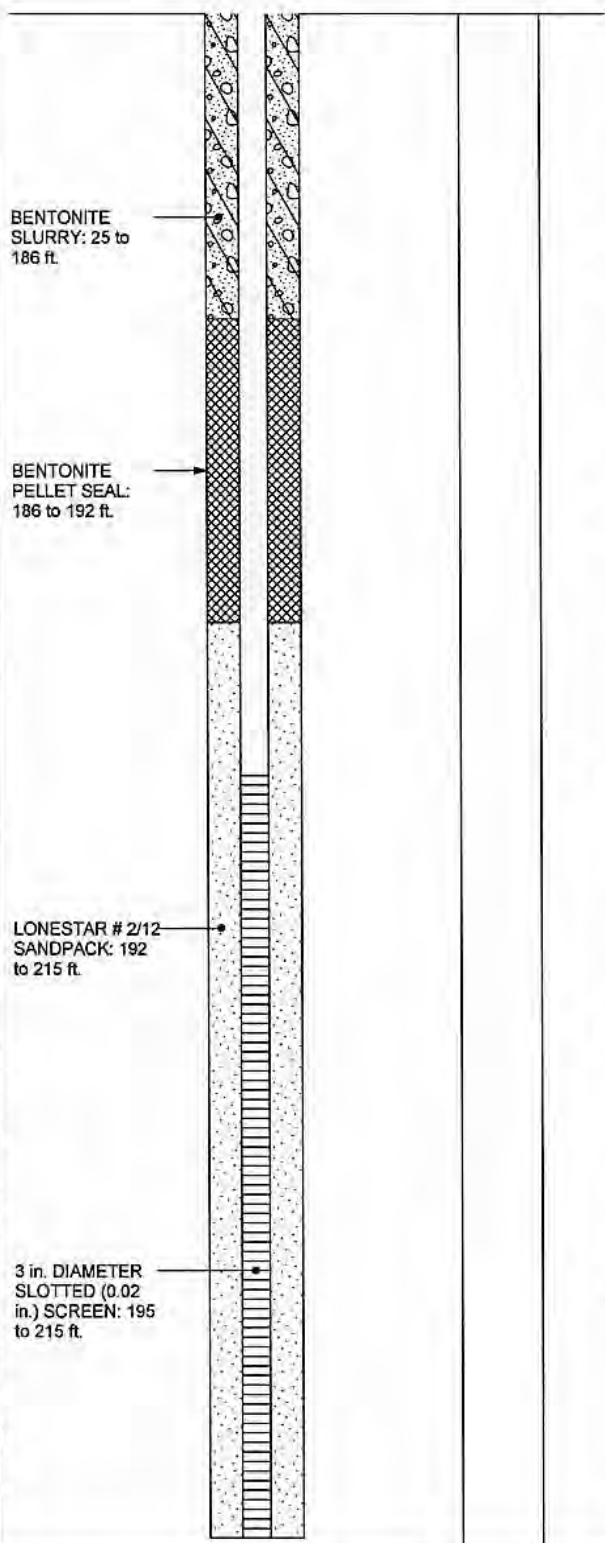
*MBP / cur*

DATE  
11/04

REVISED DATE

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-44-180 PLATE  
 OUCTP

**MACTEC**

DRAWN MBP

JOB NUMBER 55596 001701

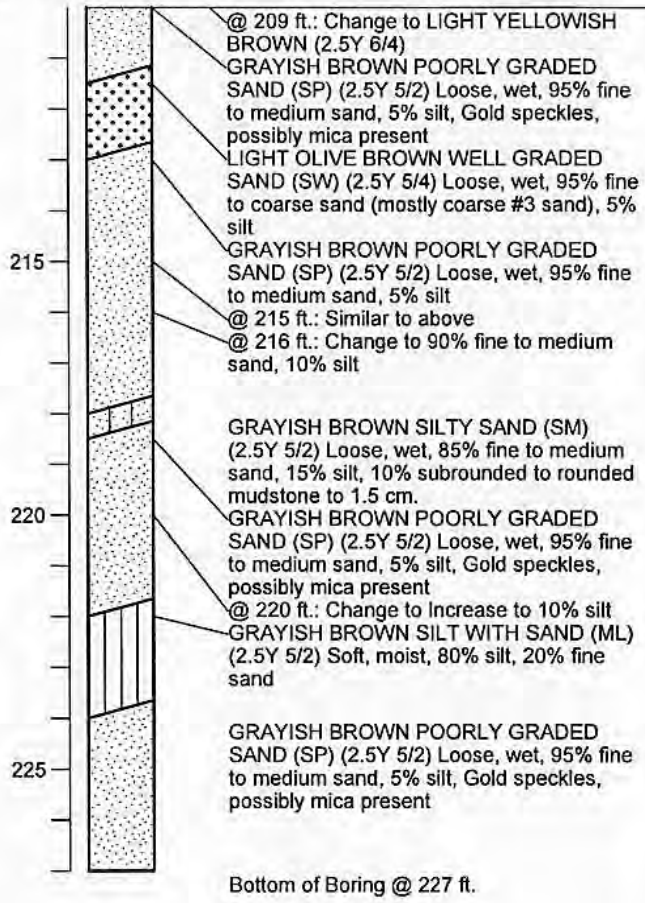
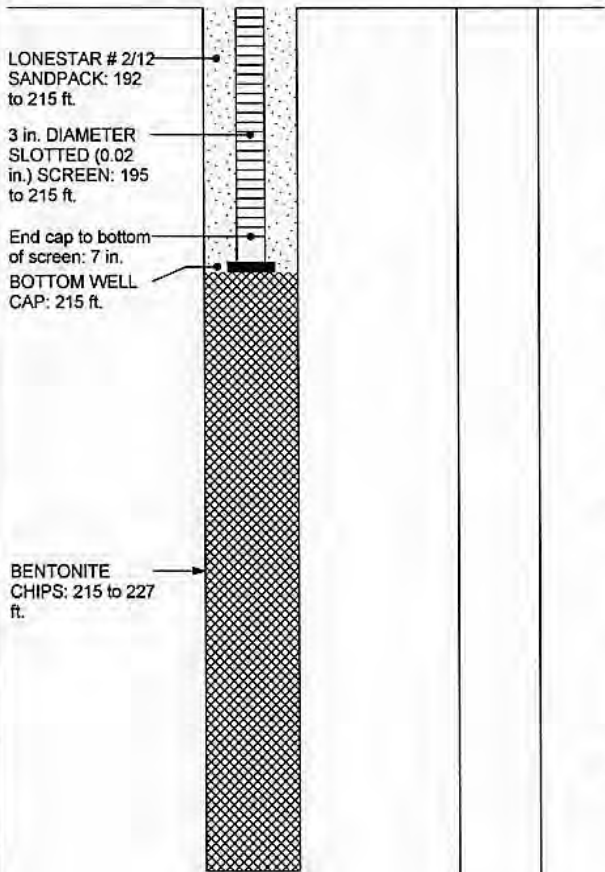
Fort Ord, California  
 APPROVED *MDT / can*

DATE 11/04

**A56**  
 REVISED DATE

Completion Date 2/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 147.57 ft. Hole Dia. 7 in.  
 Northing 2139826.2 Easting 5747239.36

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-44-180**  
 OUCTP

PLATE

**MACTEC**  
 DRAWN: MBP  
 JOB NUMBER: 55596 001701

Fort Ord, California  
 APPROVED: *MDT/Car*

**A56**  
 DATE: 11/04  
 REVISED DATE:

Top of PVC Casing  
Elev. 79.30 ft.

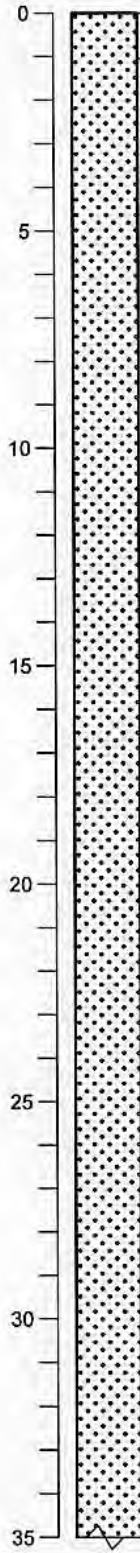
Completion Date 5/25/2001  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 77.50 ft. Hole Dia. 12 in.  
Northing 2144011.343 Easting 5743652.176

GROUND SURFACE

5 in. DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: +1.8 to  
52.3 ft.  
12 in. DIAMETER  
BOREHOLE: +1.8  
to 83 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 42 ft.

Depth (ft.)  
Sample



BROWNISH YELLOW WELL GRADED  
SAND (SW) (10YR 6/6) Loose, dry, 50%  
fine sand, 30% medium sand, 10% fines,  
10% organics, trace coarse sand  
@ 1 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/6)

@ 5 ft.: Change to DARK YELLOWISH  
BROWN (10YR 3/4) 50% fine sand, 40%  
subangular medium sand, 10% silt, no odor

@ 7 ft.: Change to OLIVE YELLOW (2.5Y  
6/6)

@ 10 ft.: Change to LIGHT YELLOWISH  
BROWN (2.5Y 6/3) 60% subangular  
medium sand, 40% fine sand

@ 15 ft.: Change to OLIVE YELLOW (2.5Y  
6/6) subrounded medium sand

@ 20 ft.: Trace coarse sand

@ 25 ft.: Change to 65% fine sand, 30%  
medium sand, 5% silt, trace mica

@ 30 ft.: Change to 70% fine sand, 25%  
medium sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

Well Construction Details and  
Log of Boring MW-BW-44-A  
OUCTP

PLATE

**A57**

Fort Ord, California

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT / CWR*

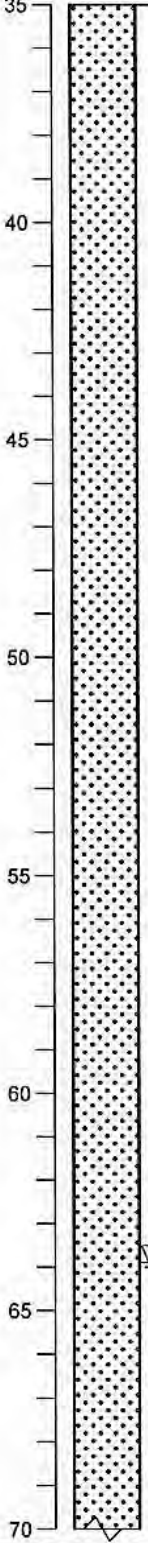
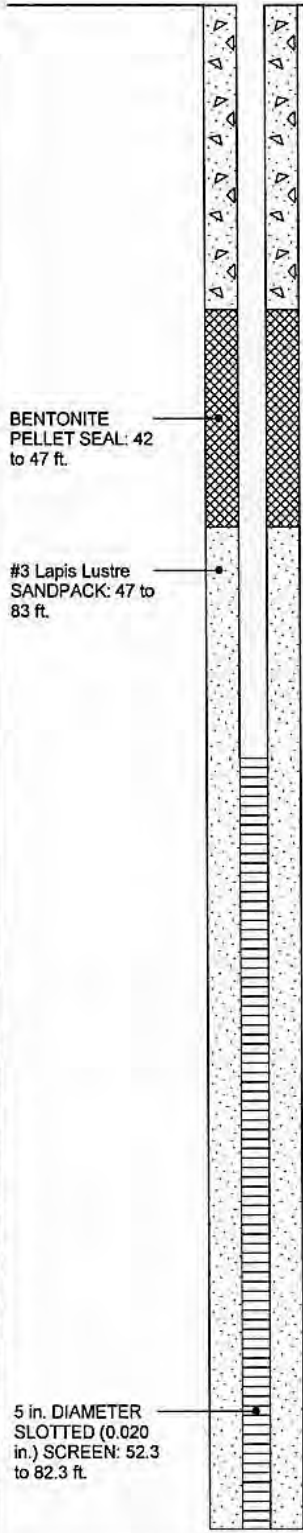
DATE  
11/04

REVISED DATE



Completion Date 5/25/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 77.50 ft. Hole Dia. 12 in.  
 Northing 2144011.343 Easting 5743652.176

Depth (ft.)  
 Sample



@ 35 ft.: Change to slightly moist, 75% fine sand, 15% medium sand, 10% silt, no odor

@ 40 ft.: Change to medium dense

@ 47 ft.: Driller notes slower drilling rate

@ 55 ft.: Change to moist, trace coarse sand (subrounded) and mica

@ 59 ft.: Driller notes change, possibly water

@ 65 ft.: Change to 65% fine sand, 20% medium sand, 5% coarse sand, 10% silt, wet

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-44-A  
 OUCTP

PLATE



MACTEC

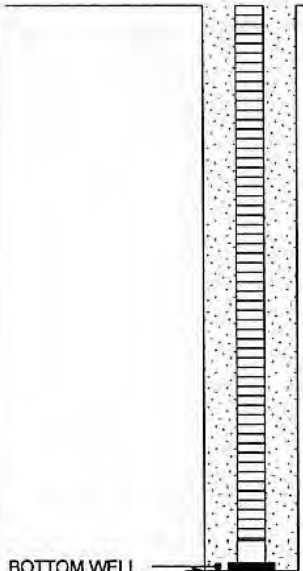
Fort Ord, California

**A57**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MAJ / con</i>	11/04	

Completion Date 5/25/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 77.50 ft. Hole Dia. 12 in.  
 Northing 2144011.343 Easting 5743652.176

Depth (ft.)  
 Sample



BOTTOM WELL  
 CAP: 83 ft.  
 Hole cleaned out to  
 83 ft.

70  
 75  
 80



@ 75 ft.: Driller notes possible gravel

@ 80 ft.: Driller notes slower drilling

OLIVE FAT CLAY (CH) (5Y 5/4) 80% clay,  
 20% fine sand  
 Bottom of boring at 83 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-44-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A57**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT / C...</i>	11/04	

Completion Date 2/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 140.93 ft. Hole Dia. 7 in.  
 Northing 2139732.89 Easting 5747773.43

Top of PVC Casing  
 Elev. 140.03 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at 1  
 ft. below ground  
 level

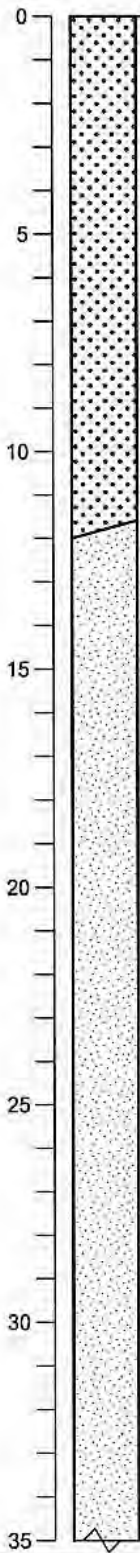
7 in. DIA.  
 BOREHOLE: 0 to  
 196 ft.

3 in. DIA.  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 1 to  
 175.5 ft.

BENTONITE  
 CEMENT SEAL: 0  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 168 ft.

Depth (ft.)  
 Sample



VERY DARK GRAY WELL GRADED SAND  
 (SW) (2.5Y 3/1) Loose, Dry, 90% fine to  
 coarse sand, 10% silt

@ 5 ft.: Similar to above

@ 8 ft.: Change to DARK GRAYISH  
 BROWN (10YR 4/2) Loose, dry

@ 10 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 95% fine  
 to medium sand, 5% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

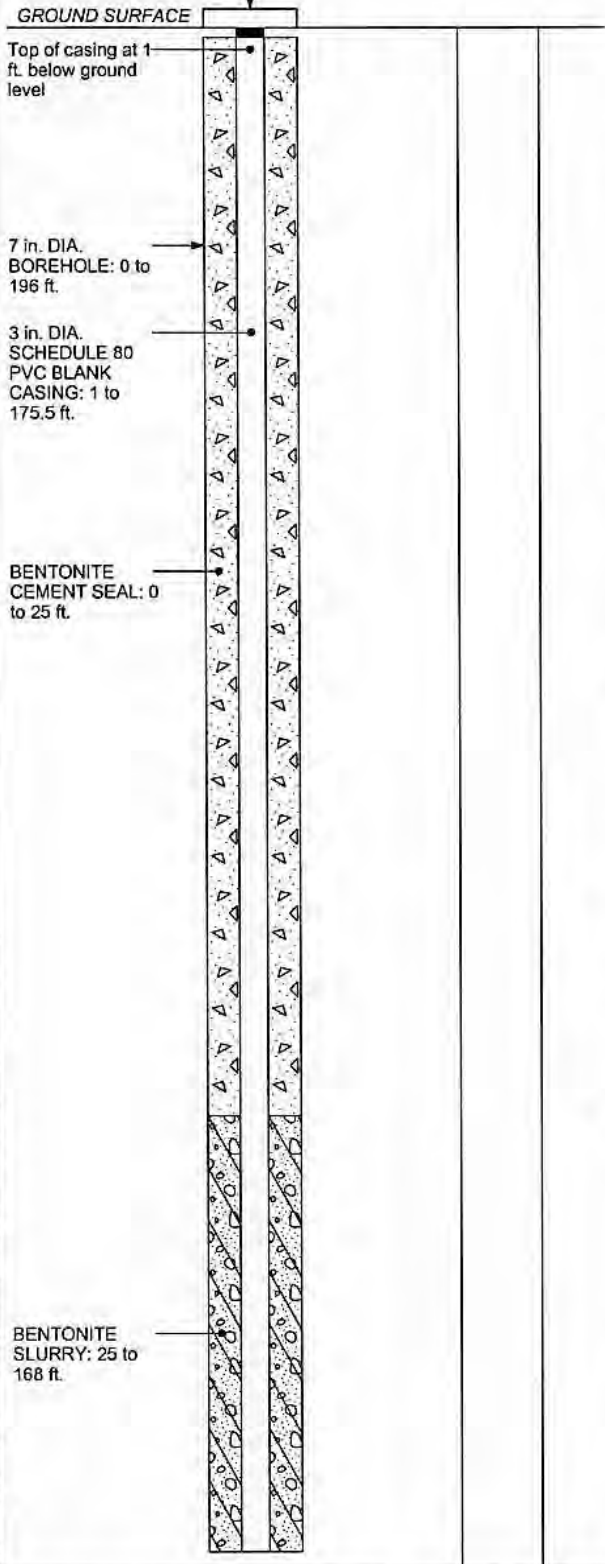
@ 25 ft.: Similar to above

@ 28 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6)

@ 30 ft.: Similar to above

@ 32 ft.: Similar to above

BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/31/05



**Well Construction Details and  
 Log of Boring MW-BW-45-180**  
 OUCTP

PLATE



Fort Ord, California

**A58**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

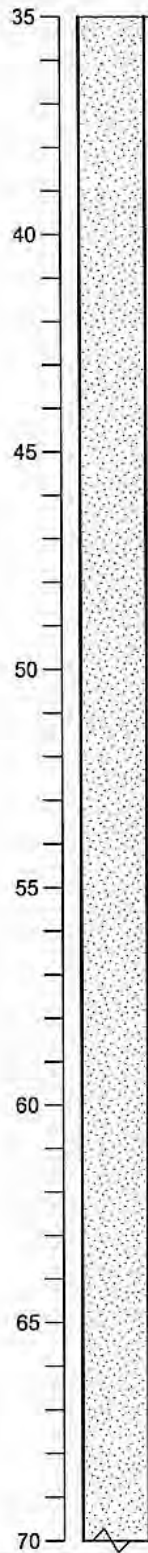
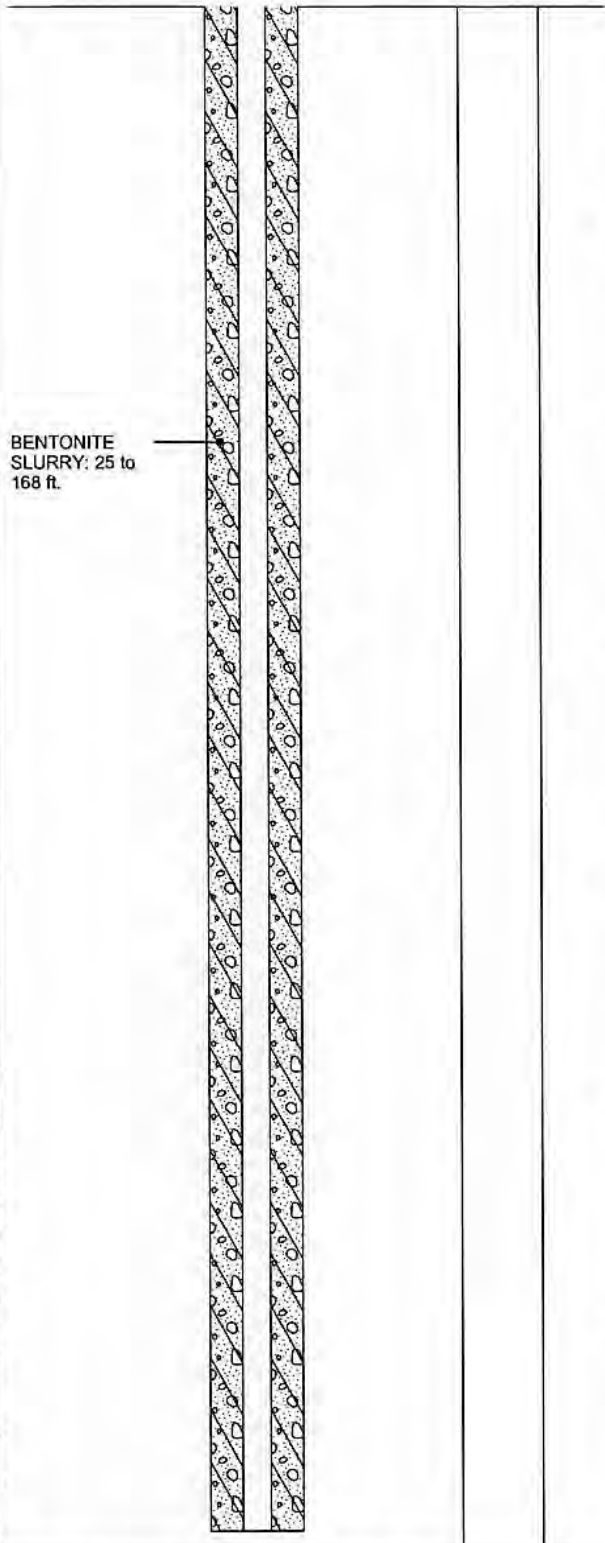
APPROVED  
*MOT / ur*

DATE  
 1/05

REVISED DATE

Completion Date 2/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 140.93 ft. Hole Dia. 7 in.  
 Northing 2139732.89 Easting 5747773.43

Depth (ft.)  
Sample



@ 25 ft.: Similar to above

@ 40 ft.: Change to DARK YELLOWISH BROWN (10YR 5/6)

@ 45 ft.: Similar to above

@ 50 ft.: Similar to above

@ 52 ft.: Change to BROWNISH YELLOW (10YR 6/6)

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 67 ft.: Change to Moist

@ 68 ft.: Change to Wet

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/31/05

Well Construction Details and Log of Boring MW-BW-45-180  
 OUCTP

PLATE



Fort Ord, California

**A58**

DRAWN  
MBP

JOB NUMBER  
55596 001701

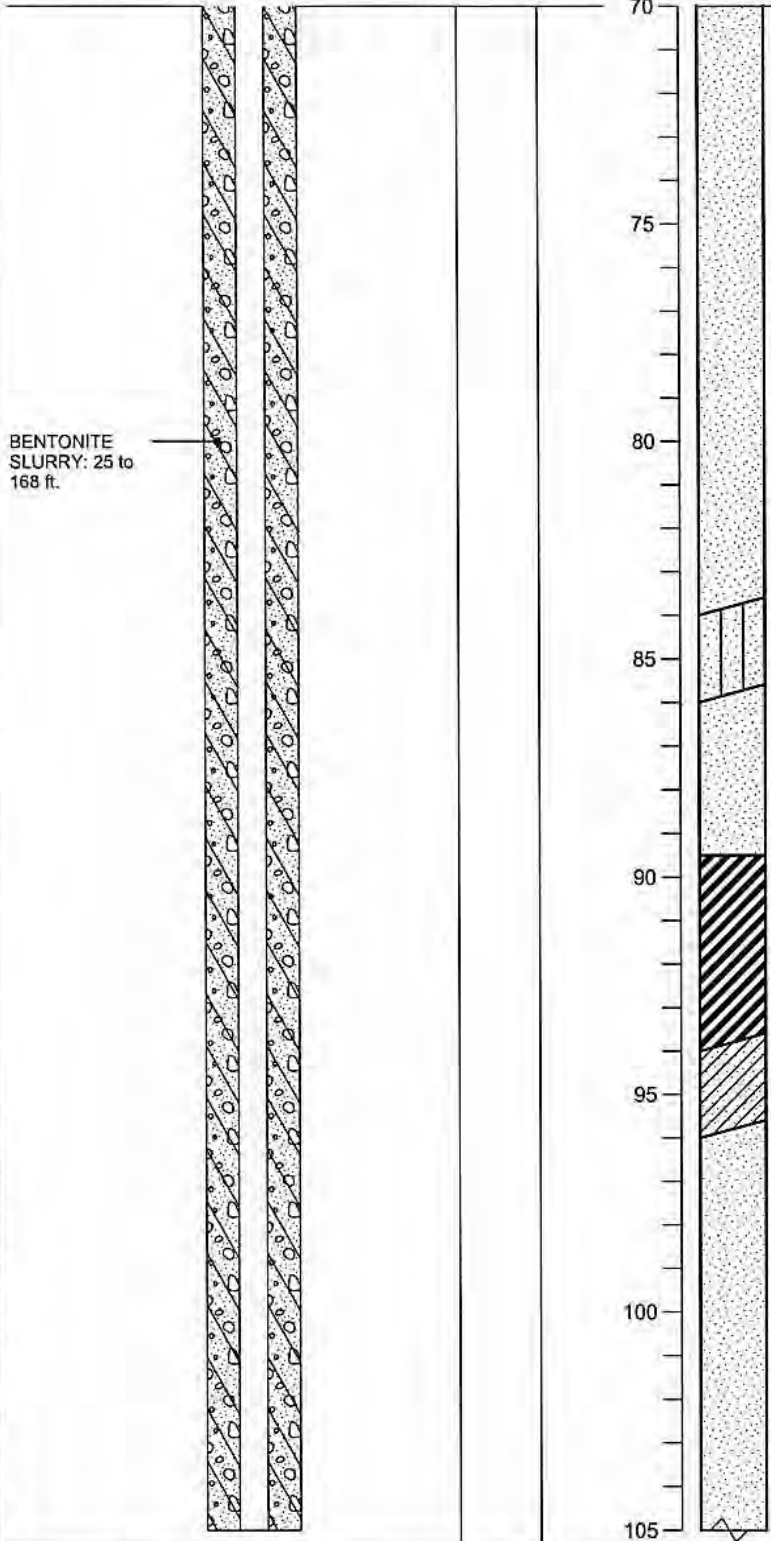
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*MDT / lmr*

DATE  
1/05

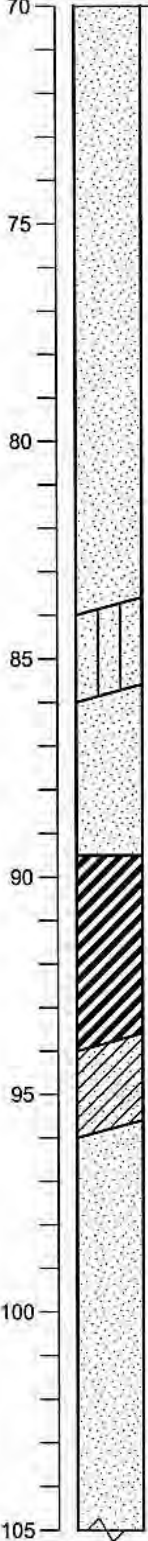
REVISED DATE

Completion Date 2/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 140.93 ft. Hole Dia. 7 in.  
 Northing 2139732.89 Easting 5747773.43

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 168 ft.



@ 72 ft.: Similar to above

@ 74 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/6)

@ 80 ft.: Similar to above

LIGHT OLIVE BROWN SILTY SAND (SM)  
 (2.5Y 5/4) Loose, wet, 85% fine to medium  
 sand, 15% silt

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, wet, 95%  
 fine to coarse sand, 5% silt

LIGHT OLIVE BROWN FAT CLAY (CH)  
 (2.5Y 5/4) Stiff, dry, 85% clay, 15% silt, Iron  
 staining

@ 92 ft.: Change to 90% clay, 10% silt

LIGHT OLIVE BROWN CLAYEY SAND  
 (SC) (2.5Y 5/3) Medium stiff, moist, 80%  
 fine to medium sand, 20% clay

LIGHT OLIVE BROWN POORLY GRADED  
 SAND (SP) (2.5Y 5/3) Loose, moist, 90%  
 fine to medium sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/31/05



DRAWN MBP JOB NUMBER 55596 001701

Well Construction Details and  
 Log of Boring MW-BW-45-180  
 OUCTP

Fort Ord, California

APPROVED MDT/cm

DATE 1/05

PLATE

**A58**

REVISED DATE



Completion Date 2/24/2003

Drilling Method Sonic

Logged by D. Browne

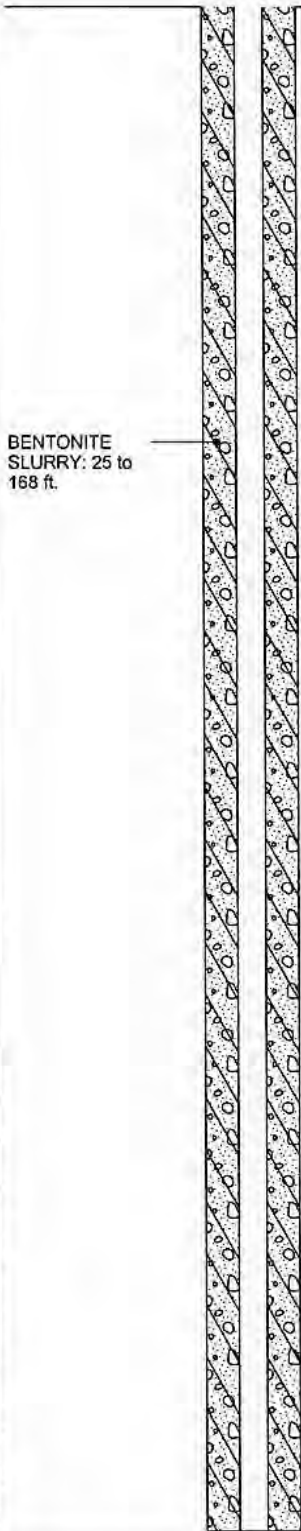
Surface Elevation 140.93 ft.

Hole Dia. 7 in.

Northing 2139732.89

Easting 5747773.43

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
168 ft.



LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, moist, 90% fine to medium sand, 10% silt

OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 85% clay, 10% silt, 5% fine sand, sand has iron staining

@ 112 ft.: Similar to above

@ 115 ft.: Similar to above

@ 118 ft.: Change to Trace very small shell fragments, reaction with HCL

@ 120 ft.: Change to Increase to 30% silt

@ 124 ft.: Change to 85% clay, 15% silt

LIGHT OLIVE BROWN CLAYEY SAND (SC) (2.5Y 5/4) Loose, wet, 75% fine to medium sand, 25% clay

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, moist, 90% fine to medium sand, 10% silt

LIGHT OLIVE GRAY WELL GRADED SAND (SW) (5Y 6/2) Loose, wet, 95% fine to coarse sand, 5% silt

@ 132 ft.: Similar to above  
OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 90% clay, 10% silt

@ 136 ft.: Change to DARK BLUIISH GRAY (5B 4/1)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/31/05

Well Construction Details and  
Log of Boring MW-BW-45-180

PLATE

OUCTP

Fort Ord, California

**A58**



DRAWN  
MBP

JOB NUMBER  
55596 001701

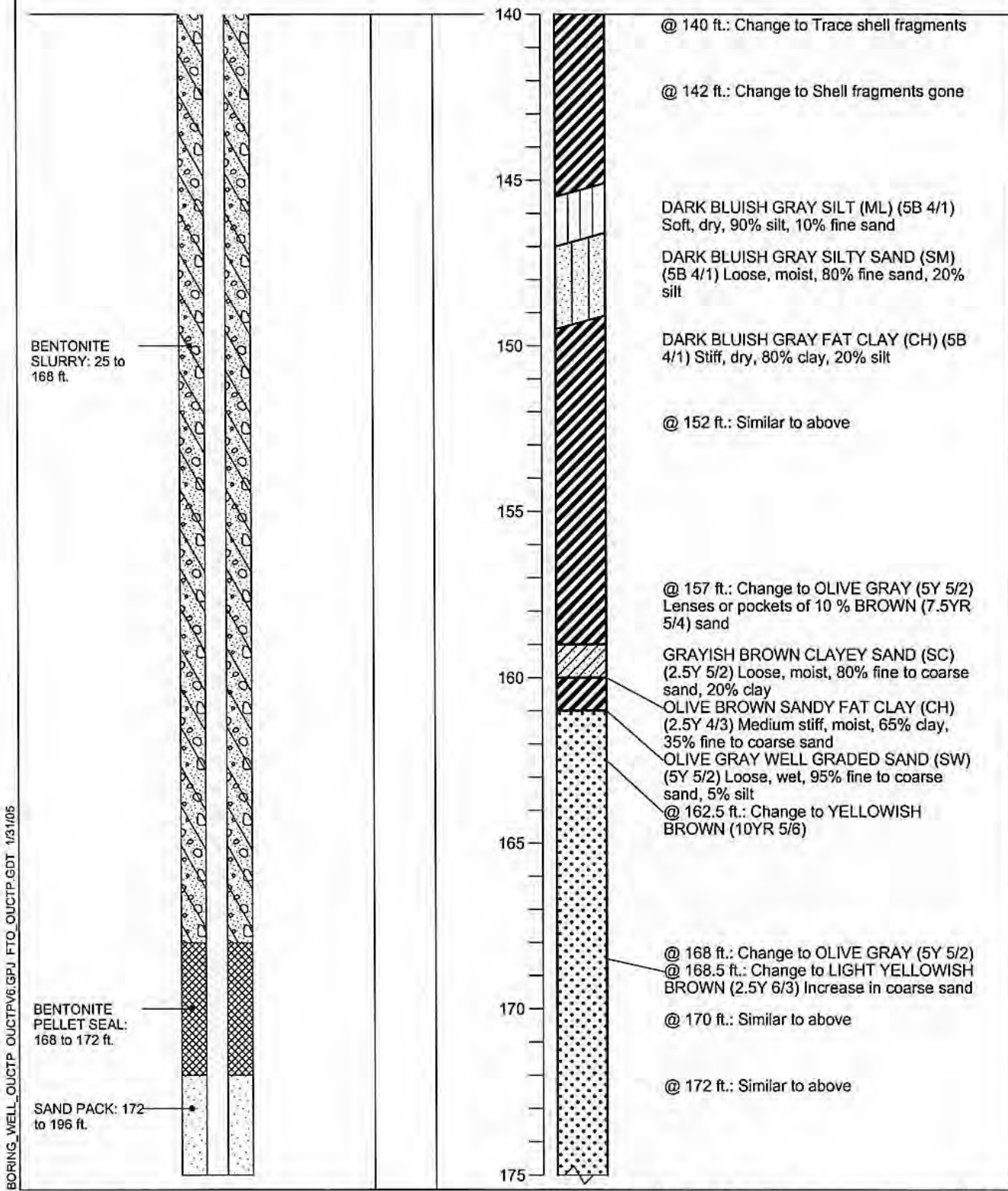
APPROVED  
*MST / am*

DATE  
1/05

REVISED DATE

Completion Date 2/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 140.93 ft. Hole Dia. 7 in.  
 Northing 2139732.89 Easting 5747773.43

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/31/05

**MACTEC**  
 DRAWN: MBP      JOB NUMBER: 55596 001701

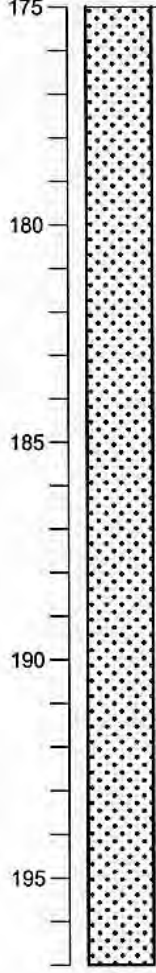
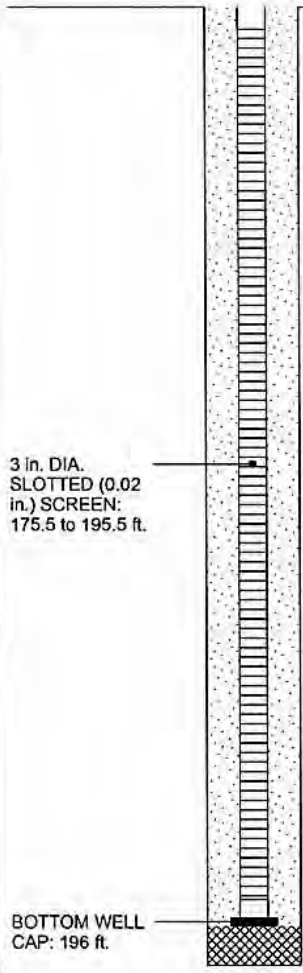
**Well Construction Details and Log of Boring MW-BW-45-180**  
 OUCTP  
 Fort Ord, California

APPROVED: *MDT / jcw*      DATE: 1/05

PLATE **A58**  
 REVISED DATE:

Completion Date 2/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 140.93 ft. Hole Dia. 7 in.  
 Northing 2139732.89 Easting 5747773.43

Depth (ft.)  
Sample



@ 175 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 @ 176.5 ft.: Change to OLIVE GRAY (5Y 5/2)  
 @ 178 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/3) #3 sand  
 @ 180 ft.: Similar to above  
 @ 182 ft.: Change to 90% fine to coarse sand, 5% subrounded gravels of chert and quartz to 2 cm., 5% silt  
 @ 184 ft.: Change to Trace gravels  
 @ 186 ft.: Change to OLIVE BROWN (2.5Y 4/3)  
 @ 188 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 @ 190 ft.: Change to Decrease in coarse sand, no gravels  
 @ 192 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/3) Loose, wet, Trace gravels, Increase in coarse sand  
 @ 194 ft.: Change to Decrease in coarse sand  
 Bottom of Boring @ 197 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/31/05

**MACTEC**  
 DRAWN MBP      JOB NUMBER 55596 001701

**Well Construction Details and Log of Boring MW-BW-45-180**  
 OUCTP  
 Fort Ord, California  
 APPROVED *MDT/am*      DATE 1/05

PLATE  
**A58**  
 REVISED DATE

Completion Date 5/14/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 77.84 ft. Hole Dia. 12 in.  
 Northing 2143734.628 Easting 5743655.455

Top of PVC Casing  
 Elev. 77.40 ft.  
 CHRISTY  
 BOX

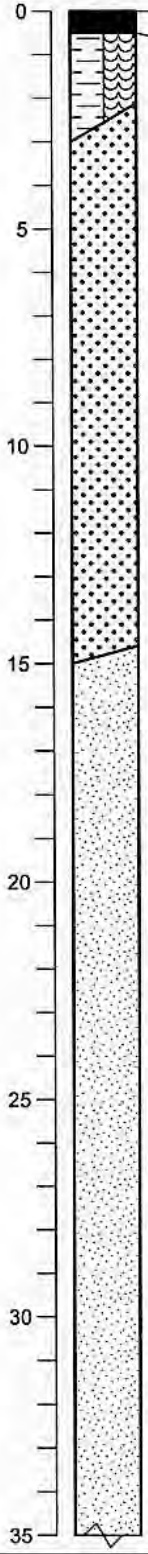
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: -0.44 to  
 57 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 88 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 46.5 ft.

Depth (ft.)  
 Sample



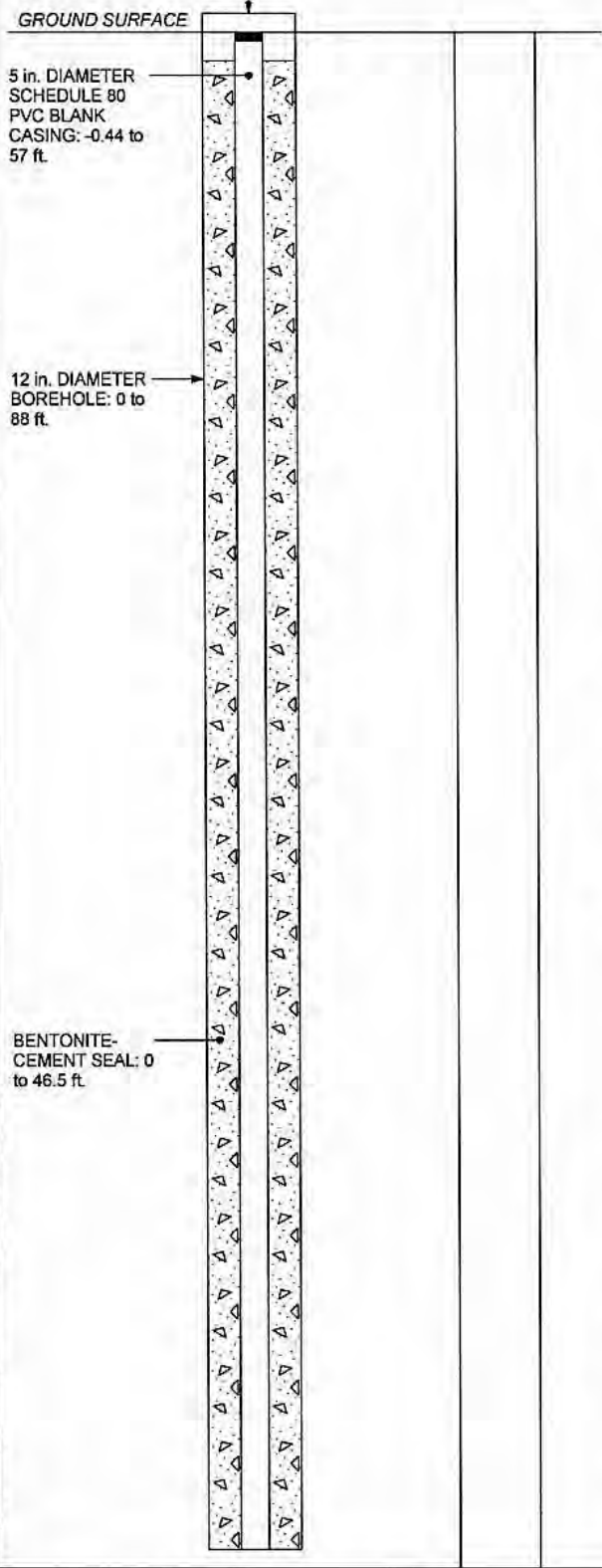
CEMENT SIDEWALK 0 to 0.5 ft.  
 BROWN SANDY ORGANIC SOIL (OL-OH)  
 (10YR 5/3) Loose, moist, 50% organic soil,  
 50% fine to medium sand

LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 6/4) Loose,  
 dry, 100% medium to coarse sand  
 @ 5 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4)

LIGHT YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (10YR 6/4) Loose,  
 slightly moist, 100% fine sand

@ 30 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) moist

BORING WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
 Log of Boring MW-BW-45-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A59**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

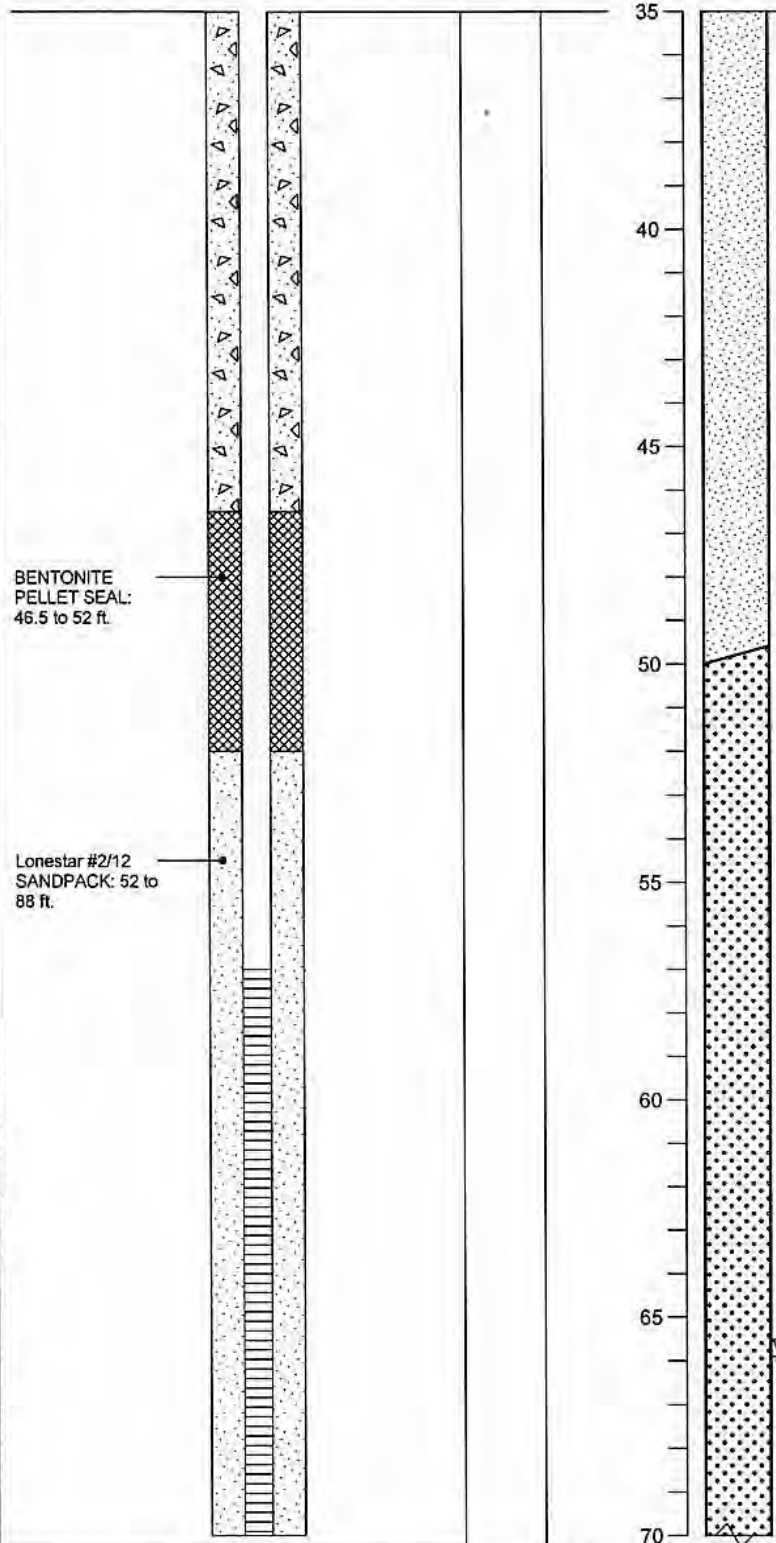
APPROVED  
*MDT/cmr*

DATE  
 11/04

REVISED DATE

Completion Date 5/14/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 77.84 ft. Hole Dia. 12 in.  
 Northing 2143734.628 Easting 5743655.455

Depth (ft.)  
Sample



@ 35 ft.: Change to trace mica, moist

@ 39-40 ft.: Driller notes a change - water

@ 45 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4) dense, 95% fine sand, 5% silt

@ 47-49 ft.: Driller notes possible paleosol (brown clayey soil recovered in cuttings)


DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Dense, wet, 90% fine to medium sand, 5% silt

@ 55 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 60 ft.: Grain size increasing

@ 68 ft.: Driller notes change (possible gravels)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

 **MACTEC**  
 DRAWN PCB      JOB NUMBER 55596 001701

**Well Construction Details and Log of Boring MW-BW-45-A**  
 OUCTP  
 Fort Ord, California

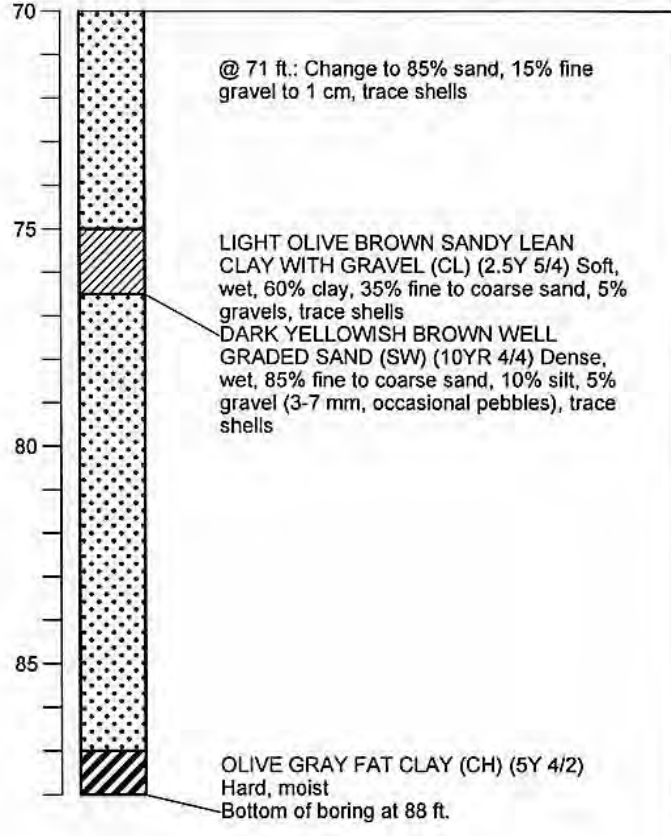
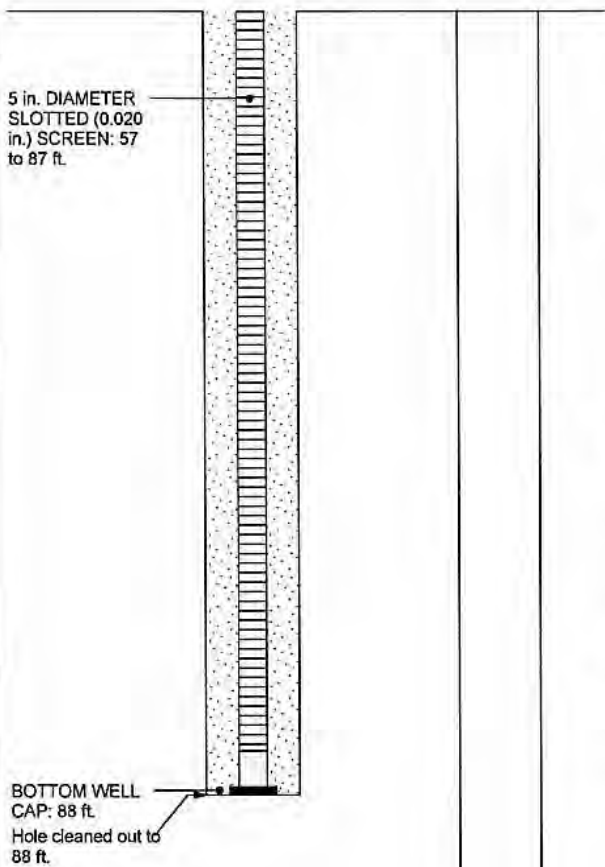
PLATE

**A59**  
 REVISED DATE

APPROVED *MDT / cm*      DATE 11/04



Completion Date 5/14/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 77.84 ft. Hole Dia. 12 in.  
 Northing 2143734.628 Easting 5743655.455



BORING\_WELL\_DUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

<b>MACTEC</b>		<b>Well Construction Details and Log of Boring MW-BW-45-A</b>	PLATE
		OUCTP	<b>A59</b>
		Fort Ord, California	
DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MDT / can</i>	DATE 11/04
			REVISED DATE

Completion Date 5/10/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 68.02 ft. Hole Dia. 12 in.  
 Northing 2143878.141 Easting 5743073.325

Top of PVC Casing  
 Elev. 67.72 ft.  
 CHRISTY  
 BOX

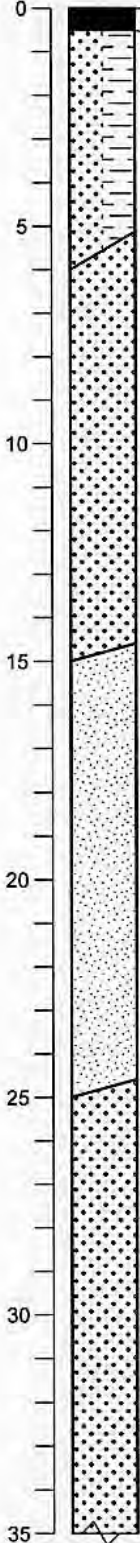
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: -0.30 to  
 53 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 85 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 43 ft.

Depth (ft.)  
 Sample



CEMENT SIDEWALK  
 DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) WITH ORGANIC  
 SOIL (OL) (10YR 4/4) Loose, moist, 60%  
 fine to medium sand, 40% organic soil

@ 4 ft.: Increasing sand

YELLOW WELL GRADED SAND (SW)  
 (2.5Y 7/6) Loose, dry, 95% fine to medium  
 sand, 5% silt

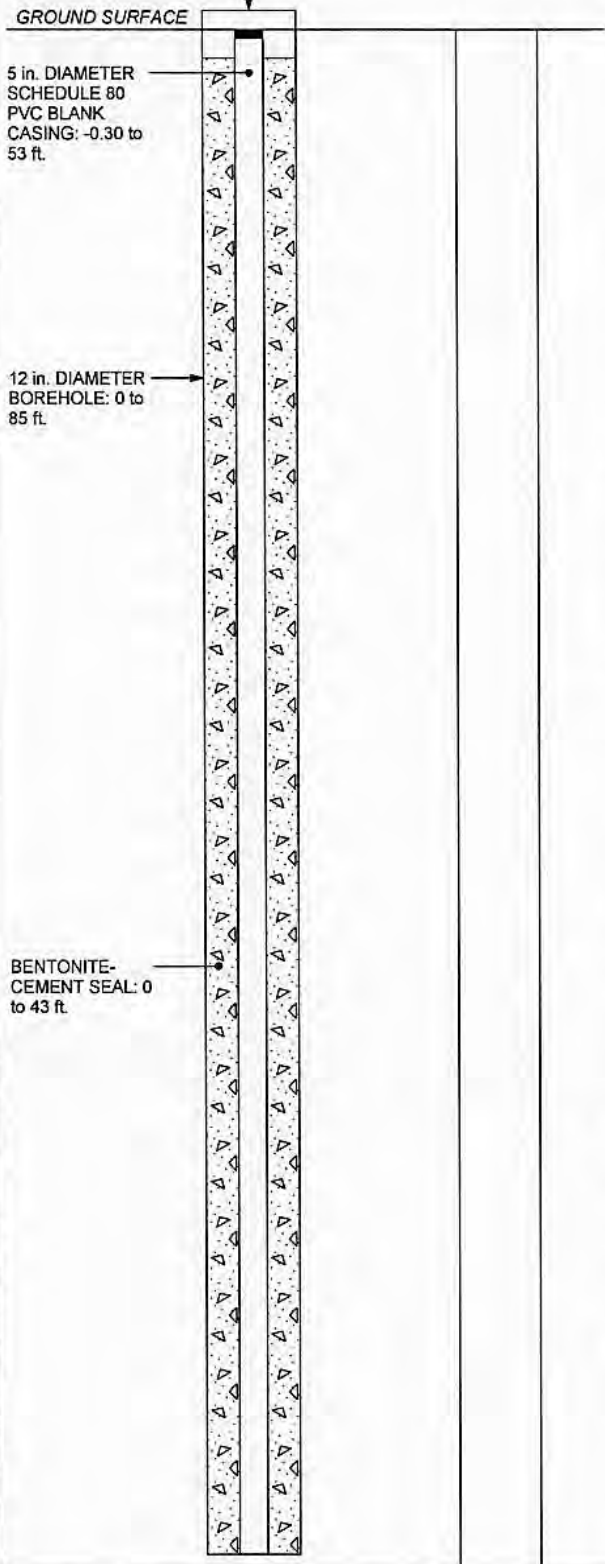
@ 10 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6) 100% fine to medium sand

OLIVE YELLOW POORLY GRADED SAND  
 (SP) (2.5Y 6/6) Medium dense, moist, 100%  
 fine sand

OLIVE YELLOW WELL GRADED SAND  
 (SW) (2.5Y 6/6) moist, 100% fine to medium  
 sand

@ 32 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6) 95% fine to medium sand, 5%  
 silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-46-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A60**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

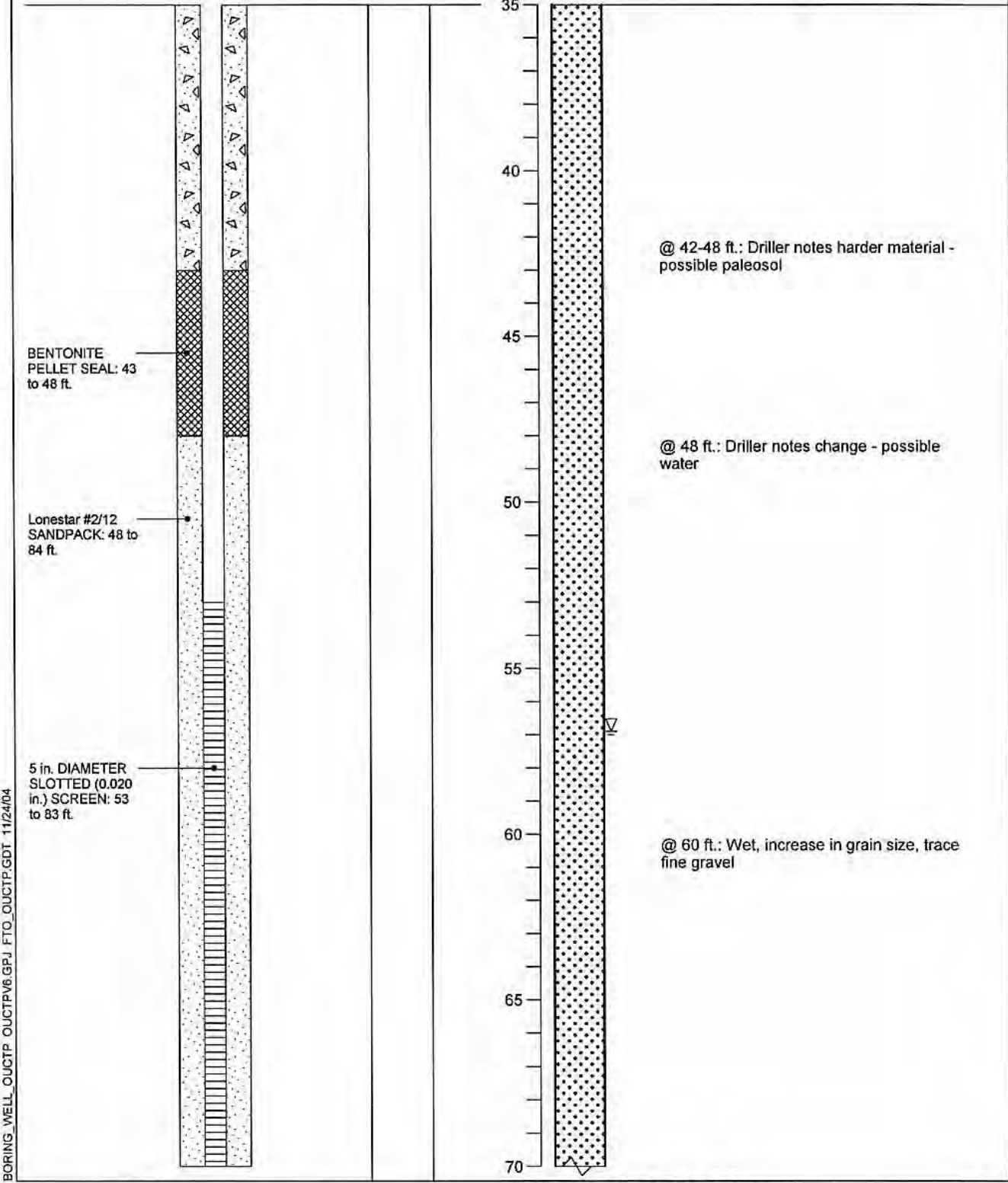
APPROVED  
*MDT/can*

DATE  
 11/04

REVISED DATE

Completion Date 5/10/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 68.02 ft. Hole Dia. 12 in.  
 Northing 2143878.141 Easting 5743073.325

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-46-A**  
 OUCTP

PLATE



**MACTEC**

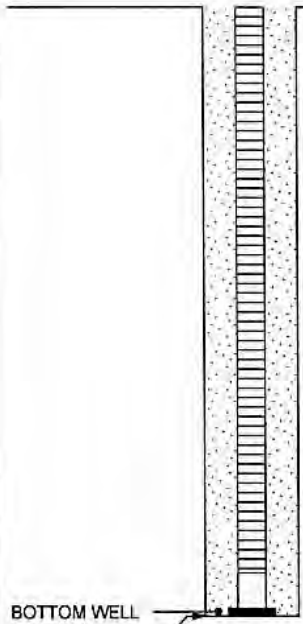
Fort Ord, California

**A60**

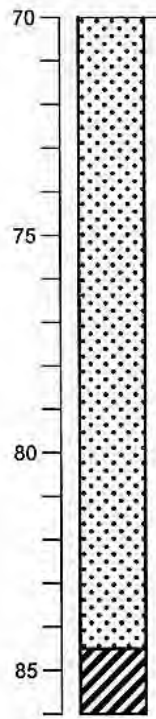
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MST/cwr</i>	11/04	

Completion Date 5/10/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 68.02 ft. Hole Dia. 12 in.  
 Northing 2143878.141 Easting 5743073.325

Depth (ft.)  
 Sample



BOTTOM WELL CAP: 84 ft.  
 Hole cleaned out to 84 ft.



@ 70 ft.: Change to 80% medium to coarse sand, 15% fine gravel to 5 mm, 5% silt, trace crushed shells

@ 75 ft.: Change to 85% medium to coarse sand, 15% fine gravel

@ 80 ft.: Decrease in grain size

DARK OLIVE GRAY FAT CLAY (CH) (5Y 3/2) Hard, slightly moist  
 Bottom of Boring at 86 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**MACTEC** Well Construction Details and Log of Boring MW-BW-46-A PLATE  
 OUCTP **A60**  
 Fort Ord, California DATE 11/04  
 DRAWN PCB JOB NUMBER 55596 001701 APPROVED MDT / car REVISED DATE

Top of PVC Casing  
Elev. 162.46 ft.

Completion Date 3/28/2003  
Drilling Method Sonic  
Logged by D. Browne  
Surface Elevation 163.08 ft. Hole Dia. 7 in.  
Northing 2138842.37 Easting 5747763.88

GROUND SURFACE

Top of casing at 1 ft. above ground level

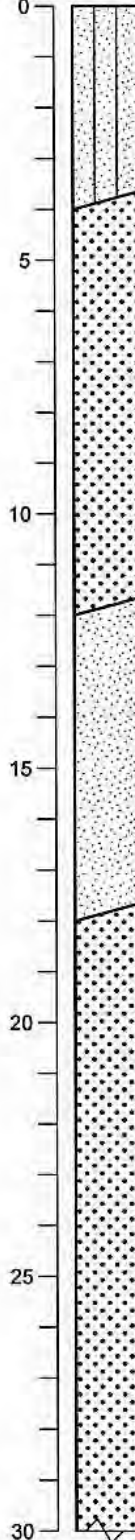
7 in. DIAMETER BOREHOLE: 0 to 247 ft.

3 DIAMETER SCHEDULE 40 PVC BLANK CASING: 1 to 226 ft.

BENTONITE-CEMENT SEAL: 0 to 25 ft.

BENTONITE SLURRY: 25 to 197 ft.

Depth (ft.)  
Sample



VERY DARK GRAY SILTY SAND (SM) (10YR 3/1) Loose, moist, 85% fine to coarse sand, 15% silt

@ 3 ft.: Change to BROWN (10YR 4/3)

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt

@ 10 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt

@ 16 ft.: Similar to above

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 90% fine to coarse sand, 10% silt

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-47-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A61**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/can*

DATE  
11/04

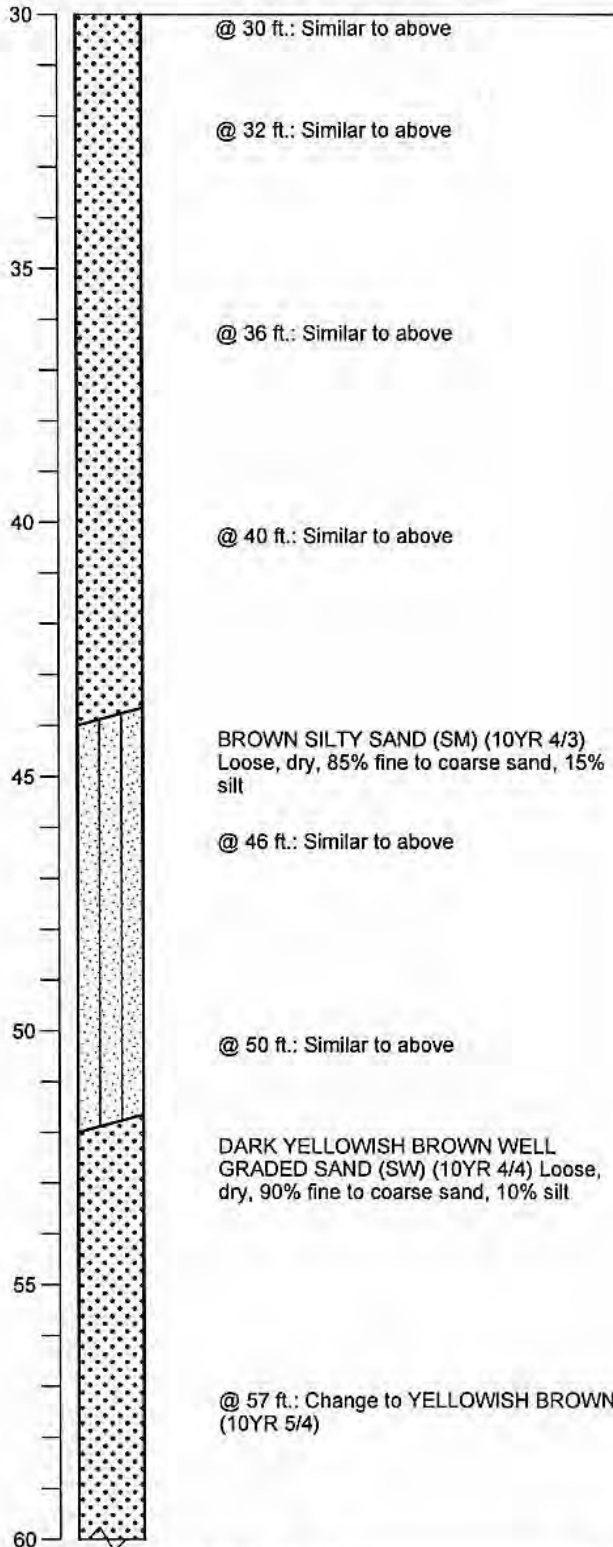
REVISED DATE



Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
Sample

BENTONITE  
SLURRY: 25 to  
197 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and  
Log of Boring MW-BW-47-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A61**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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*MDT / cmr*

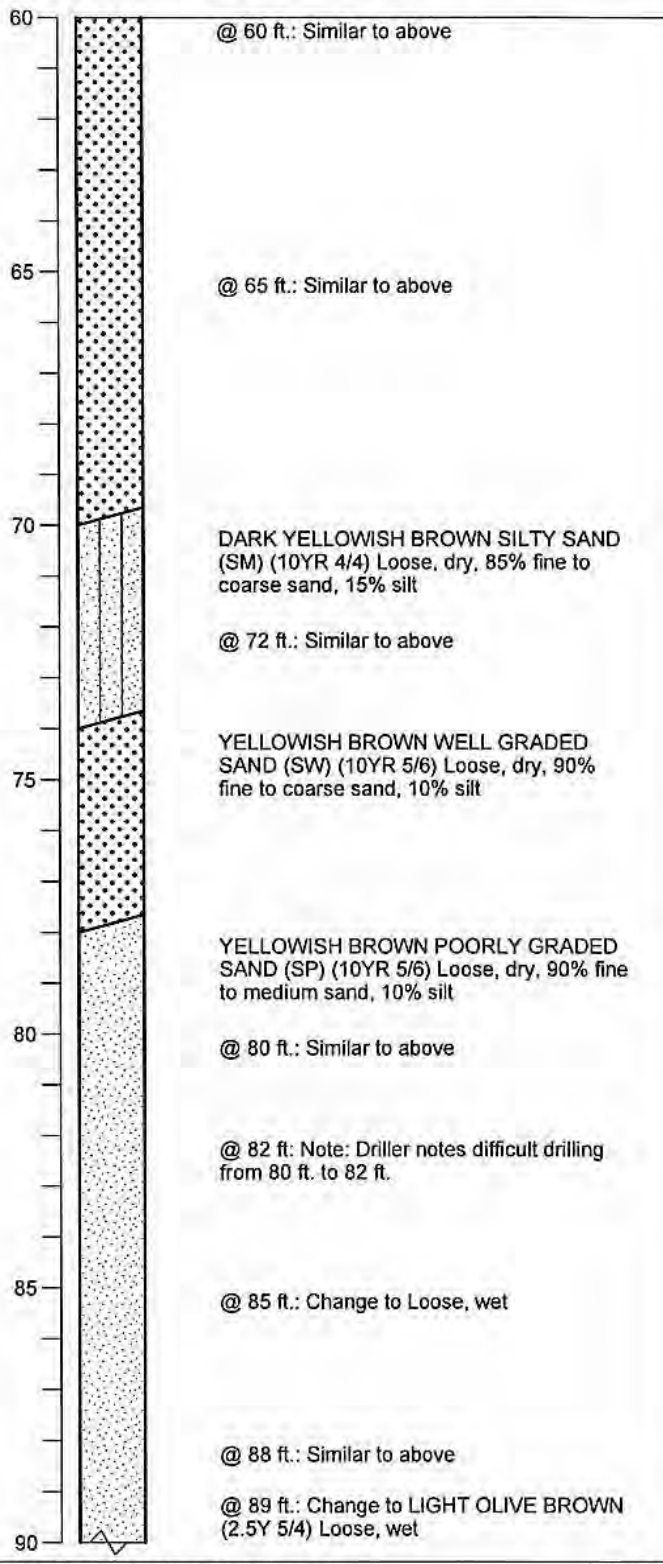
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REVISED DATE

Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 197 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-47-180** PLATE  
 OUCTP



**MACTEC**

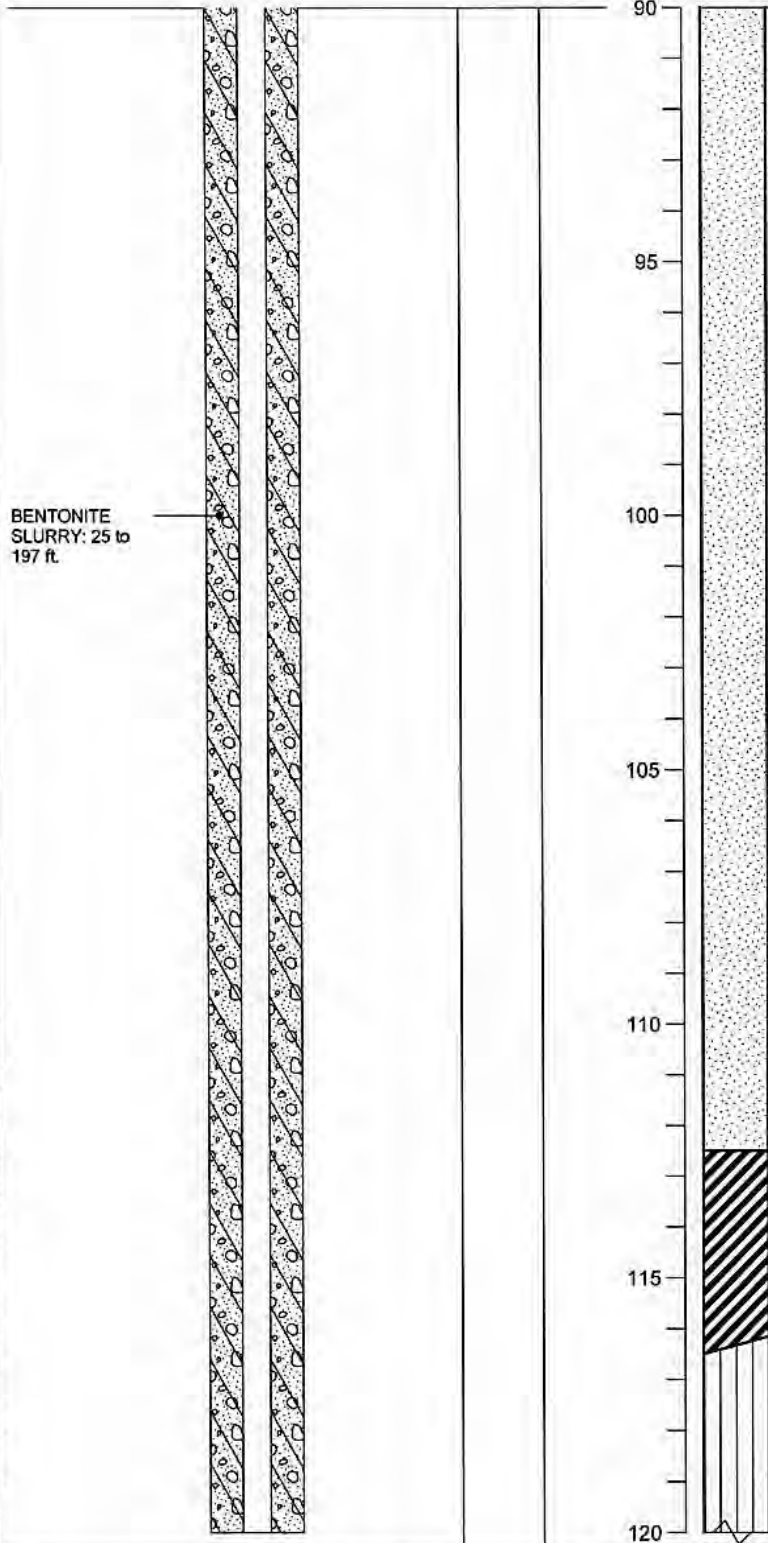
Fort Ord, California

**A61**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MOT/amb</i>	11/04	

Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 197 ft.

@ 92 ft.: Similar to above

@ 100 ft.: Change to LIGHT OLIVE  
 BROWN (2.5Y 5/3)

@ 106 ft.: Similar to above

@ 110 ft.: Similar to above

DARK GRAY FAT CLAY (CH) (5Y 4/1) Stiff,  
 dry, 80% clay, 20% silt

OLIVE GRAY SILT (ML) (5Y 5/2) Soft, dry,  
 90% silt 10% fine sand

@ 117.5 ft.: Change to Small micas or gold  
 specs present

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-47-180 PLATE  
 OUCTP



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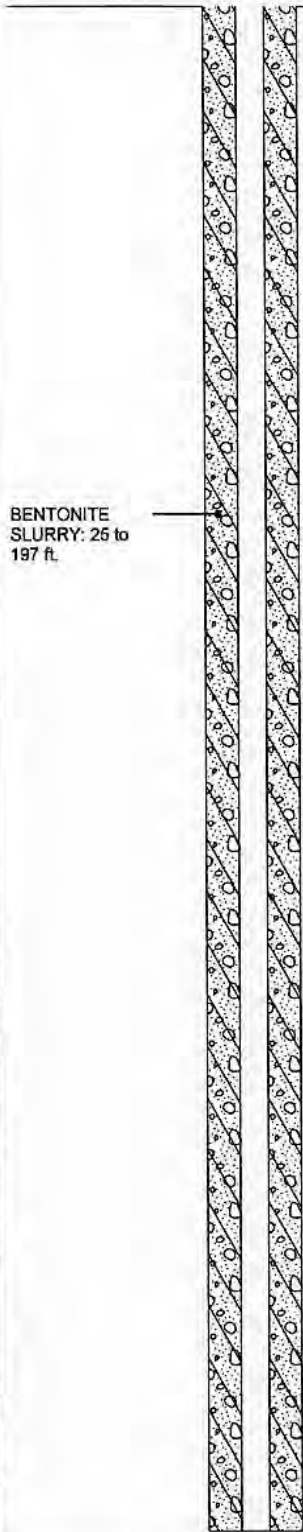
Fort Ord, California

**A61**

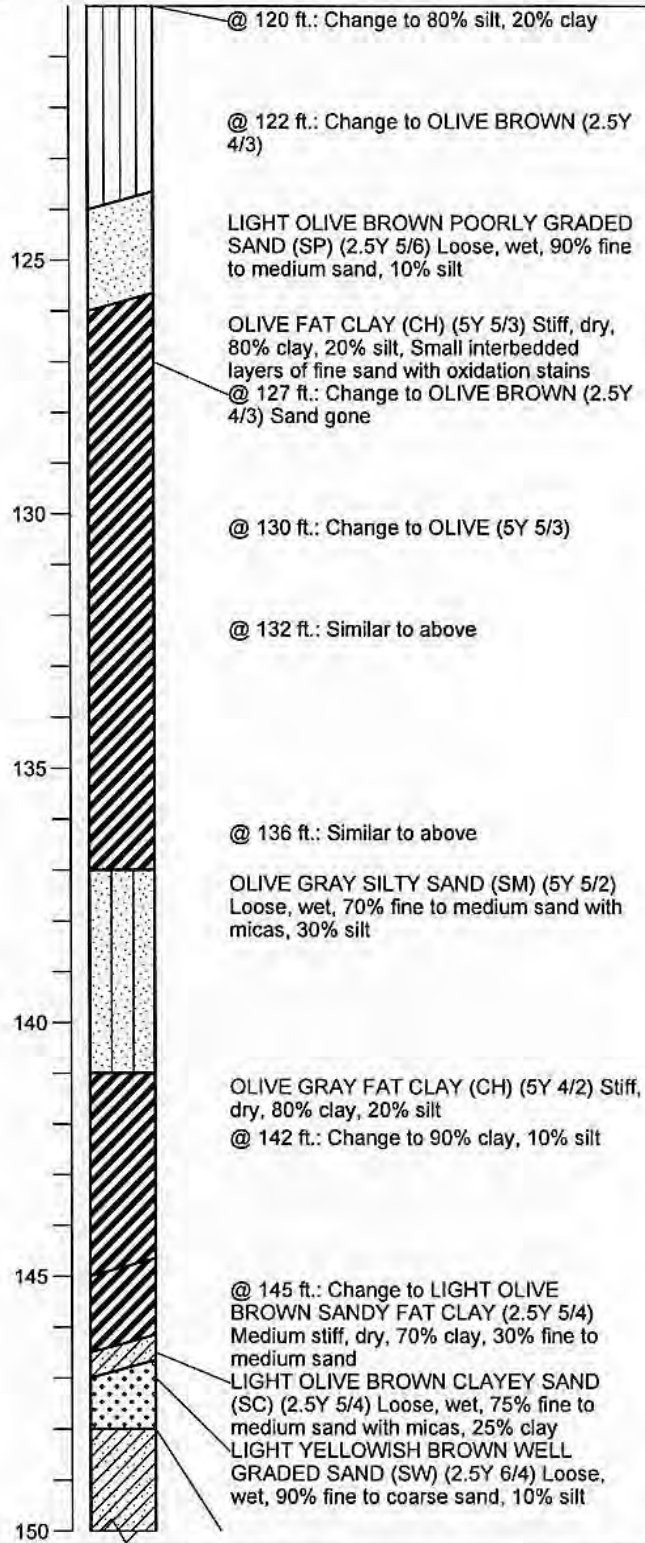
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MBP	55596 001701	<i>MBP/can</i>	11/04	

Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 26 to  
 197 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-47-180**

PLATE



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DRAWN  
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JOB NUMBER  
 55596 001701

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DATE  
 11/04

REVISED DATE

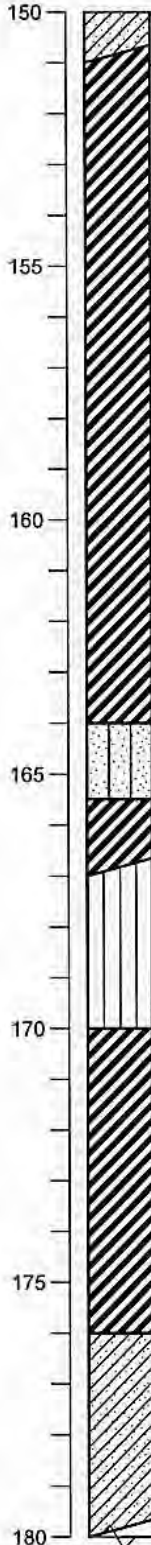
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Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
197 ft.



OLIVE GRAY CLAYEY SAND (SC) (5Y 5/2)  
Loose, wet, 60% fine to medium sand, 40% clay  
 @ 150 ft.: Change to 80% fine to medium sand, 20% clay  
 OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 80% clay, 20% silt

@ 154 ft.: Change to VERY DARK BLUISH GRAY (5B 3/1)

@ 156 ft.: Change to 90% clay, 10% silt

@ 158 ft.: Change to Increase to 5% very small shell fragments

@ 160 ft.: Change to No visible shell fragments, Reacts with HCL

@ 162 ft.: Change to Trace shell fragments

@ 163 ft.: Change to 70% clay, 30% silt

VERY DARK BLUISH GRAY SILTY SAND (SM) (5B 3/1) Loose, moist, 70% fine to medium sand, 30% silt

VERY DARK BLUISH GRAY FAT CLAY (CH) (5B 3/1) Very stiff, dry, 75% clay, 25% silt

VERY DARK BLUISH GRAY SILT (ML) (5B 3/1) Soft, moist, 80% silt, 20% clay

DARK GREENISH GRAY FAT CLAY (CH) (10BG 4/1) Stiff, dry, 85% clay, 15% silt

@ 172 ft.: Change to 95% clay, 5% silt, Trace medium shell fragments

@ 173 ft.: Change to Shell fragments gone

@ 175 ft.: Change to OLIVE GRAY (5Y 4/2) Very stiff, dry

OLIVE GRAY CLAYEY SAND (SC) (5Y 5/2) Medium dense, moist, 80% fine to coarse sand, 20% clay, Oxidation stained sands show bedding planes

BORING\_WELL\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-47-180**  
OUCTP

PLATE



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Fort Ord, California

**A61**

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JOB NUMBER  
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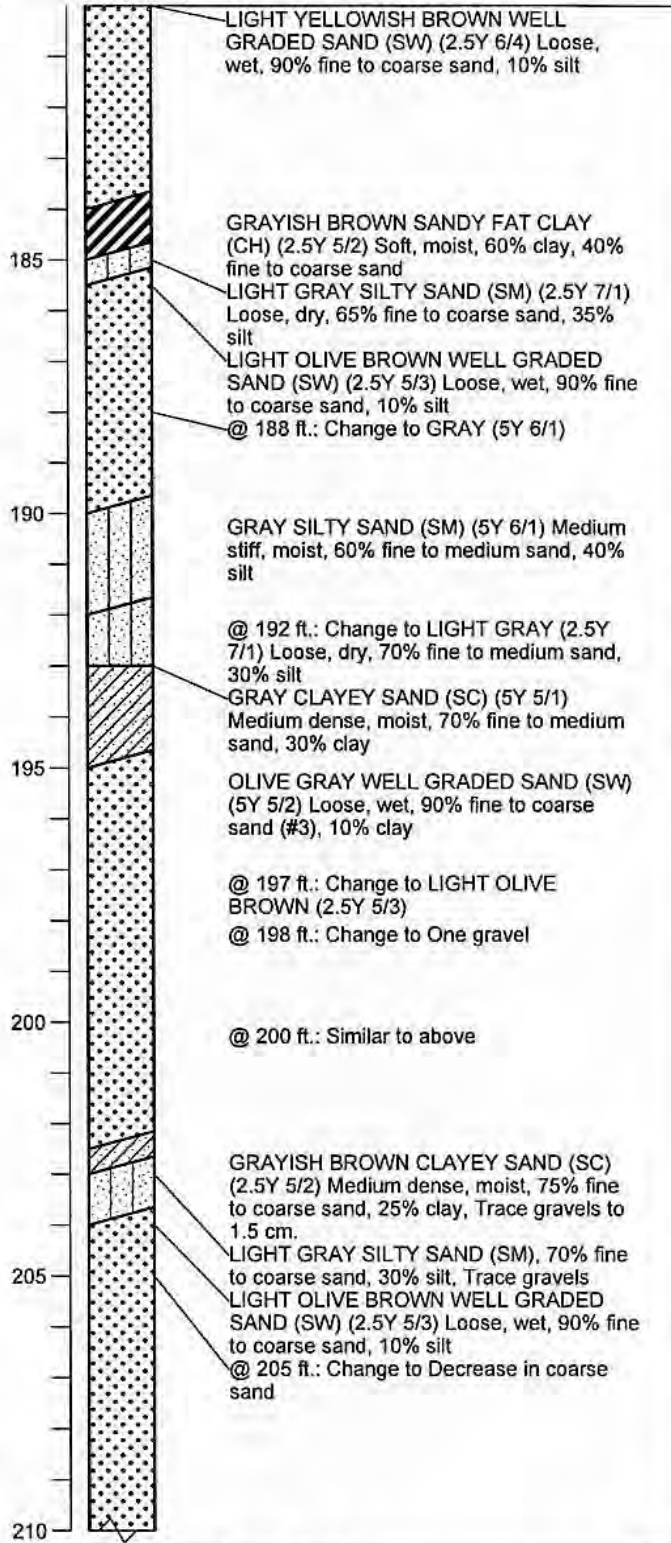
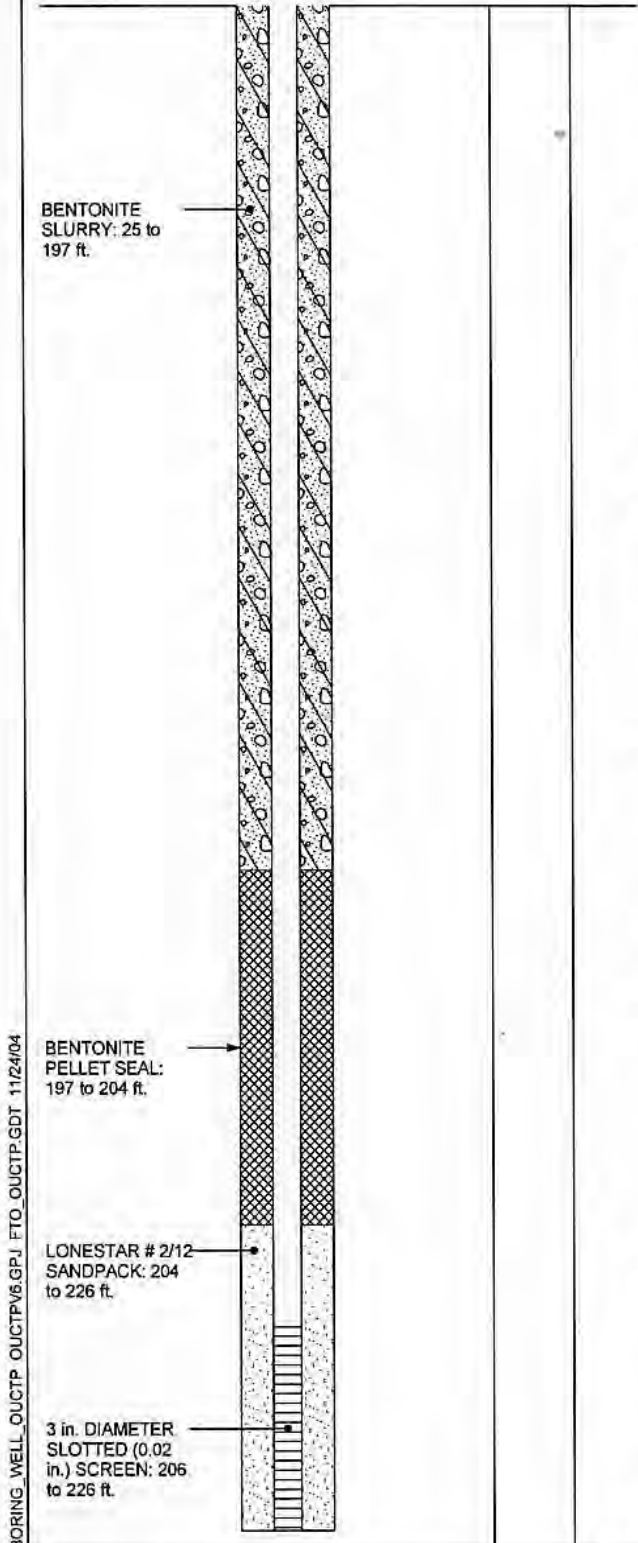
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11/04

REVISED DATE



Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-47-180 OUCTP PLATE



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DRAWN  
MBP

JOB NUMBER  
55596 001701

Fort Ord, California

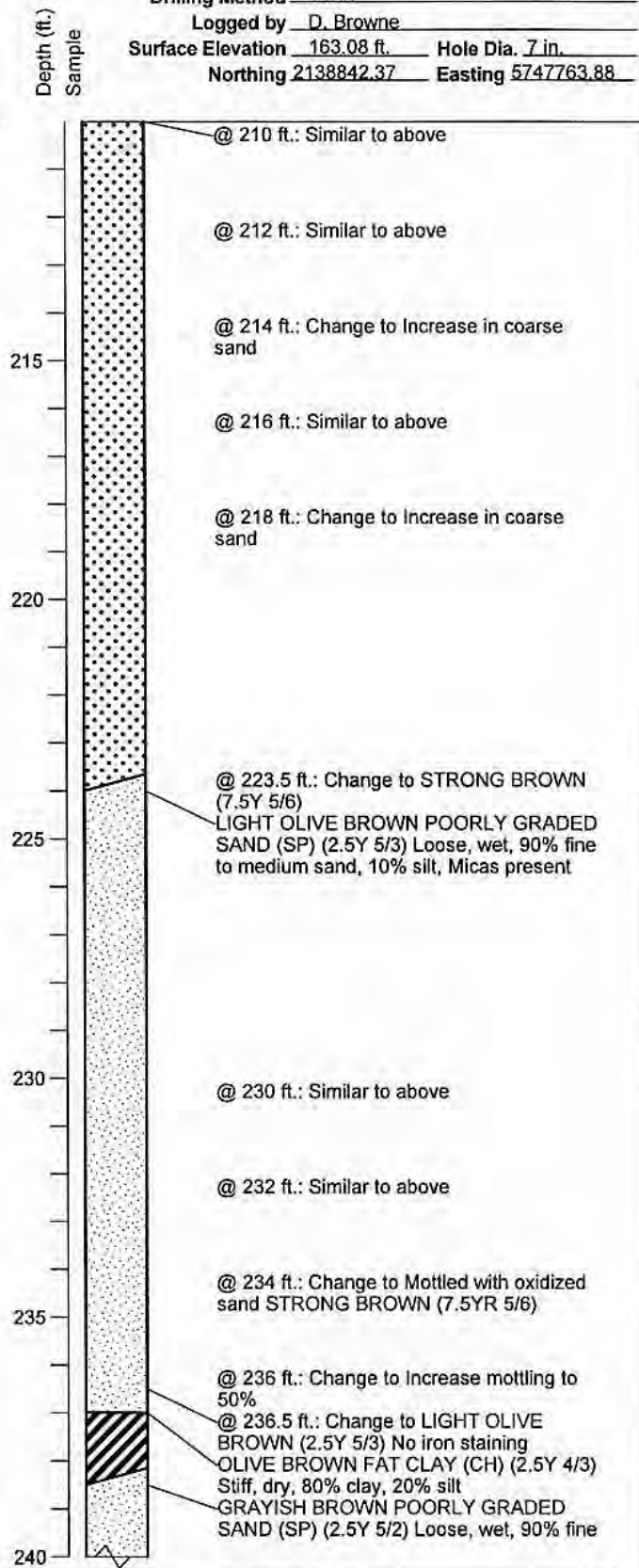
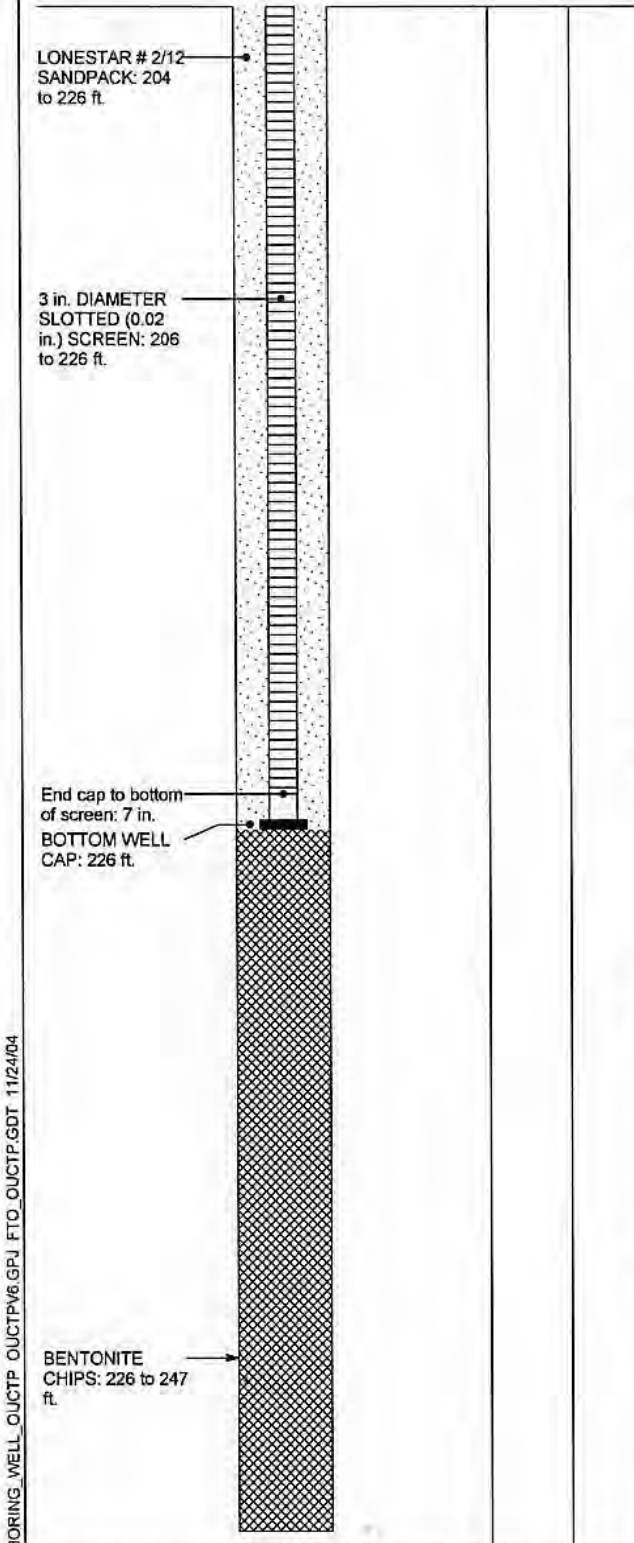
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DATE  
11/04

REVISED DATE

A61

Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-47-180** PLATE  
 OUCTP



**MACTEC**

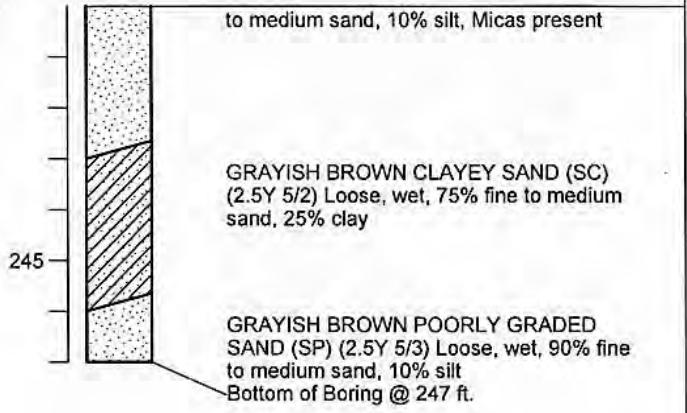
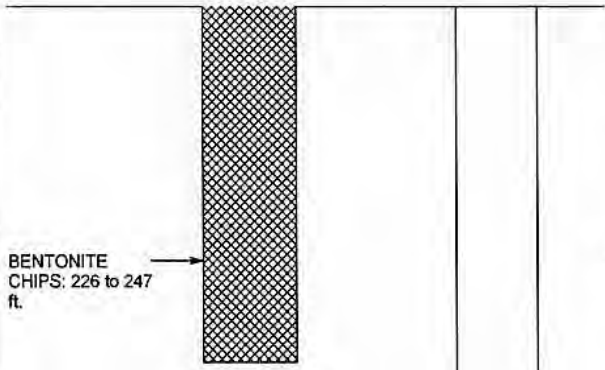
Fort Ord, California

**A61**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / am</i>	11/04	

Completion Date 3/28/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 163.08 ft. Hole Dia. 7 in.  
 Northing 2138842.37 Easting 5747763.88

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-47-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A61**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/MBP</i>	11/04	

Completion Date 5/7/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 49.14 ft. Hole Dia. 12 in.  
 Northing 2143860.188 Easting 5742418.712

Top of PVC Casing  
 Elev. 48.66 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

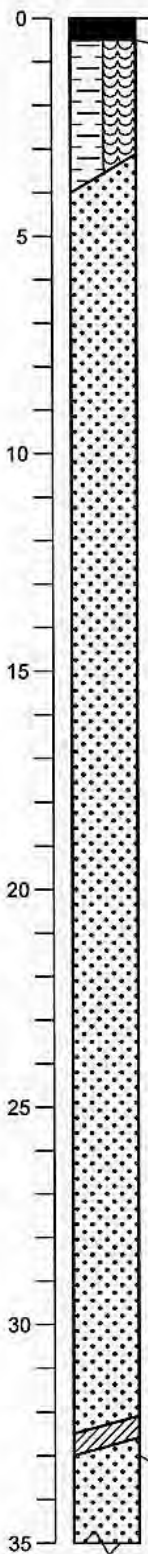
5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: -0.48 to  
 38 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 70 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 26 ft.

BENTONITE  
 PELLET SEAL: 26  
 to 33 ft.

Depth (ft.)  
 Sample



CEMENT SIDEWALK  
 DARK GRAYISH BROWN SANDY  
 ORGANIC SOIL (OL-OH) (10YR 4/2) Loose,  
 dry, 60% soil, 40% medium to fine sand

BROWN WELL GRADED SAND (SW)  
 (10YR 4/3) Loose, dry, 75% sand, 25% soil

@ 6 ft.: Change to YELLOWISH BROWN  
 (10YR 5/4) 90% fine to medium sand, 10%  
 silt

@ 8 ft.: Decrease in silt to 5%

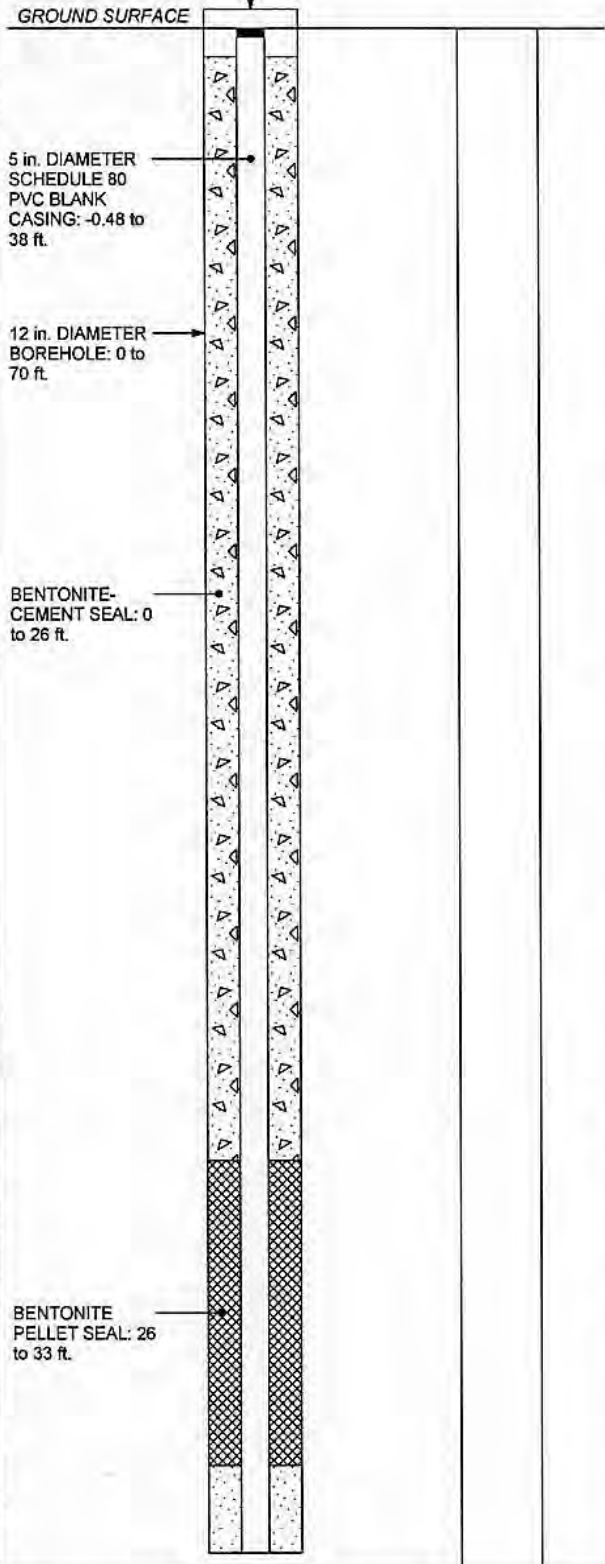
@ 12 ft.: Change to moist

@ 25 ft.: Change to 100% fine to medium  
 sand

@ 30 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6)

OLIVE GRAY CLAY WITH SAND (CL) (5Y  
 5/3) Hard, dry, 85% clay, 15% fine sand  
 LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (2.5Y 6/4) Dense,

BORING\_WELL\_OUCTP6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-47-A**  
 OUCTP

PLATE



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Fort Ord, California

**A62**

DRAWN  
 PCB

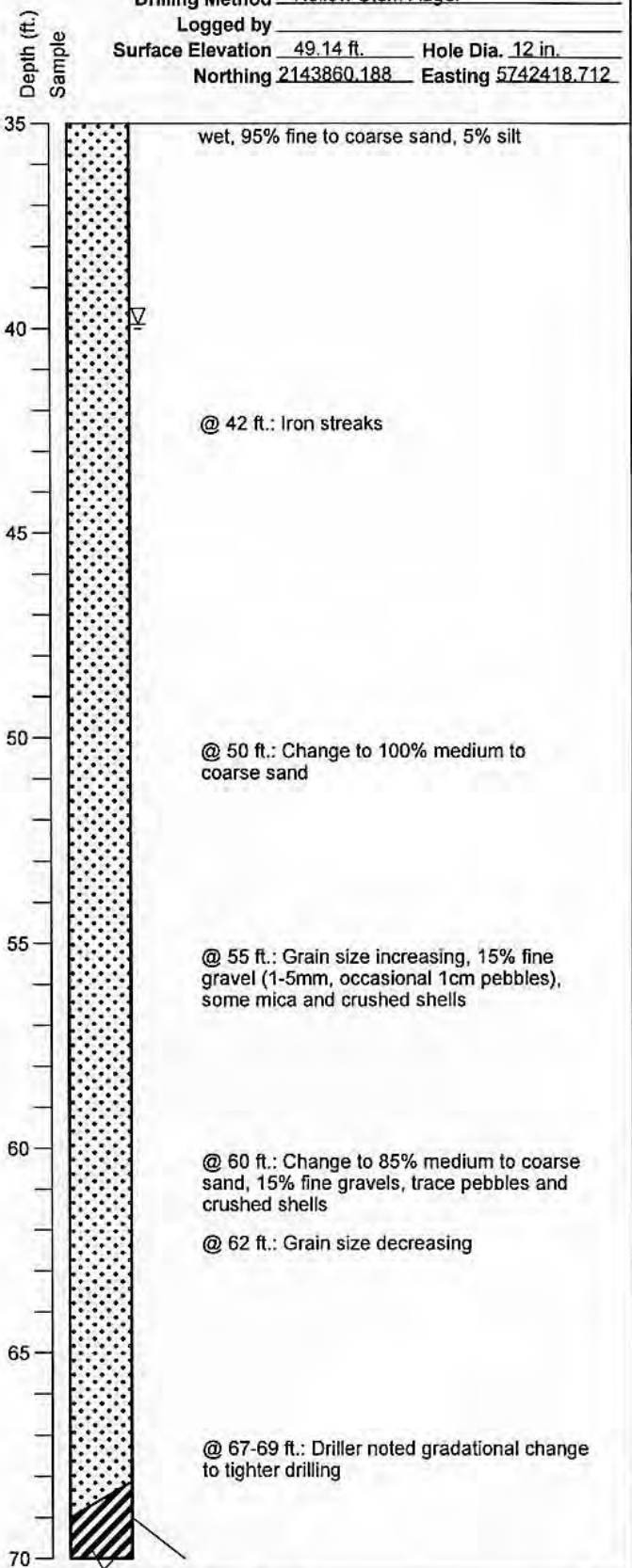
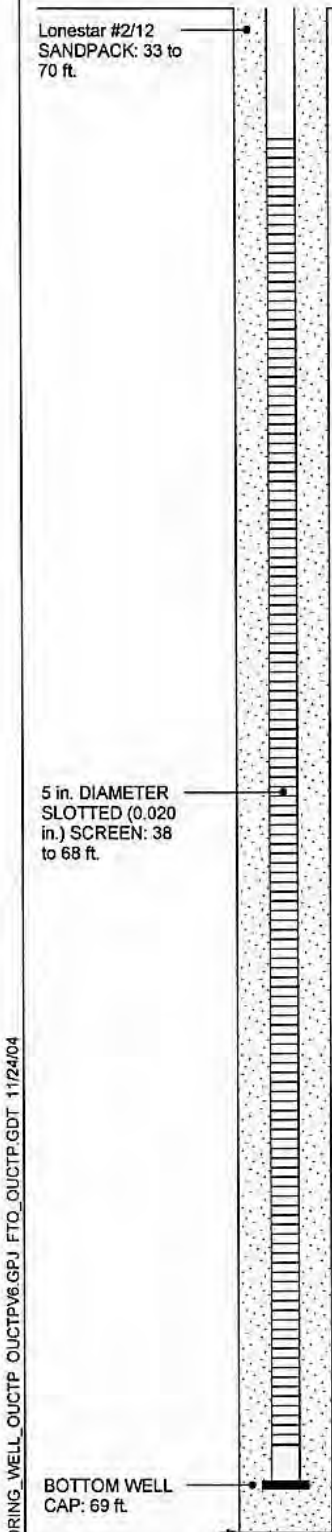
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APPROVED  
*MDT / cur*

DATE  
 11/04

REVISED DATE

Completion Date 5/7/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 49.14 ft. Hole Dia. 12 in.  
 Northing 2143860.188 Easting 5742418.712



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-47-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A62**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT/cw</i>	11/04	



Completion Date 5/7/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 49.14 ft. Hole Dia. 12 in.  
 Northing 2143860.188 Easting 5742418.712

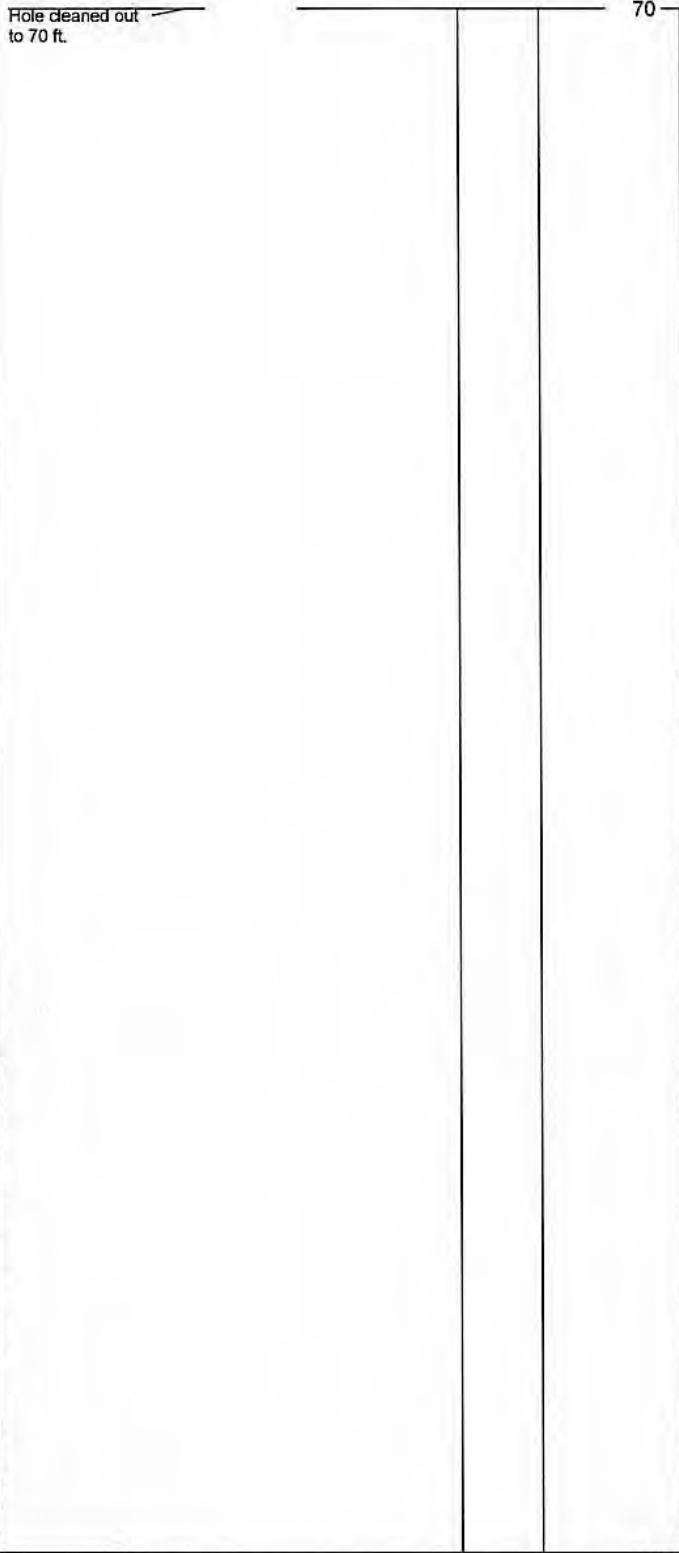
Depth (ft.)  
 Sample

Hole cleaned out  
 to 70 ft.

70

OLIVE GRAY FAT CLAY (CH) (5Y 5/2)  
 Soft, moist, 85% clay, 15% fine sand  
 Bottom of boring at 70 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-47-A**  
 OUCTP

PLATE



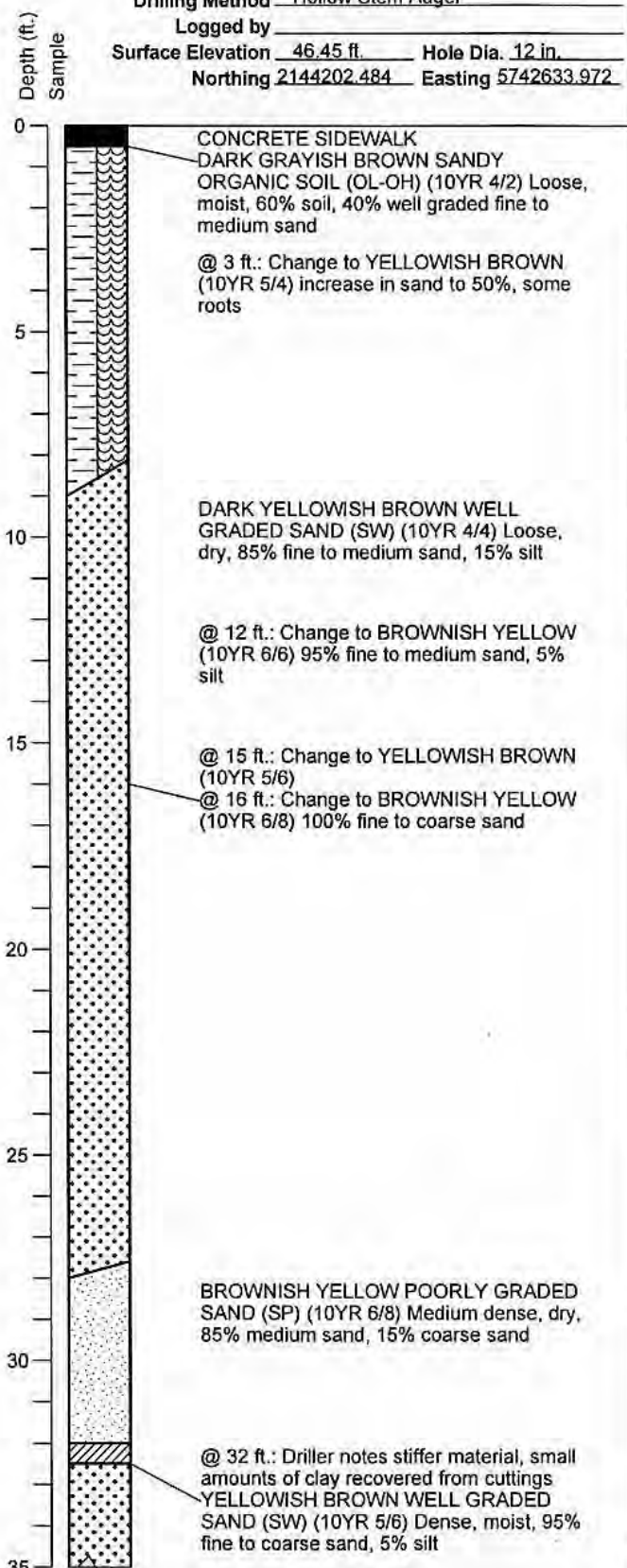
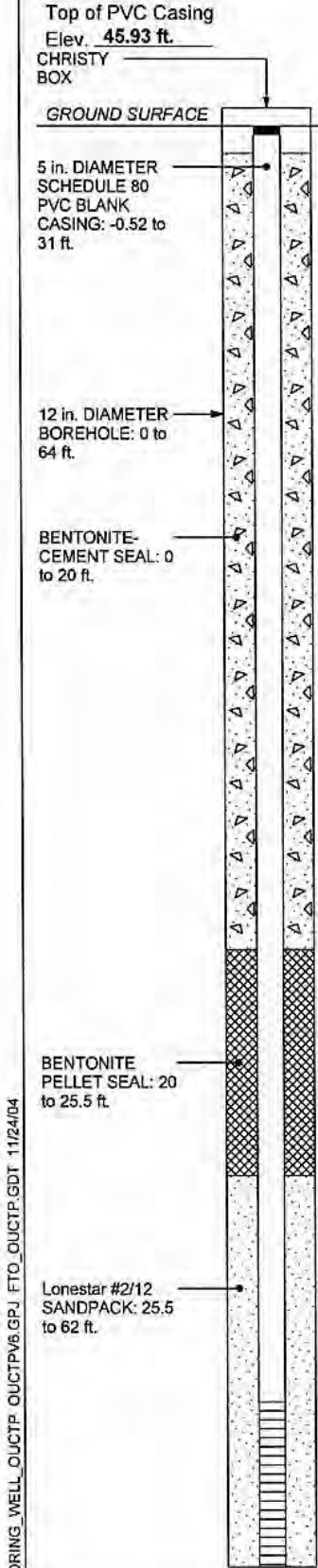
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Fort Ord, California

**A62**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MOT / car</i>	11/04	

Completion Date 5/8/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 46.45 ft. Hole Dia. 12 in.  
 Northing 2144202.484 Easting 5742633.972



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-48-A** PLATE  
 OUCTP



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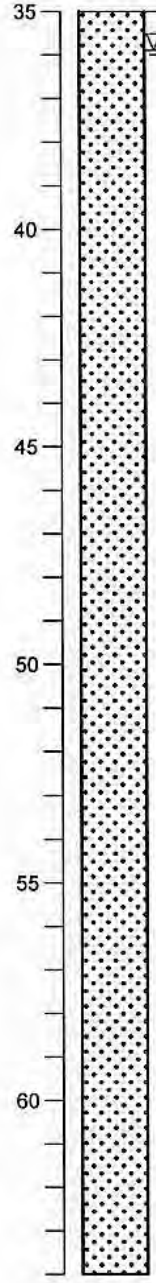
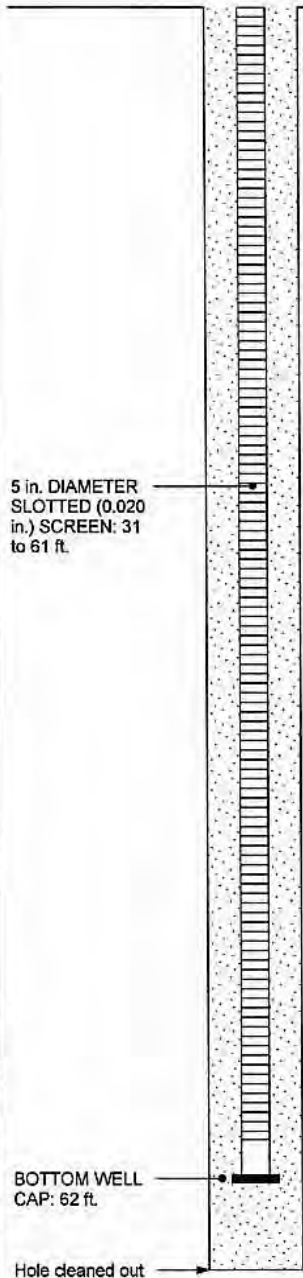
Fort Ord, California

**A63**

DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 11/04	REVISED DATE
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Completion Date 5/8/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 46.45 ft. Hole Dia. 12 in.  
 Northing 2144202.484 Easting 5742633.972

Depth (ft.)  
 Sample



@ 39 ft.: Driller notes change - water

@ 42 ft.: Change to wet

@ 50 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4) wet, 85% medium to coarse sand, 15% fine gravel

@ 52 ft.: Change to 80% medium to coarse sand, 15% fine gravel (up to 5 mm), 5% silt

@ 60 ft.: Increase in grain size (gravel to 1 cm), trace shell fragments

@ 62 ft.: Driller noted stiffer drilling, increase in silt and clay

Bottom of boring at 64 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-48-A**  
 OUCTP

PLATE



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Fort Ord, California

**A63**

DRAWN  
 PCB

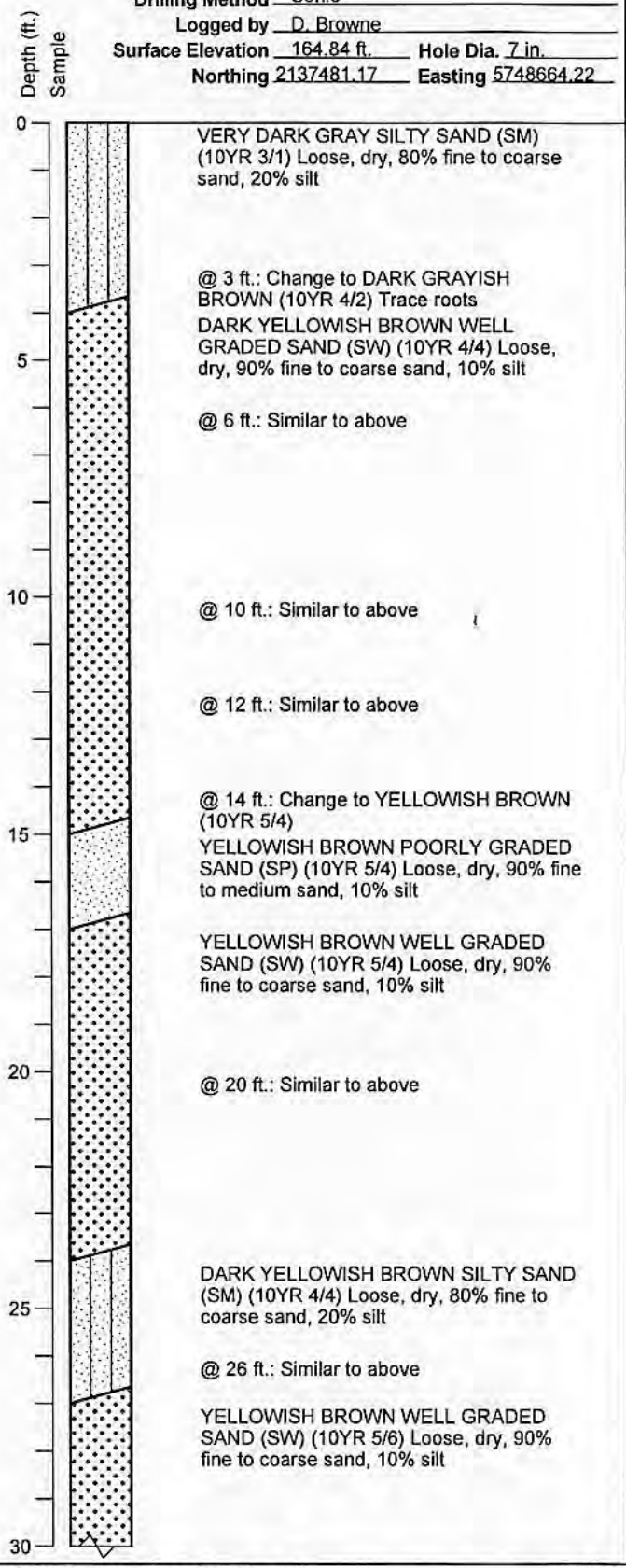
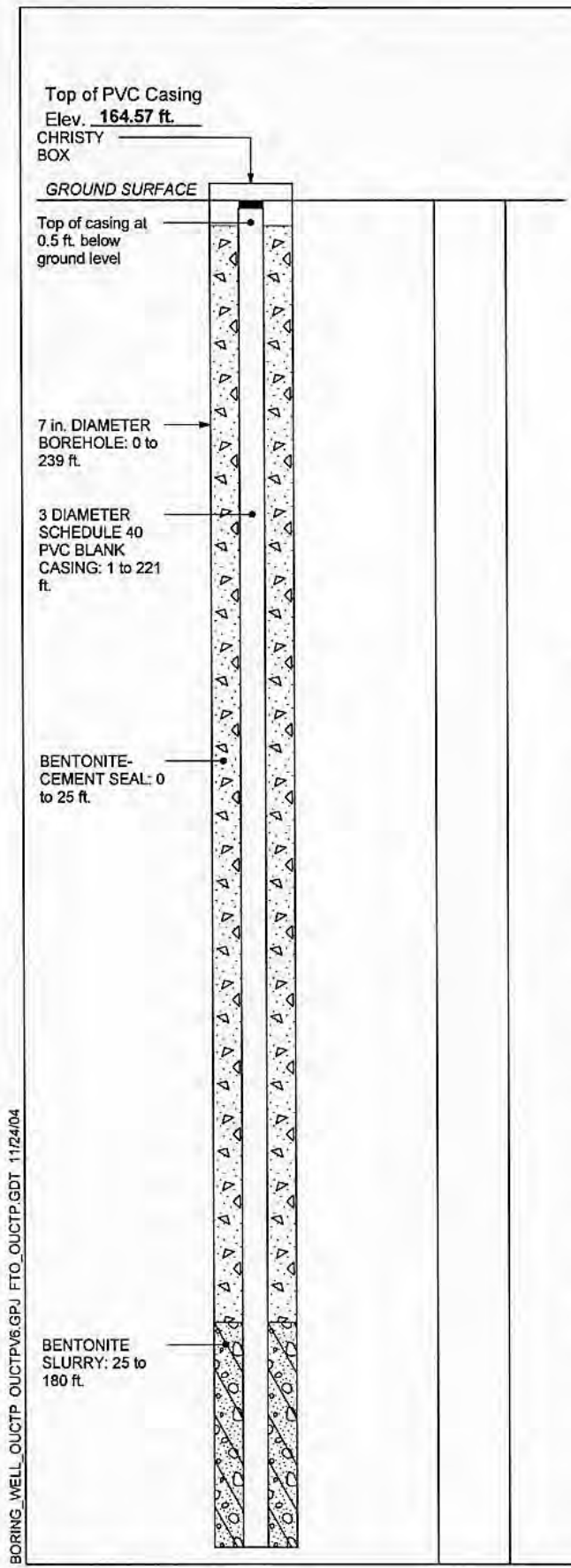
JOB NUMBER  
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APPROVED  
*MOT / em*

DATE  
 11/04

REVISED DATE

Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22



**Well Construction Details and Log of Boring MW-BW-49-180** PLATE  
 OUCTP



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Fort Ord, California

**A64**

DRAWN  
MBP

JOB NUMBER  
55596 001701

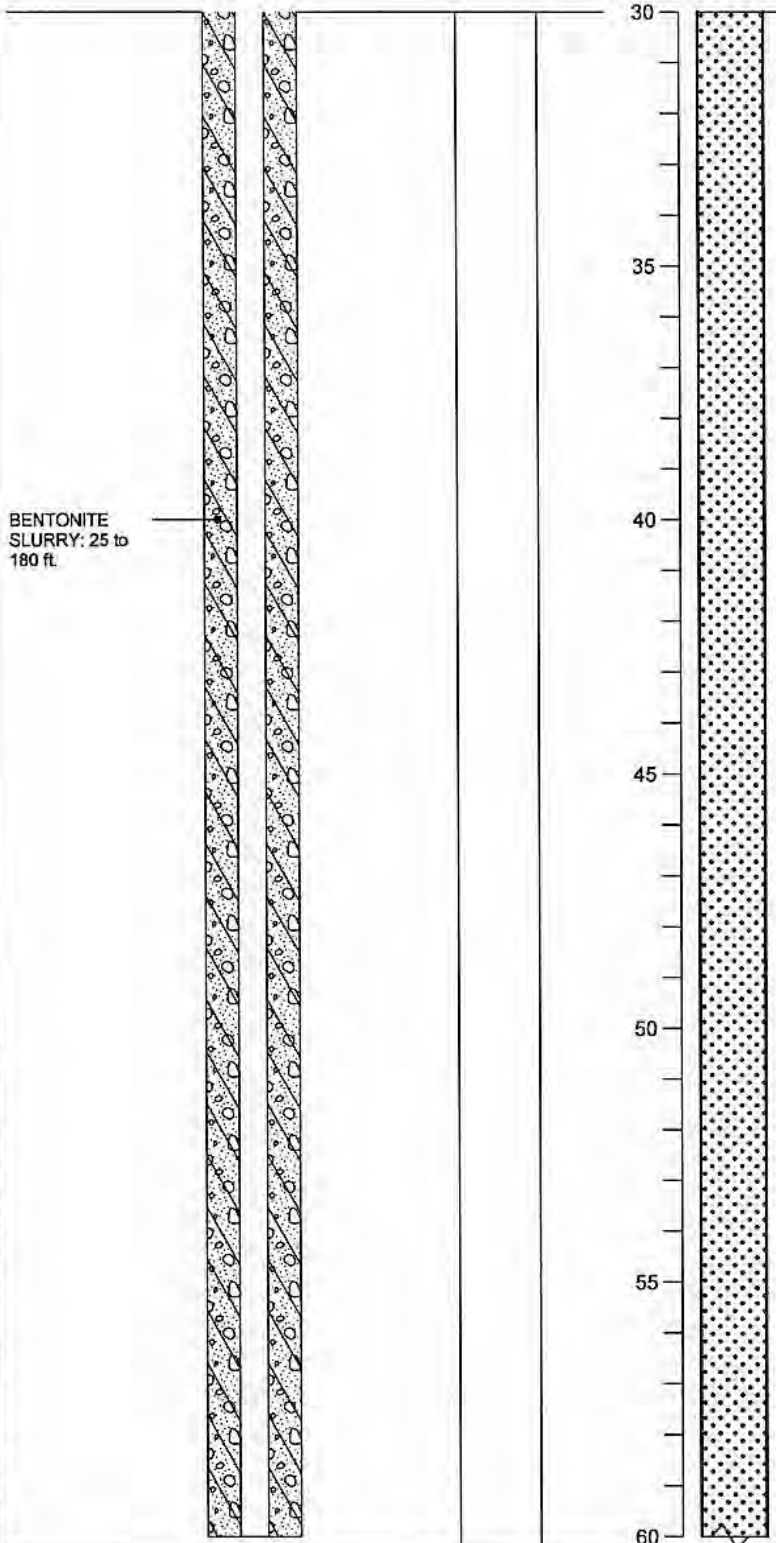
APPROVED  
*MDT / CM*

DATE  
11/04

REVISED DATE

Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample



@ 30 ft.: Similar to above  
  
 @ 34 ft.: Change to YELLOWISH BROWN (10YR 5/4)  
  
 @ 36 ft.: Similar to above  
  
 @ 40 ft.: Similar to above  
  
 @ 46 ft.: Similar to above  
  
 @ 50 ft.: Similar to above  
  
 @ 56 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BENTONITE  
 SLURRY: 25 to  
 180 ft.

**Well Construction Details and  
 Log of Boring MW-BW-49-180**

PLATE



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Fort Ord, California

**A64**

DRAWN  
 MBP

JOB NUMBER  
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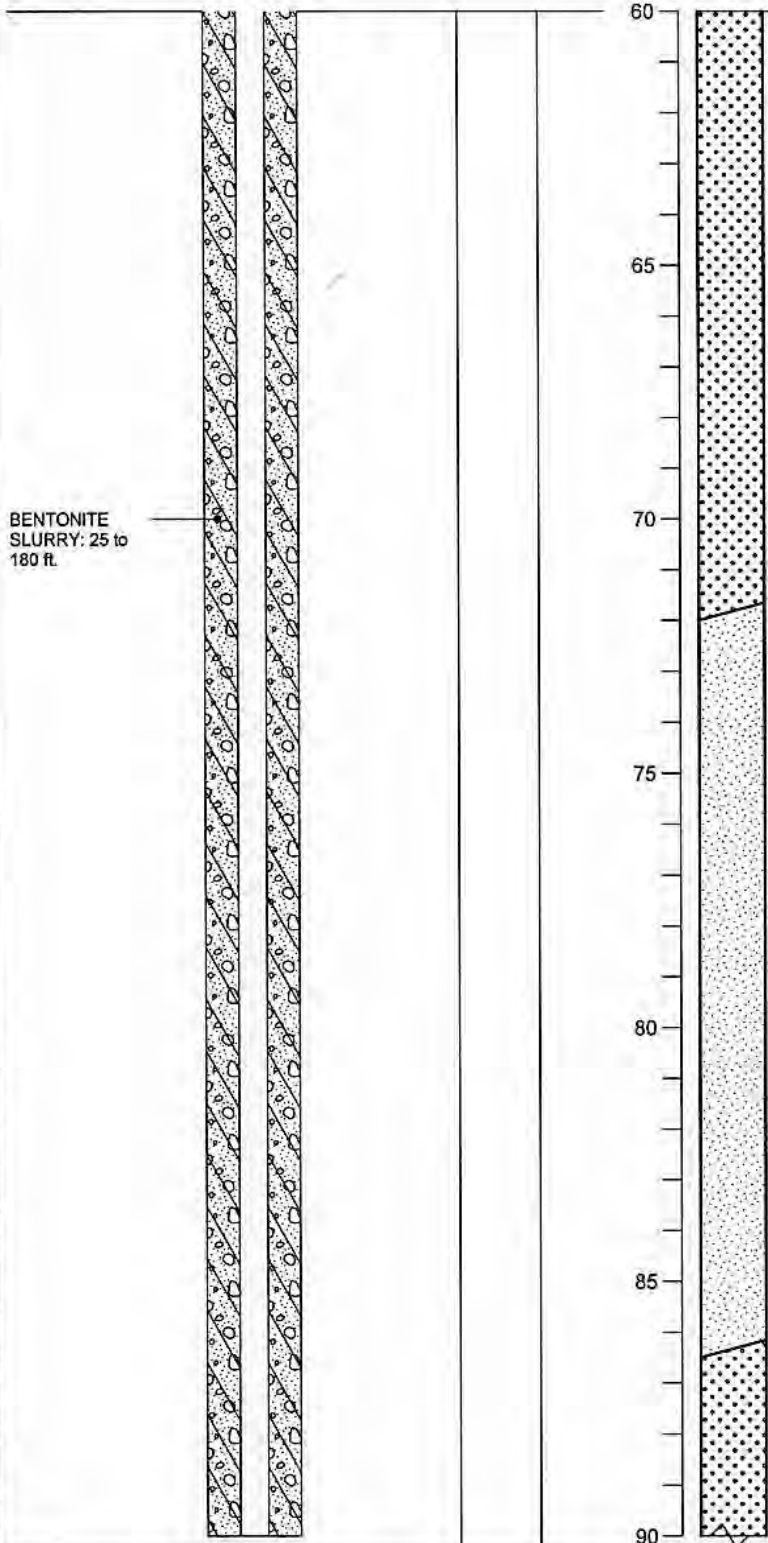
DATE  
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REVISED DATE



Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
180 ft.

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, dry, 90% fine to medium sand, 10% silt

@ 74 ft.: Change to Loose, moist

@ 76 ft.: Change to Loose, wet, 90% fine to coarse sand, 10% silt

@ 80 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, wet, 90% fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-49-180  
OUCTP

PLATE



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Fort Ord, California

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JOB NUMBER  
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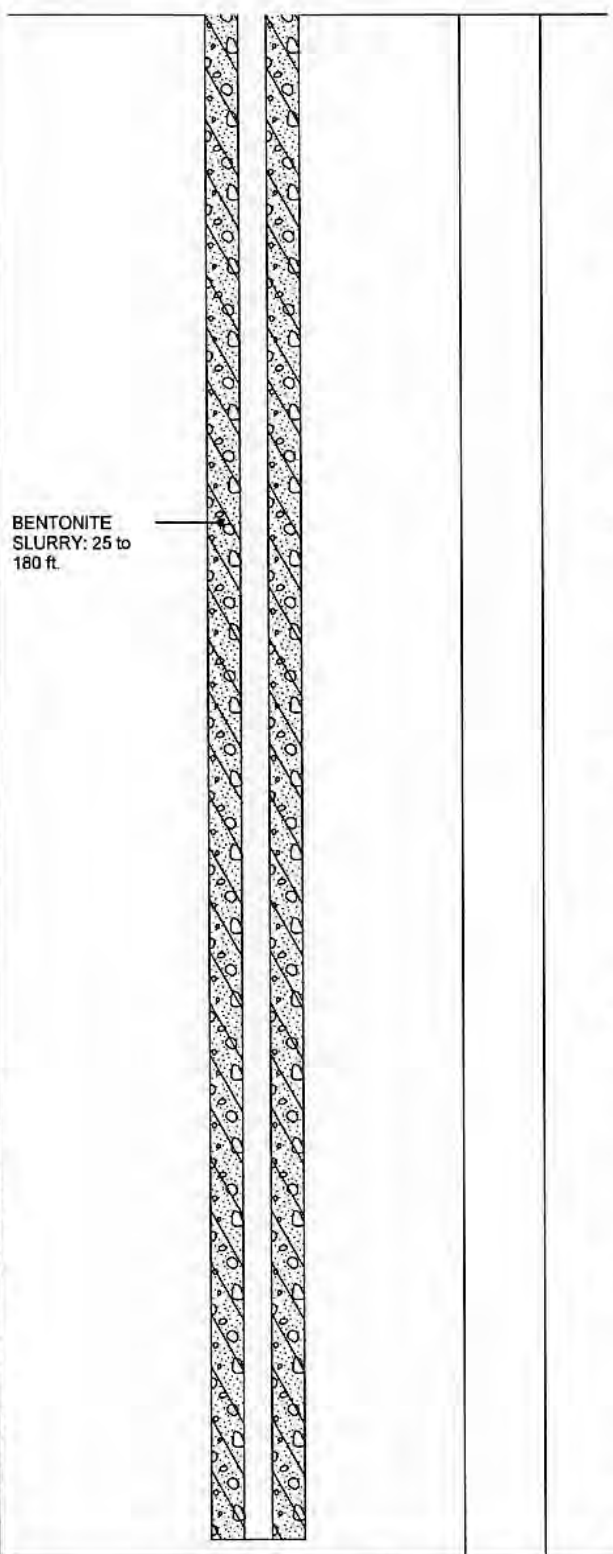
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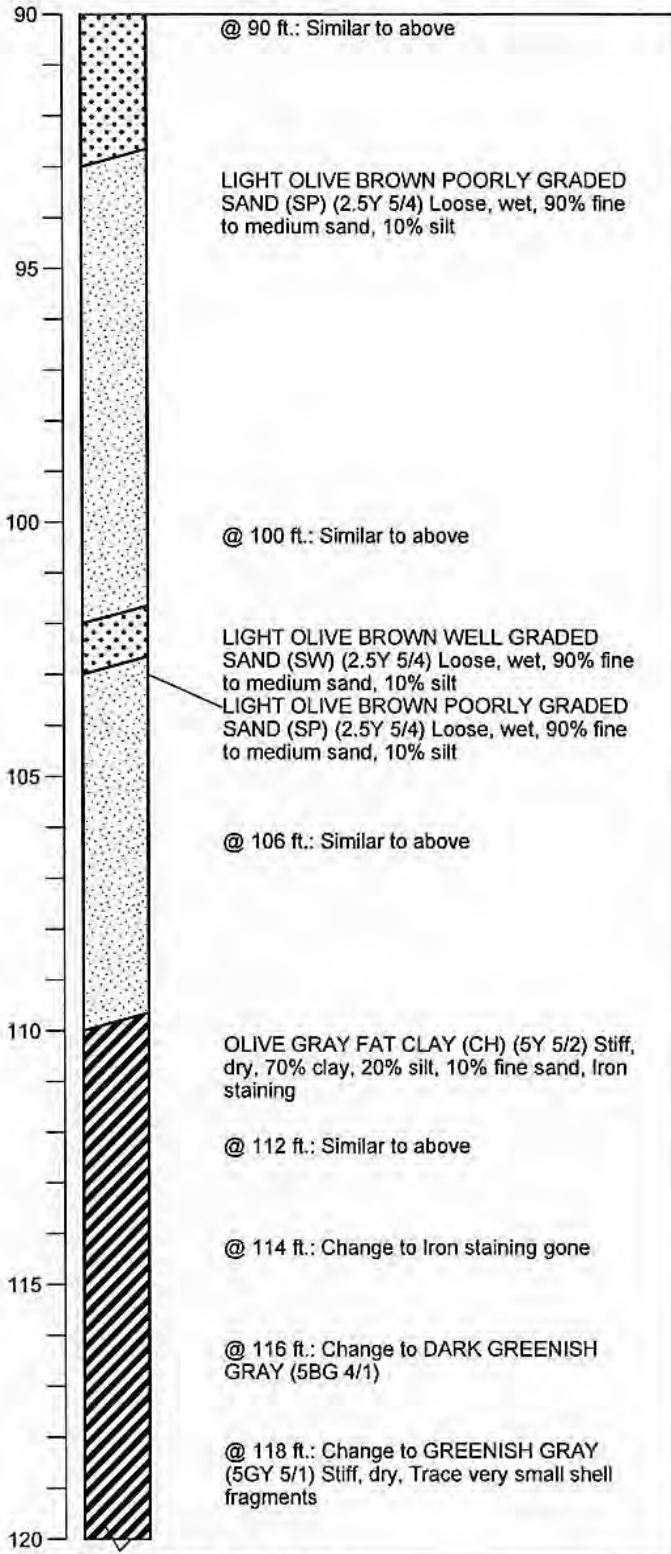
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Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 180 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**MACTEC**  
 DRAWN MBP

JOB NUMBER  
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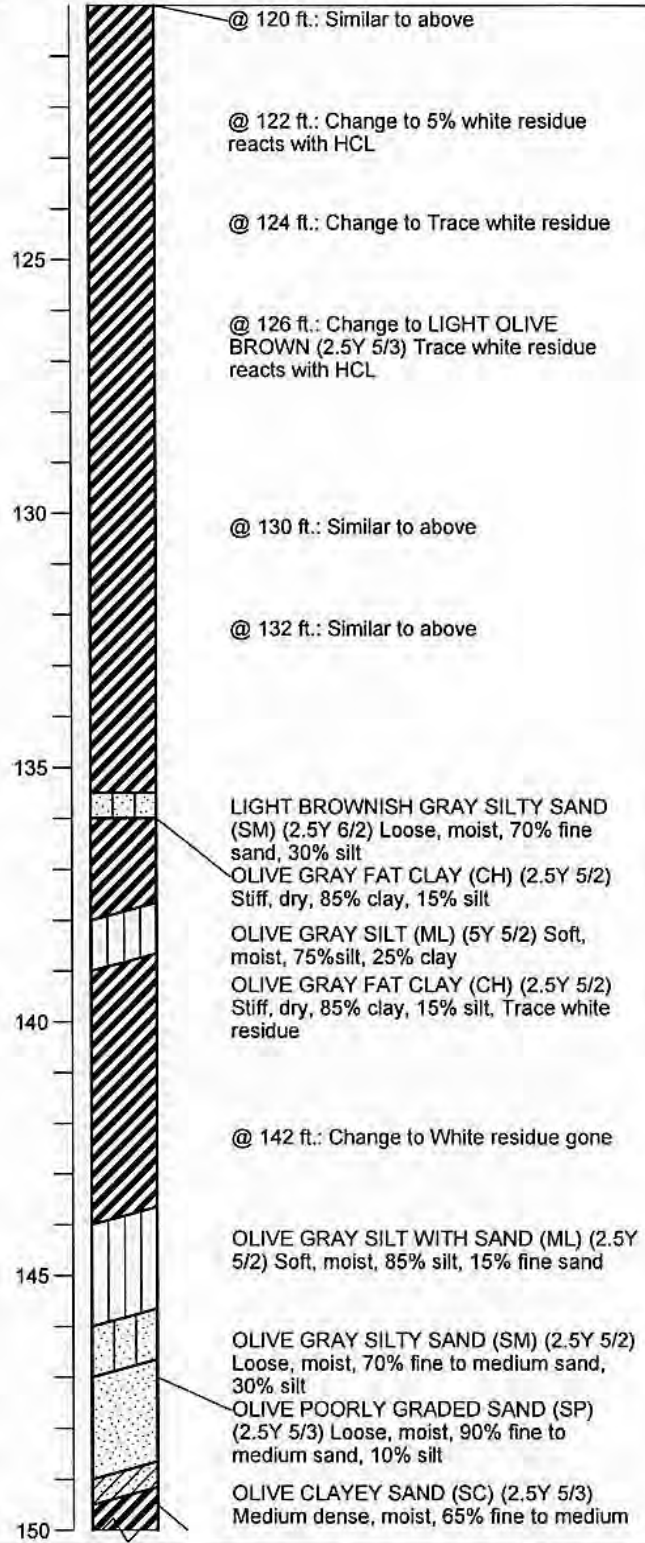
**Well Construction Details and  
 Log of Boring MW-BW-49-180**  
 OUCTP  
 Fort Ord, California  
 APPROVED  
*MOT / cun*

DATE 11/04  
 REVISED DATE  
**A64**

Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 180 ft.



BORING\_WELL\_OUCTP OUCTP V6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-49-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A64**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

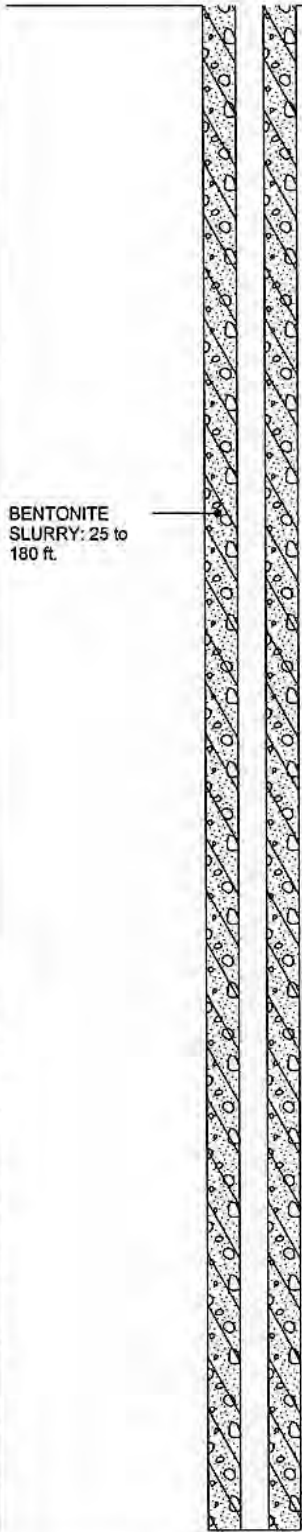
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*MOT / cur*

DATE  
 11/04

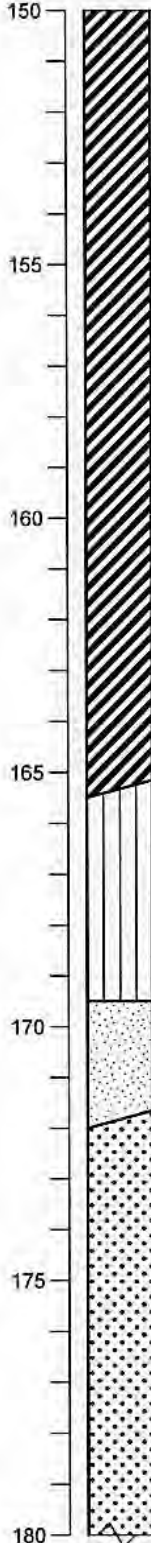
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Completion Date 4/1/2003  
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 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 180 ft.



sand, 35% clay  
 DARK BLUISH GRAY FAT CLAY (CH) (5B 4/1) Very stiff, dry, 80% clay, 20% silt

@ 152 ft.: Change to 90% clay, 10% silt, Large shell fragments

@ 154 ft.: Change to Trace very small shell fragments

@ 156 ft.: Similar to above

@ 160 ft.: Change to 75% clay, 25% silt

@ 164 ft.: Change to DARK GRAY (N 4/0) 90% clay, 10% silt, Trace shell fragments

DARK GREENISH GRAY SILT WITH SAND (ML) (5BG 4/1) Soft, moist, 85% silt, 15% fine sand

@ 165.5 ft.: Change to (N 4/0) Soft, dry, 90% silt, 10% clay

@ 168 ft.: Change to LIGHT OLIVE GRAY (5Y 5/2) Stiff, dry, 9% silt, 10% fine sand, Iron staining present

LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (2.5Y 6/3) Loose, wet, 90% fine sand, 10% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, wet, 90% fine to coarse sand, 10% silt

@ 176 ft.: Change to Increase coarse sand

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-49-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A64**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

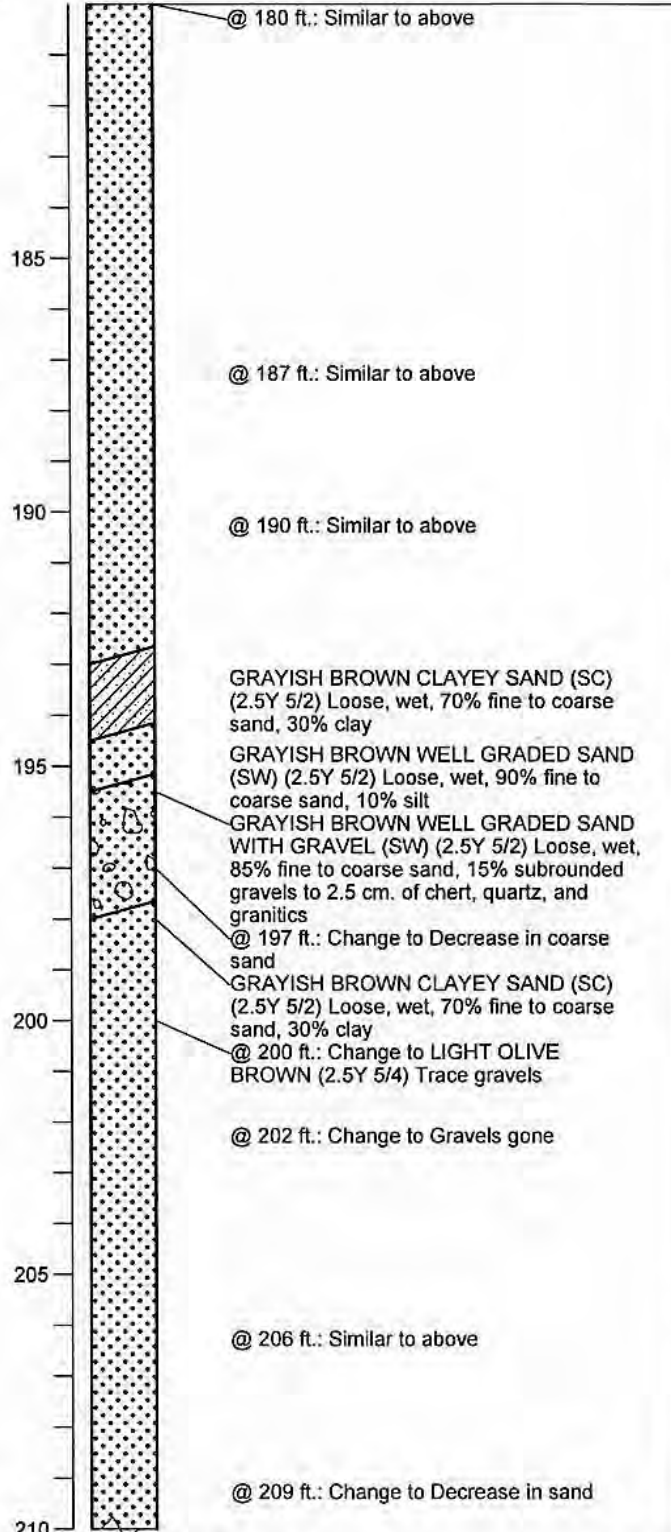
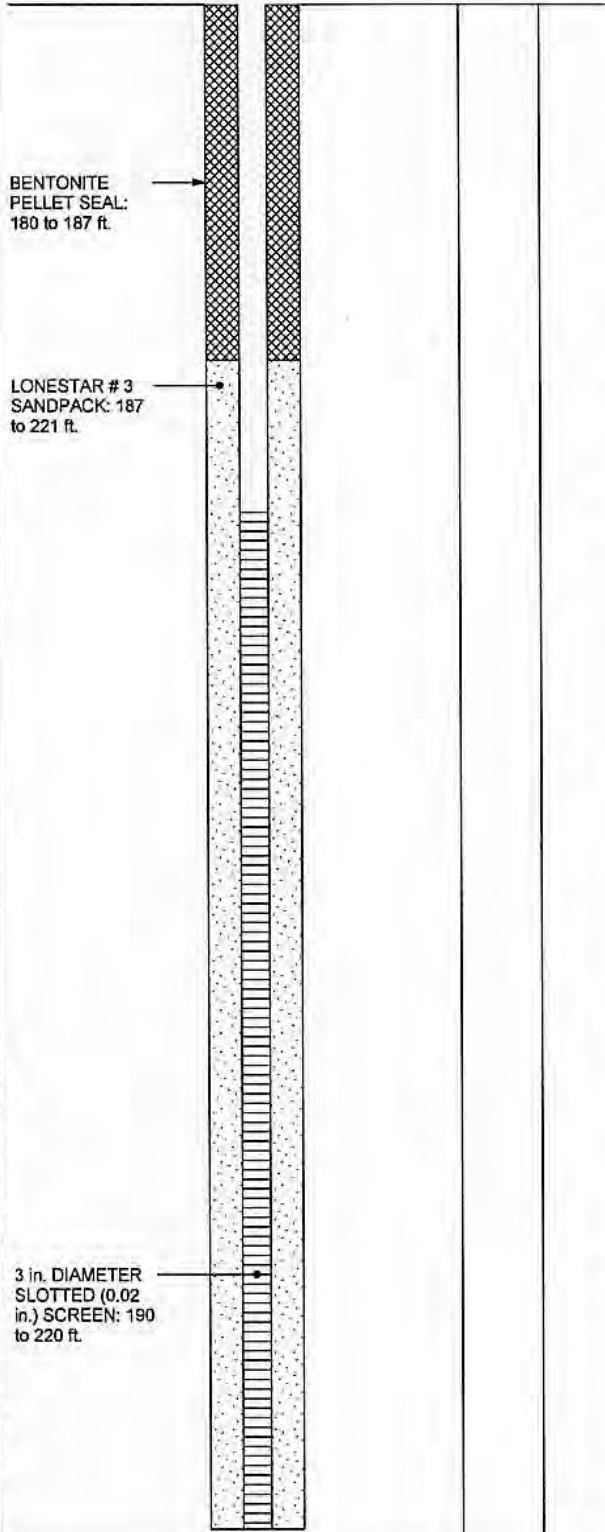
APPROVED  
*MBP / car*

DATE  
 11/04


REVISED DATE

Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-49-180**

OUCTP

Fort Ord, California

PLATE

**A64**

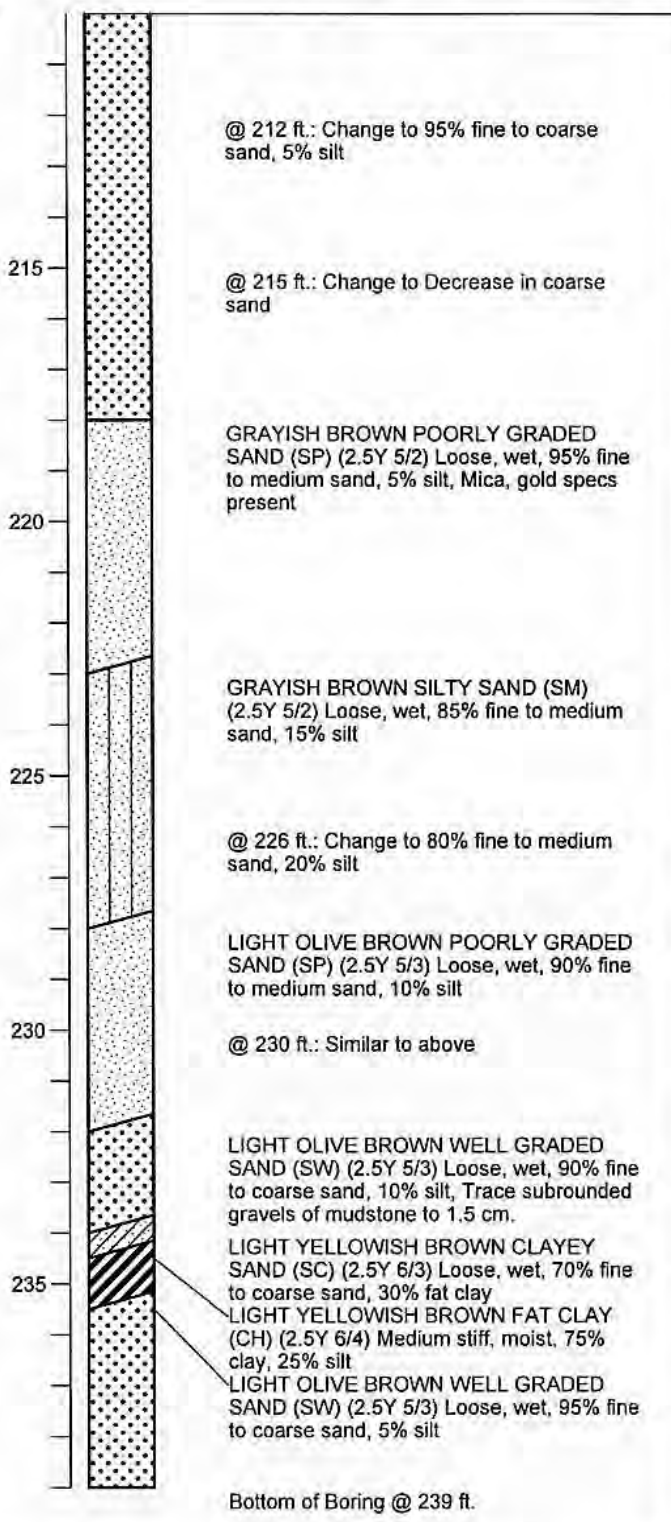
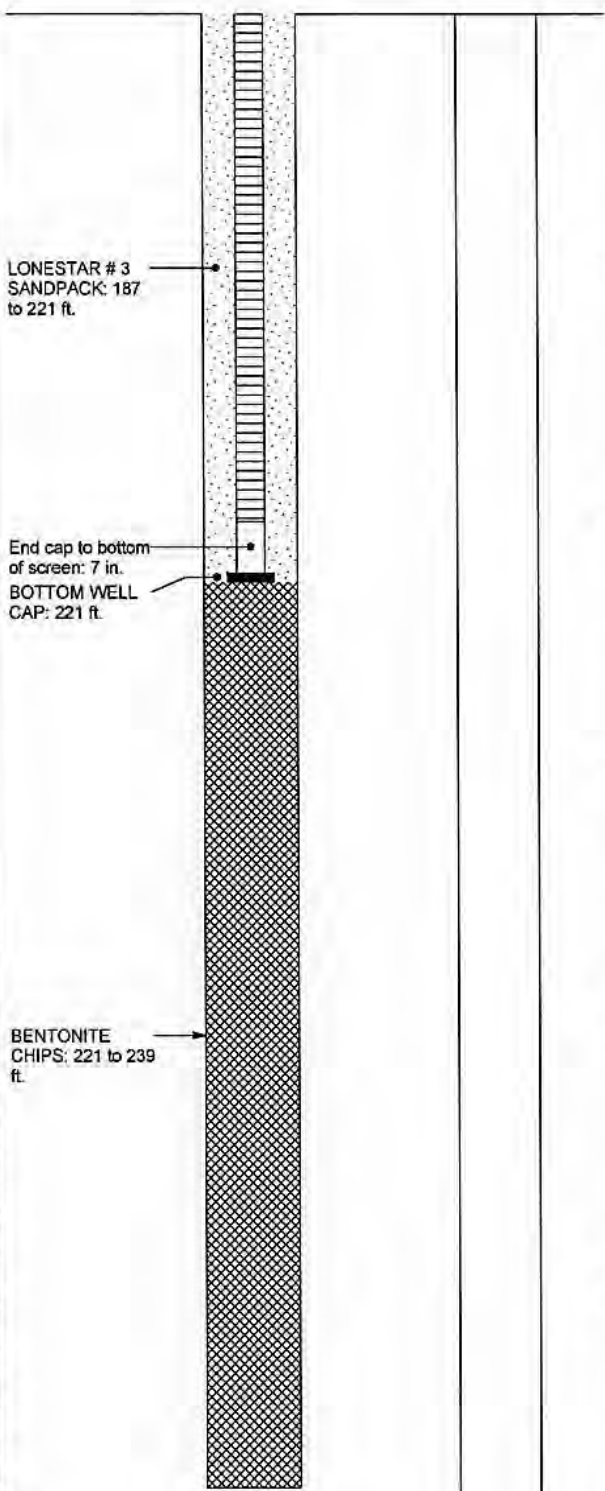
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DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / cur</i>	DATE 11/04	REVISED DATE
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Completion Date 4/1/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 164.84 ft. Hole Dia. 7 in.  
 Northing 2137481.17 Easting 5748664.22

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-49-180**

PLATE



**MACTEC**

OUCTP

Fort Ord, California

**A64**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cw*

DATE  
11/04

REVISED DATE

Completion Date 5/9/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 44.76 ft. Hole Dia. 12 in.  
 Northing 2144543.607 Easting 5742882.197

Top of PVC Casing  
 Elev. 44.49 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: -0.27 to  
 31.5 ft.

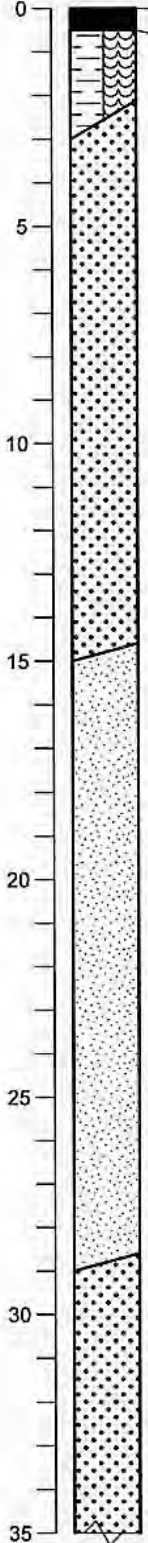
12 in. DIAMETER  
 BOREHOLE: 0 to  
 62.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 21 ft.

BENTONITE  
 PELLET SEAL: 21  
 to 26.5 ft.

Lonestar #2/12  
 SANDPACK: 26.5  
 to 62.5 ft.

Depth (ft.)  
 Sample



CEMENT SIDEWALK  
 DARK GRAYISH BROWN SANDY  
 ORGANIC SOIL (OL-OH) (10YR 4/2) Loose,  
 moist, trace roots

BROWNISH YELLOW WELL GRADED  
 SAND (SW) (10YR 6/6) Loose, dry, 100%  
 fine to medium sand

@ 8 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6) 10% silt

@ 10 ft.: Grain size decreasing

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Medium dense, dry,  
 100% medium sand

@ 25 ft.: Change to moist

YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/6) Dense, moist, 90%  
 fine to medium sand, 10% silt

BORING\_WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-49-A  
 OUCTP

PLATE



MACTEC

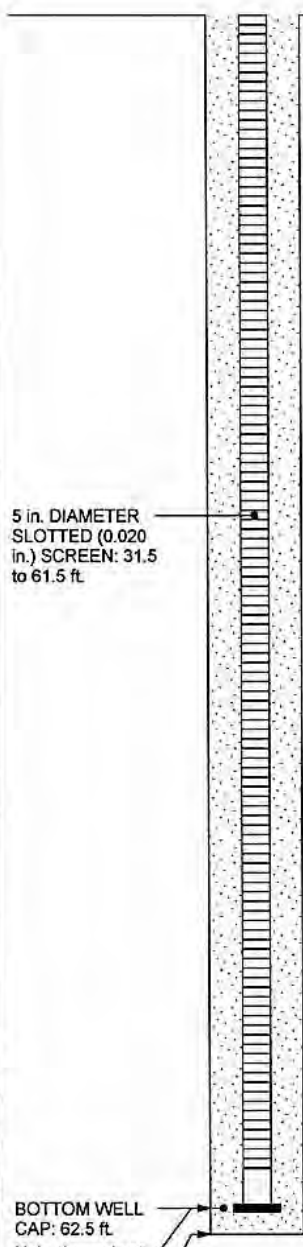
Fort Ord, California

**A65**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	MDT / cm	11/04	

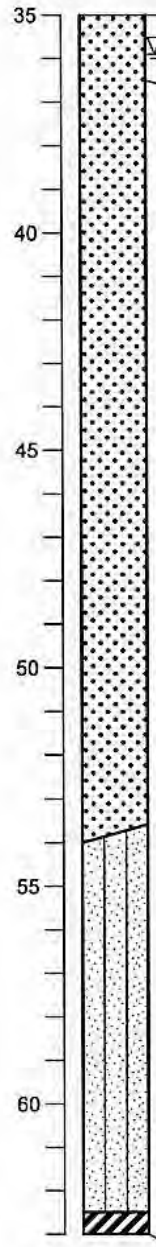
Completion Date 5/9/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 44.76 ft. Hole Dia. 12 in.  
 Northing 2144543.607 Easting 5742882.197

Depth (ft.)  
 Sample



5 in. DIAMETER  
 SLOTTED (0.020  
 in.) SCREEN: 31.5  
 to 61.5 ft.

BOTTOM WELL  
 CAP: 62.5 ft.  
 Hole cleaned out  
 to 62.5 ft.  
 Bottom of boring  
 at 63 ft.



@ 35 ft.: Change to YELLOWISH BROWN (10YR 5/4) medium dense, moist, 80% fine to medium sand, 15% coarse sand, 5% silt  
 @ 36.5 ft.: Driller notes a change - possible water

@ 45 ft.: Change to PALE BROWN (10YR 6/3) wet, 80% fine to coarse sand, 15% fine gravel (3-7 mm), 5% silt, trace shell fragments, mica

@ 52 ft.: Increase in grain size

LIGHT OLIVE GRAY SILTY SAND WITH GRAVEL (SM) (5Y 6/2) Medium dense, wet, 60% fine to coarse sand, 15% fine gravel, 15% silt

@ 58-59 ft.: Driller notes tighter drilling

OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Very dense, moist  
 Bottom of boring at 63 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-49-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A65**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / amr*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 178.65 ft.

Completion Date 6/24/2003  
Drilling Method Sonic  
Logged by D. Browne  
Surface Elevation 176 ft. Hole Dia. 7 in.  
Northing 2137526.1 Easting 5748379.3

GROUND SURFACE

Top of casing at  
2.5 ft. above  
ground level

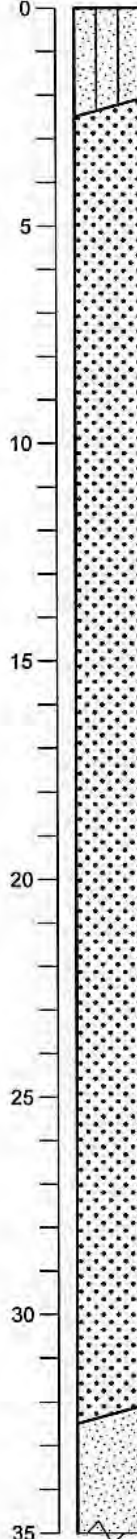
7 in. DIA.  
BOREHOLE: 0 to  
245 ft.

3 in. DIA.  
SCHEDULE 40  
PVC BLANK  
CASING: 1 to 200  
ft.

BENTONITE-  
CEMENT SEAL: 0  
to 25 ft.

BENTONITE  
SLURRY: 25 to  
188 ft.

Depth (ft.)  
Sample



VERY DARK GRAYISH BROWN SILTY  
SAND (SM) (10YR 3/2) Loose, dry, 85%  
fine to coarse sand, 15% silt

DARK BROWN WELL GRADED SAND  
(SW) (10YR 3/3) Loose, dry, 90% fine to  
coarse sand, 10% silt

@ 6 ft.: Change to BROWN (10YR 4/3)

@ 7 ft.: Change to YELLOWISH BROWN  
(10YR 5/5)

@ 9 ft.: Change to YELLOWISH BROWN  
(10YR 5/4)

@ 12 ft.: Similar to above

@ 14 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/6)

@ 16 ft.: Change to YELLOWISH BROWN  
(10YR 5/6)

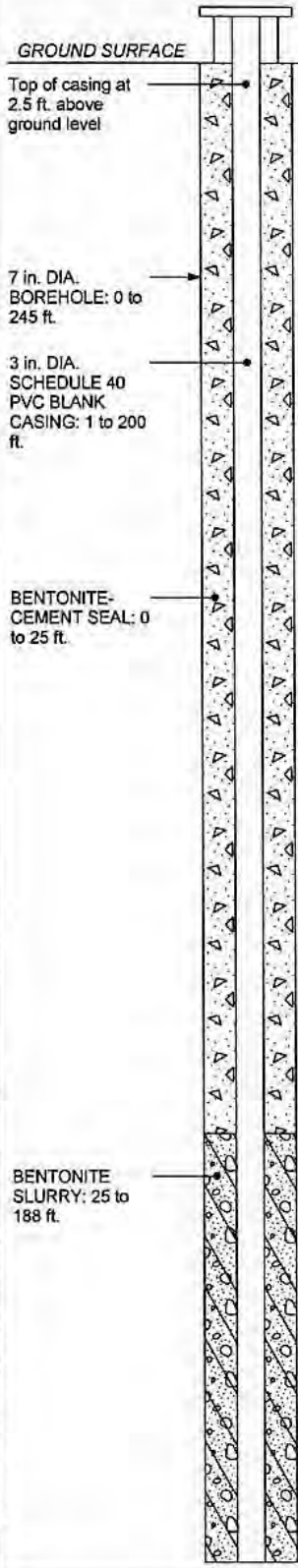
@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR 5/6) Loose, dry, 90% fine  
to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_12/7/05



Well Construction Details and  
Log of Boring MW-BW-50-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A66**

DRAWN  
MBP

JOB NUMBER  
55596 001701

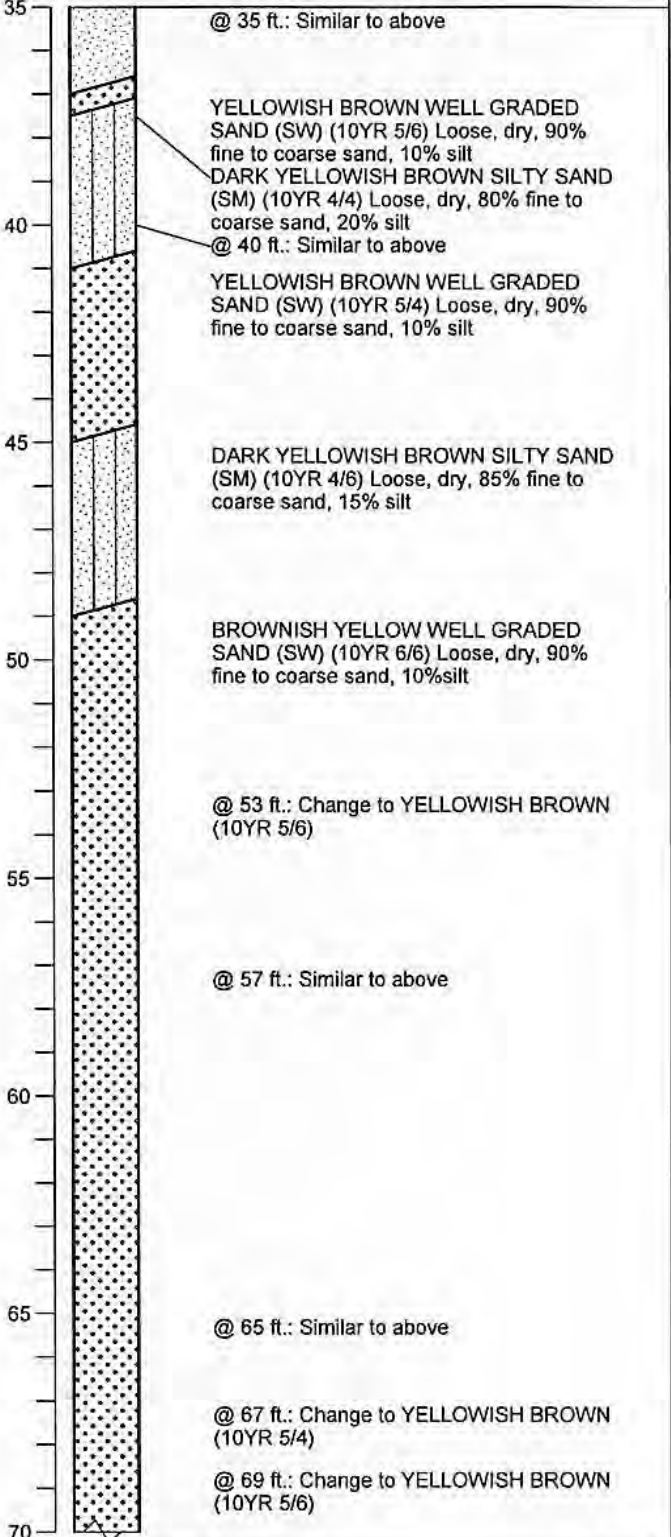
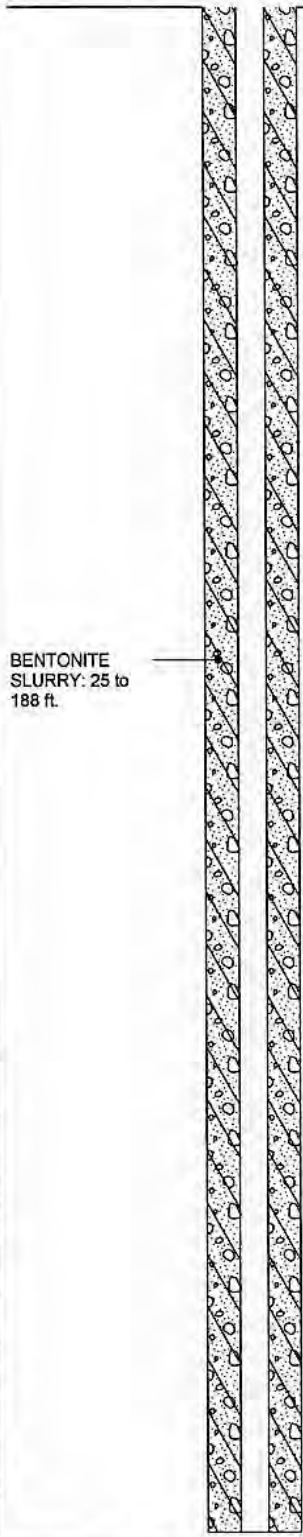
APPROVED  
*MDT/can*

DATE  
1/05

REVISED DATE

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-50-180**  
 OUCTP

PLATE

Fort Ord, California

**A66**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / cm*

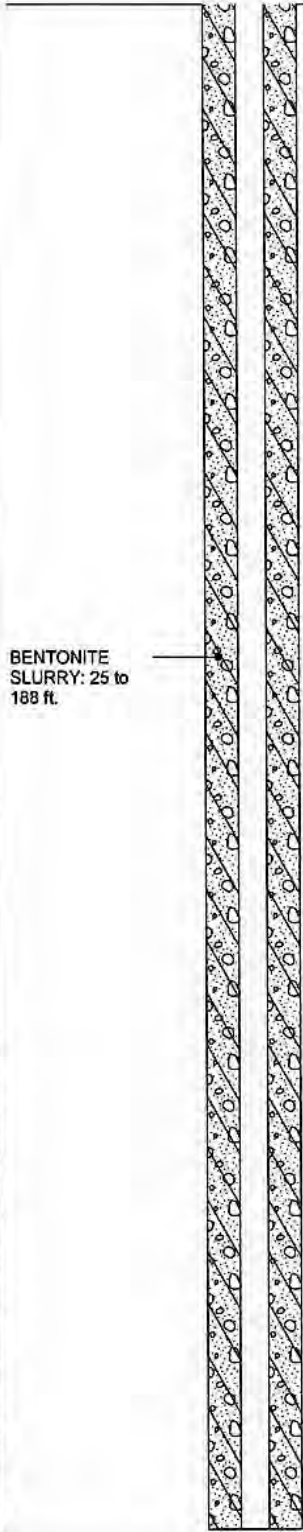
DATE  
 1/05

REVISED DATE



Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 188 ft.

70  
 75  
 80  
 85  
 90  
 95  
 100  
 105

@ 70 ft.: Similar to above  
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 75 ft. : Similar to above  
 @ 80 ft.: Similar to above  
 LIGHT GRAY SILTY SAND (SM) ( 2.5Y 7/2) Loose, dry, 70% fine to medium sand, 30% silt  
 LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, dry, 90% fine to medium sand, 10% silt  
 LIGHT GRAY SILTY SAND (SM) (2.5Y 7/2) Loose, dry, 70% fine to medium sand, 30% silt, Layer 3 in. thick  
 LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 86 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)  
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt  
 @ 90 ft.: Change to Loose, wet  
 @ 92 ft.: Similar to above  
 @ 100 ft.: Similar to above  
 @ 101.5 ft.: Change to OLIVE GRAY (2.5Y 5/2)  
 @ 103 ft.: Change to YELLOWISH BROWN (10YR 5/6)

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and Log of Boring MW-BW-50-180** PLATE  
 OUCTP



**MACTEC**

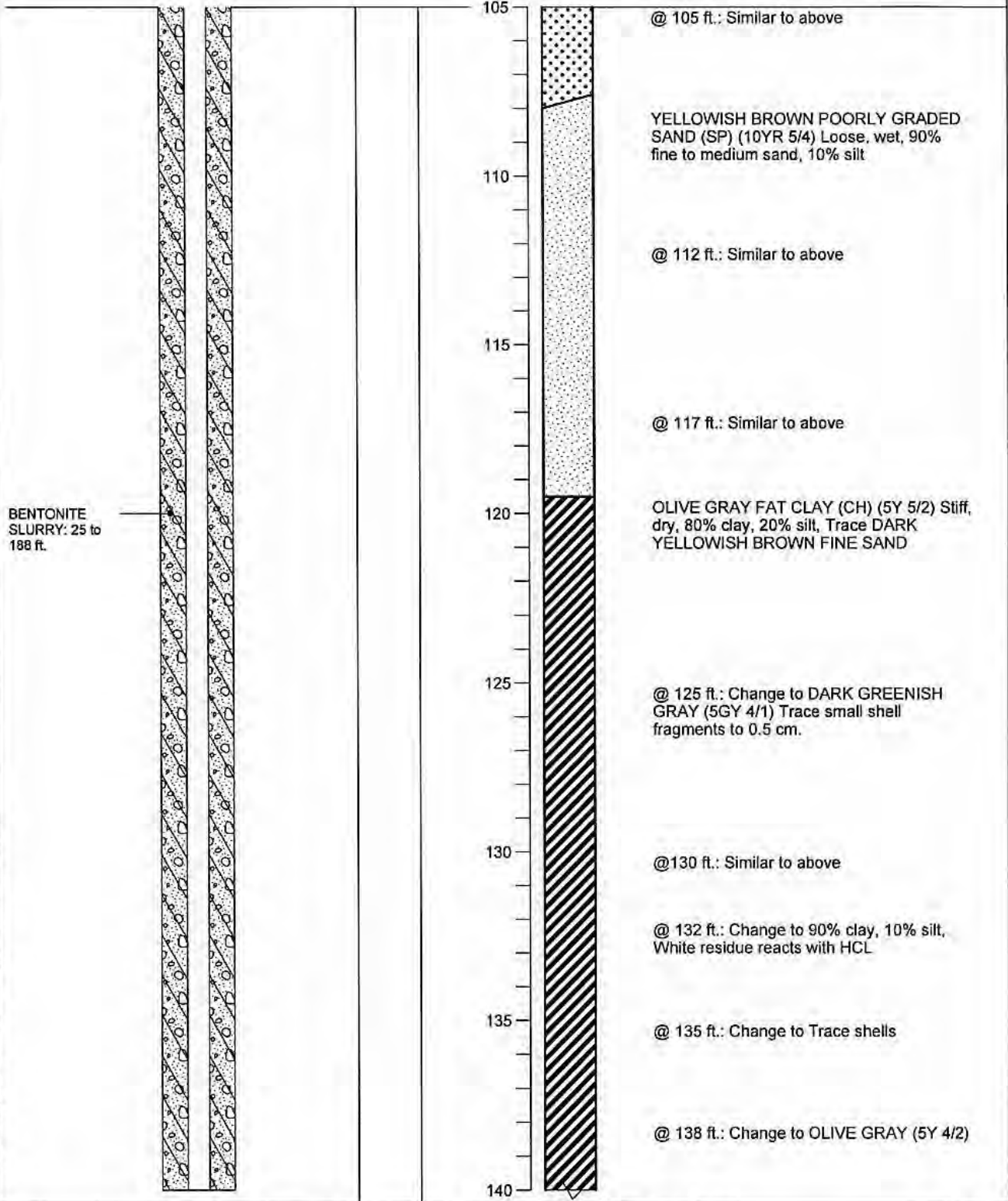
Fort Ord, California

**A66**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / can</i>	1/05	

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-50-180**  
 OUCTP

PLATE

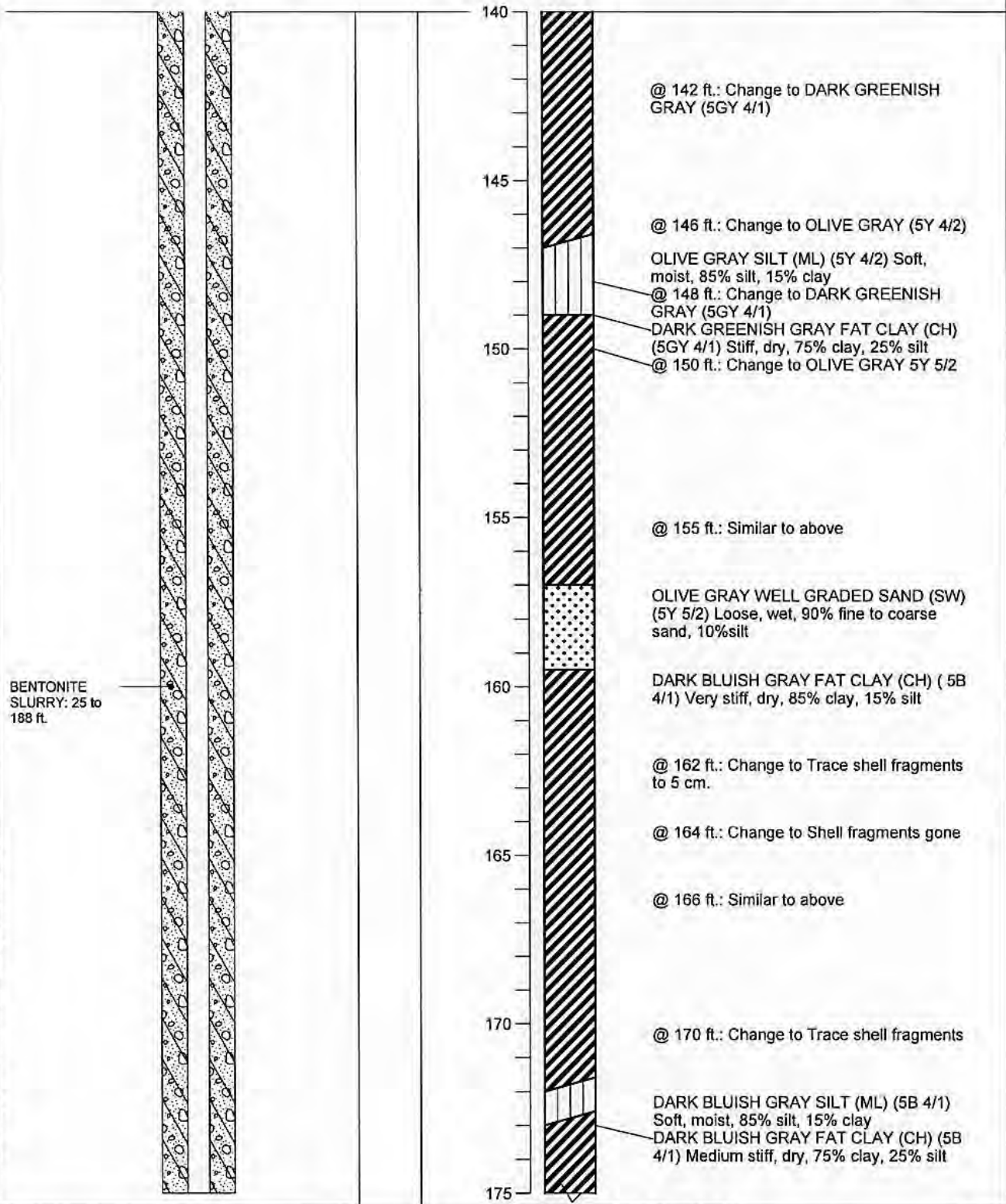
**A66**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	1/05	

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**MACTEC**  
 DRAWN MBP  
 JOB NUMBER 55596 001701

**Well Construction Details and Log of Boring MW-BW-50-180**  
 OUCTP  
 Fort Ord, California

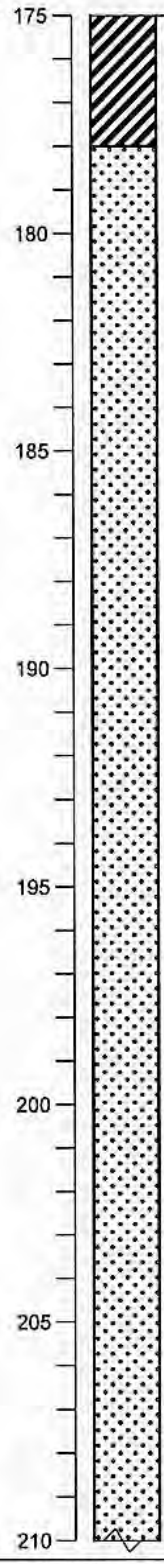
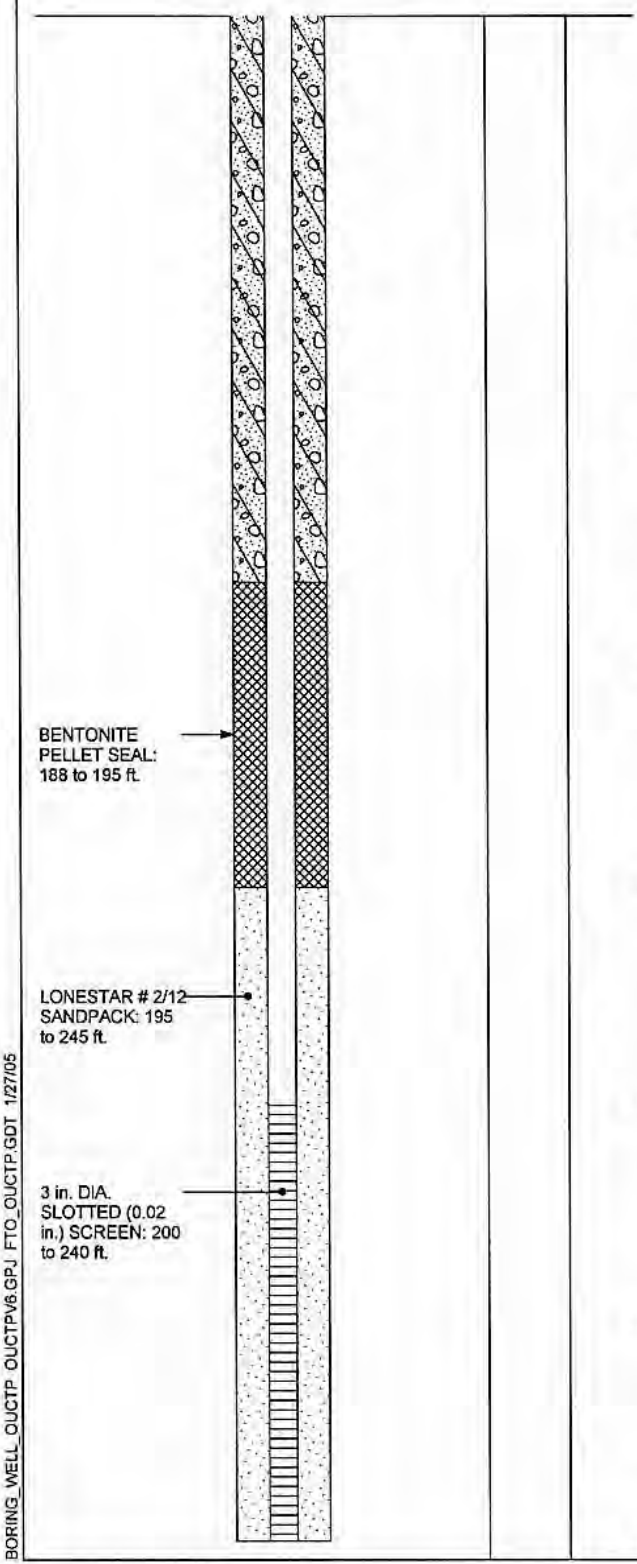
PLATE

**A66**

APPROVED *MDT/can* DATE 1/05  
 REVISED DATE

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



@ 175 ft.: Change to 90% clay, 10% silt

@ 176 ft.: Change to DARK BLUISH GRAY SANDY FAT CLAY Stiff, dry, 70% clay, 20% fine sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/6) Loose, wet, 90% fine to coarse sand, 10% silt

@ 185 ft.: Similar to above

@ 190 ft.: Change to Increase in coarse sand

@ 194 ft.: Change to Increase in coarse sand (#3)

@ 200 ft.: Similar to above

@ 205 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV8.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring MW-BW-50-180 OUCTP

PLATE



MACTEC

Fort Ord, California

**A66**

DRAWN  
MBP

JOB NUMBER  
55596 001701

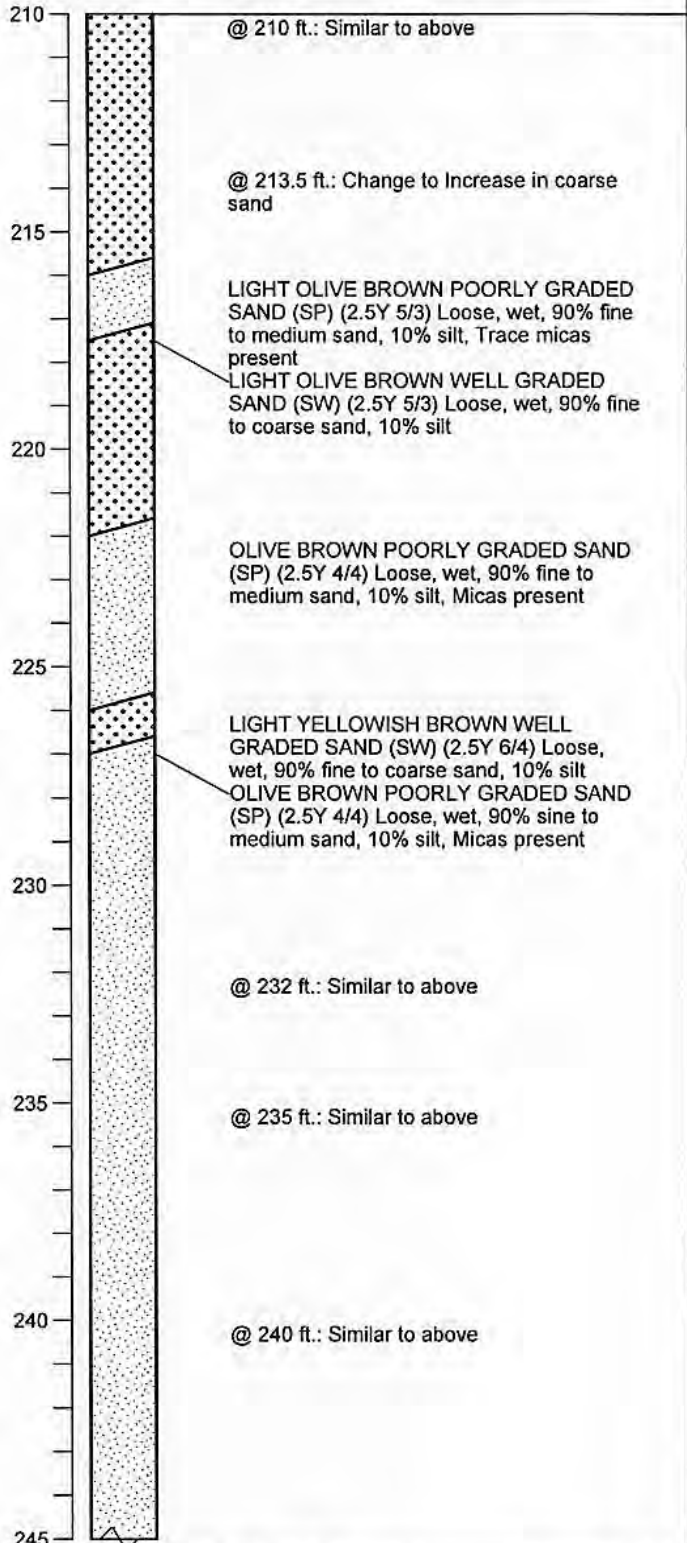
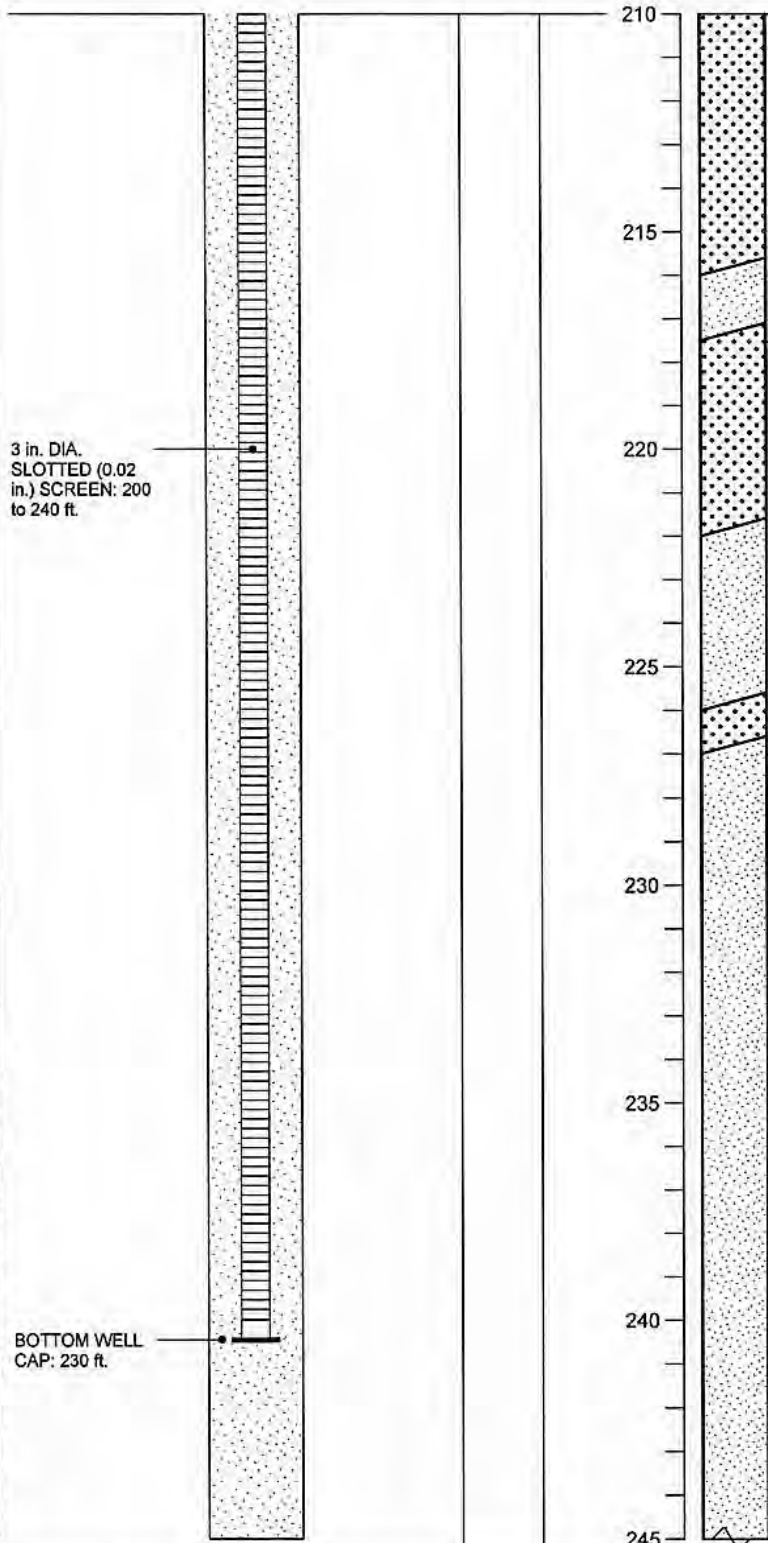
APPROVED  
*MDT / cm*

DATE  
1/05

REVISED DATE

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

**MACTEC** PLATE

**Well Construction Details and Log of Boring MW-BW-50-180**

OUCTP

Fort Ord, California

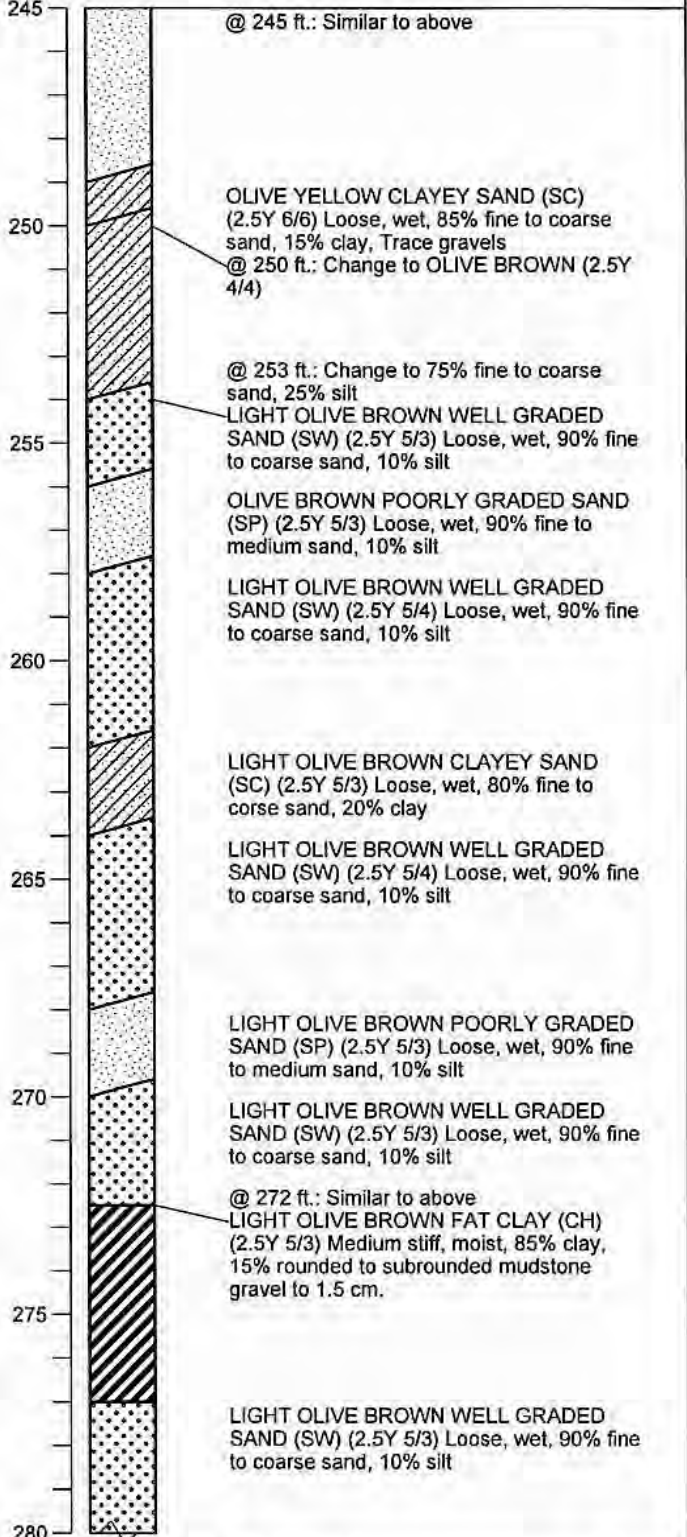
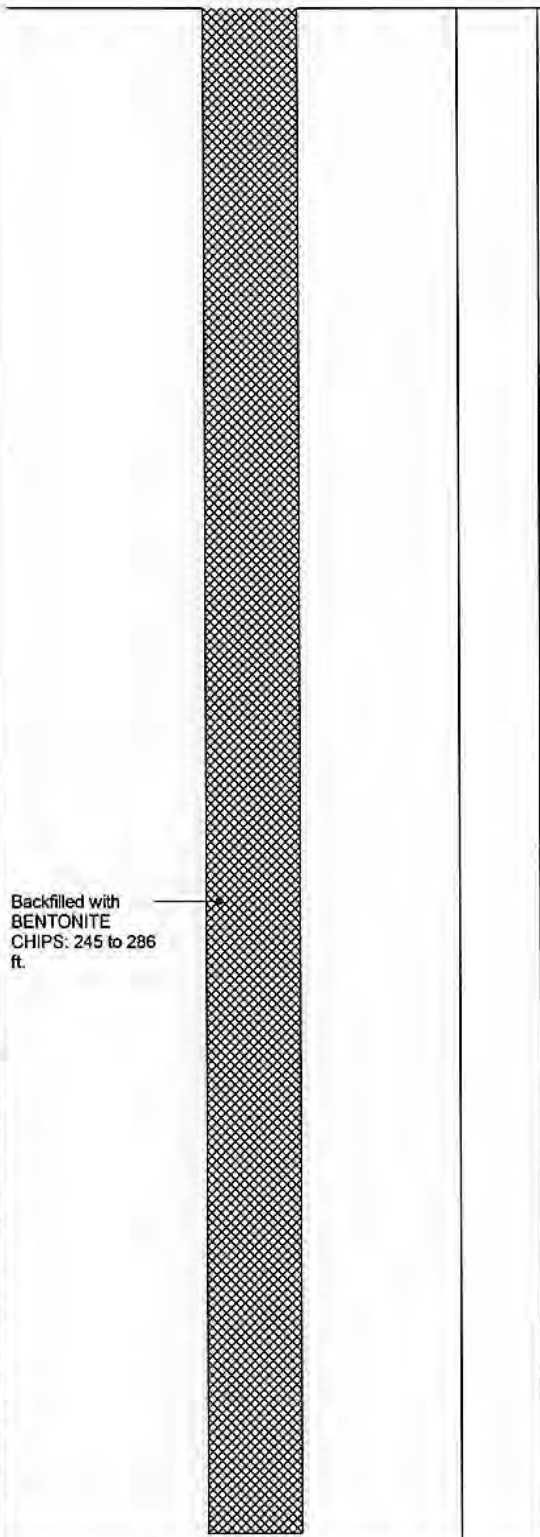
**A66**

DRAWN: MBP      JOB NUMBER: 55596 001701      APPROVED: MDT / *car*      DATE: 1/05      REVISED DATE:



Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTP#6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Backfilled with BENTONITE CHIPS: 245 to 286 ft.

**Well Construction Details and Log of Boring MW-BW-50-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A66**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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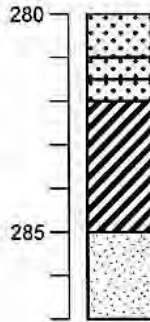
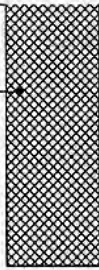
DATE  
 1/05

REVISED DATE

Completion Date 6/24/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 176 ft. Hole Dia. 7 in.  
 Northing 2137526.1 Easting 5748379.3


Depth (ft.)  
 Sample

Backfilled with  
 BENTONITE  
 CHIPS: 245 to 286  
 ft.



@ 281 ft.: Change to YELLOWISH BROWN (10YR 5/4) Increase in coarse sand (#3) LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt  
 LIGHT YELLOWISH BROWN FAT CLAY (CH) (2.5Y 5/6) Stiff, dry, 80% clay, 20% silt  
 @ 284 ft.: Change to OLIVE GRAY (5Y 5/2) LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt  
 Bottom of boring at 287 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05



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 DRAWN  
 MBP

**Well Construction Details and  
 Log of Boring MW-BW-50-180**  
 OUCTP

Fort Ord, California

JOB NUMBER  
 55596 001701

APPROVED  
*MDT /um*

DATE  
 1/05

REVISED DATE

**A66**

PLATE

Top of PVC Casing  
Elev. 182.25 ft.

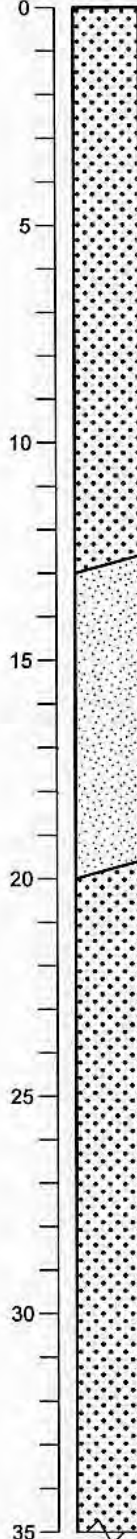
Completion Date 5/22/2001  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 180.30 ft. Hole Dia. 12 in.  
Northing 2137582.318 Easting 5748400.076

GROUND SURFACE

5 in. DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: +1.95 to  
96 ft.

12 in. DIAMETER  
BOREHOLE: 0 to  
130 ft.

Depth (ft.)  
Sample



LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Loose, dry, 50% fine sand, 35% medium sand, 10% fines, 5% coarse sand

@ 1.5 ft.: Change to VERY DARK GRAY (2.5Y 3/1) 60% fine sand, 35% medium sand, 5% fines, no odor

@ 5 ft.: Change to DARK BROWN (7.5YR 3/3) 70% fine sand, 25% medium sand, 5% fines

@ 8 ft.: Change to YELLOWISH BROWN (10YR 5/6) 50% fine sand, 50% medium sand, no odor

@ 10 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

YELLOW POORLY GRADED SAND (SP) (10YR 7/6) Loose, dry, 95% fine sand, 5% medium sand

@ 15 ft.: Change to YELLOWISH BROWN (10YR 5/6) trace medium sand

BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/8) 85% fine sand, 15% medium sand, no odor

@ 30 ft.: Change to YELLOWISH BROWN (10YR 5/6) 70% fine sand, 30% medium sand

BORING\_WELL\_OUCTP6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
Log of Boring MW-BW-50-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A67**

DRAWN  
PCB

JOB NUMBER  
55596 001701

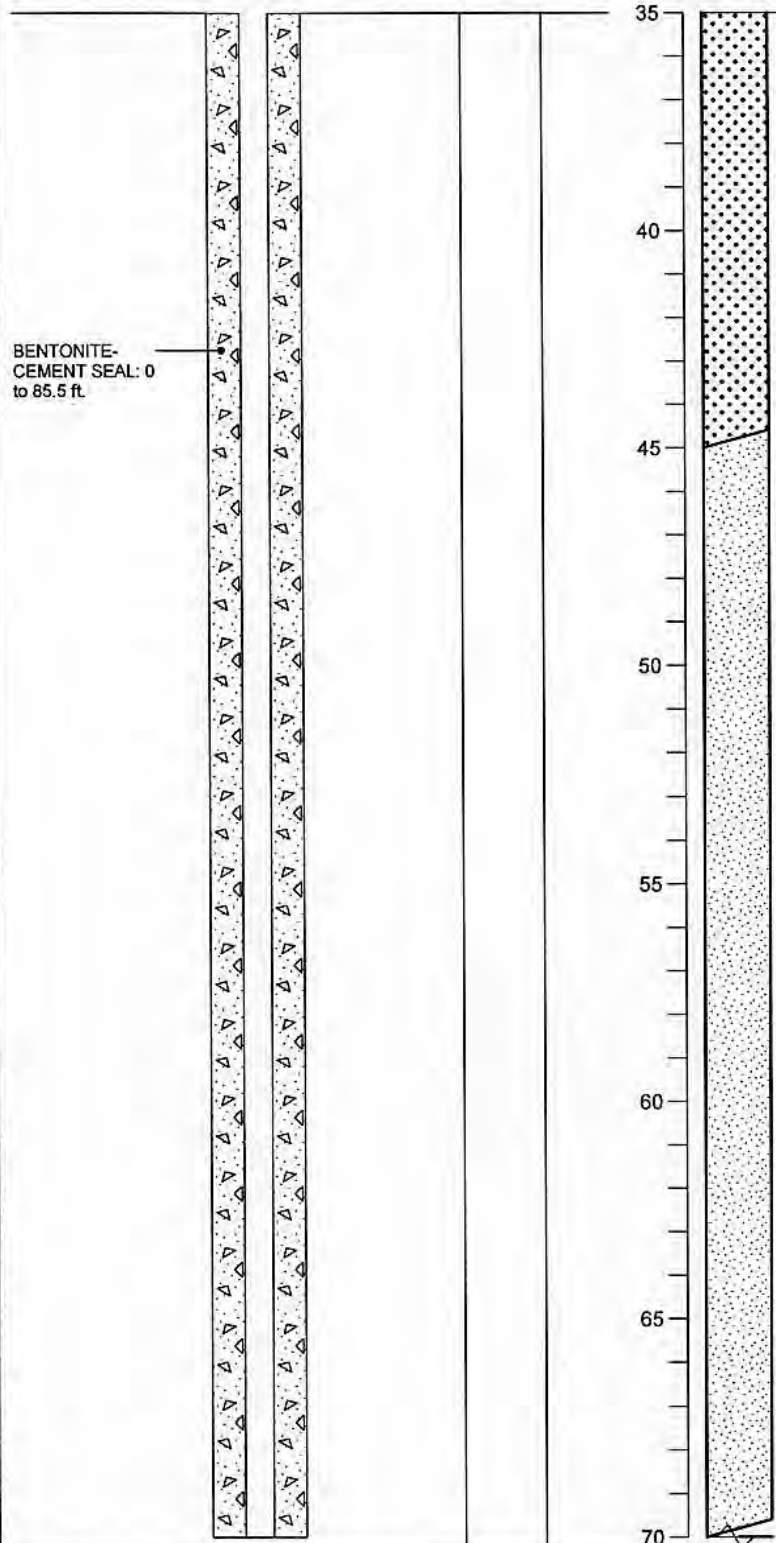
APPROVED  
*MST/cw*

DATE  
11/04

REVISED DATE

Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 180.30 ft. Hole Dia. 12 in.  
 Northing 2137582.318 Easting 5748400.076

Depth (ft.)  
 Sample



BENTONITE-  
 CEMENT SEAL: 0  
 to 85.5 ft.

@ 40 ft.: Change to BROWNISH YELLOW  
 (10YR 6/6) 85% fine sand, 15% medium  
 sand, no odor

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/4) Medium dense,  
 moist, 90% fine sand, 10% medium sand,  
 trace fines

@ 50 ft.: Change to BROWNISH YELLOW  
 (10YR 6/8) 85% fine sand, 10% medium  
 sand, 5% fines

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-50-A**  
 OUCTP

PLATE

**MACTEC**  
 DRAWN PCB  
 JOB NUMBER 55596 001701

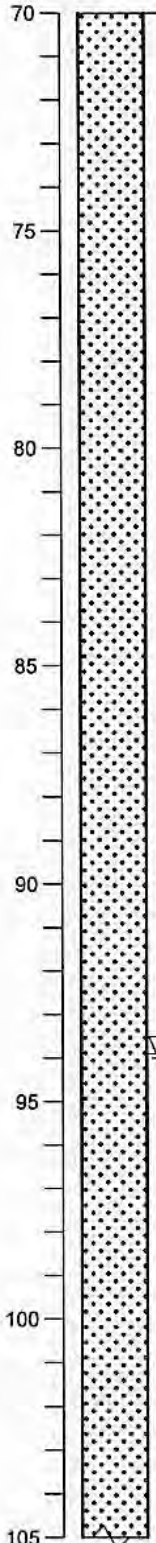
Fort Ord, California  
 APPROVED *MDT / am*

**A67**  
 REVISED DATE

DATE 11/04

Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 180.30 ft. Hole Dia. 12 in.  
 Northing 2137582.318 Easting 5748400.076

Depth (ft.)  
 Sample



BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/8) Medium dense, moist, 80% fine sand, 15% medium sand, 5% fines, no odor

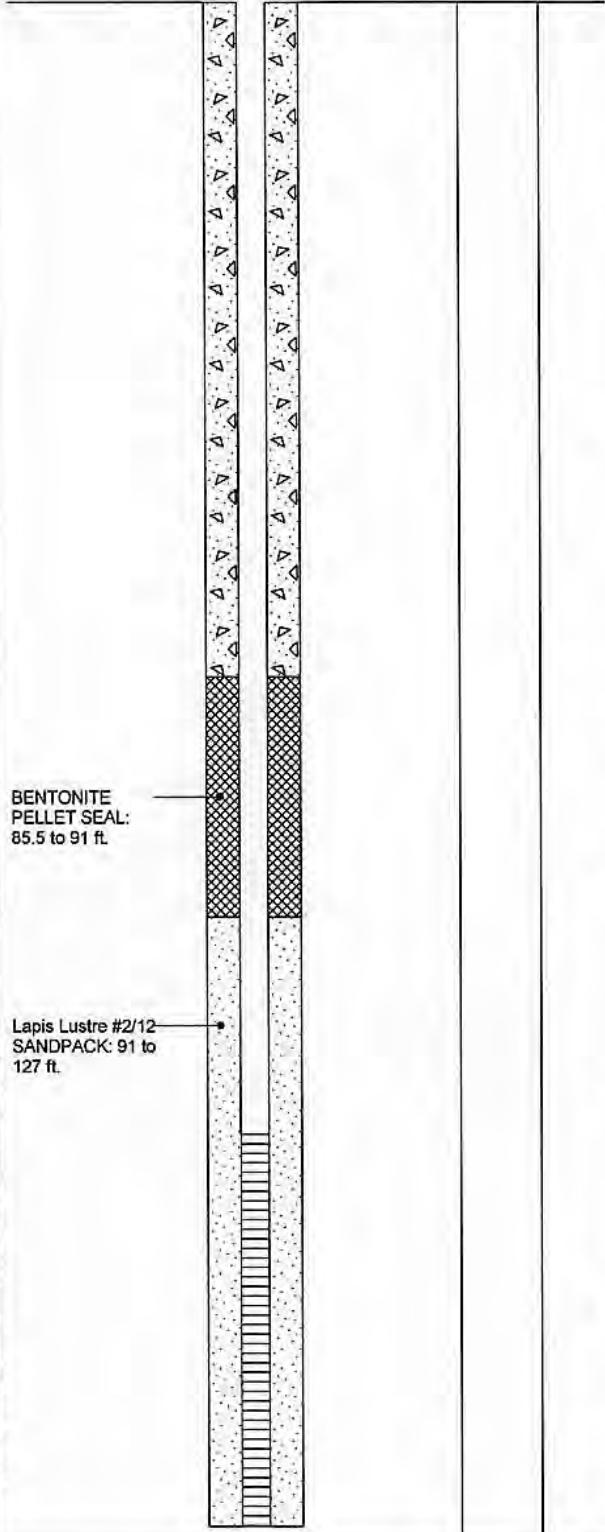
@ 75 ft.: Change to BROWNISH YELLOW (10YR 6/6) 75% fine sand, 20% medium sand, 5% fines

@ 85 ft.: Trace coarse sand

@ 90 ft.: Change to 70% fine sand, 20% medium sand, 10% fines

@ 95 ft.: Change to dense, trace coarse sand

@ 100 ft.: Change to 65% fine sand, 25% medium sand, 10% fines including small chunks of clayey silt



BENTONITE PELLETS SEAL: 85.5 to 91 ft.

Lapis Lustre #2/12 SANDPACK: 91 to 127 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-50-A

PLATE

**MACTEC**  
 DRAWN PCB  
 JOB NUMBER 55596 001701

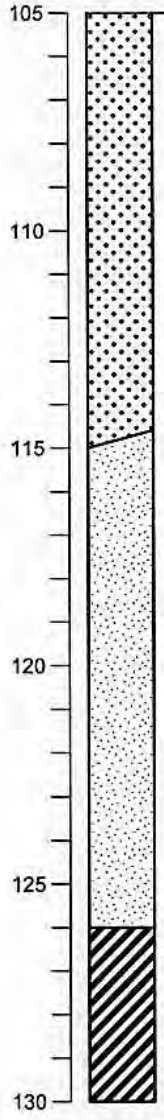
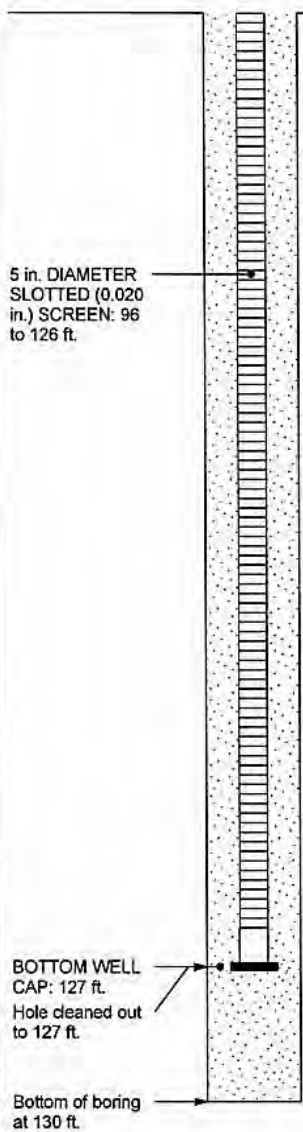
OUCTP  
 Fort Ord, California  
 APPROVED *MDT / car*

**A67**  
 DATE 11/04  
 REVISED DATE



Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 180.30 ft Hole Dia. 12 in.  
 Northing 2137582.318 Easting 5748400.076

Depth (ft.)  
Sample



@ 105 ft.: Change to 75% fine sand, 20% medium sand, 5% fines, no odor

@ 108 ft.: Change to YELLOWISH BROWN (10YR 5/6) 80% fine sand, 15% medium sand, 5% fines

YELLOWISH BROWN POORLY GRADED SAND (SP) Medium dense, wet, 90% fine sand, 10% fines, no odor

@ 120 ft.: Change to YELLOWISH BROWN (10YR 5/4) trace of mica

OLIVE FAT CLAY (CH) (5Y 4/3) Dense, moist, >95% clay

Bottom of boring at 130 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



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**Well Construction Details and  
 Log of Boring MW-BW-50-A**  
 OUCTP  
 Fort Ord, California

PLATE

**A67**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Top of PVC Casing  
 Elev. 148.83 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at 1  
 ft. below ground  
 level

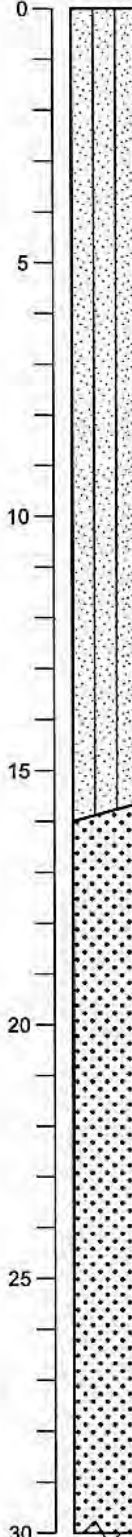
7 in. DIAMETER  
 BOREHOLE: 0 to  
 227 ft.

3 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 1 to 200  
 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 180 ft.

Depth (ft.)  
 Sample



VERY DARK GRAY SILTY SAND (SM) (5Y 3/1) Loose, wet, 80% fine to coarse sand, 20% silt

@ 2 ft.: Change to OLIVE BROWN SILTY SAND (2.5Y 4/3)

@ 4 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)

@ 5 ft.: Change to VERY DARK GRAY (2.5Y 3/1)

@ 8 ft.: Similar to above

@ 10 ft.: Change to 85% fine to coarse sand, 15% silt

@ 12 ft.: Change to Loose, moist

@ 14 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, moist, 90% fine to coarse sand, 10% silt

@ 19 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) Loose, dry

@ 24.5 ft.: Eight 1 in. layers of oxidized sands from 24 ft. to 25.5 ft.

BORING\_WELL\_OUCTP6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-51-180  
 OUCTP

PLATE



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Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*[Signature]*

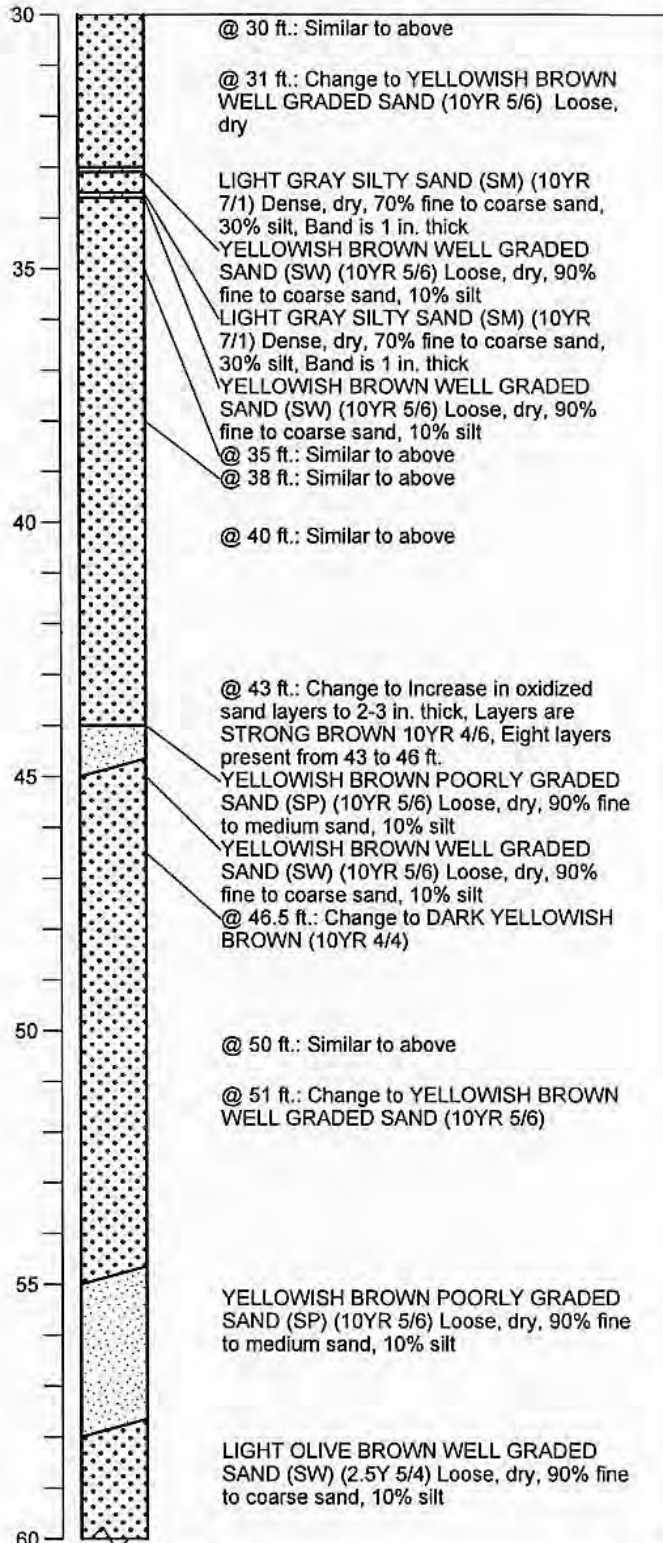
DATE  
 11/04

**A68**  
 REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 180 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-51-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A68**

DRAWN  
 MBP

JOB NUMBER  
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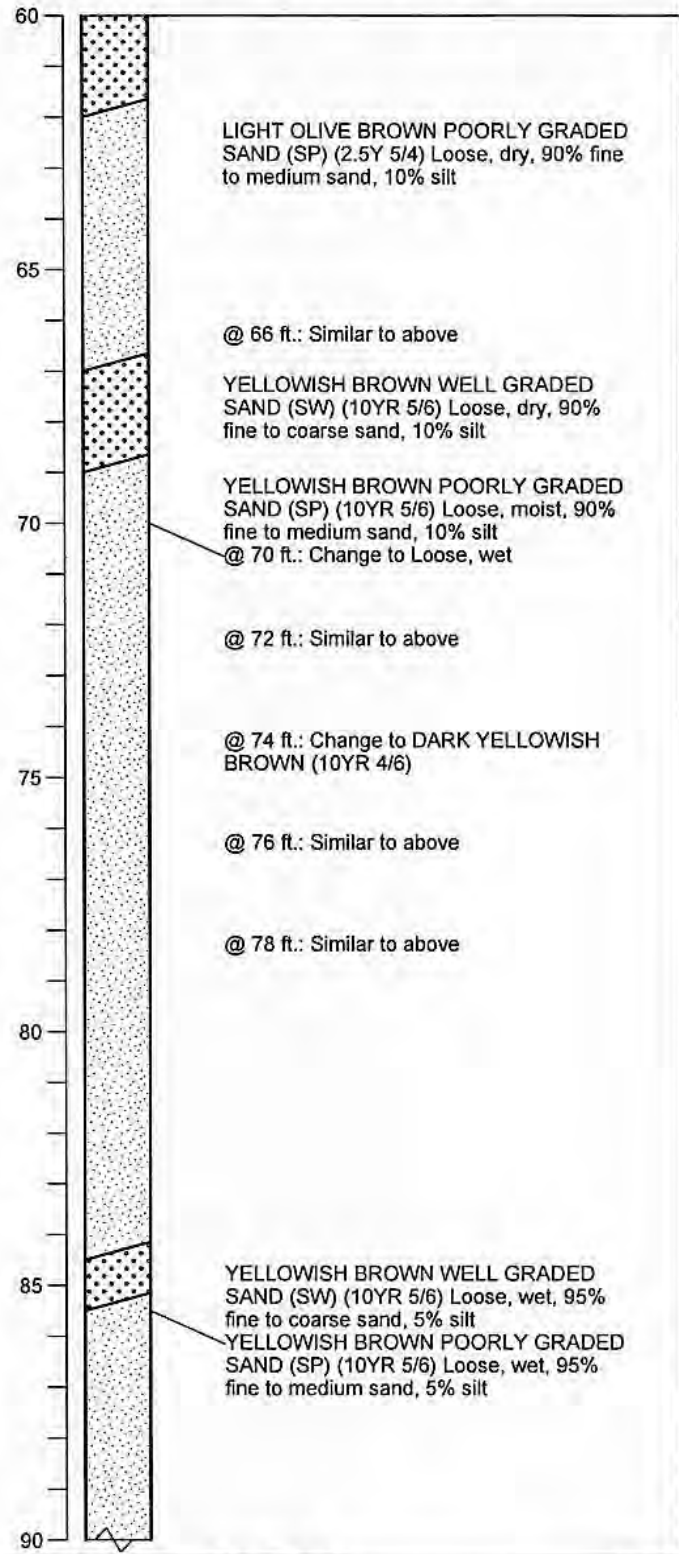
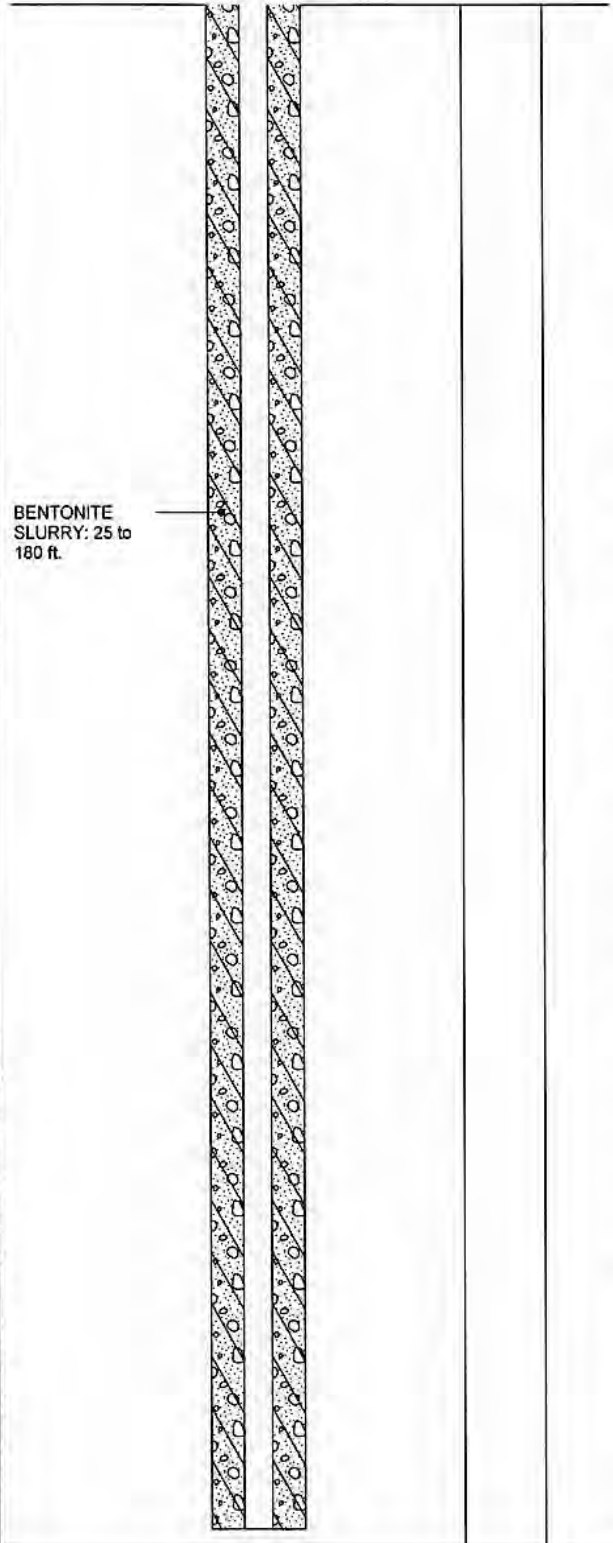
APPROVED  
*MBP / cm*

DATE  
 11/04

REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-51-180 PLATE  
 OUCTP

**MACTEC**

DRAWN MBP

JOB NUMBER  
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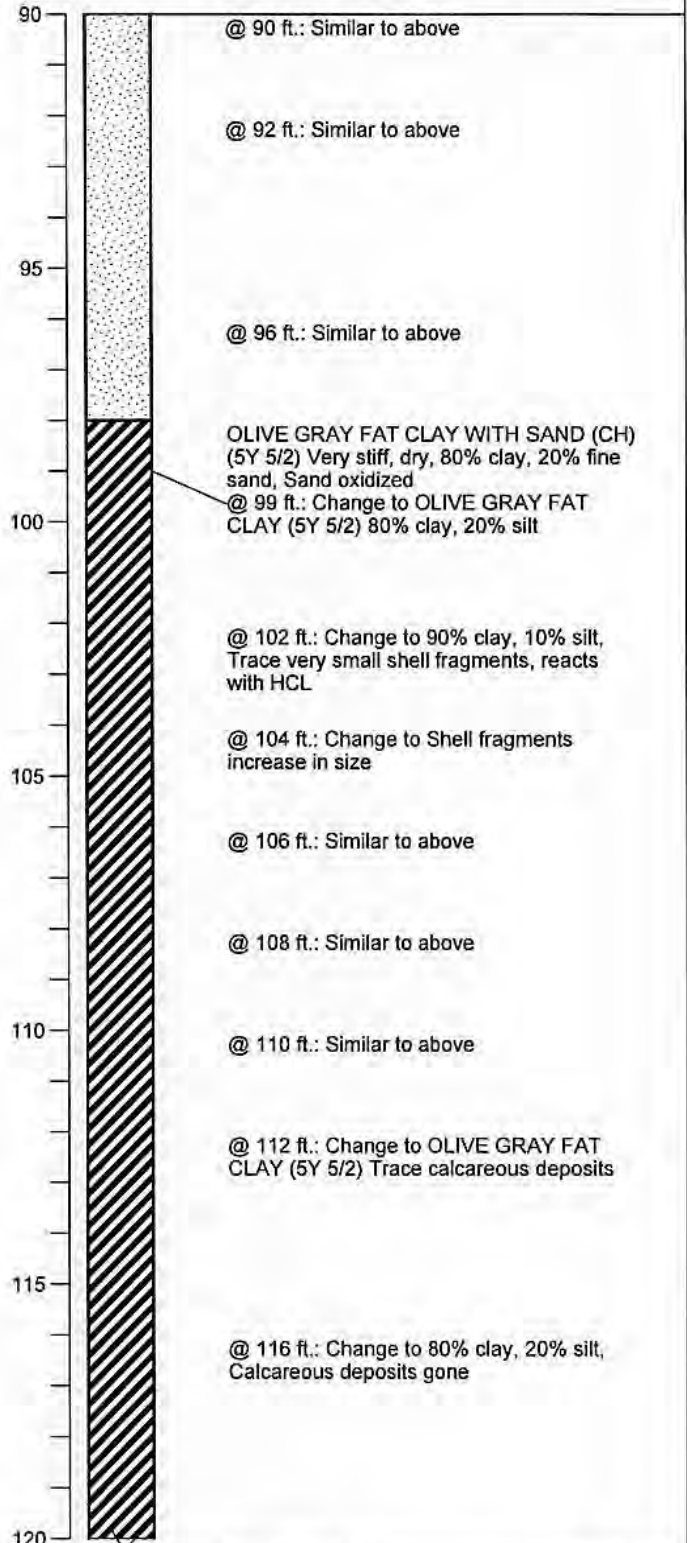
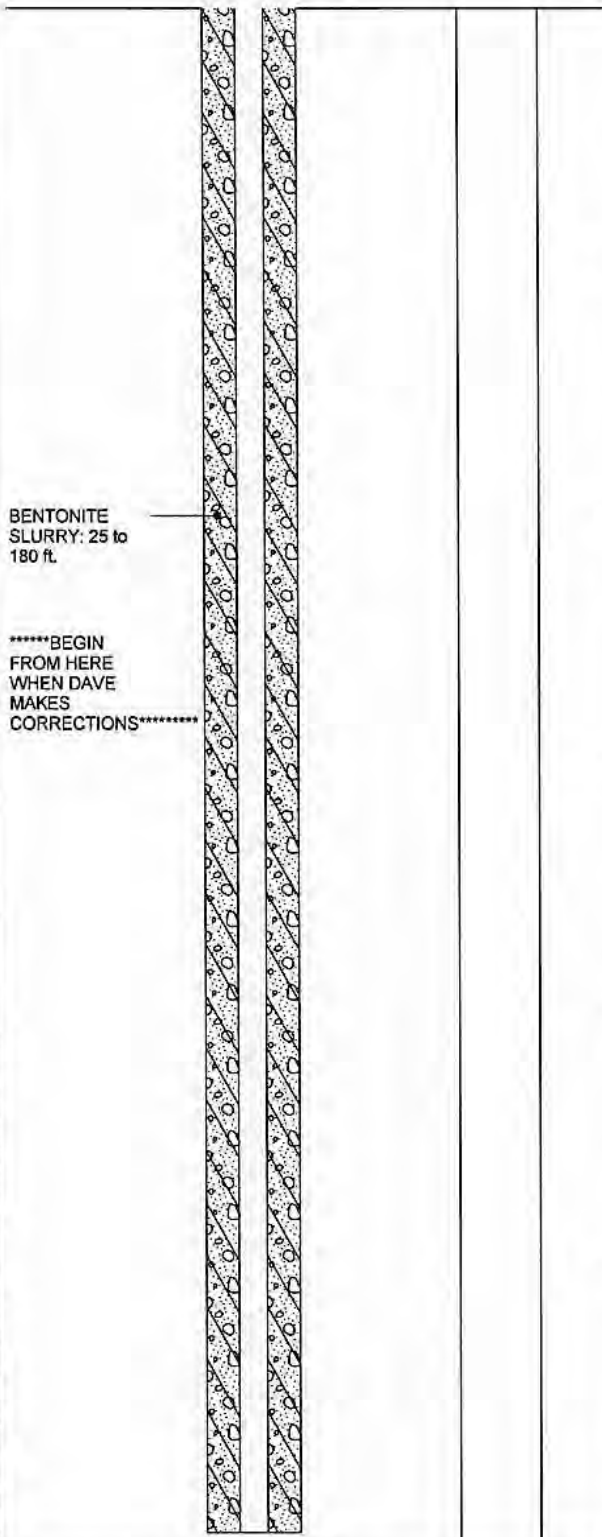
Fort Ord, California  
 APPROVED  
*MDT / CW*

DATE  
 11/04

**A68**  
 REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-51-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A68**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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*MDT / am*

DATE  
11/04

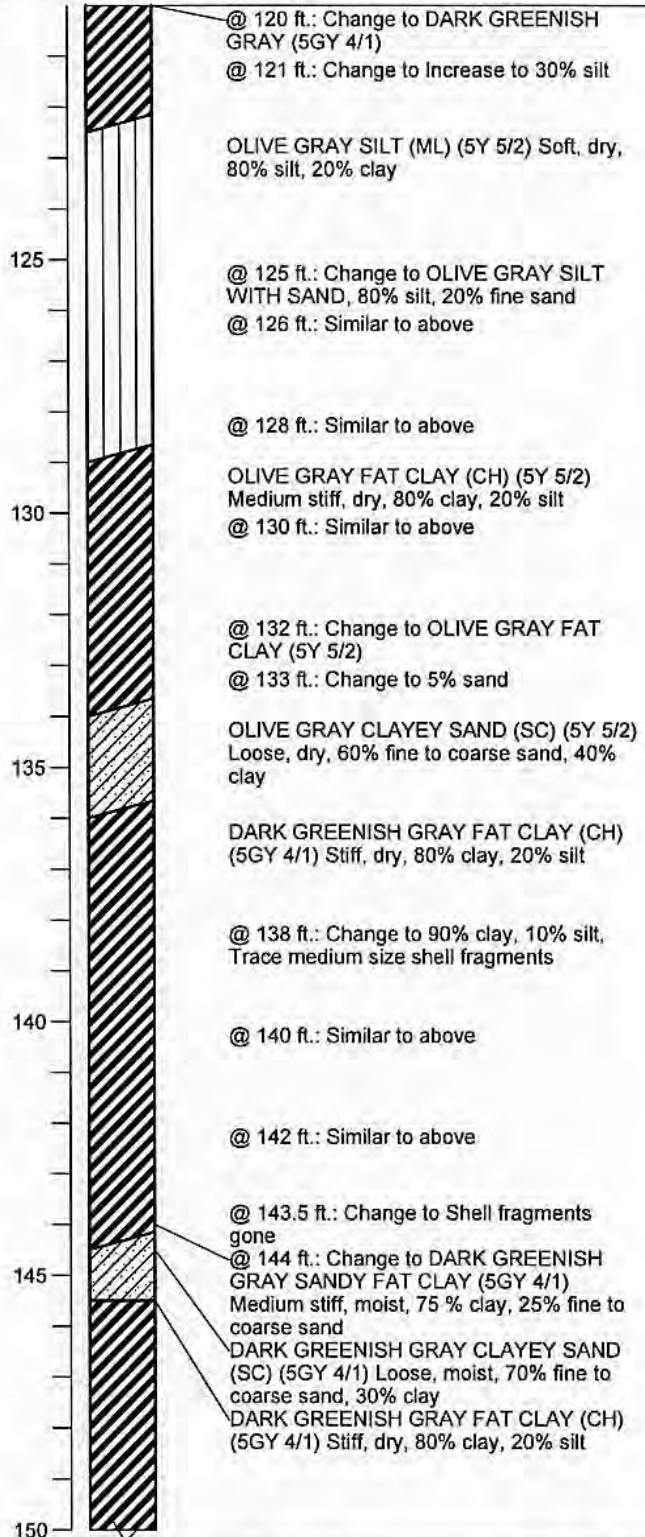
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Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 180 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-51-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A68**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

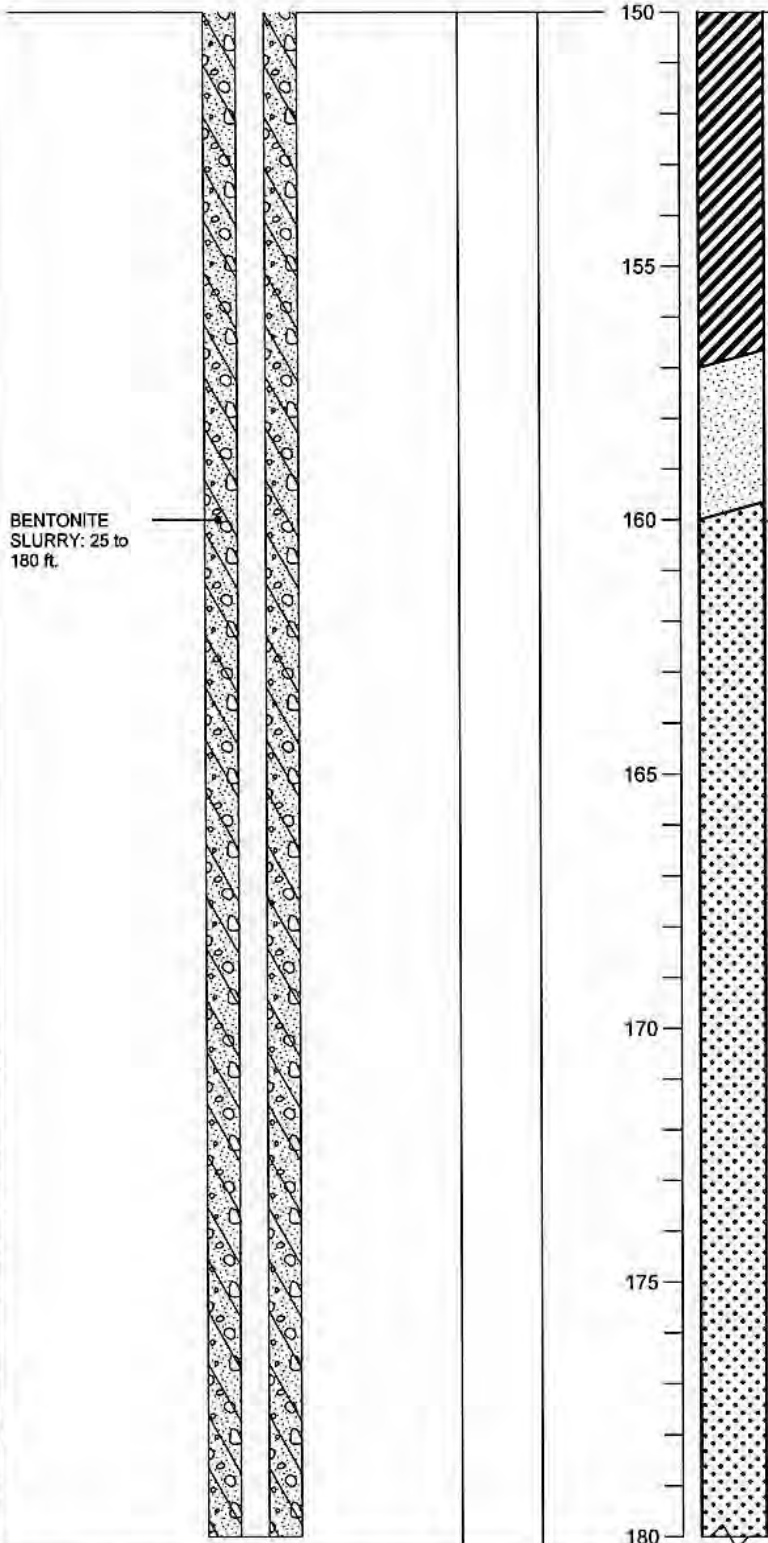
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 MDT / am

DATE  
 11/04

REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
 Sample



@ 150 ft.: Change to Soft, moist

@ 152 ft.: Similar to above

@ 155 ft.: Change to Stiff, dry

@ 156 ft.: Change to OLIVE GRAY (5Y 5/2) 80% clay, 15% silt, 5% fine to coarse sand OLIVE GRAY POORLY GRADED SAND (SP) (5Y 5/2) Loose, wet, 90% fine to medium sand, 10% clay

@ 159.5 ft.: Change to YELLOWISH BROWN (10YR 5/6) YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, wet, 90% fine to coarse sand, 10% silt

@ 163 ft.: Change to LIGHT YELLOWISH BROWN (10YR 6/4)

@ 166 ft.: Similar to above

@ 168 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 170 ft.: Similar to above

@ 177 ft.: Similar to above

@ 178 ft.: Change to Increase in coarse sand (#3)

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-51-180**  
 OUCTP

PLATE



**MACTEC**

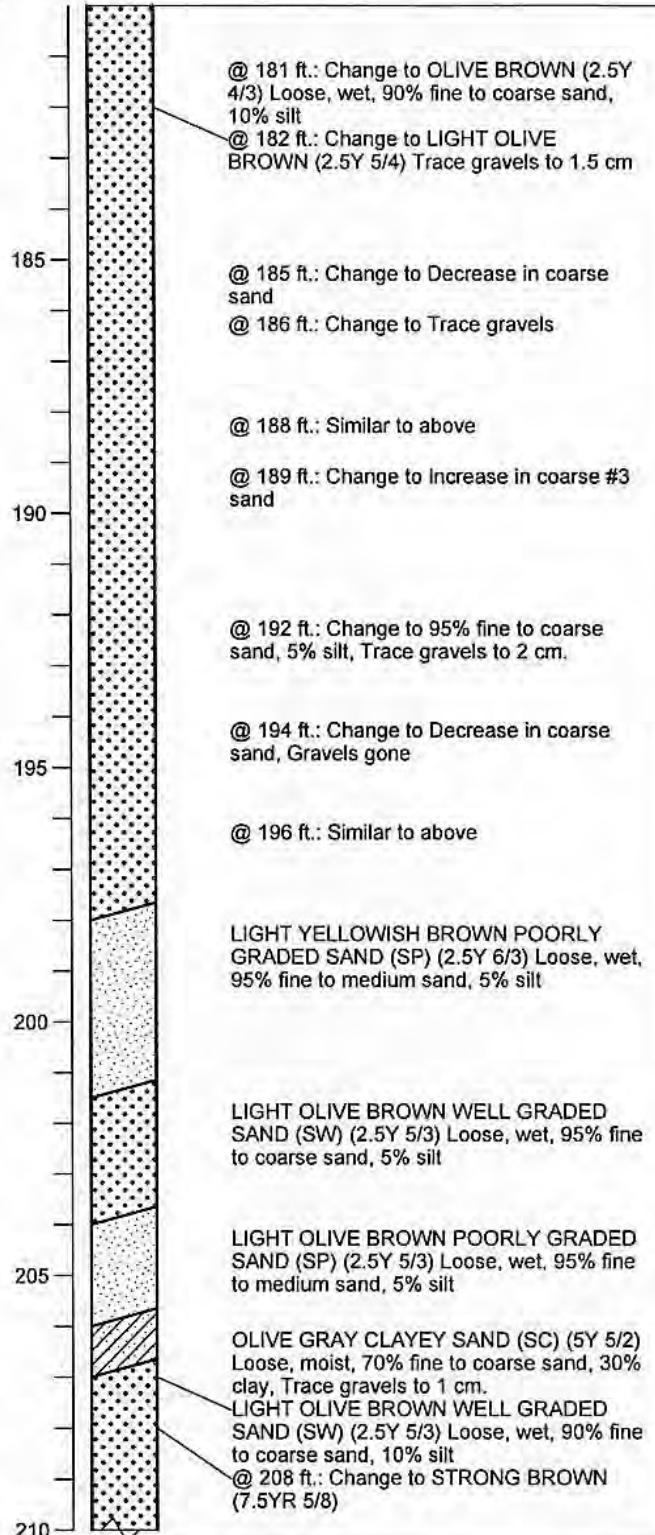
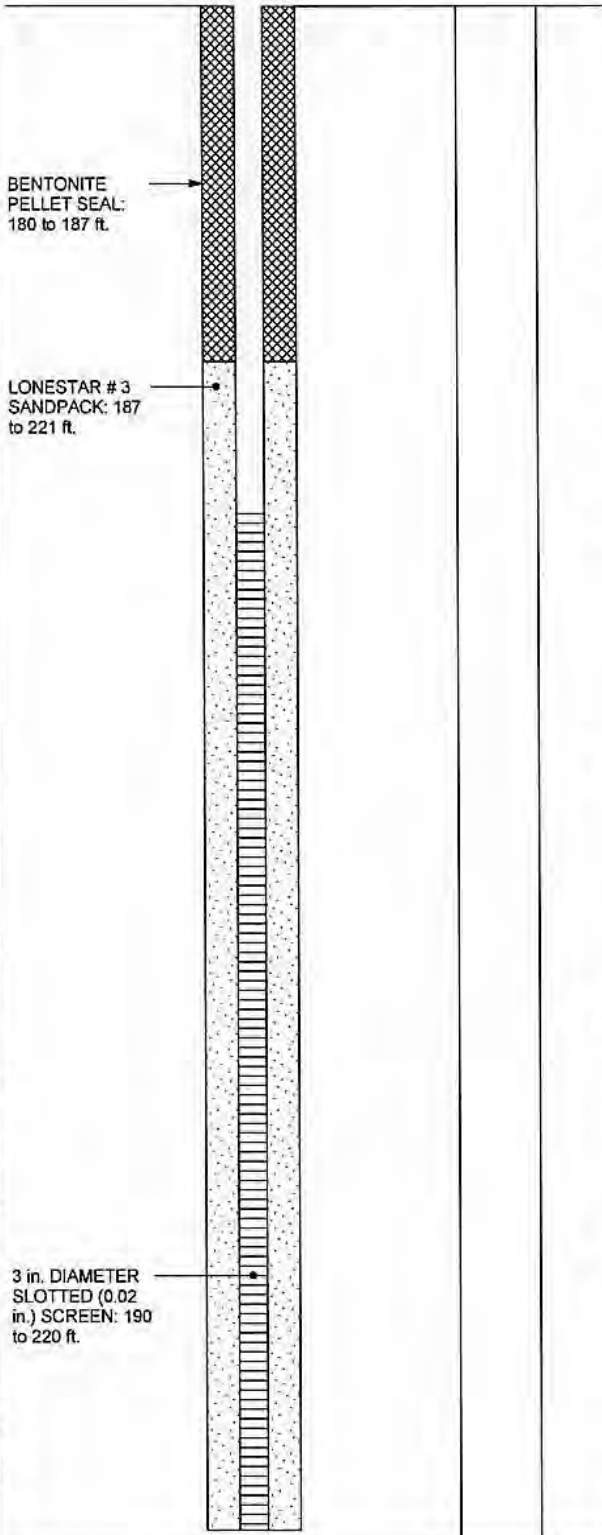
Fort Ord, California

**A68**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-51-180  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A68**

DRAWN  
MBP

JOB NUMBER  
55596 001701

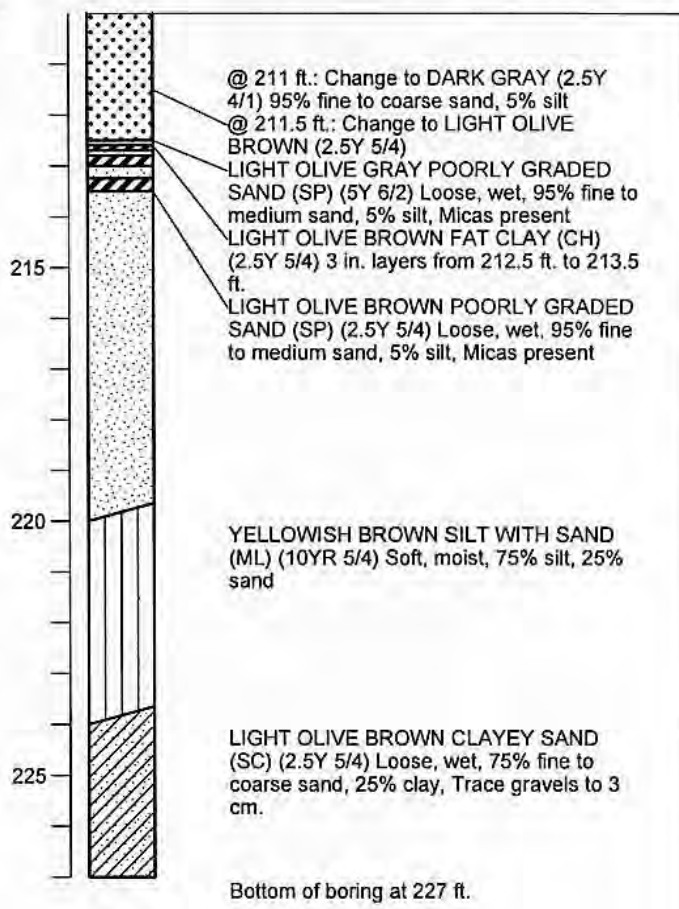
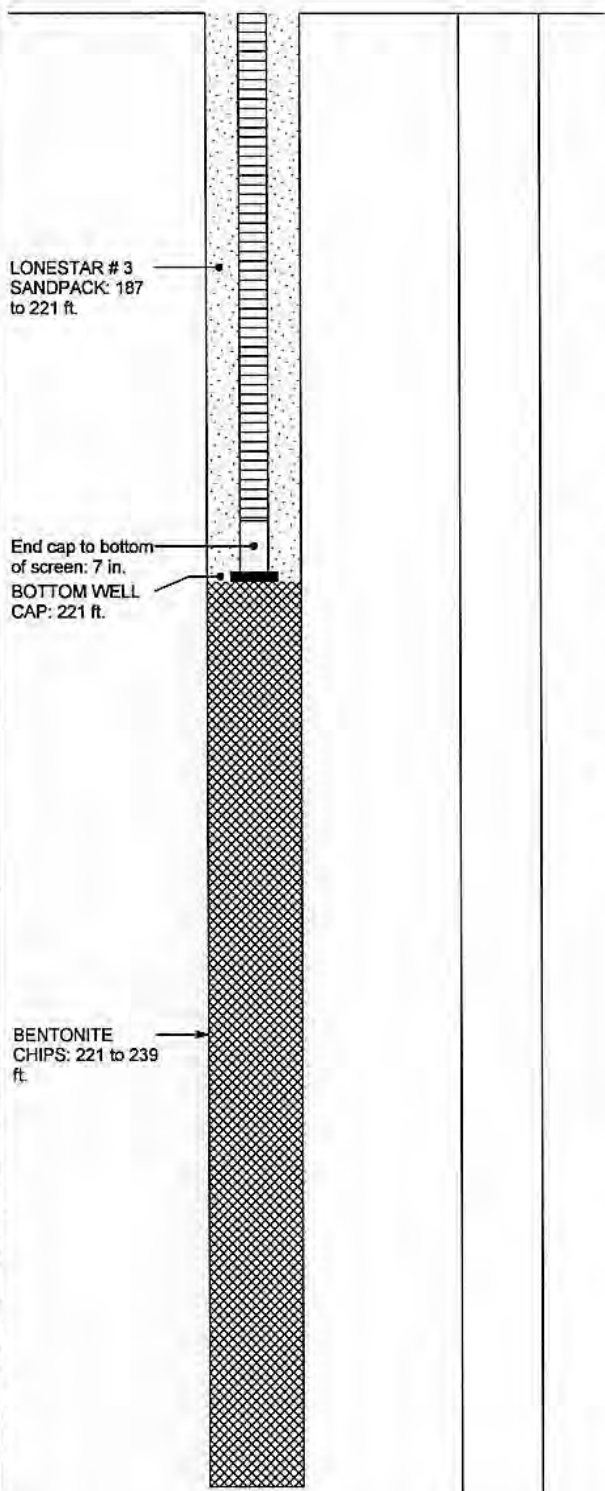
APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 4/14/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 149.67 ft. Hole Dia. 7 in.  
 Northing 2138332.9 Easting 5749006.67

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-51-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A68**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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*MOT/CM*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 146.14 ft.

Completion Date 5/22/2001  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 144.10 ft. Hole Dia. 12 in.  
Northing 2138565.331 Easting 5748907.55

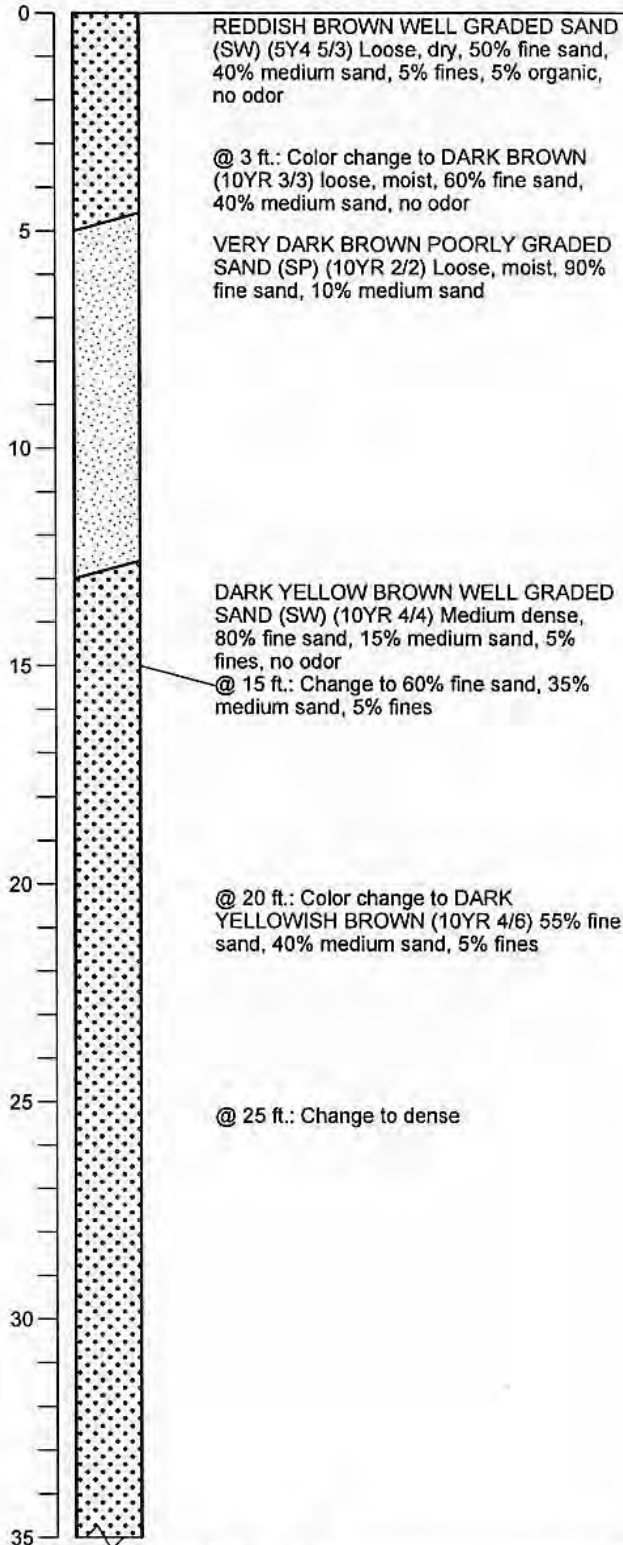
GROUND SURFACE

5 in. DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: +2.04 to  
62 ft.

12 in. DIAMETER  
BOREHOLE: 0 to  
93 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 52 ft.

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-51-A** PLATE  
OUCTP



**MACTEC**

Fort Ord, California

**A69**

DRAWN  
PCB

JOB NUMBER  
55596 001701

APPROVED  
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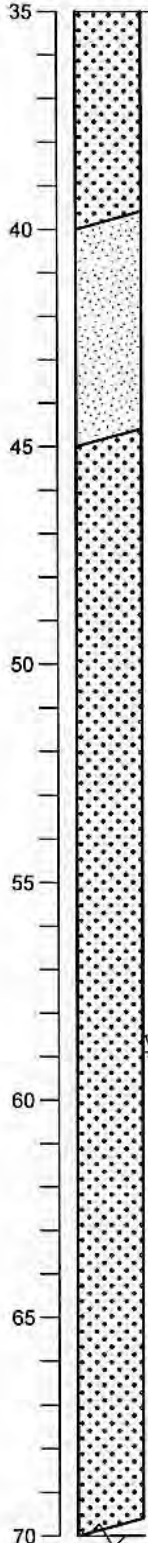
DATE  
11/04

REVISED DATE



Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.10 ft. Hole Dia. 12 in.  
 Northing 2138565.331 Easting 5748907.55

Depth (ft.)  
 Sample



@ 35 ft.: Color change to BROWNISH YELLOW (10YR 6/6) 50% fine sand, 45% medium sand, 5% fines, no odor

YELLOW POORLY GRADED SAND (SP) (10YR 7/6) Dense, moist, 95% fine sand, 5% fines

YELLOW WELL GRADED SAND (SW) (10YR 7/6) Dense, moist, 50% fine sand, 45% medium sand, 5% fines

@ 64 ft.: Driller notes change - possible water

BENTONITE PELLETS SEAL: 52 to 56 ft.

Lonestar #2/12 SANDPACK: 56 to 93 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-51-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A69**

DRAWN  
PCB

JOB NUMBER  
55596 001701

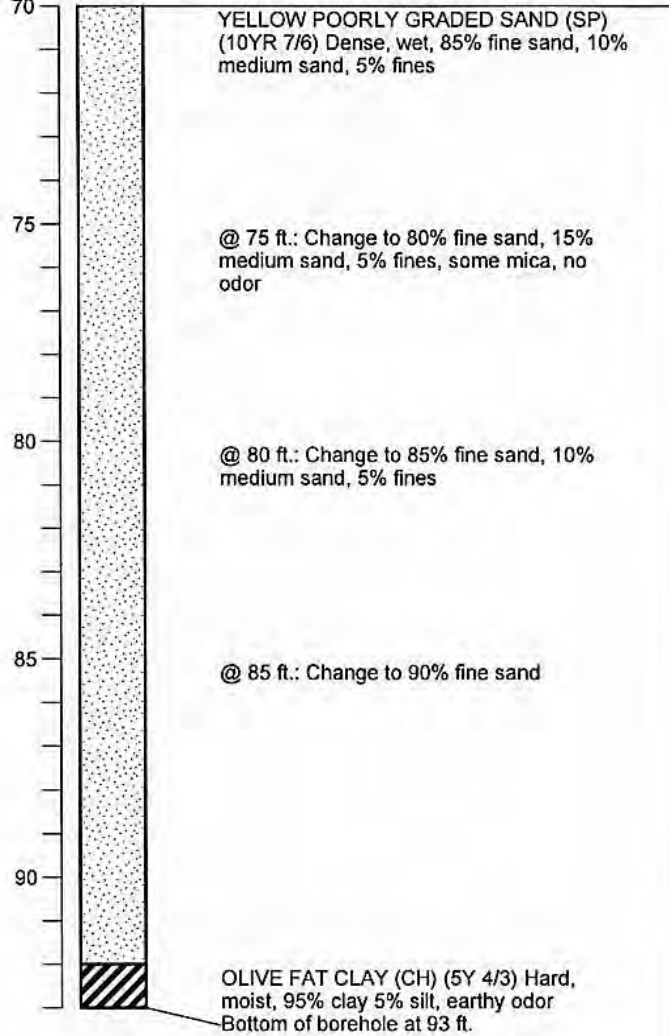
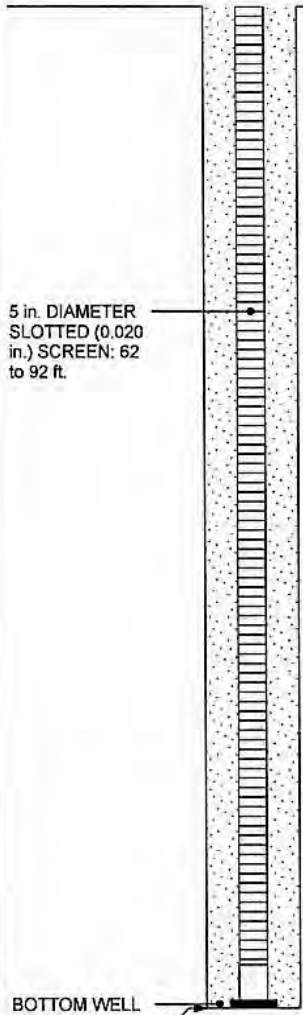
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*MOT/lar*

DATE  
11/04

REVISED DATE

Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.10 ft. Hole Dia. 12 in.  
 Northing 2138565.331 Easting 5748907.55

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BOTTOM WELL CAP: 93 ft.  
 Hole cleaned out to 93 ft. Bottom of boring at 93 ft.

**Well Construction Details and Log of Boring MW-BW-51-A**  
 OUCTP

PLATE



**MACTEC**

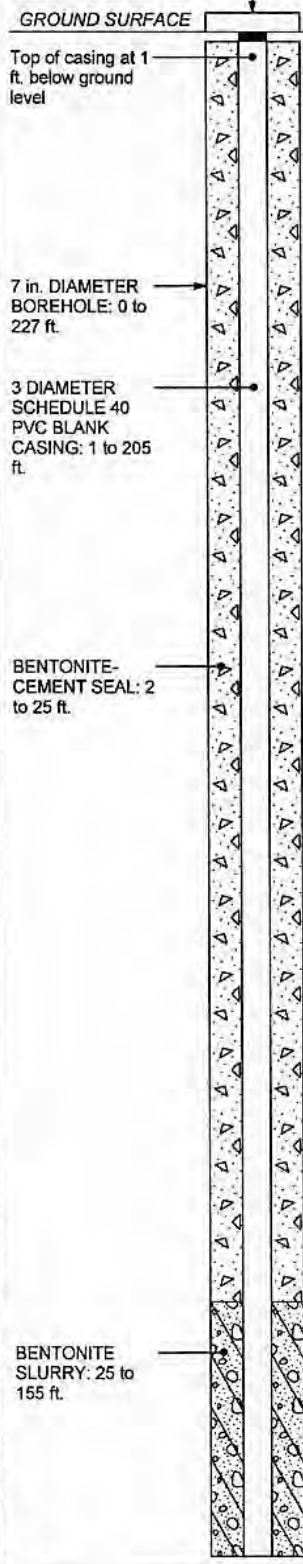
Fort Ord, California

**A69**

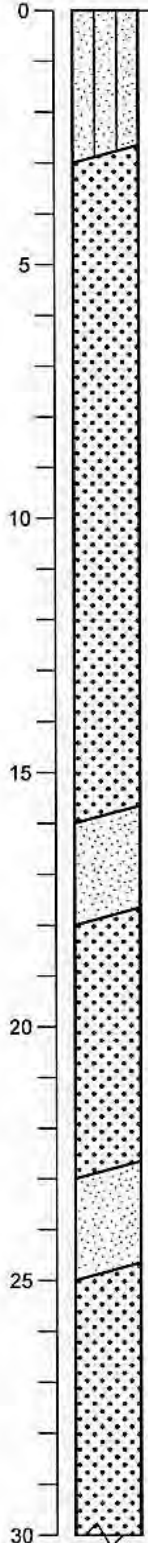
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Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Top of PVC Casing  
 Elev. 148.47 ft.  
 CHRISTY  
 BOX



Depth (ft.)  
 Sample



BROWN SILTY SAND (SM) (10YR 4/3)  
 Loose, dry, 80% fine to coarse sand, 20% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 5 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 @ 6 ft.: Similar to above

@ 10 ft.: Similar to above

@ 12 ft.: Change to 95% fine to coarse sand, 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 95% fine to medium sand, 5% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, dry, 95% fine to coarse sand, 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/4) Loose, dry, 95% fine to medium sand, 5% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, dry, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-52-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A70**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

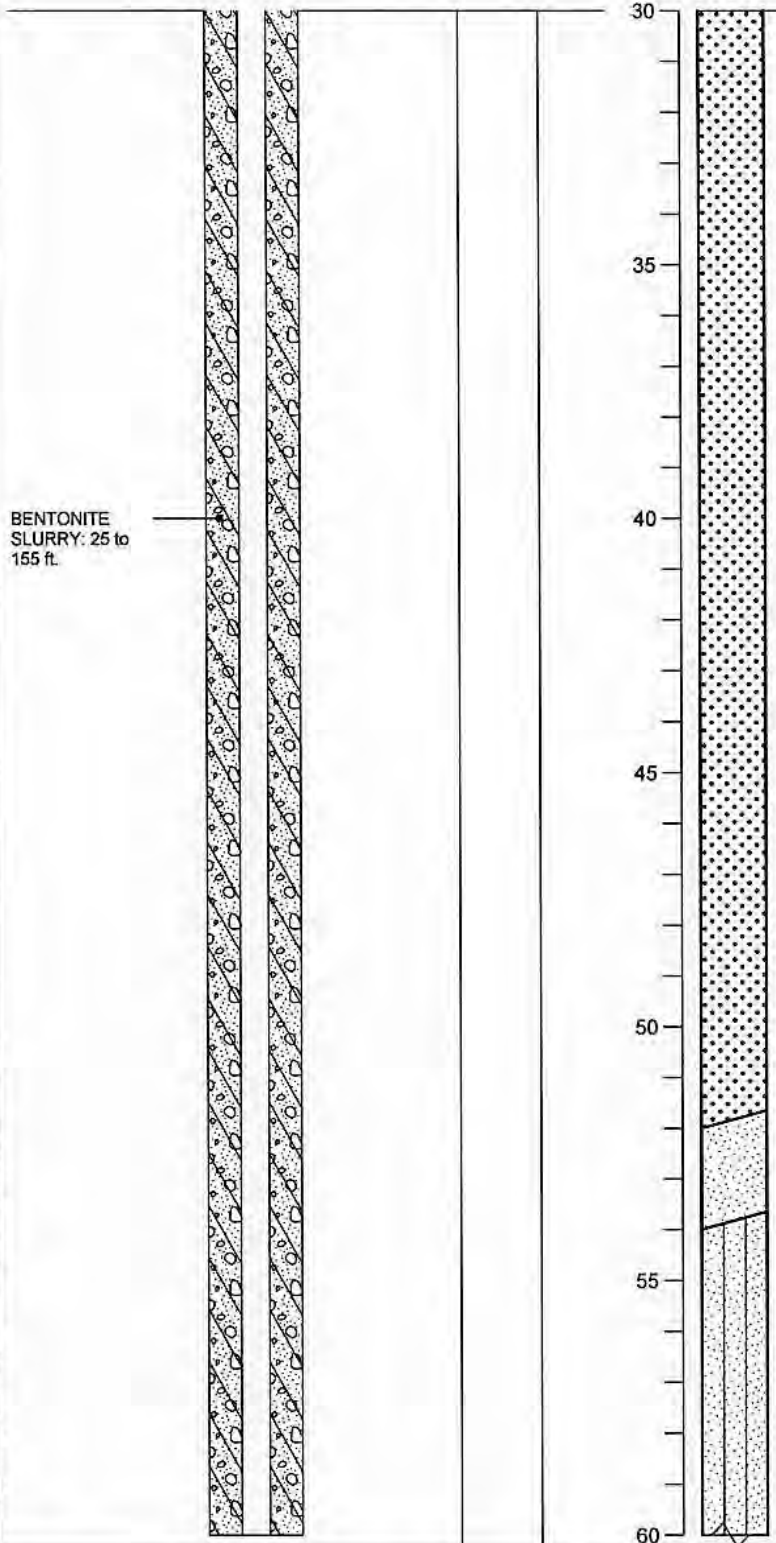
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*MOT / CW*

DATE  
 11/04

REVISED DATE

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)  
 Sample



@ 30 ft.: Similar to above  
 @ 32 ft.: Similar to above  
 @ 36 ft.: Similar to above  
 @ 40 ft.: Similar to above  
 @ 45 ft.: Similar to above  
 @ 50 ft.: Similar to above  
 DARK YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 4/6) Loose, dry, 90% fine to medium sand, 10% silt  
 DARK YELLOWISH BROWN SILTY SAND (SM) (10YR 4/6) Loose, dry, 80% fine to medium sand, 20% silt  
 @ 56 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-52-180  
 OUCTP

PLATE



MACTEC

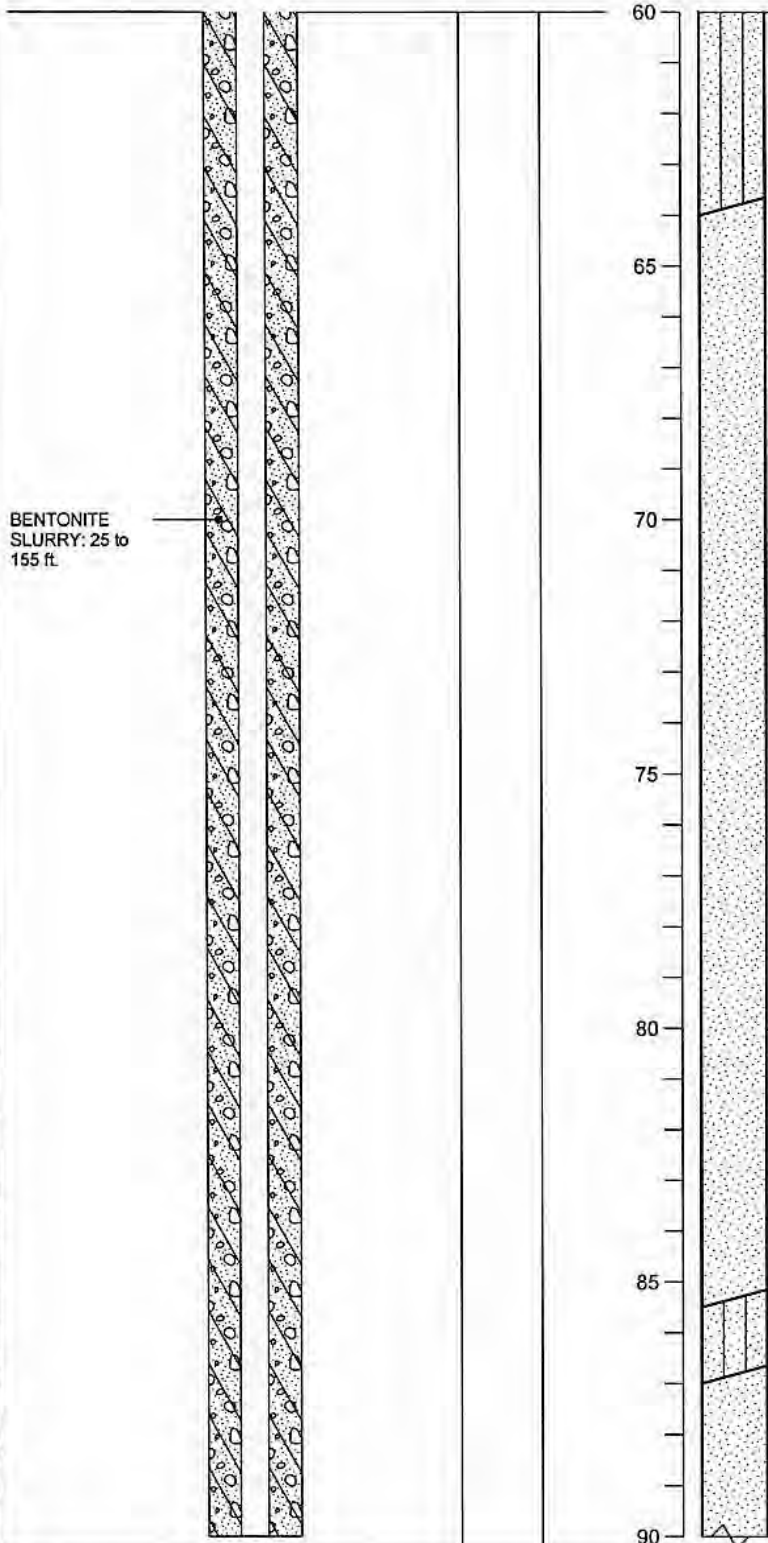
Fort Ord, California

**A70**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/cwr</i>	11/04	

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

BORING - WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



BENTONITE  
SLURRY: 25 to  
155 ft.

60 @ 60 ft.: Similar to above

65 YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR 5/4) Loose, dry, 90% fine  
to medium sand, 10% silt

@ 66 ft.: Change to 95% fine to medium  
sand, 5% silt

70 @ 70 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/4) Loose, wet

@ 74 ft.: Change to BROWN (10YR 5/3)

@ 76 ft.: Change to STRONG BROWN  
(7.5YR 4/6)

@ 78 ft.: Change to BROWN (10YR 5/3)

@ 79.5 ft.: Change to STRONG BROWN  
(7.5YR 4/6)  
 @ 80 ft.: Change to BROWN (10YR 5/3)

85 BROWN SILTY SAND (SM) (10YR 4/3)  
Loose, wet, 80% fine to medium sand, 20%  
silt

LIGHT OLIVE BROWN POORLY GRADED  
SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine  
to medium sand, 10% silt

90

**Well Construction Details and  
Log of Boring MW-BW-52-180**  
OUCTP

PLATE

**MACTEC**  
 DRAWN MBP  
 JOB NUMBER 55596 001701

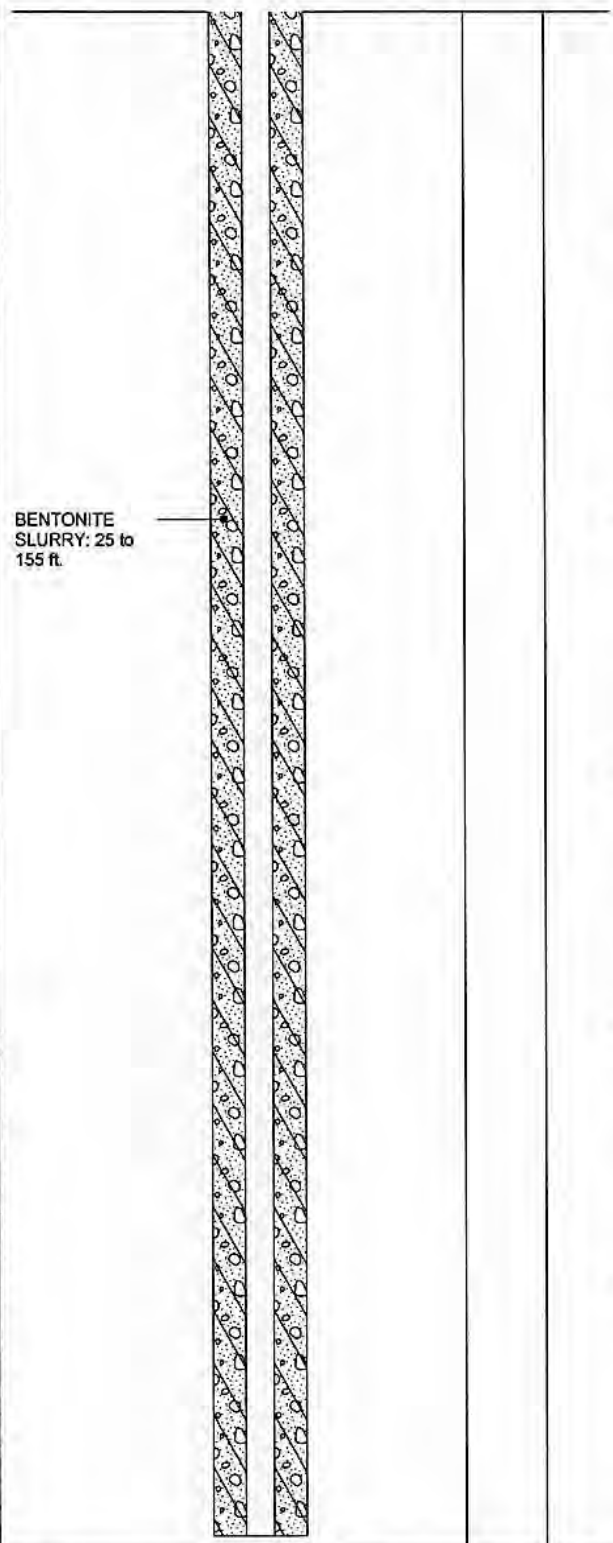
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 APPROVED *MDT/Can*

**A70**  
 DATE 11/04  
 REVISED DATE

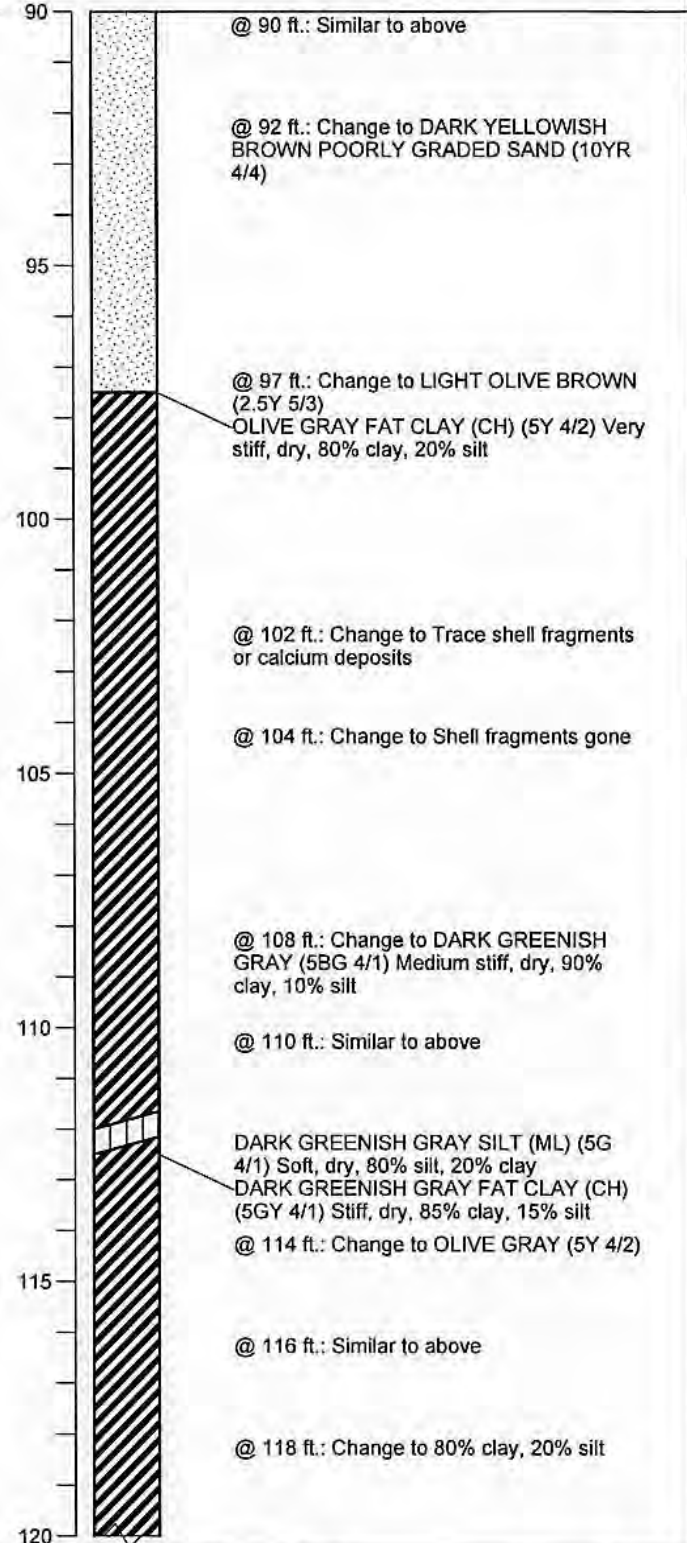


Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)  
Sample



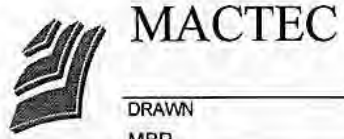
BENTONITE  
SLURRY: 25 to  
155 ft.



BORING WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-52-180  
OUCTP

PLATE



Fort Ord, California

APPROVED *MDT / CW*

DATE 11/04

REVISD DATE

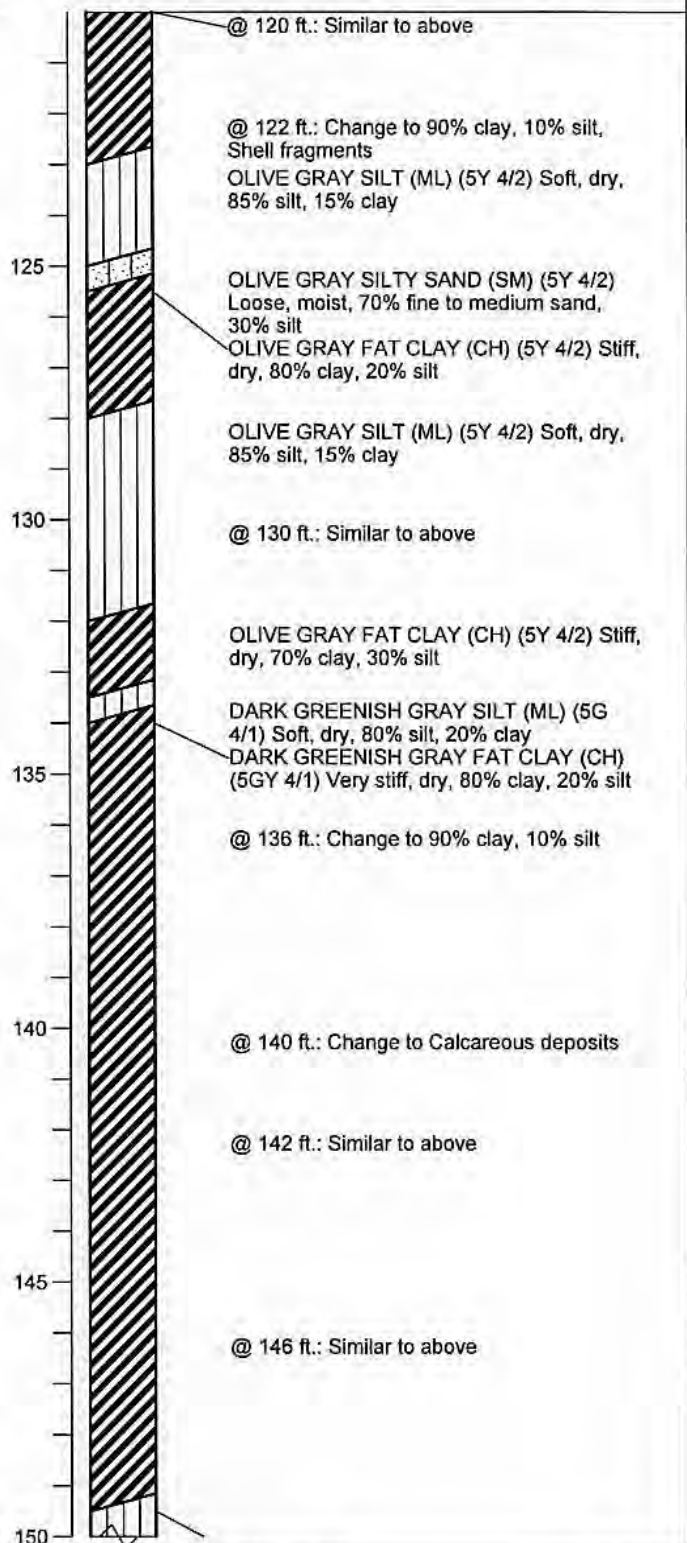
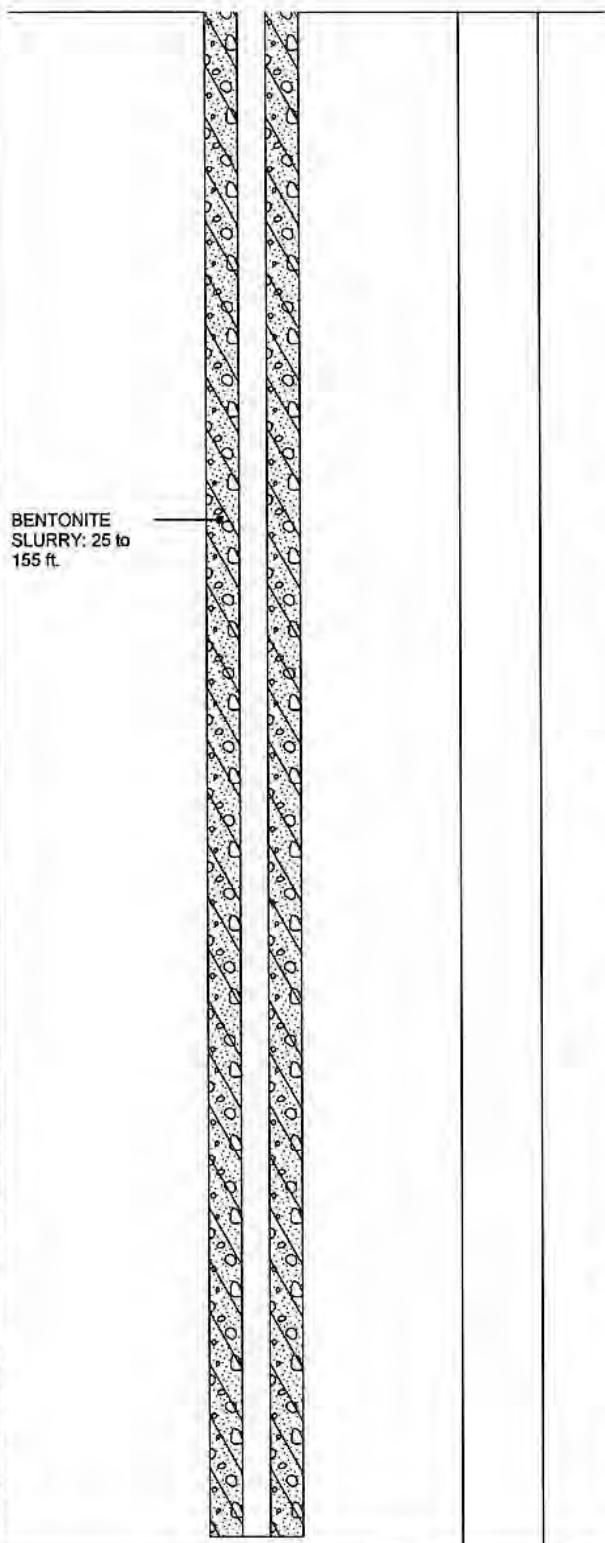
**A70**

DRAWN MBP

JOB NUMBER 55596 001701

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)  
 Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-52-180**  
 OUCTP

PLATE

**A70**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

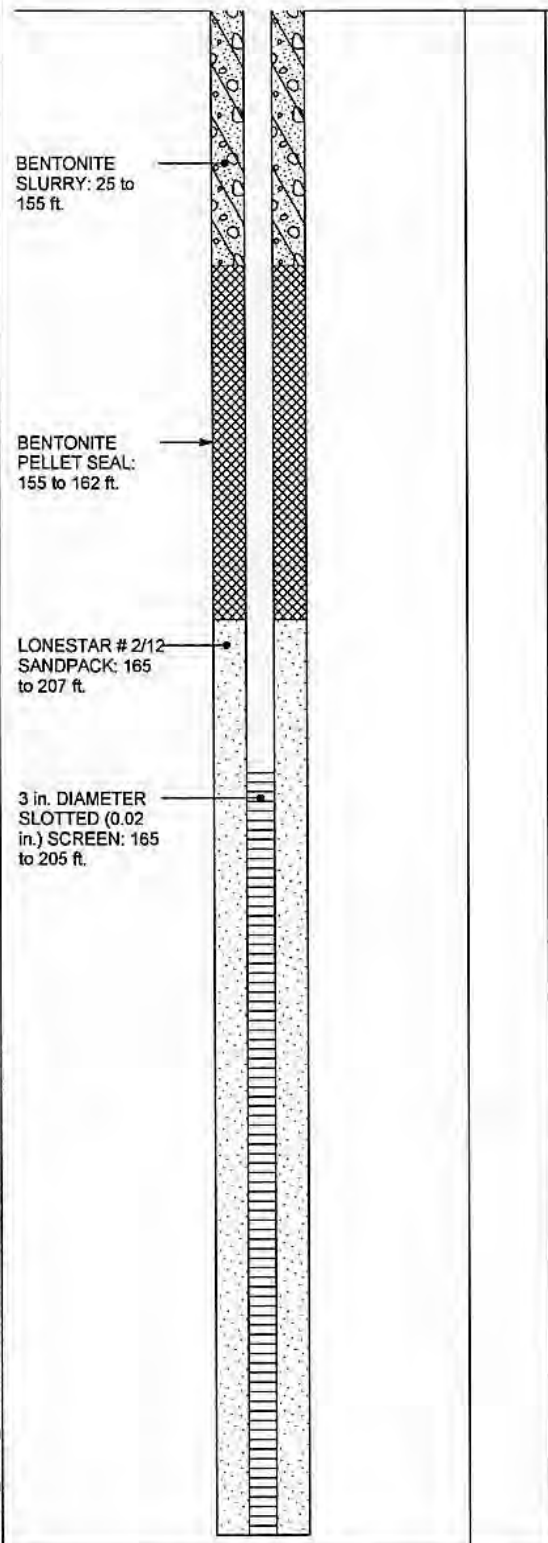
Fort Ord, California  
 APPROVED  
*MST/cw*

DATE  
 11/04

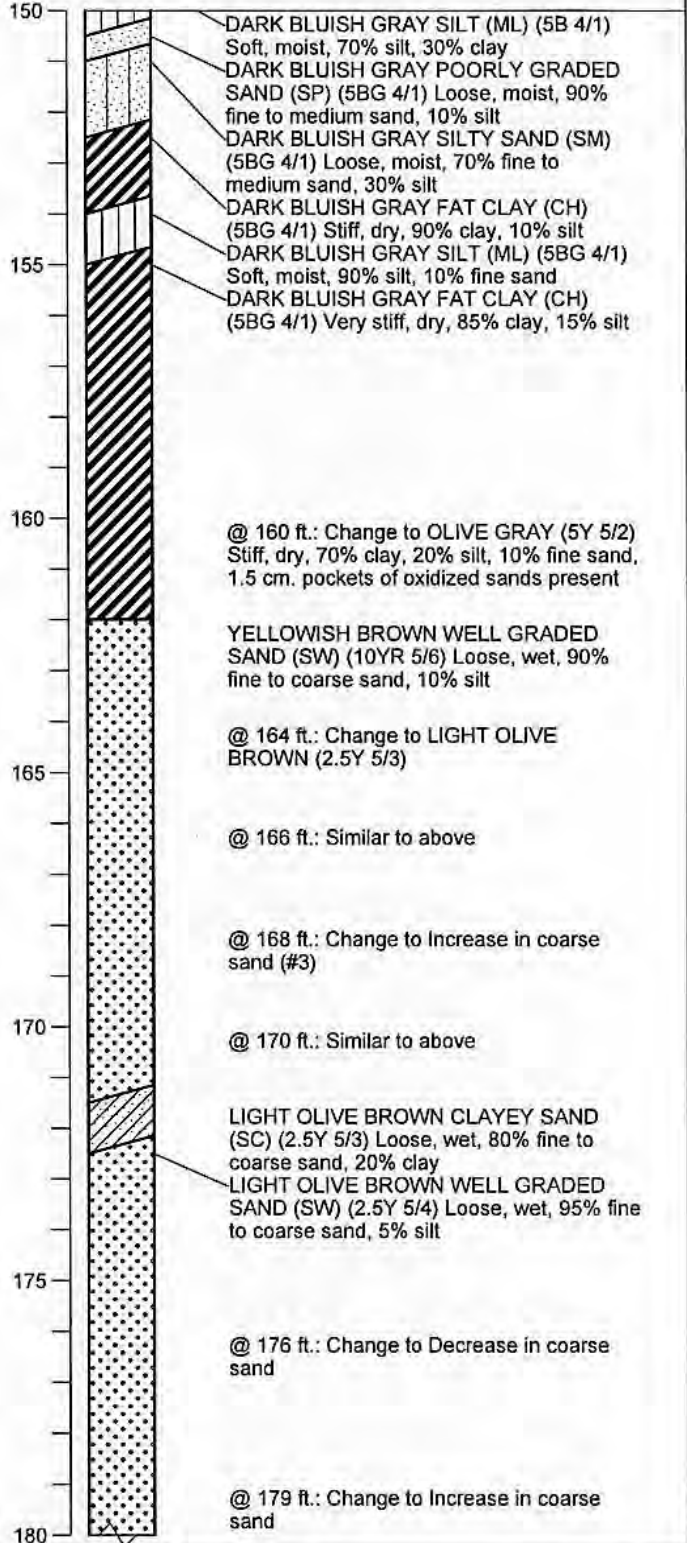
REVISED DATE

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



Depth (ft.)  
Sample



Well Construction Details and  
Log of Boring MW-BW-52-180

PLATE



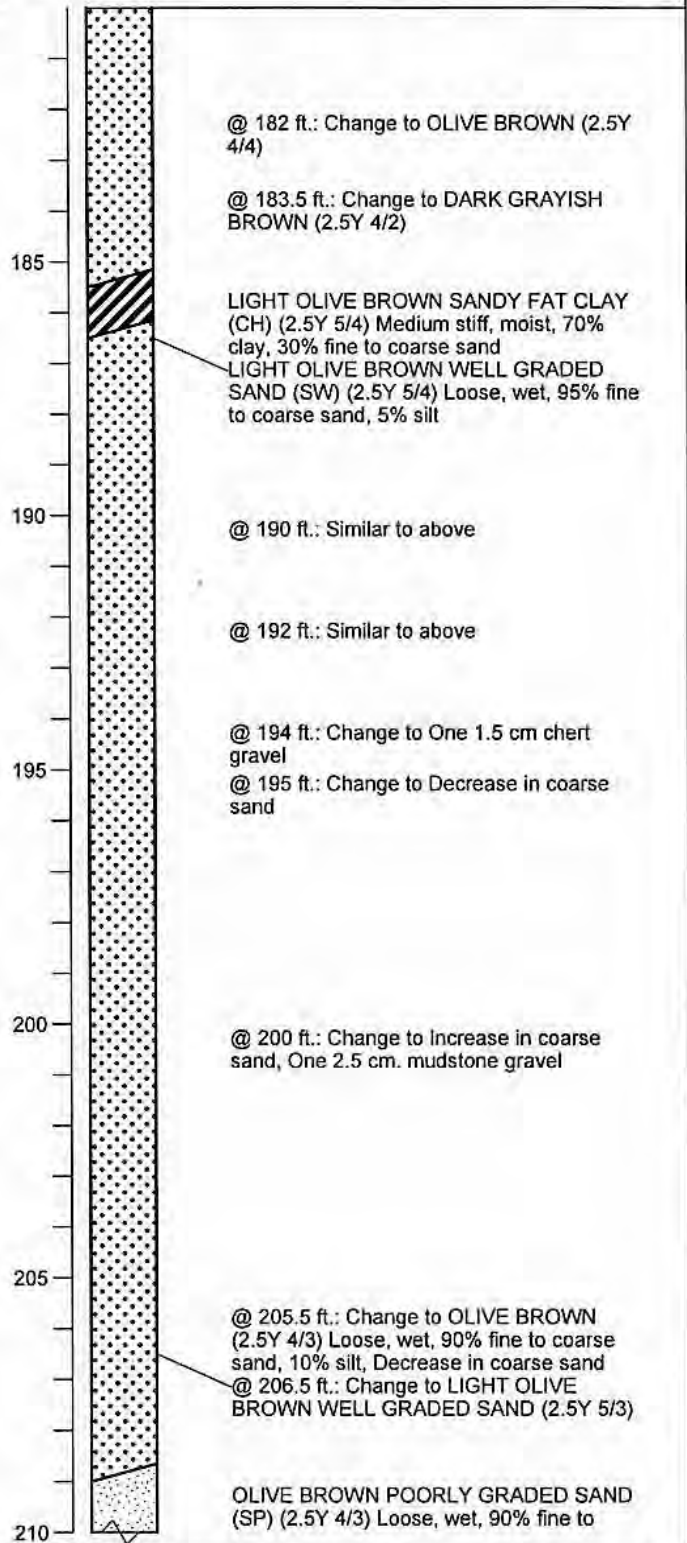
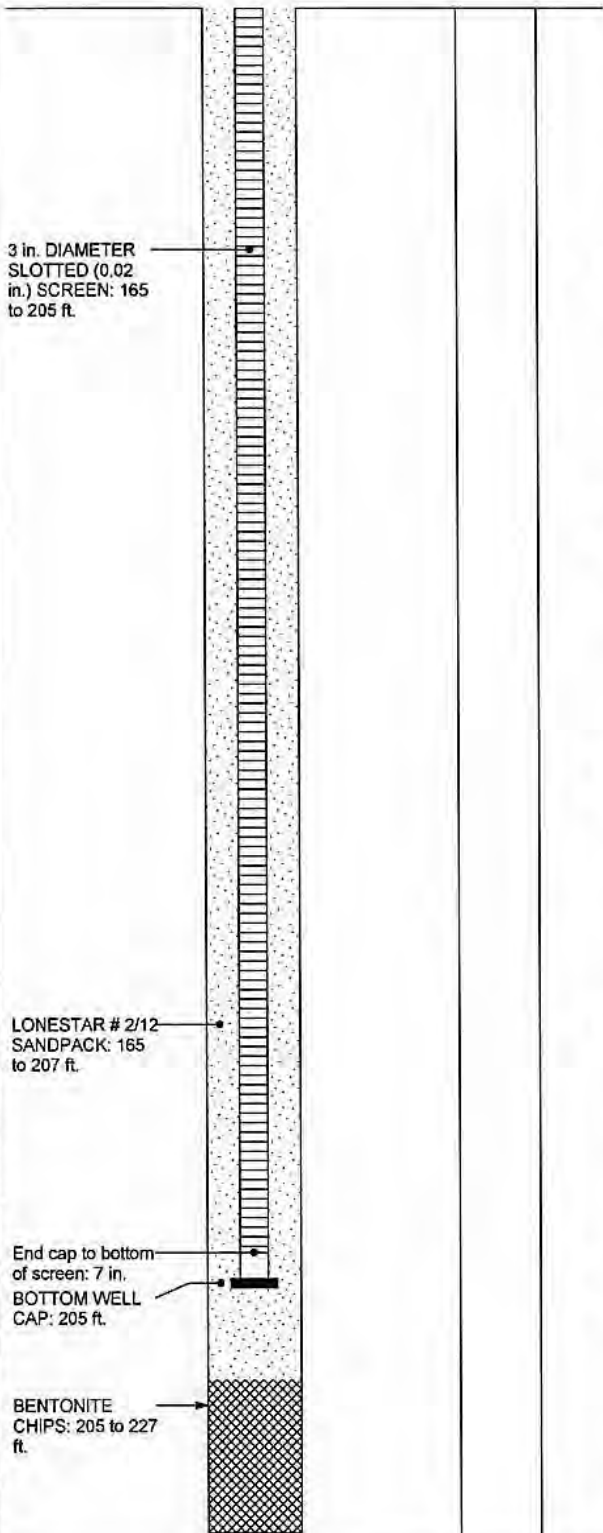
Fort Ord, California

**A70**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>[Signature]</i>	11/04	

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-52-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A70**

DRAWN  
MBP

JOB NUMBER  
55596 001701

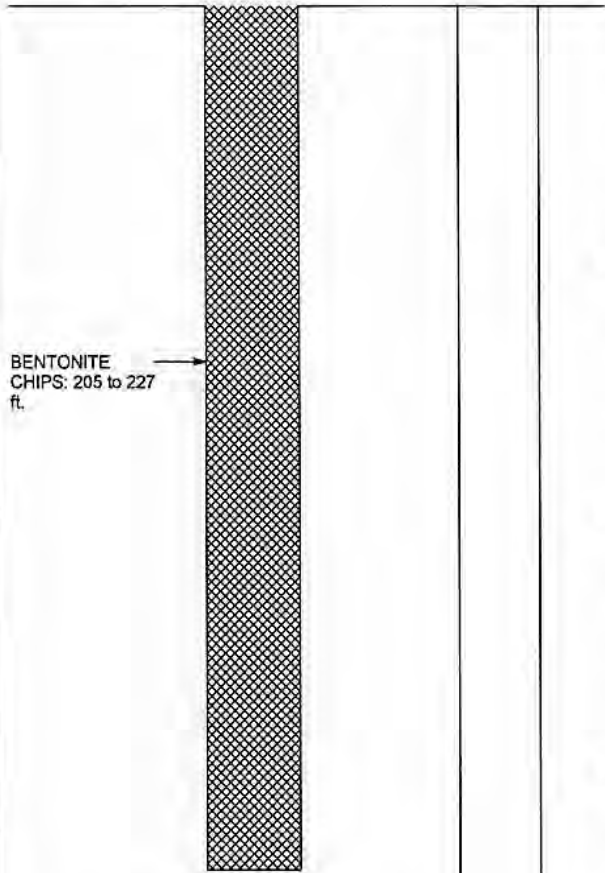
APPROVED  
*MDT/Cur*

DATE  
11/04

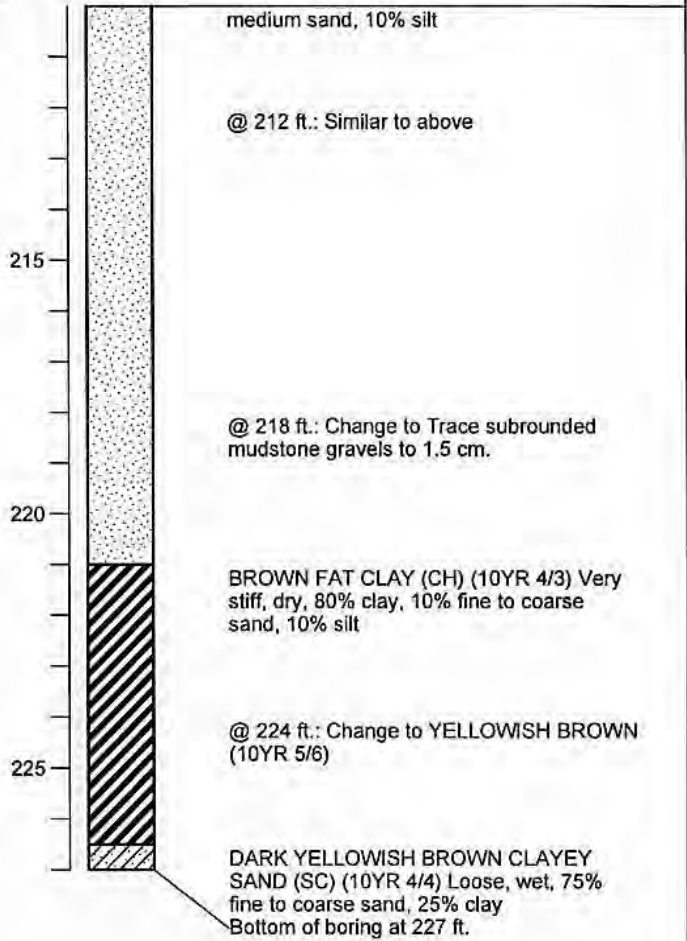
REVISED DATE

Completion Date 4/4/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 148.79 ft. Hole Dia. 7 in.  
 Northing 2138916.87 Easting 5748837.11

Depth (ft.)  
 Sample



BENTONITE  
 CHIPS: 205 to 227  
 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-52-180  
 OUCTP

PLATE



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Fort Ord, California

**A70**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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DATE  
 11/04

REVISED DATE



Top of PVC Casing  
Elev. 158.97 ft.

Completion Date 5/16/2001  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 157.00 ft. Hole Dia. 12 in.  
Northing 2138993.07 Easting 5748697.023

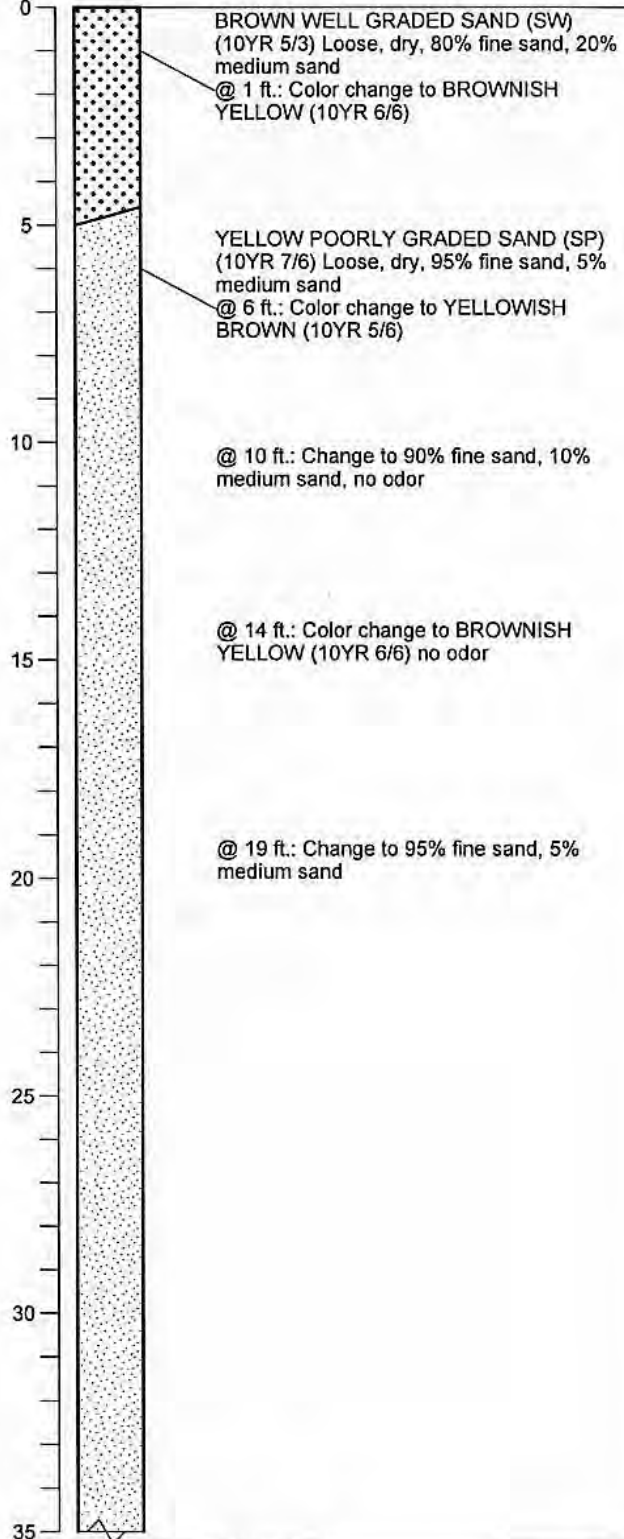
GROUND SURFACE

5 in. DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: +1.97 to  
76 ft.

12 in. DIAMETER  
BOREHOLE: 0 to  
107 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 67 ft.

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-52-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

A71

DRAWN  
PCB

JOB NUMBER  
55596 001701

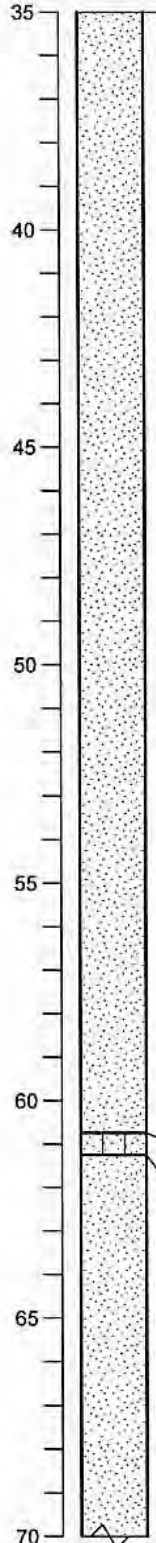
APPROVED  
*MDT/cen*

DATE  
11/04

REVISED DATE

Completion Date 5/16/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 157.00 ft. Hole Dia. 12 in.  
 Northing 2138993.07 Easting 5748697.023

Depth (ft.)  
 Sample

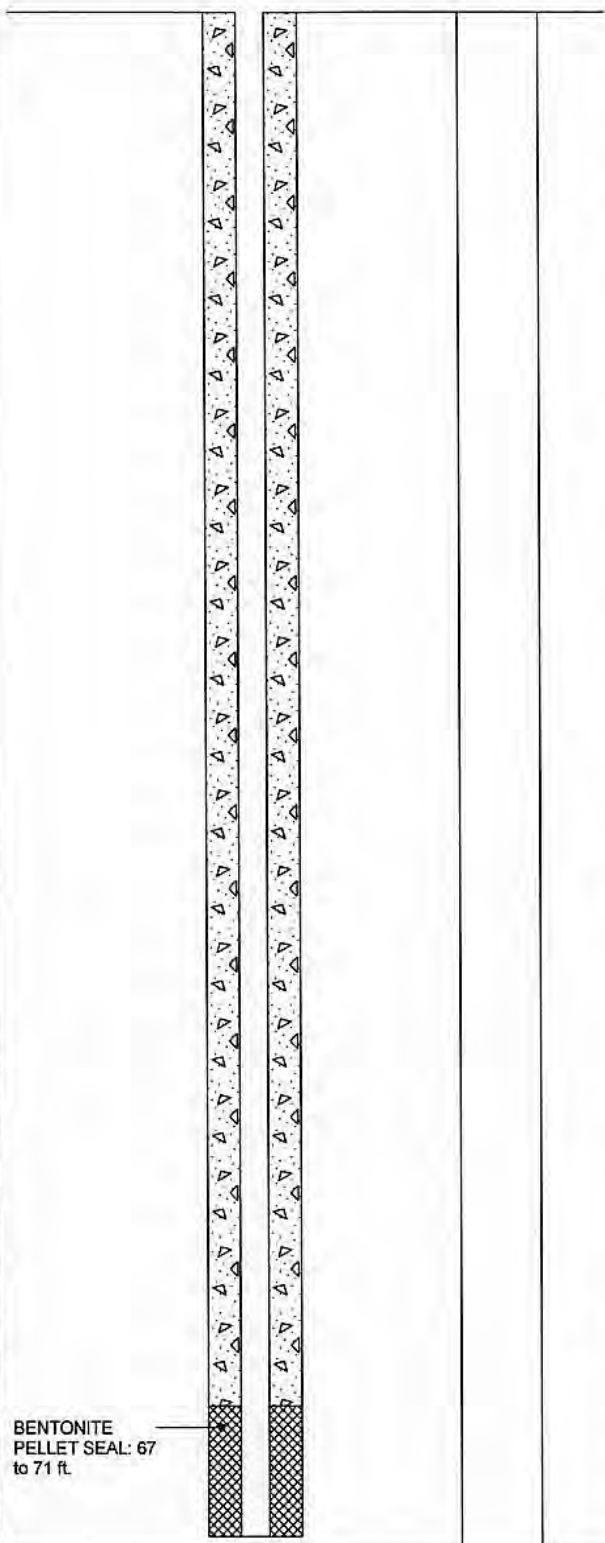


@ 35 ft.: Color change to YELLOWISH BROWN (10YR 5/6) 85% fine sand, 15% medium sand

@ 40 ft.: Color change to BROWNISH YELLOW (10YR 6/6) 100% fine sand

@ 55 ft.: Color change to YELLOWISH BROWN (10YR 6/6) moist, 90% fine sand, 10% medium sand

@ 60 ft.: Color change to BROWNISH YELLOW (10YR 6/8), 100% fine sand  
 BROWNISH YELLOW WELL GRADED SAND (SM) (10YR 6/6) Dense, moist, 50% fines, 40% fine sand, 10% medium sand, possible paleosol  
 BROWNISH YELLOW POORLY GRADED SAND (SP) Loose, moist, 90% fine sand, 10% medium sand



BENTONITE PELLET SEAL: 67 to 71 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-52-A

PLATE

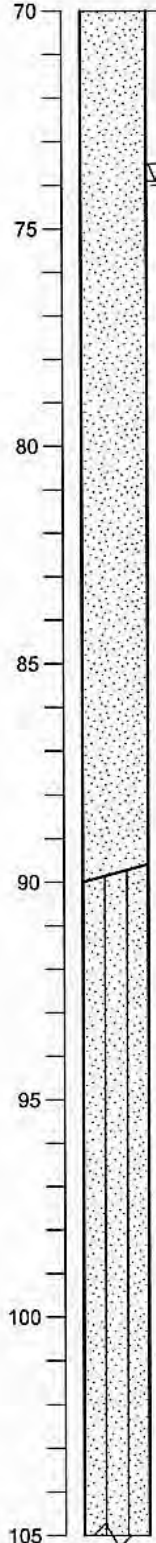
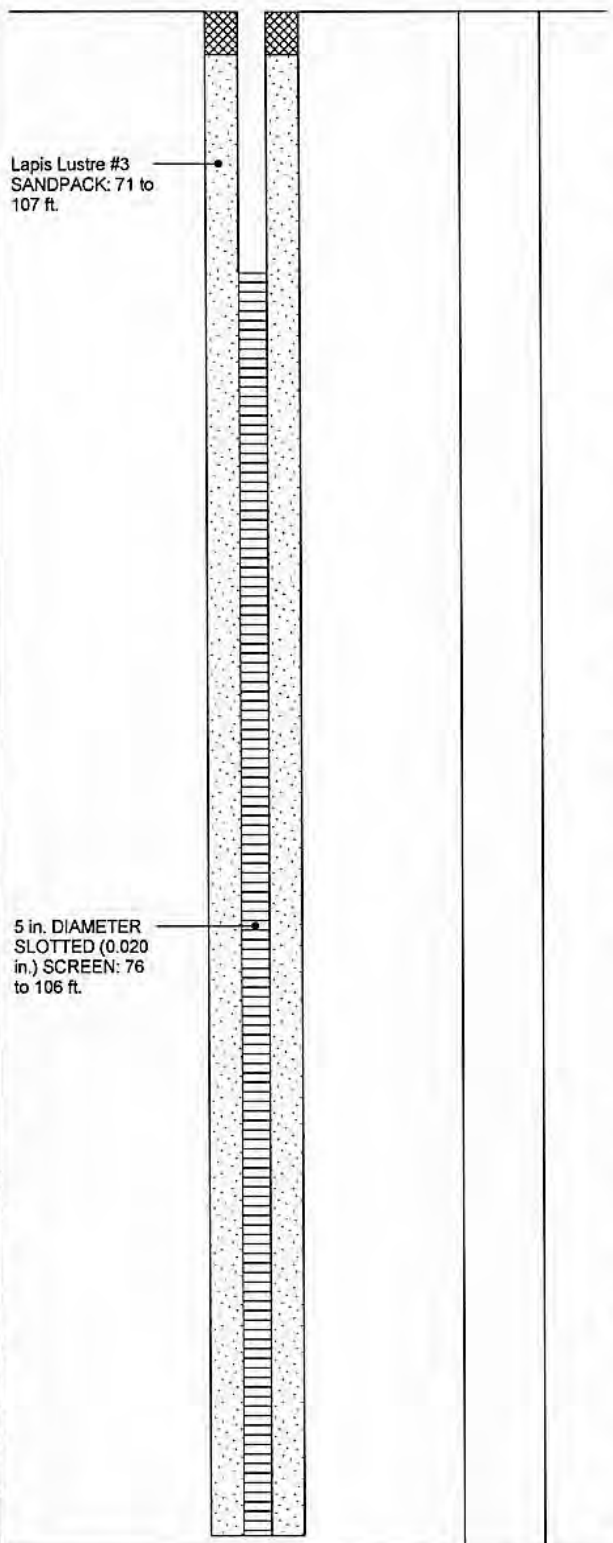
MACTEC  
 DRAWN PCB  
 JOB NUMBER 55596 001701

OUCTP  
 Fort Ord, California  
 APPROVED MDT / *[signature]*

**A71**  
 DATE 11/04  
 REVISED DATE

Completion Date 5/16/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 157.00 ft. Hole Dia. 12 in.  
 Northing 2138993.07 Easting 5748697.023

Depth (ft.)  
 Sample



@ 80 ft.: Change to medium dense, wet

@ 85 ft.: Color change to BROWNISH YELLOW (10YR 6/8), wet, 85% fine sand, 10% medium sand, 5% fines, no odor

YELLOWISH BROWN SILTY SAND (SM) (10YR 5/8) Dense, wet, 70% fine sand, 20% silt, 10% medium sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-52-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A71**

DRAWN  
PCB

JOB NUMBER  
55596 001701

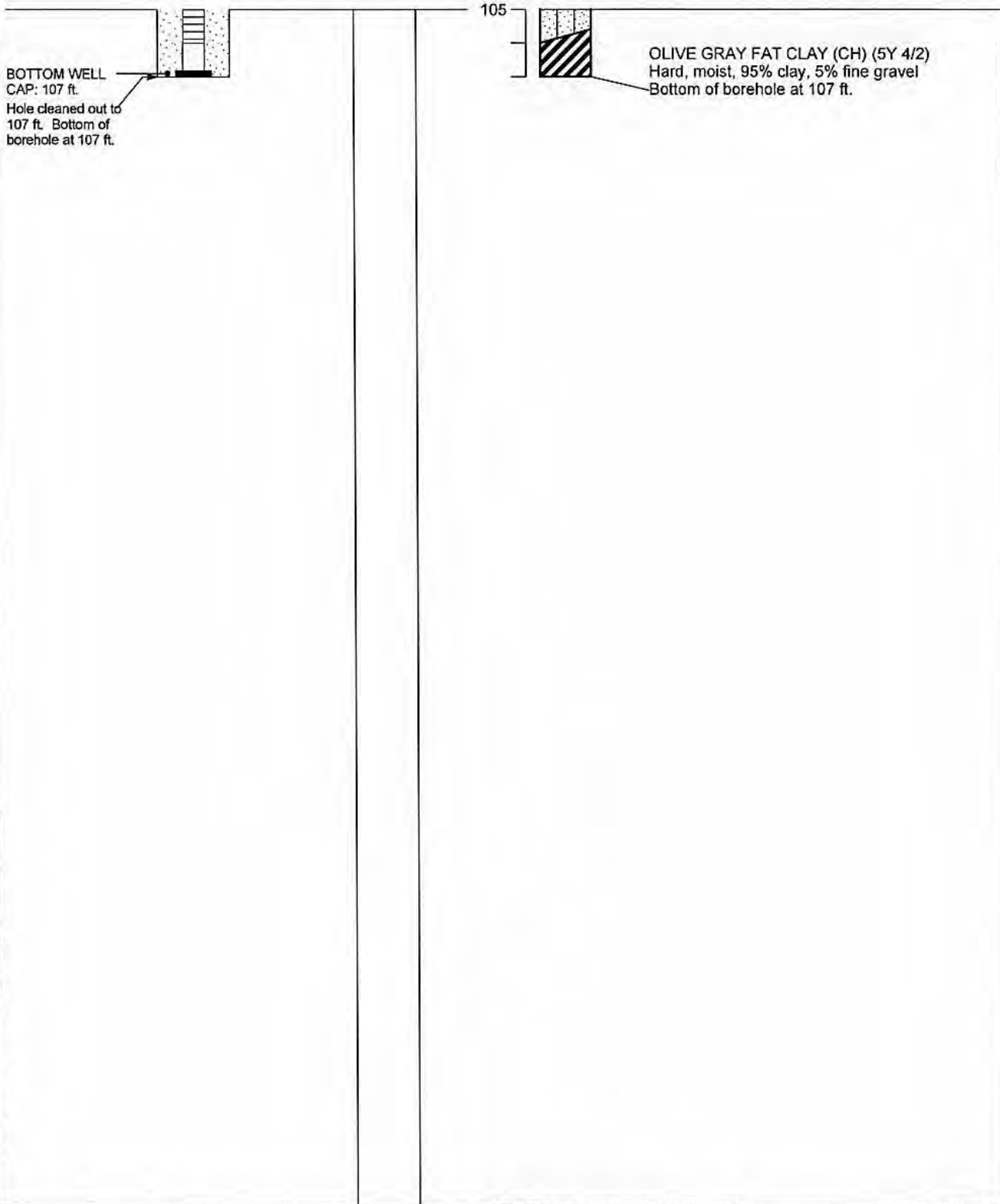
APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 5/16/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 157.00 ft. Hole Dia. 12 in.  
 Northing 2138993.07 Easting 5748697.023

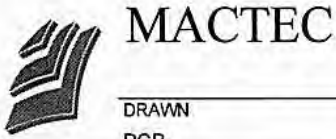
Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-52-A**  
 OUCTP

PLATE



Fort Ord, California

**A71**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT / cm</i>	11/04	

Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

Top of PVC Casing  
 Elev. 170.88 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

Top of casing at 1  
 ft. below ground  
 level

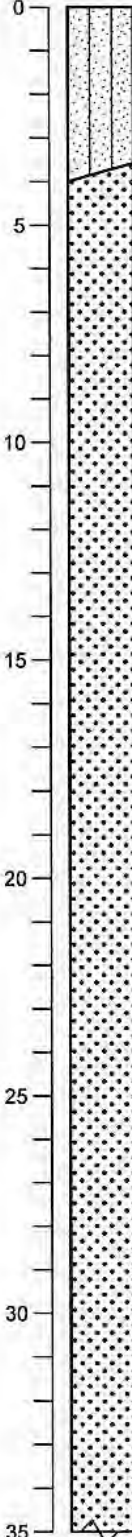
7 in. DIAMETER  
 BOREHOLE: 0 to  
 237 ft.

3 DIAMETER  
 SCHEDULE 40  
 PVC BLANK  
 CASING: 1 to 221  
 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 25 ft.

BENTONITE  
 SLURRY: 25 to  
 179 ft.

Depth (ft.)  
 Sample



VERY DARK GRAY SILTY AND (SM) (2.5Y 3/1) Loose, wet, 80% fine to coarse sand, 20% silt

@ 3 ft.: Change to DARK GRAYISH BROWN (2.5Y 4/2) Loose, dry, 85% fine to coarse sand, 15% silt

DARK GRAYISH BROWN WELL GRADED SAND (SW) (2.5Y 4/2) Lose, dry, 90% fine to coarse sand, 10% silt

@ 6 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 10 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 12 ft.: Similar to above

@ 15 ft.: Similar to above

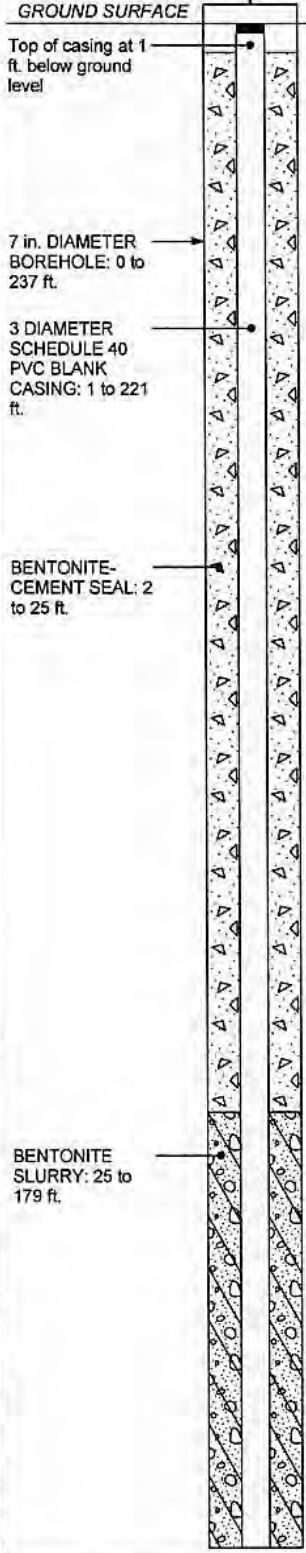
@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 32 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-53-180**

PLATE



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Fort Ord, California

**A72**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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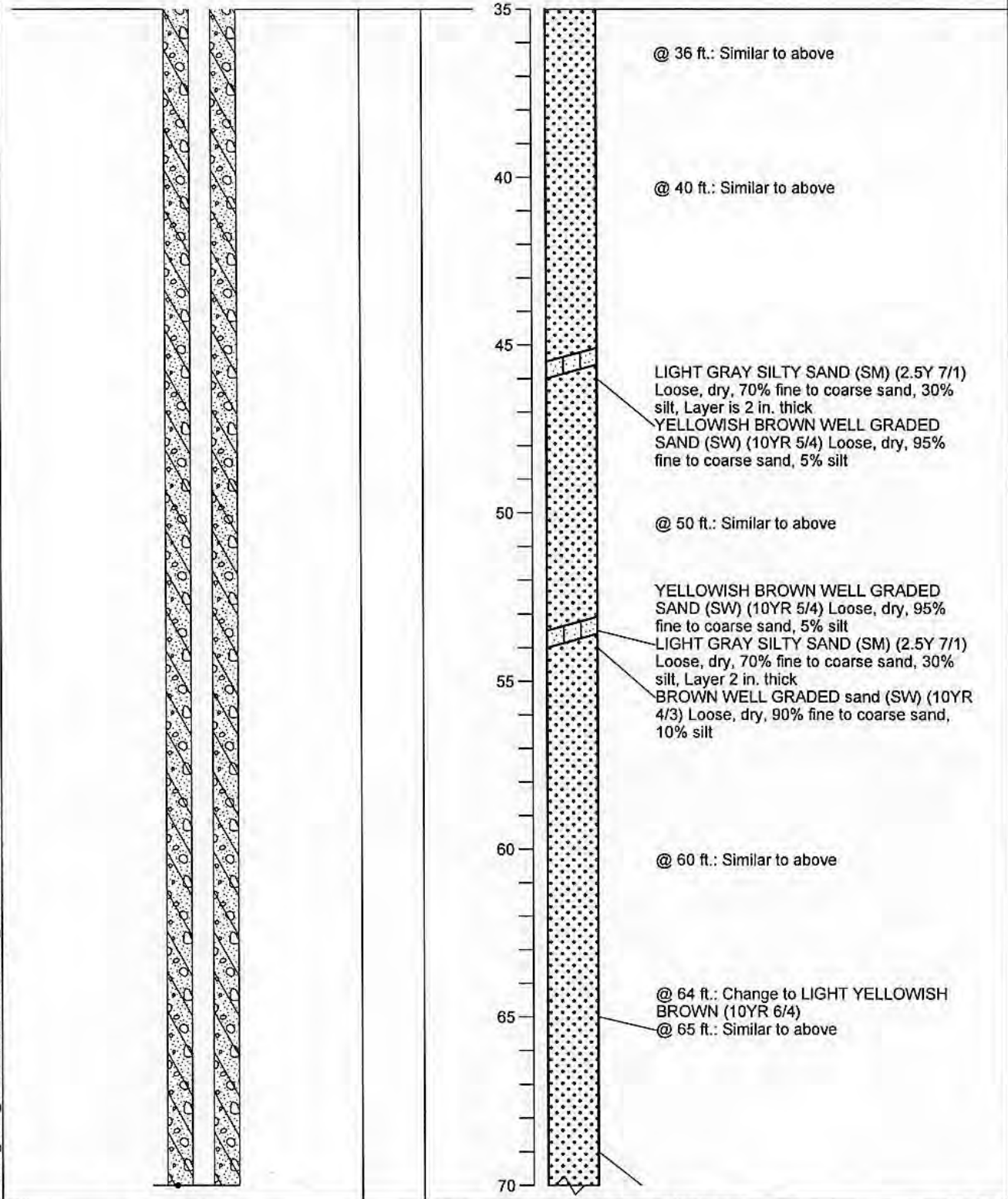
DATE  
 11/04

REVISED DATE



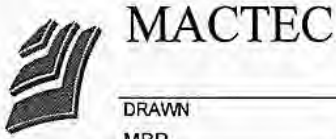
Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and Log of Boring MW-BW-53-180**  
OUCTP

PLATE



Fort Ord, California

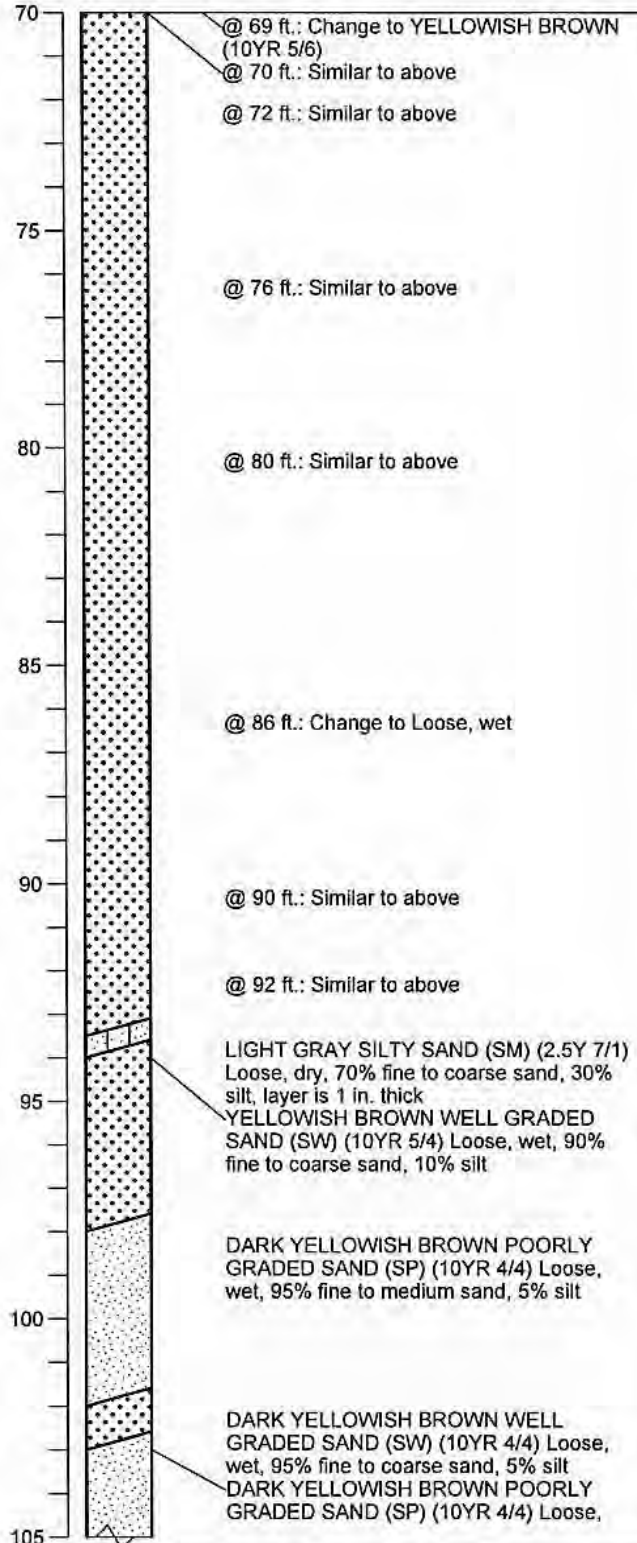
**A72**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/can</i>	11/04	

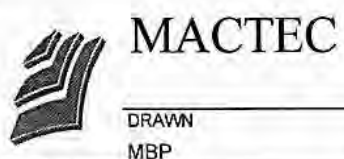
Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft. Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

BENTONITE  
 SLURRY: 25 to  
 179 ft

Depth (ft.)  
 Sample



BORING WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



JOB NUMBER  
55596 001701

Well Construction Details and  
 Log of Boring MW-BW-53-180  
 OUCTP  
 Fort Ord, California  
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*MDT / Con*

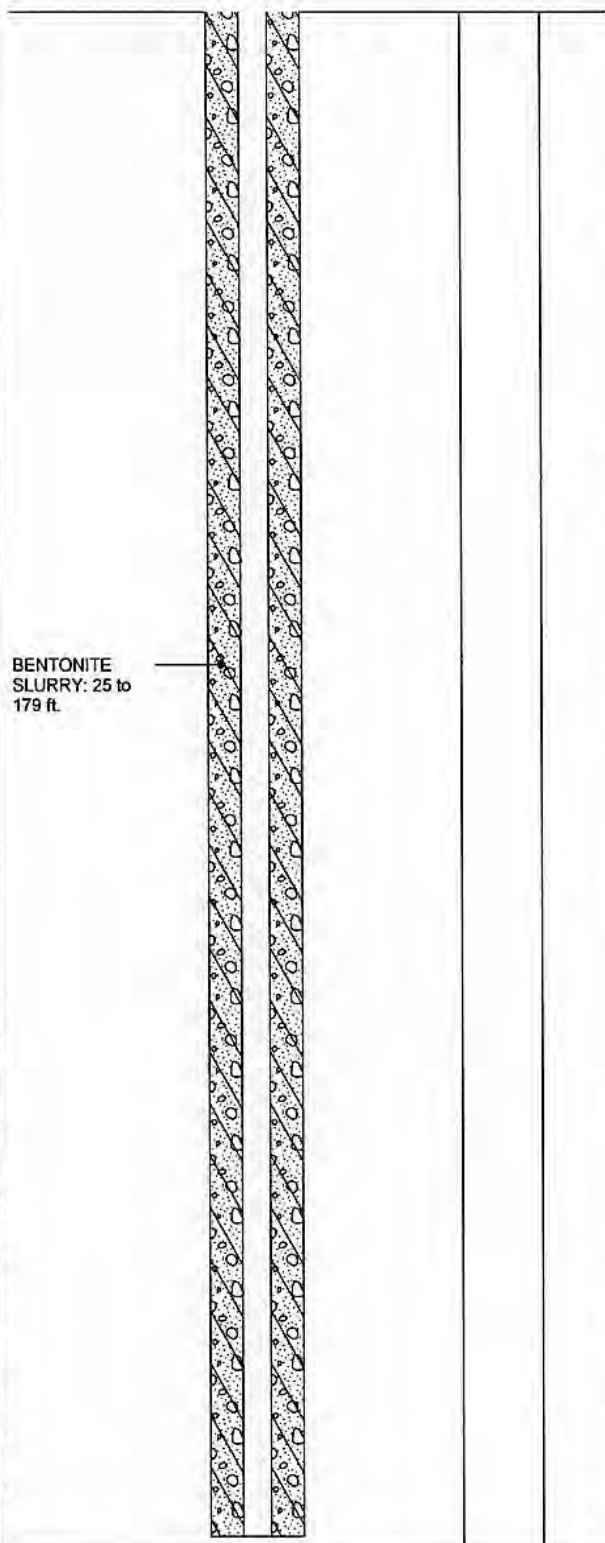
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11/04

REVISD DATE

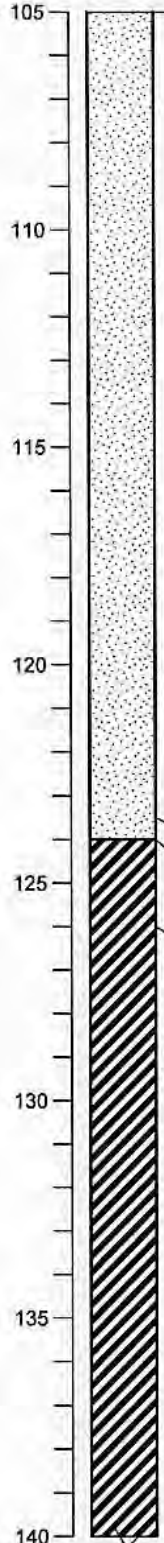
**A72**

Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft. Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 179 ft.



wet, 95% fine to coarse sand, 5% silt

@ 110 ft.: Similar to above

@ 112 ft.: Change to 90% fine to medium sand, 10% silt

@ 116 ft.: Similar to above

@ 118 ft.: Similar to above

@ 123 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)

@ 123.5 ft.: Change to OLIVE GRAY (5Y 5/2)

OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Stiff, dry, 80% clay, 20% silt, Organics and oxidized sand on surface

@ 126 ft.: Change to OLIVE GRAY (5Y 4/2)

@ 130 ft.: Change to 90% clay, 10% silt, Calcareous deposits react to HCL

@ 132 ft.: Change to OLIVE GRAY FAT CLAY (5Y 5/2) Soft, moist, Increase in calcareous deposits

@ 136 ft.: Change to Increase in stiffness

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-53-180  
 OUCTP

PLATE



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Fort Ord, California

**A72**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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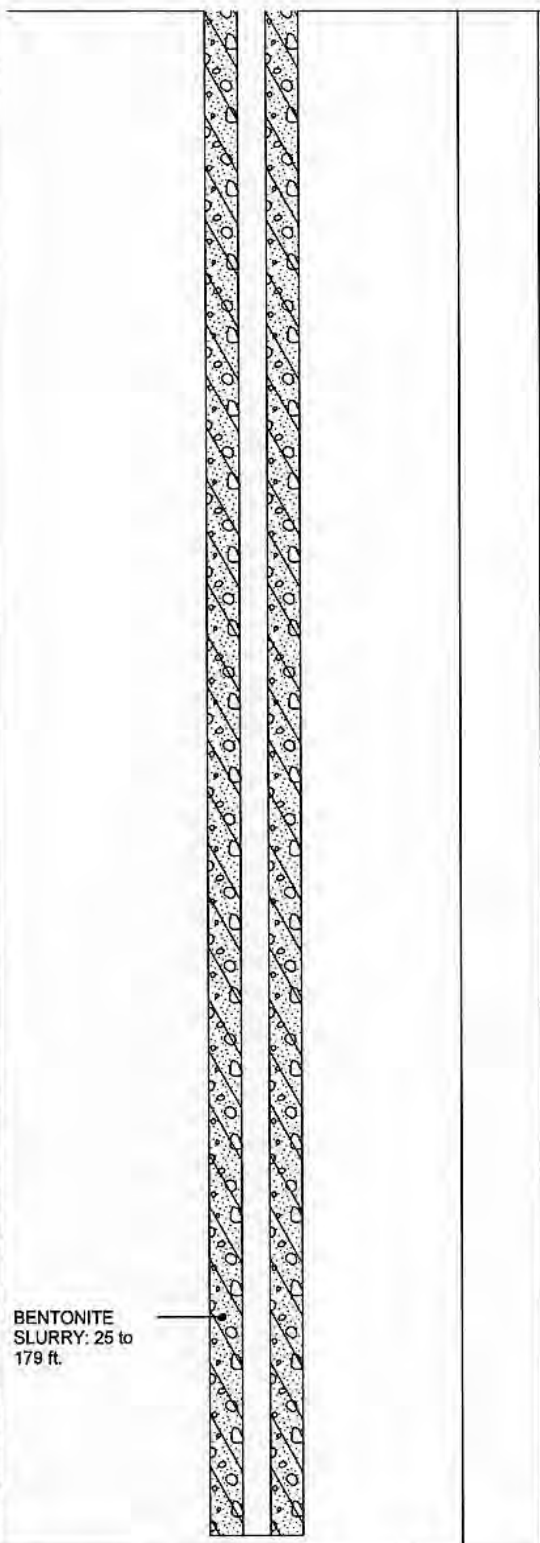
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 11/04

REVISED DATE

Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft. Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

Depth (ft.)  
 Sample

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



BENTONITE  
 SLURRY: 25 to  
 179 ft.



@ 140 ft.: Change to Decrease in calcareous deposits

@ 142 ft.: Change to 80% clay, 20% silt, No visible calcareous deposits

@ 148 ft.: Similar to above

OLIVE GRAY SILT WITH SAND (ML) (5Y 5/2) Soft, loose, 75% silt, 25% fine sand  
 OLIVE GRAY SILTY SAND (SM) (5Y 5/2) Loose, wet, 70% fine to coarse sand, 30% silt  
 OLIVE GRAY FAT CLAY (CH) (5Y 5/2) Soft, dry, 80% clay, 20% silt

@ 156 ft.: Similar to above

@ 158 ft.: Change to DARK GREENISH GRAY (5G 4/1)

@ 162 ft.: Change to Trace shell fragments

@ 164 ft.: Change to Calcareous deposits

@ 165 ft.: Change to Calcareous deposits gone

@ 168 ft.: Similar to above

@ 170 ft.: Similar to above

@ 172 ft.: Similar to above

@ 174 ft.: Change to Trace organics



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Well Construction Details and  
 Log of Boring MW-BW-53-180  
 OUCTP

PLATE

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DRAWN  
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 55596 001701

Fort Ord, California

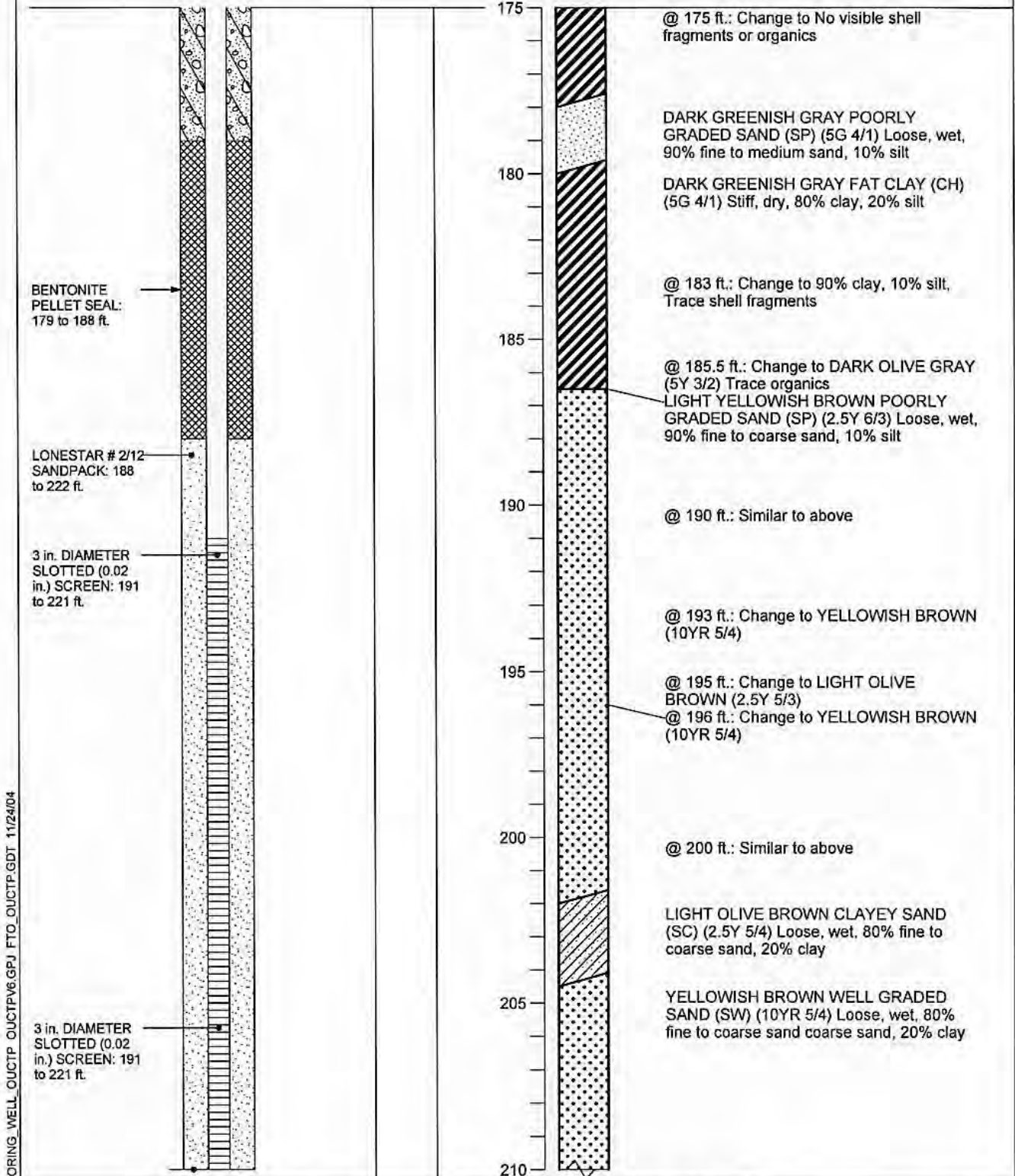
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*MDT/can*

DATE  
 11/04

REVISED DATE

Completion Date 4/12/2003  
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 Logged by D. Browne  
 Surface Elevation 171.47 ft. Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

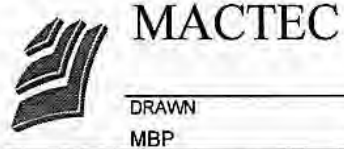
Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-53-180**  
OUCTP

PLATE



Fort Ord, California

**A72**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/cw</i>	11/04	



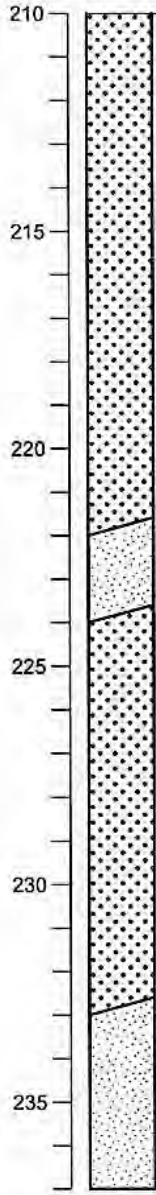
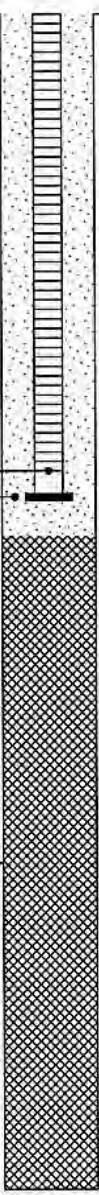
Completion Date 4/12/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 171.47 ft. Hole Dia. 7 in.  
 Northing 2138987.73 Easting 5748120.7

Depth (ft.)  
Sample

LONESTAR # 2/12  
SANDPACK: 188  
to 222 ft.

End cap to bottom  
of screen: 7 in.  
BOTTOM WELL  
CAP: 221 ft.

BENTONITE  
CHIPS: 222 to 237  
ft.



@ 210 ft.: Similar to above

@ 212 ft.: Change to 95% fine to coarse sand, 5% silt

@ 216 ft.: Similar to above

@ 220 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/3) Loose, wet, 90% fine to medium sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/3) Loose, wet, 90% fine to coarse sand, 10% silt

@ 230 ft.: Change to Increase in coarse sand

@ 232.5 ft.: Change to STRONG BROWN (7.5YR 5/6) Iron stained sand (#3) OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 4/3) Loose, wet, 90% fine to medium sand, 10% silt, Micas present

Bottom of boring at 237 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-53-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

DRAWN  
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JOB NUMBER  
55596 001701

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DATE  
11/04

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**A72**

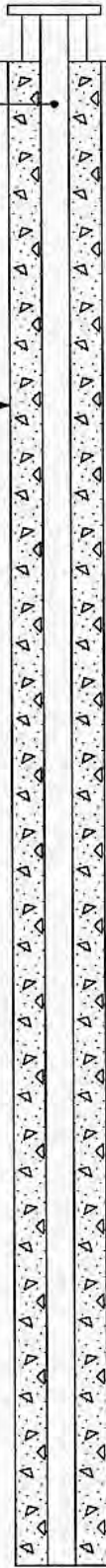
Completion Date 5/15/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 173.60 ft. Hole Dia. 12 in.  
 Northing 2139111.058 Easting 5748333.511

Top of PVC Casing  
 Elev. 175.72 ft.

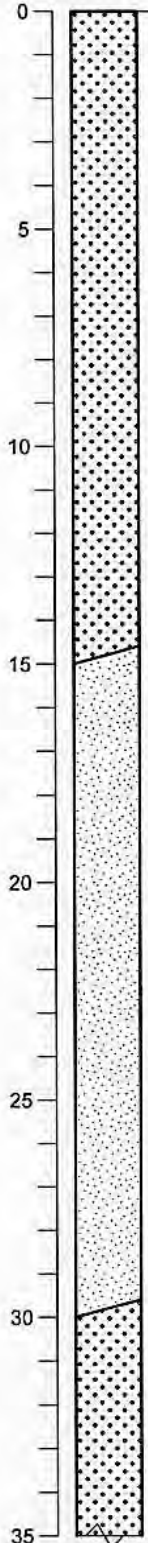
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: +2.12 to  
 92.5 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 124 ft.



Depth (ft.)  
 Sample



BROWN WELL GRADED SAND (SW)  
 (10YR 5/3) Very loose, dry, 60% fine sand,  
 30% medium sand, 10% organic, no odor

@ 2 ft.: Color change to LIGHT  
 YELLOWISH BROWN (2.5YR 6/4) 60%  
 medium sand, 40% fine sand

@ 10 ft.: Color change to PALE YELLOW,  
 50% medium sand, 50% fine sand, no odor

LIGHT YELLOWISH BROWN POORLY  
 GRADED SAND (SP) (2.5YR 6/6) Loose,  
 moist, 80% fine sand, 20% medium sand,  
 no odor

@ 25 ft.: Color change to LIGHT YELLOW  
 BROWN (2.5YR 6/4) medium dense, 70%  
 fine sand, 30% medium sand

LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (2.5YR 6/6) Medium  
 dense, moist, 70% fine sand, 30% medium  
 sand, no odor

BORING - WELL\_OUCTP\_V6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-53-A  
 OUCTP

PLATE



Fort Ord, California

**A73**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED

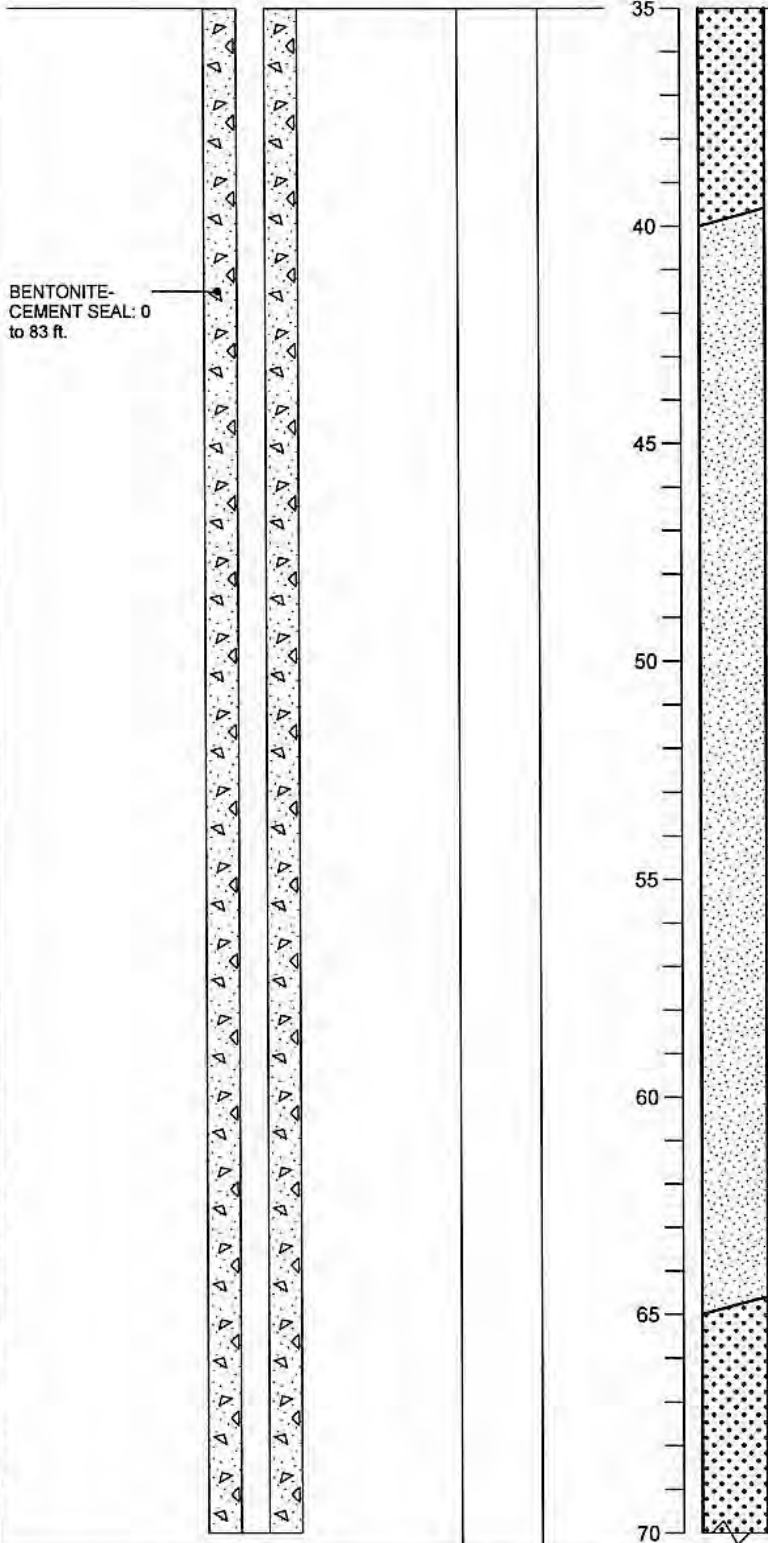
*MDT / CWR*

DATE  
 11/04

REVISED DATE

Completion Date 5/15/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 173.60 ft. Hole Dia. 12 in.  
 Northing 2139111.058 Easting 5748333.511

Depth (ft.)  
Sample



LIGHT YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 6/4) Medium dense, moist, 80% medium sand, 20% fine sand

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4) Medium dense, moist, 60% fine sand, 40% medium sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-53-A  
 OUCTP

PLATE



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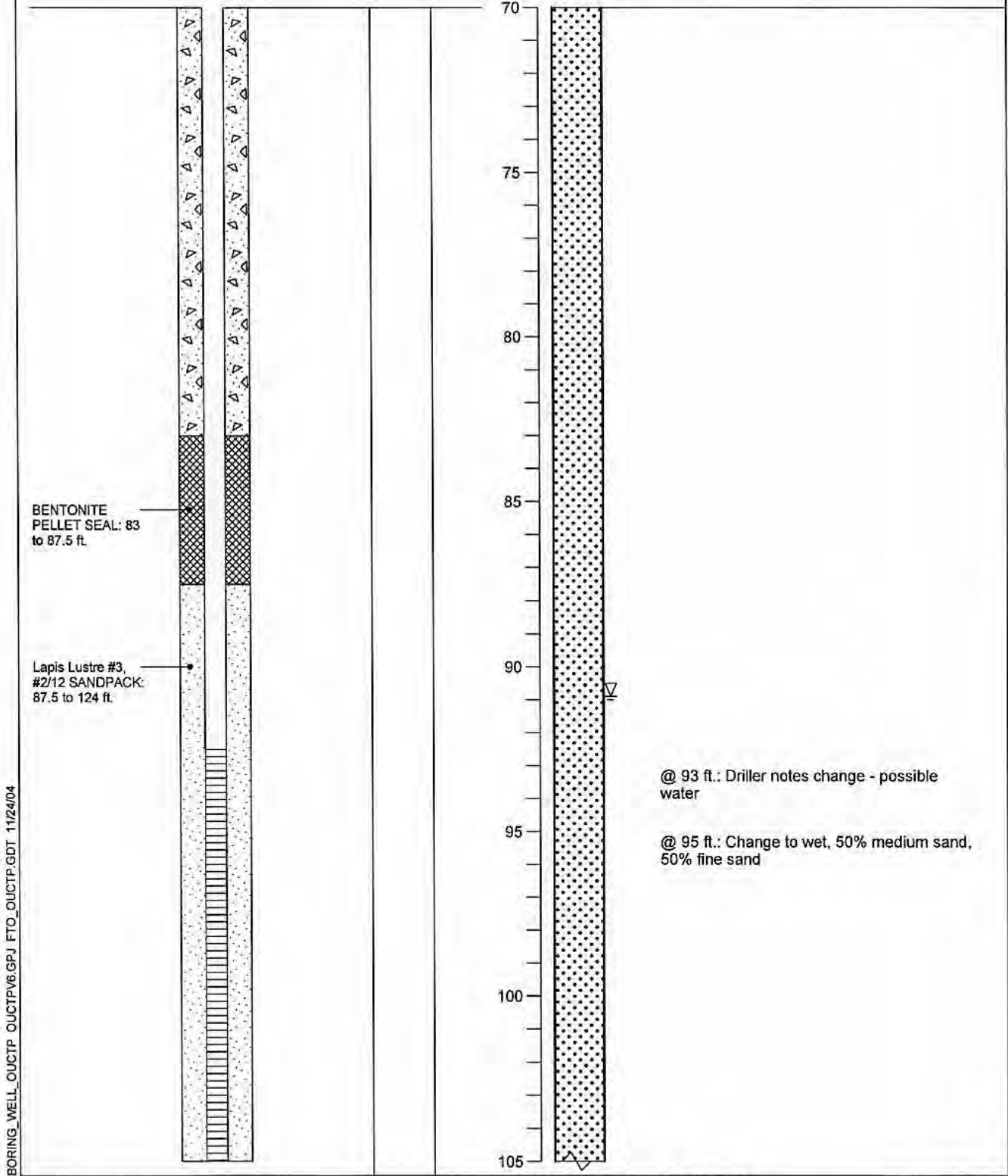
Fort Ord, California

**A73**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>MDT / cur</i>	11/04	

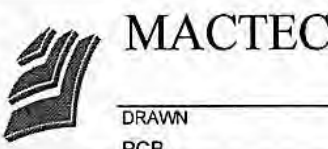
Completion Date 5/15/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 173.60 ft. Hole Dia. 12 in.  
 Northing 2139111.058 Easting 5748333.511

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-53-A** PLATE  
 OUCTP



Fort Ord, California **A73**

DRAWN	JOB NUMBER	APPROVED	DATE
PCB	55596 001701	<i>MBT/can</i>	11/04

Completion Date 5/15/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 173.60 ft. Hole Dia. 12 in.  
 Northing 2139111.058 Easting 5748333.511

Depth (ft.)  
Sample

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 92.5  
to 122.5 ft.

BOTTOM WELL  
CAP: 123.5 ft.  
Hole cleaned out  
to 124 ft. Bottom  
of boring at 124  
ft.

105  
110  
115  
120

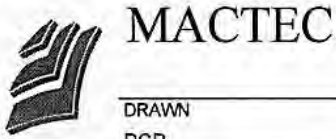
@ 105 ft.: Color change to YELLOWISH  
BROWN (10YR 5/4) dense, 70% fine sand  
30% medium sand, no odor

DARK OLIVE GRAY FAT CLAY (CH) (5Y  
3/2) Very dense, moist  
Bottom of boring at 124 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-53-A

PLATE



DRAWN PCB	JOB NUMBER 55596 001701	APPROVED <i>MOT / cm</i>	DATE 11/04	REVISED DATE
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**A73**



Top of PVC Casing  
Elev. 127.78 ft.

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

GROUND SURFACE

Top of casing at  
2.5 ft. above  
ground level

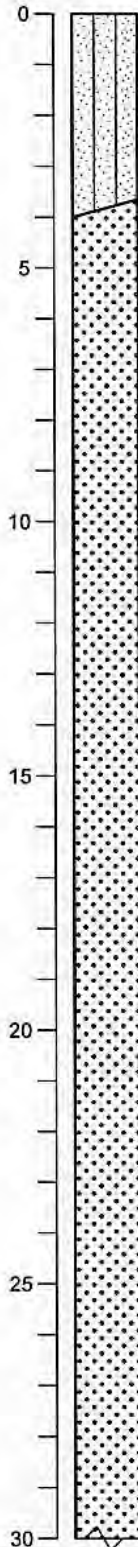
7 in. DIAMETER  
BOREHOLE: 0 to  
227 ft.

3 DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: 1 to 201  
ft.

BENTONITE-  
CEMENT SEAL: 2  
to 25 ft.

BENTONITE  
SLURRY: 25 to  
151 ft.

Depth (ft.)  
Sample



VERY DARK YELLOWISH BROWN SILTY SAND (SM) (10YR 3/2) Loose, dry, 80% fine to coarse sand, 20% silt, Trace roots to 1.5 ft.

BROWN WELL GRADED SAND (SW) (10YR 4/3) Loose, dry, 90% fine to coarse sand, 10% silt

@ 9 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

@ 12 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 15 ft.: Similar to above

@ 18 ft.: Change to Increase in coarse sand

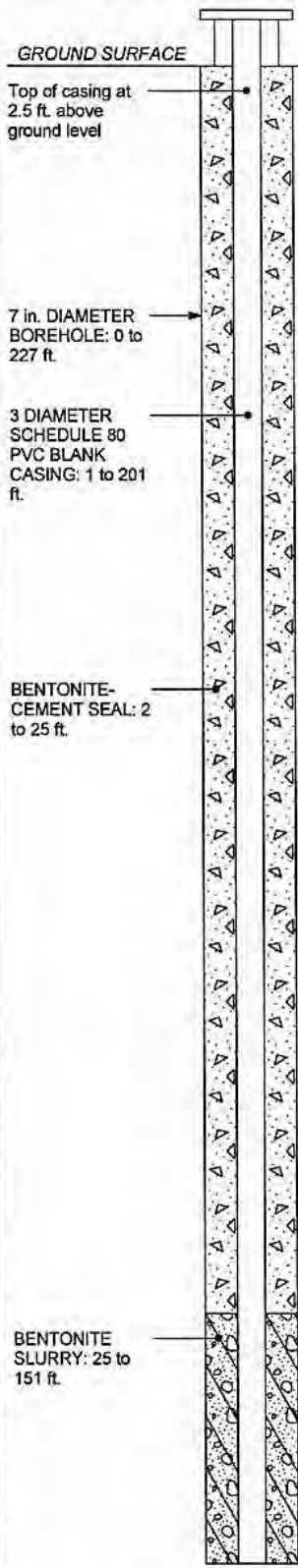
@ 20 ft.: Similar to above

@ 22 ft.: Change to Decrease in coarse sand

@ 23 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
Log of Boring MW-BW-54-180  
OUCTP

PLATE



Fort Ord, California

**A74**

DRAWN  
MBP

JOB NUMBER  
55596 001701

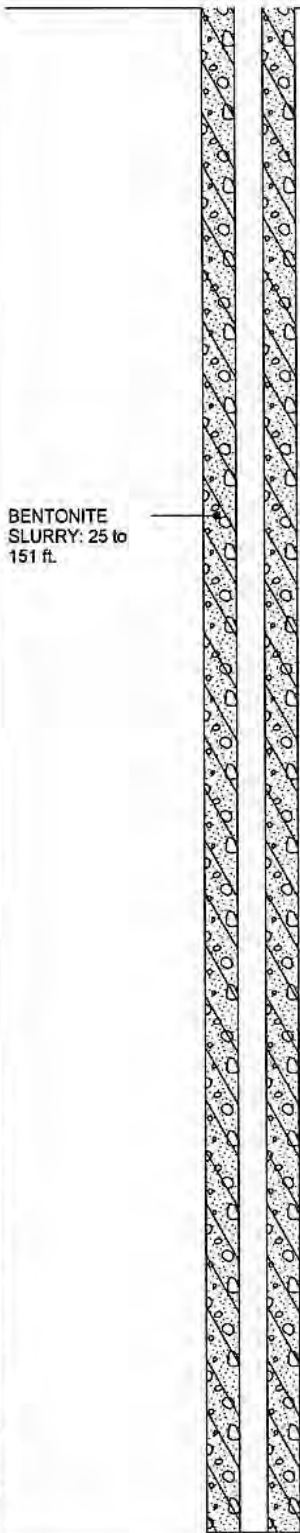
APPROVED  
*MDT / car*

DATE  
11/04

REVISED DATE

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 151 ft.

30  
 35  
 40  
 45  
 50  
 55  
 60

@ 30 ft.: Similar to above  
 @ 32 ft.: Similar to above  
 @ 36 ft.: Similar to above  
 @ 38 ft.: Change to Increase in coarse sand  
 @ 40 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 @ 44 ft.: Change to Decrease in coarse sand  
 @ 50 ft.: Similar to above  
 BROWN POORLY GRADED SAND (SP) (10YR 5/3) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 56 ft.: Similar to above  
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 90% fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-54-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A74**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

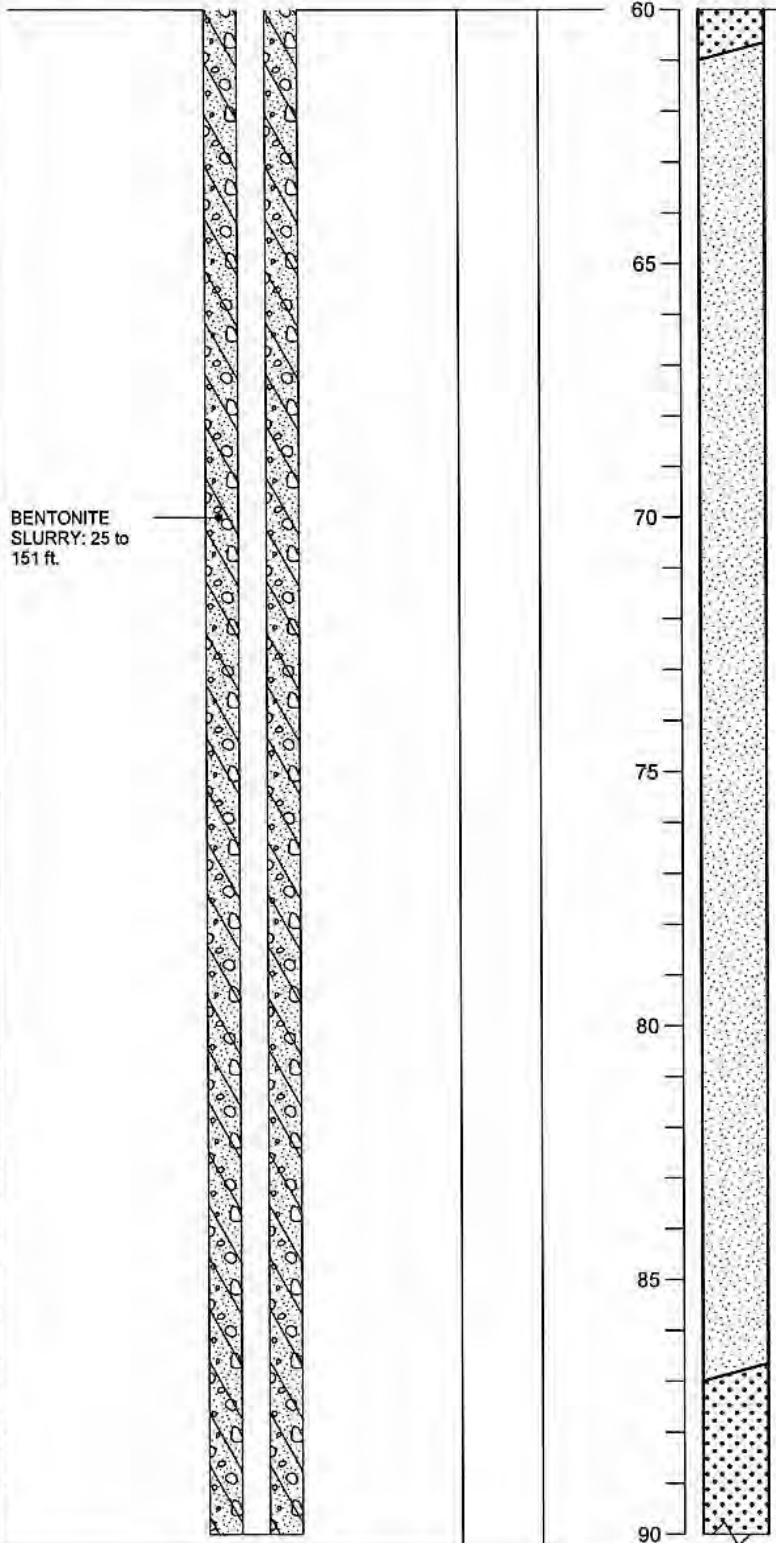
APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

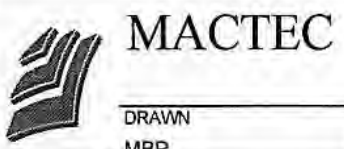
Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
Sample



@ 60 ft.: Similar to above  
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 65 ft.: Change to Loose, moist  
 @ 67 ft.: Change to PALE OLIVE (5Y 6/3) Loose, wet  
 @ 70 ft.: Change to YELLOWISH BROWN (10YR 5/4)  
 @ 73 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)  
 @ 75 ft.: Similar to above  
 @ 80 ft.: Similar to above  
 @ 85 ft.: Similar to above  
 OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 4/3) Loose, wet, 90% fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



Well Construction Details and Log of Boring MW-BW-54-180  
OUCTP

PLATE

**A74**

Fort Ord, California

DRAWN  
MBP

JOB NUMBER  
55596 001701

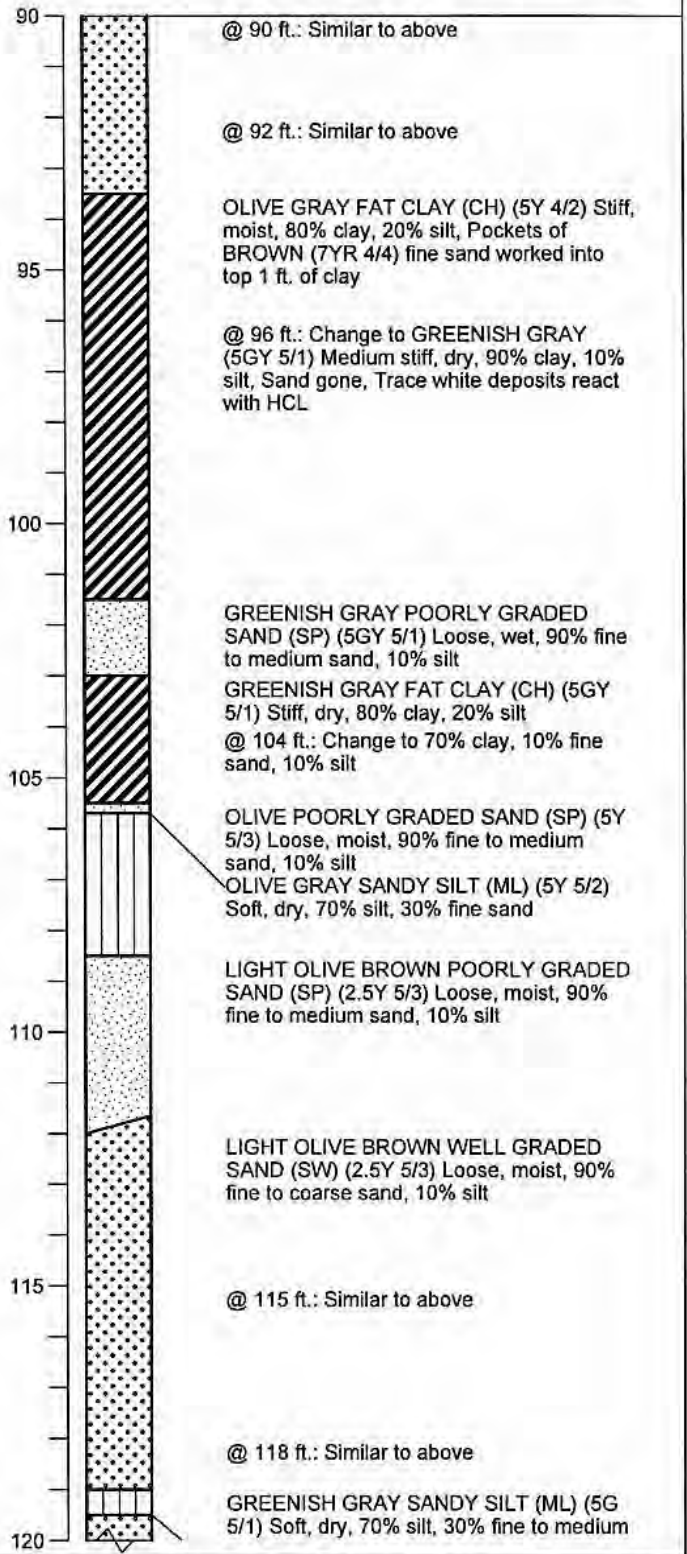
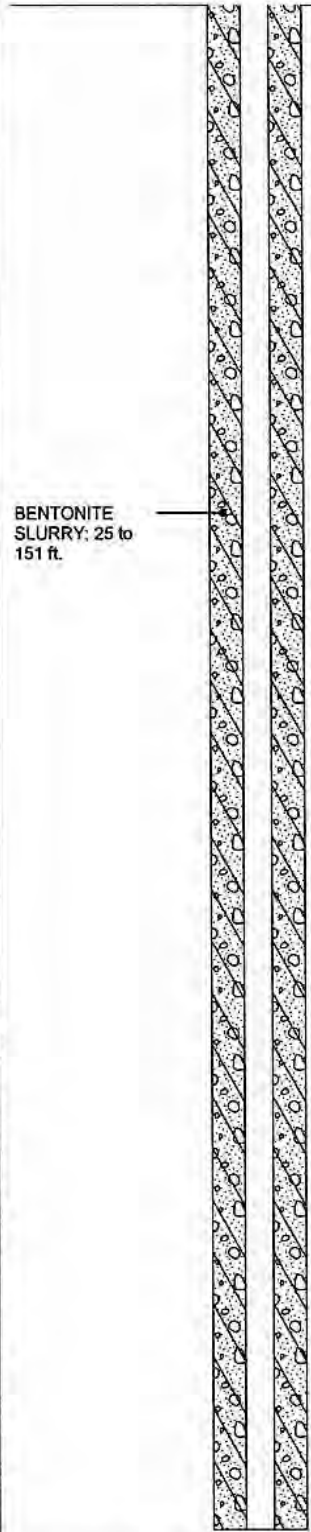
APPROVED  
*MDT/cw*

DATE  
11/04

REVISED DATE

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**MACTEC** PLATE

**Well Construction Details and Log of Boring MW-BW-54-180**

OUCTP

Fort Ord, California

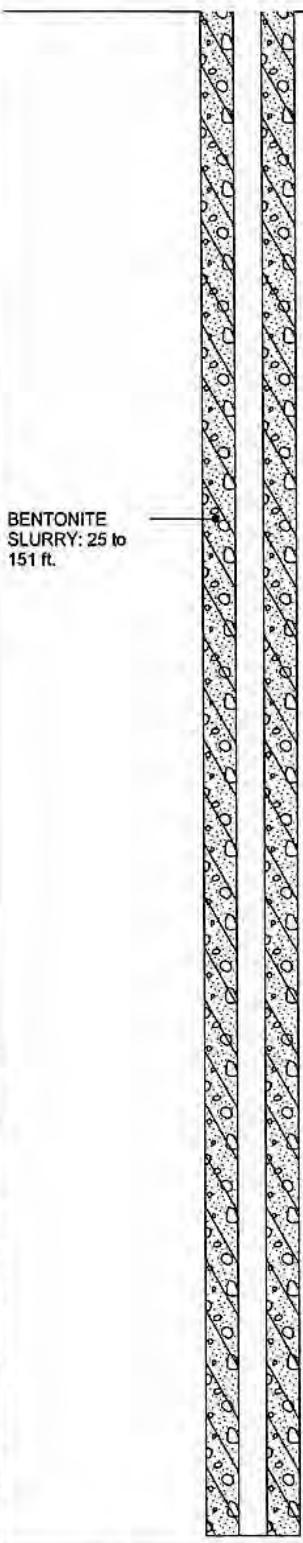
DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT/cwr</i>	DATE 11/04
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A74

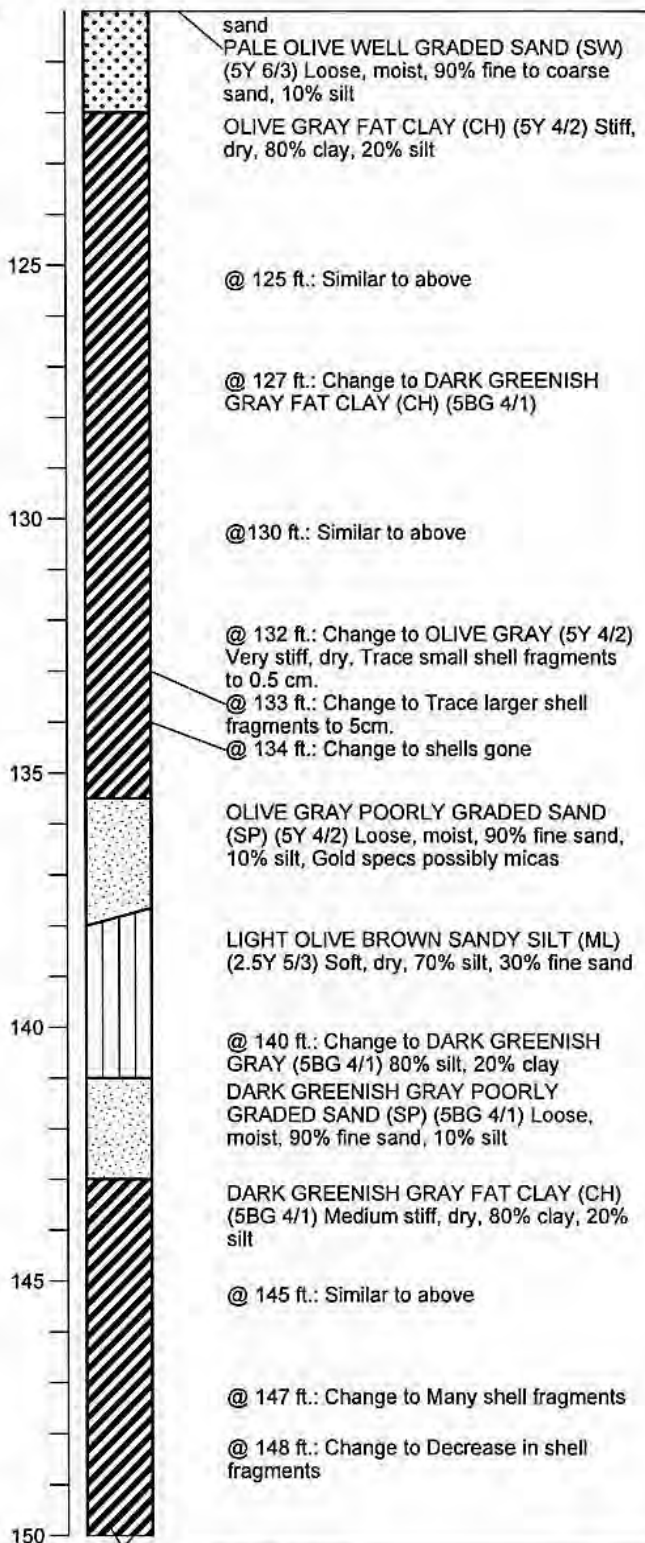
REVISED DATE

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 151 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-54-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A74**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT/Car*

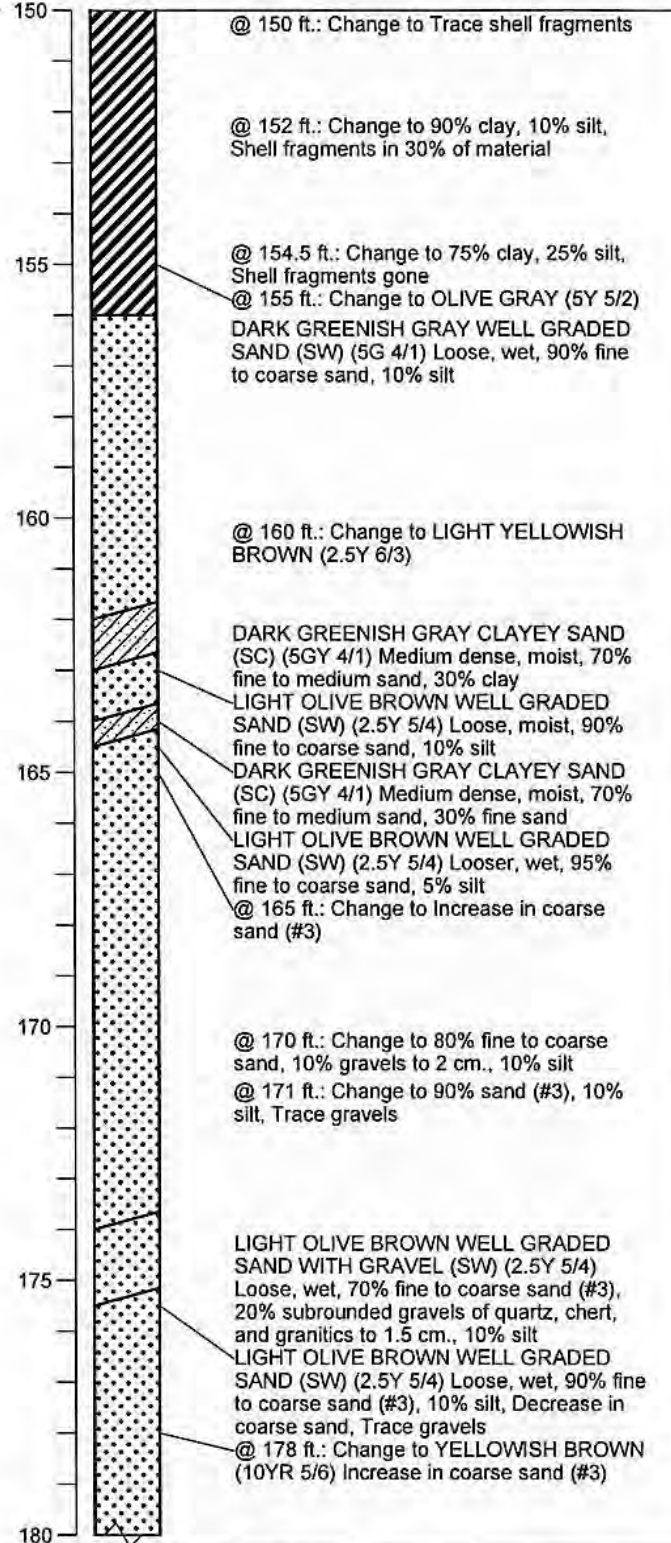
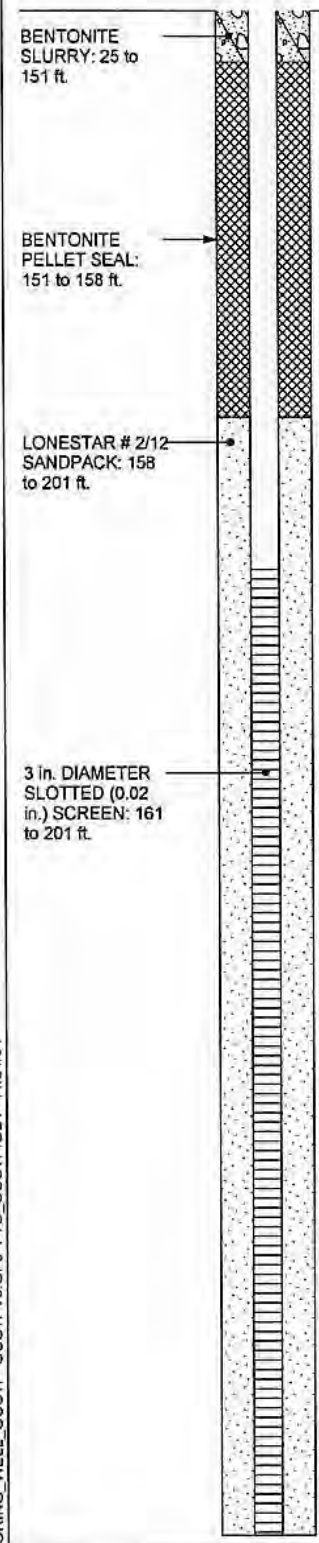
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 11/04

REVISED DATE



Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-54-180

PLATE



MACTEC

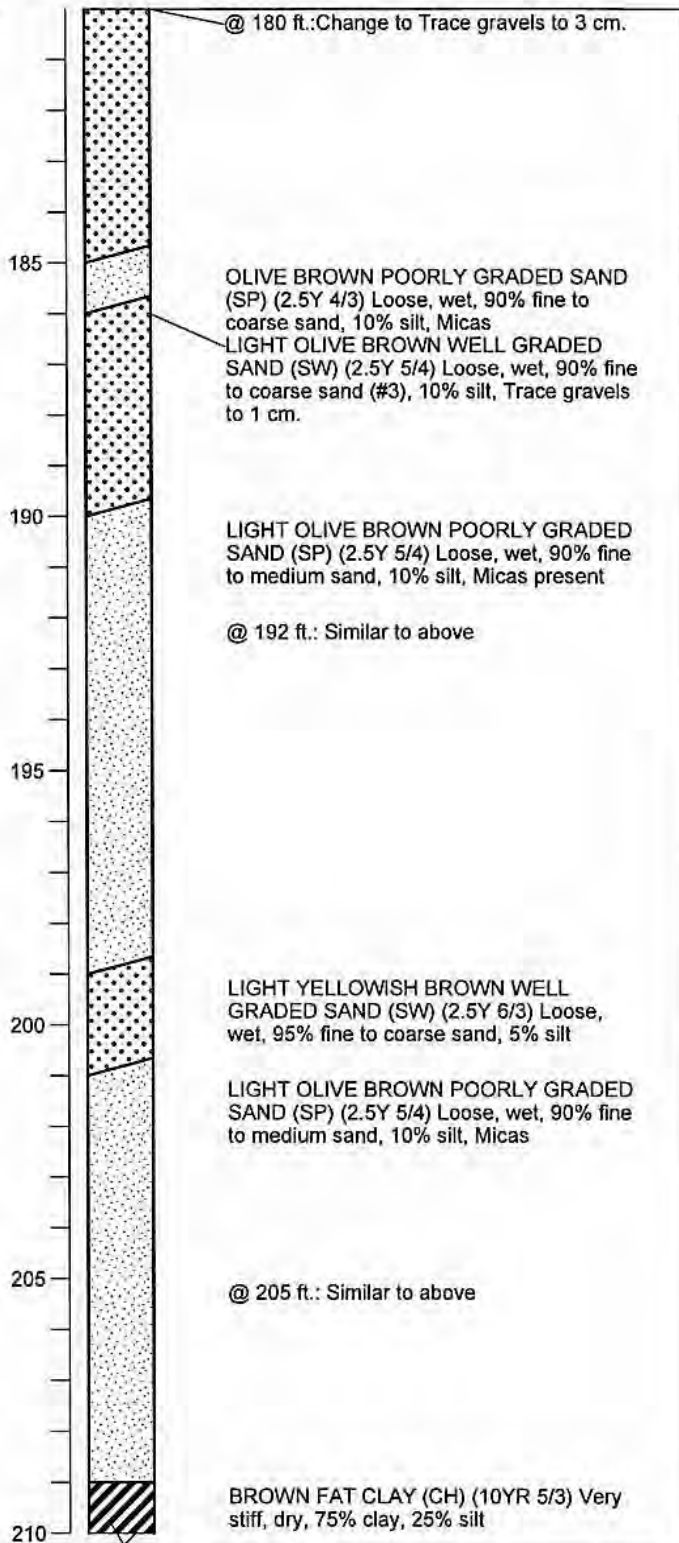
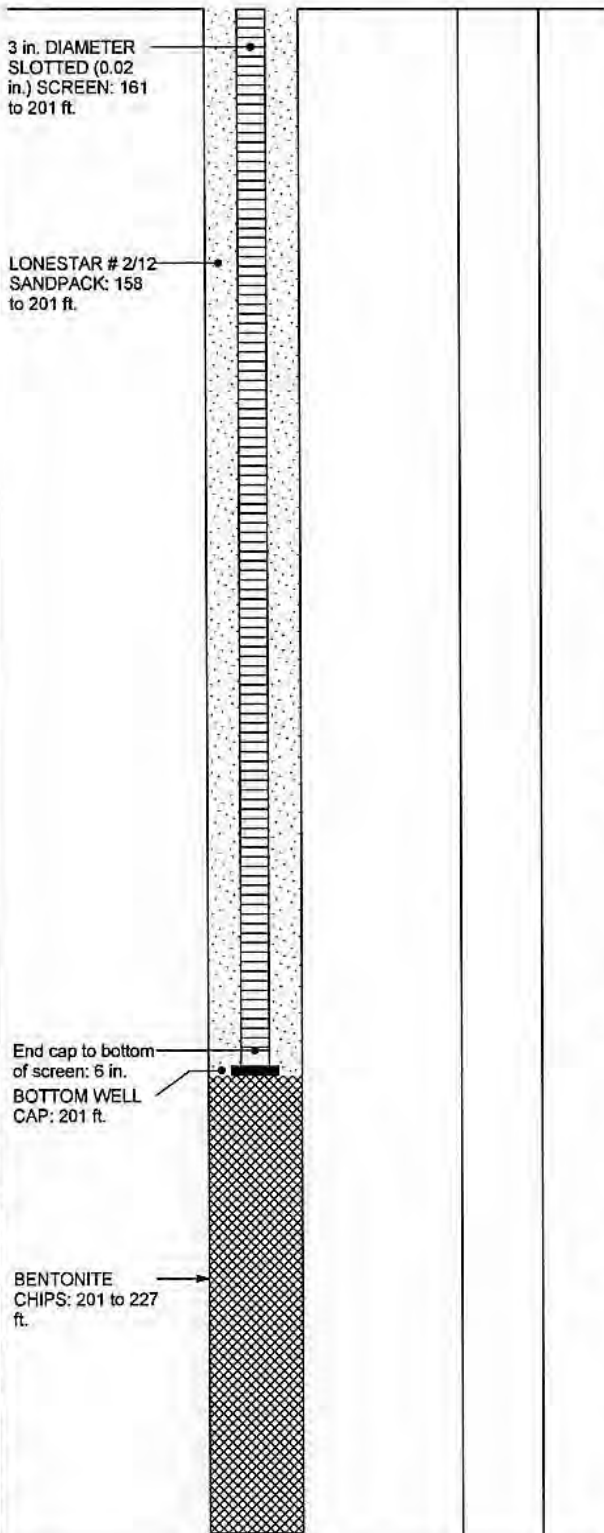
Fort Ord, California

A74

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MOT/cm	11/04	

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-54-180  
OUCTP

PLATE



MACTEC

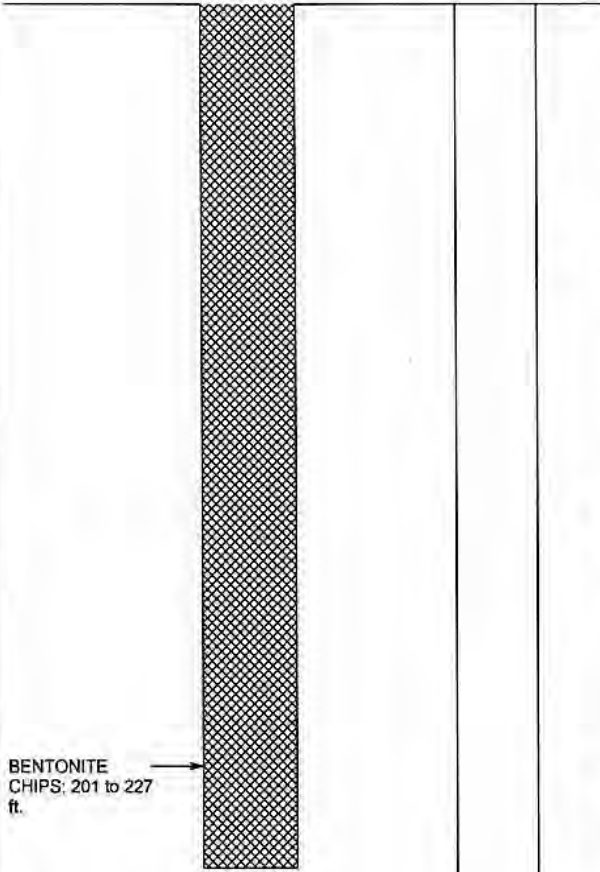
Fort Ord, California

**A74**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/Car</i>	11/04	

Completion Date 6/21/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 124.96 ft. Hole Dia. 7 in.  
 Northing 2142043.8 Easting 5746818.2

Depth (ft.)  
 Sample



BENTONITE  
 CHIPS: 201 to 227  
 ft.



@ 212 ft.: Similar to above

@ 215 ft.: Similar to above

@ 220 ft.: Similar to above

BROWN CLAYEY SAND (SC) (10YR 5/3)  
 Loose, dry, 75% fine sand, 25% clay  
 BROWN FAT CLAY (CH) (10YR 5/3) Very  
 stiff, dry, 80% clay, 20% silt

BROWN SILT (ML) (10YR 5/3) Stiff, dry,  
 80% silt, 20% clay

BROWN FAT CLAY (CH) (10YR 5/3) Very  
 stiff, dry, 80% clay, 20% silt

Bottom of boring at 227 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
 Log of Boring MW-BW-54-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A74**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
 MDT/cw

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 146.54 ft.

Completion Date 5/22/2001  
Drilling Method Hollow Stem Auger  
Logged by \_\_\_\_\_  
Surface Elevation 144.40 ft. Hole Dia. 12 in.  
Northing 2139291.492 Easting 5749576.585

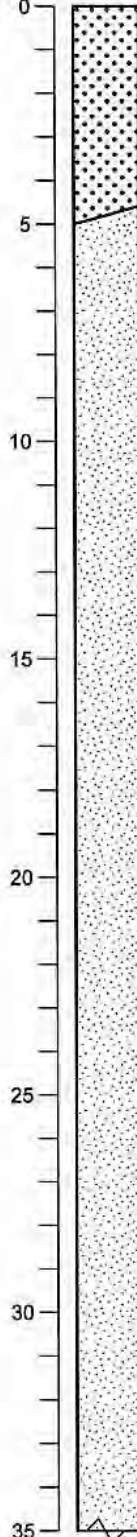
GROUND SURFACE

5 in. DIAMETER  
SCHEDULE 80  
PVC BLANK  
CASING: +2.14 to  
56 ft.

12 in. DIAMETER  
BOREHOLE: 0 to  
87 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 43 ft.

Depth (ft.)  
Sample



BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/6) Loose, dry, 60% medium sand, 35% fine sand, 5% organic matter, no odor  
@ 1 ft.: Color change to DARK YELLOWISH BROWN (10YR 3/4) 85% fine sand, 15% medium sand  
@ 2 ft.: Color change to YELLOWISH BROWN (10YR 5/6) 90% fine sand, 10% medium sand, trace fines  
OLIVE YELLOW POORLY GRADED SAND (SP) (2.5Y 6/6) Medium dense, dry, 95% fine sand, 5% medium sand, no odor

@ 15 ft.: Color change to OLIVE YELLOW (2.5Y 6/8)

@ 30 ft.: Change to dense

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
Log of Boring MW-BW-54-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A75**

DRAWN  
PCB

JOB NUMBER  
55596 001701

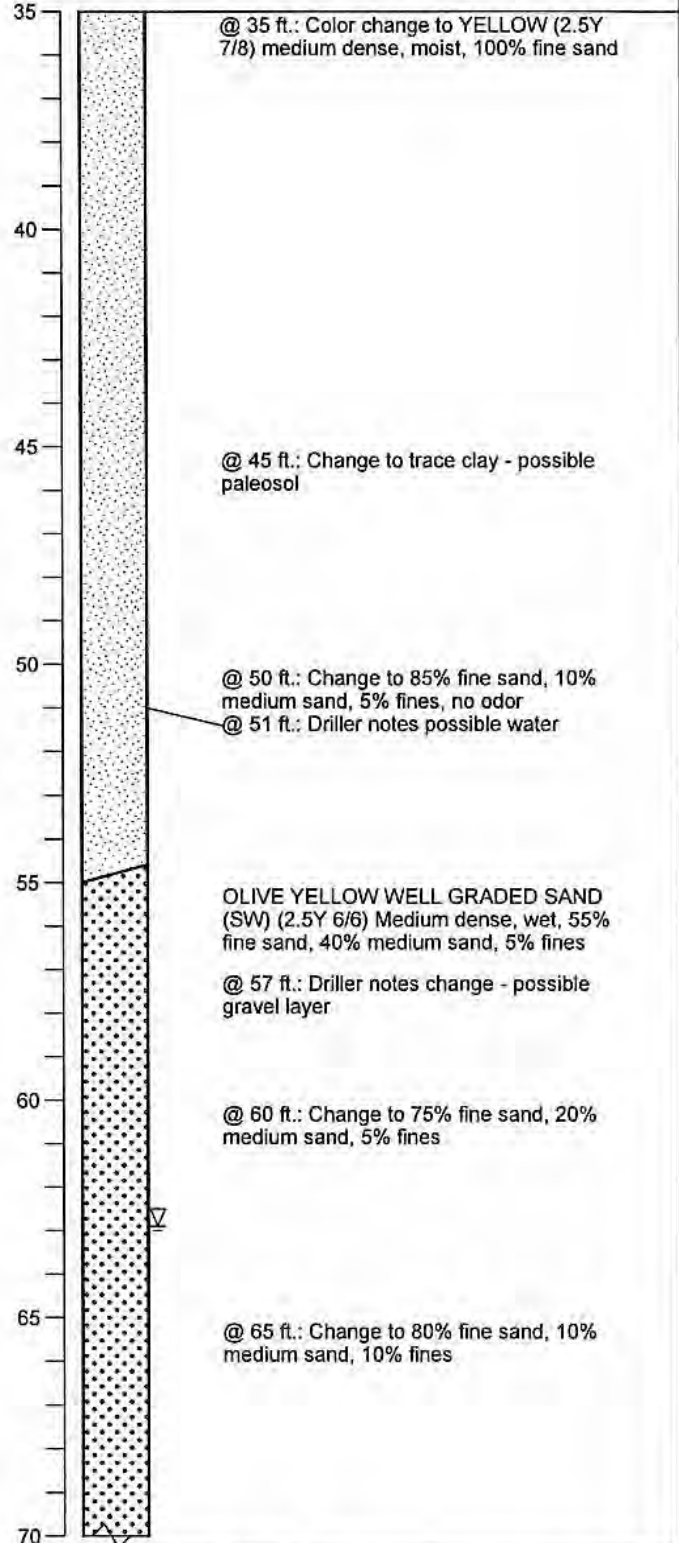
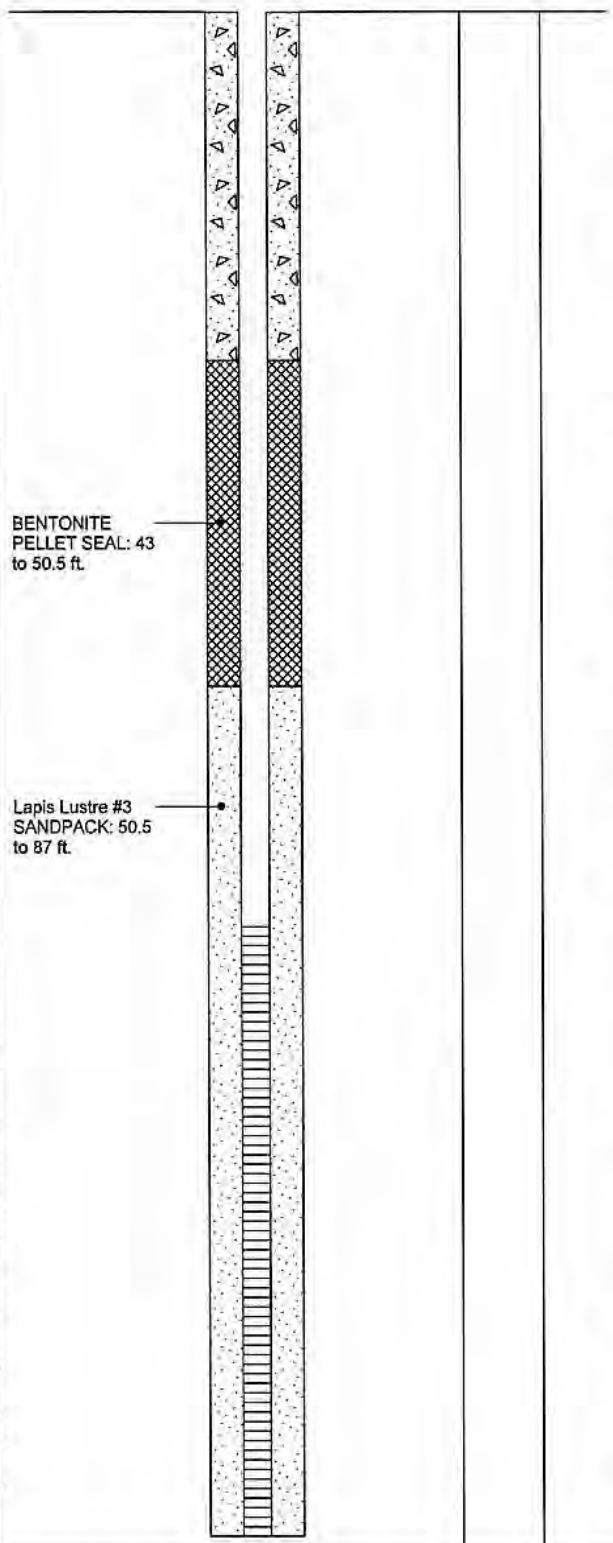
APPROVED  
*MDT / CM*

DATE  
11/04

REVISED DATE

Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.40 ft. Hole Dia. 12 in.  
 Northing 2139291.492 Easting 5749576.585

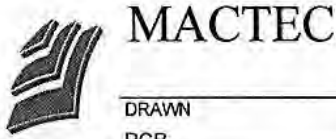
Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV8.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and Log of Boring MW-BW-54-A

PLATE



Fort Ord, California

**A75**

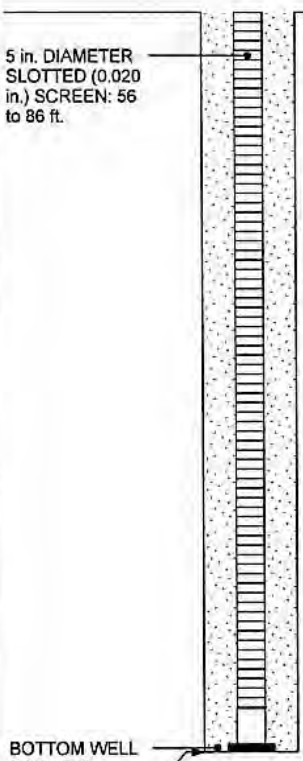
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
PCB	55596 001701	<i>NOT / can</i>	11/04	



Completion Date 5/22/2001  
 Drilling Method Hollow Stem Auger  
 Logged by \_\_\_\_\_  
 Surface Elevation 144.40 ft. Hole Dia. 12 in.  
 Northing 2139291.492 Easting 5749576.585

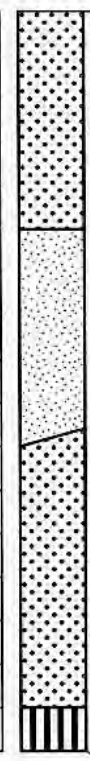
Depth (ft.)  
 Sample

5 in. DIAMETER  
 SLOTTED (0.020  
 in.) SCREEN: 56  
 to 86 ft.



BOTTOM WELL  
 CAP: 87 ft.  
 Hole cleaned out  
 to 87 ft. Bottom of  
 boring at 87 ft.

70  
 75  
 80  
 85



@ 70 ft.: Change to 75% fine sand, 15%  
 medium sand, 10% fines

OLIVE YELLOW POORLY GRADED SAND  
 (SP) (2.5Y 6/6) Dense, wet, 85% fine sand,  
 10% fines, 5% medium sand, no odor

OLIVE YELLOW WELL GRADED SAND  
 (SW) (2.5Y 6/6) Dense, wet, 75% fine sand,  
 15% medium sand, 10% fines, no odor

PALE OLIVE ELASTIC SILT (MH) (5Y 6/3)  
 Dense, moist, 90% silt, 5% fine sand, 5%  
 clay  
 Bottom of borehole at 87 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-54-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A75**

DRAWN  
 PCB

JOB NUMBER  
 55596 001701

APPROVED  
*MDT/car*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 144.47 ft.

Completion Date 7/9/2003  
Drilling Method Sonic  
Logged by D. Browne  
Surface Elevation 141.52 ft. Hole Dia. 7 in.  
Northing 2140906.6 Easting 5748107.6

GROUND SURFACE

Top of casing at 2 ft. above ground level

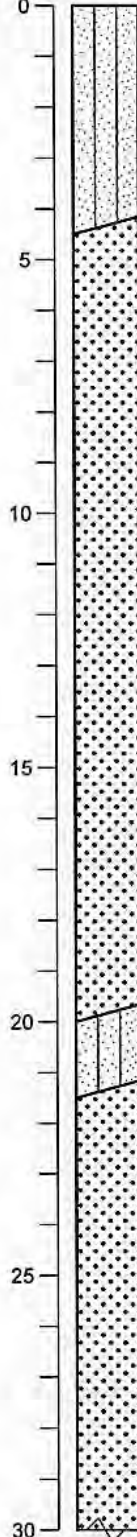
7 in. DIAMETER BOREHOLE: 0 to 207 ft.

3 DIAMETER SCHEDULE 80 PVC BLANK CASING: 1 to 171 ft.

BENTONITE-CEMENT SEAL: 2 to 25 ft.

BENTONITE SLURRY: 25 to 159 ft.

Depth (ft.)  
Sample



DARK GRAYISH BROWN SILTY SAND (SM) (10YR 4/2) Loose, dry, 80% fine to coarse sand, 20% silt

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 3/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 10 ft.: Change to YELLOWISH BROWN (10YR 5/4)

@ 12 ft.: Change to LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4)

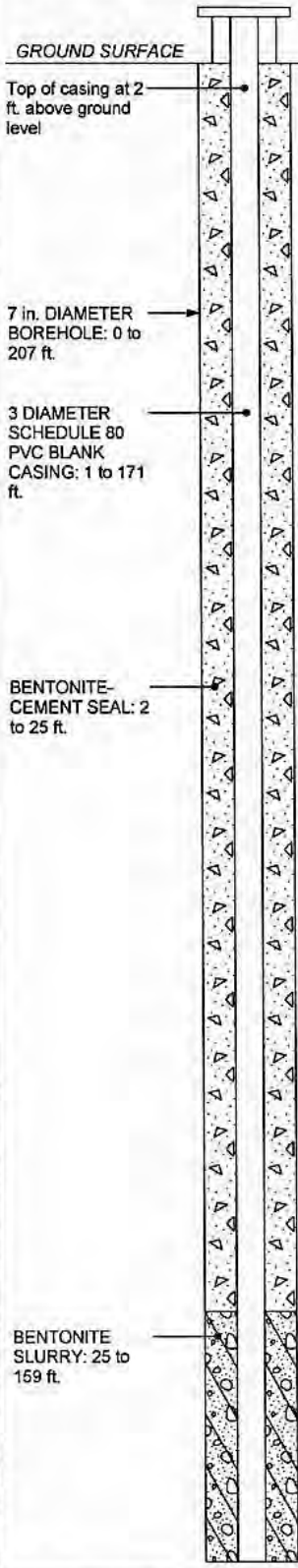
@ 14 ft.: Change to PALE BROWN (10YR 6/3)

DARK YELLOWISH BROWN SILTY SAND (SM) (10YR 4/6) Loose, dry, 80% fine to coarse sand, 20% silt

YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Loose, dry, 90% fine to coarse sand, 10% silt

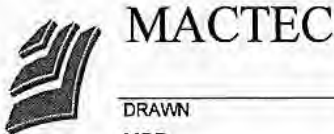
@ 25 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1124/04



Well Construction Details and  
Log of Boring MW-BW-55-180  
OUCTP

PLATE



Fort Ord, California

**A76**

DRAWN  
MBP

JOB NUMBER  
55596 001701

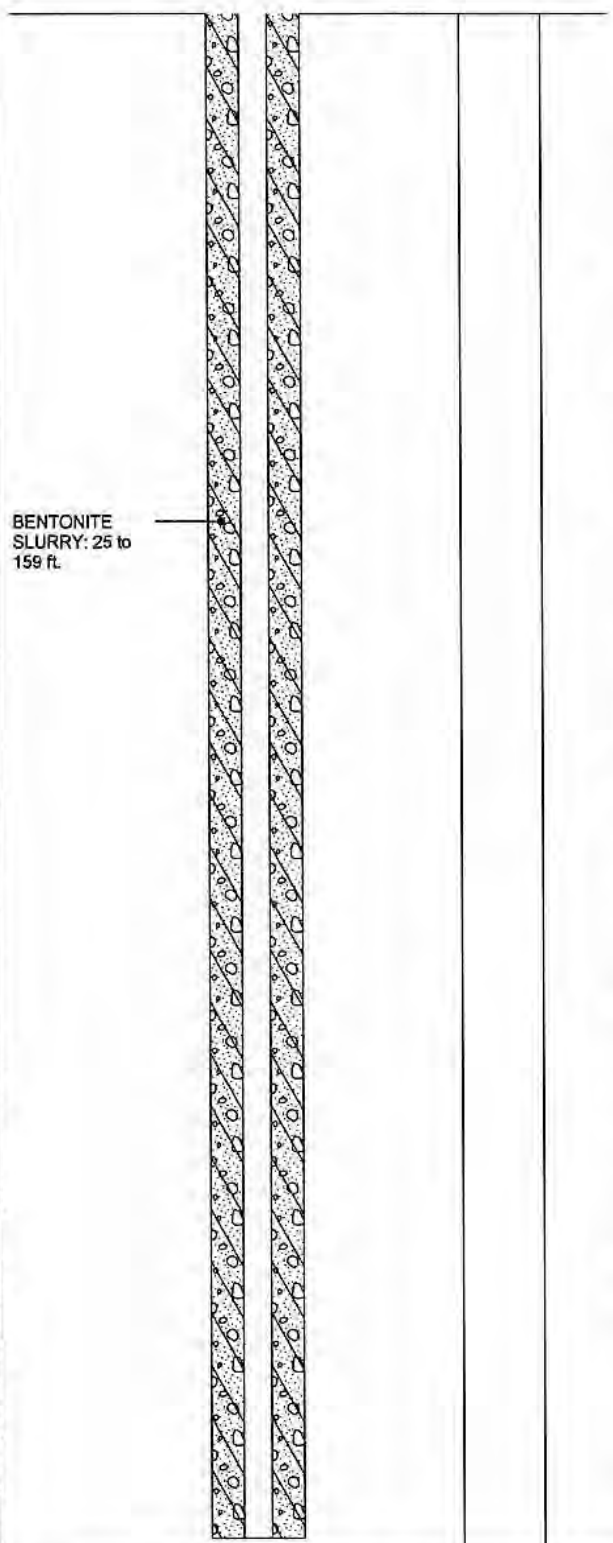
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*MDT / CM*

DATE  
11/04

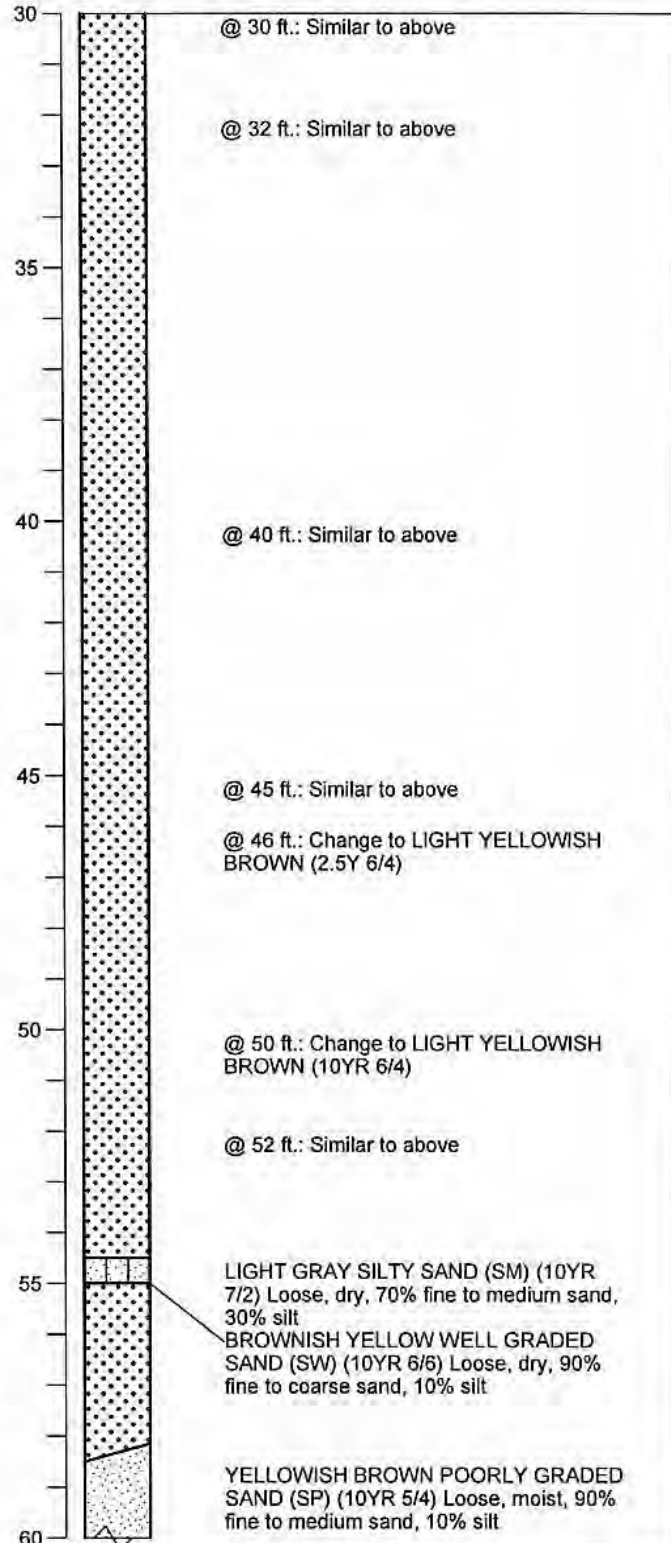
REVISED DATE

Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 159 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-55-180**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A76**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / CM*

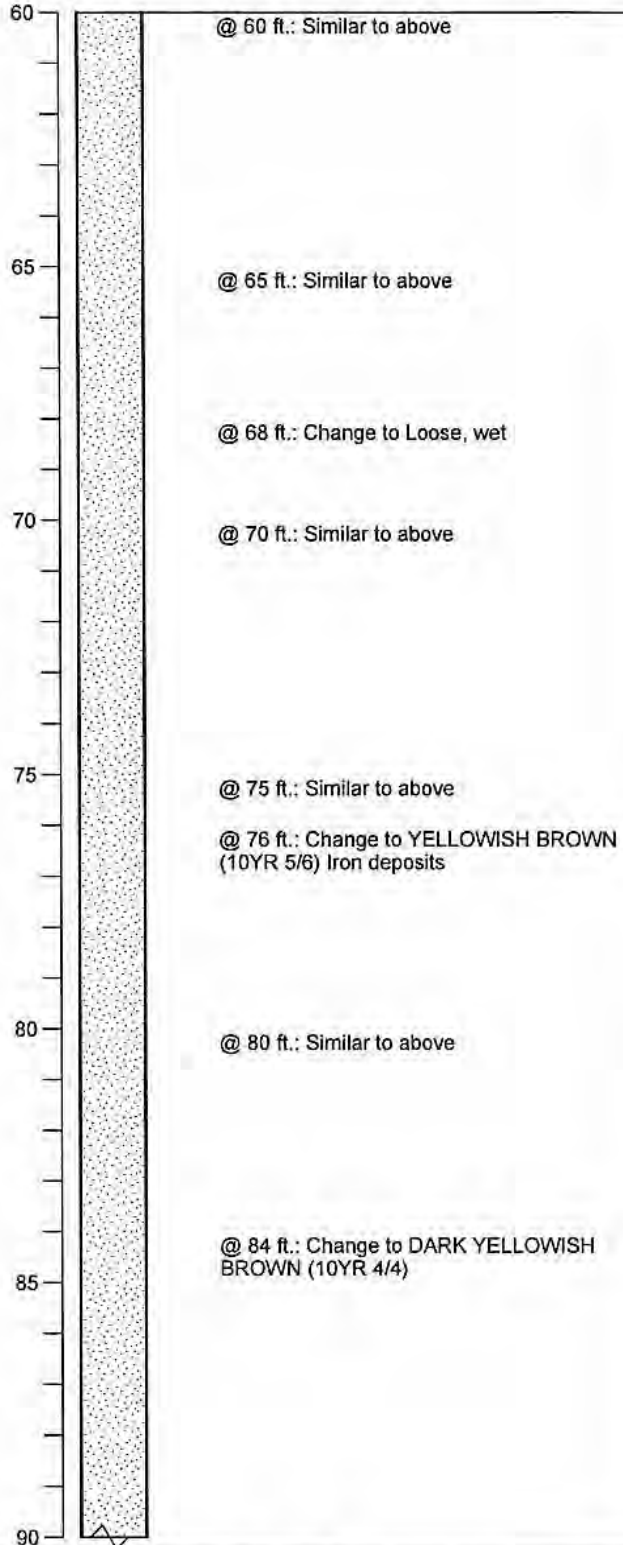
DATE  
 11/04

REVISED DATE

Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)  
 Sample

BENTONITE  
 SLURRY: 25 to  
 159 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-55-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A76**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

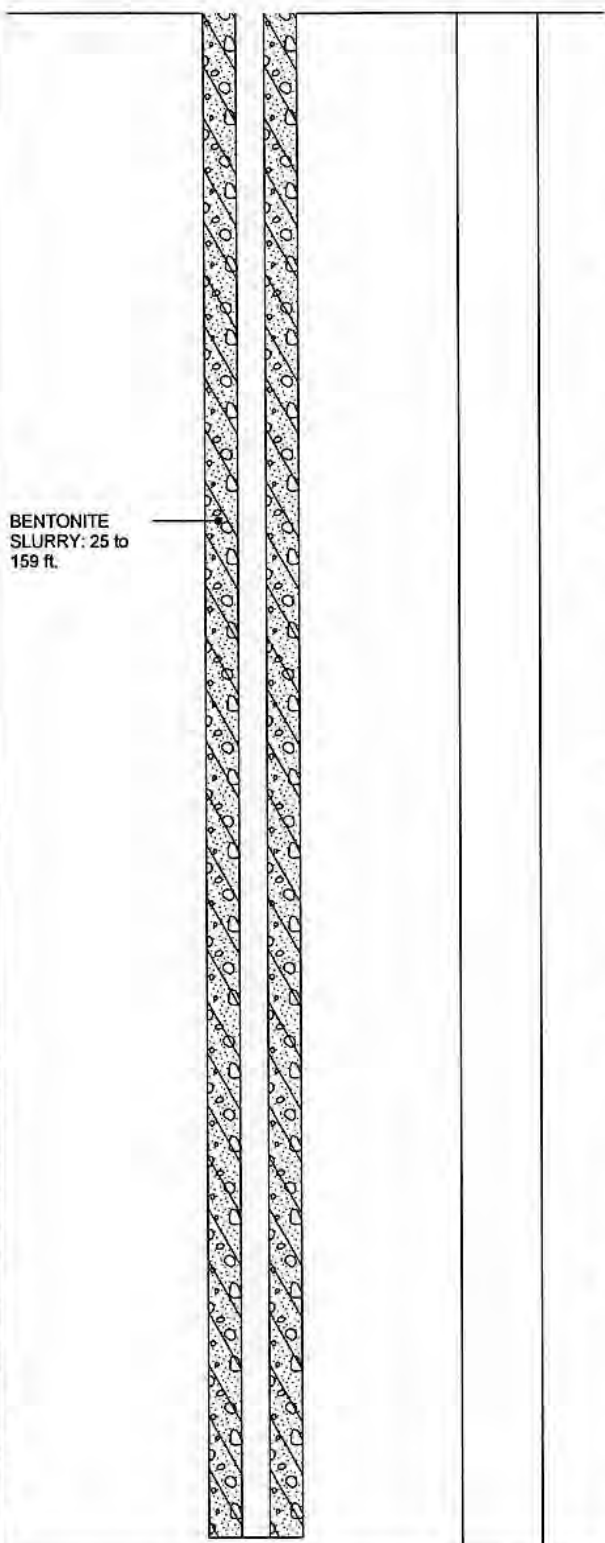
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 MDT / CM

DATE  
 11/04

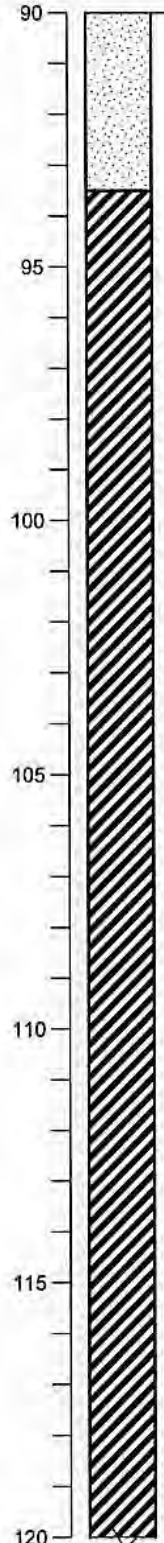
REVISED DATE

Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)  
 Sample



BENTONITE  
 SLURRY: 25 to  
 159 ft.



@ 90 ft.: Similar to above

@ 92 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/3)

OLIVE GRAY FAT CLAY (CH) (2.5Y 4/2)  
 Medium stiff, dry, 70% clay, 25% silt, 5% reworked fine sand to 94 ft.

@ 96 ft.: Similar to above

@ 100 ft.: Change to DARK GREENISH GRAY (5GY 4/1) White residue present reacts with HCL

@ 102 ft.: Change to DARK GREENISH GRAY (5G 4/1)

@ 104 ft.: Change to Trace small granules react with HCL

@ 105 ft.: Similar to above

@ 110 ft.: Change to Quarter size pockets of white residue react with HCL

@ 112 ft.: Change to DARK GREENISH GRAY (5GY 4/1) Medium stiff, moist, 80% clay, 20% silt, Decrease in white residue (Carbonate) pockets

@ 116 ft.: Change to Carbonate deposits gone

@ 118 ft.: Change to OLIVE GRAY (5Y 4/2)

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-55-180**

PLATE

**MACTEC**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

Fort Ord, California

APPROVED  
*MDT/cm*

DATE  
 11/04

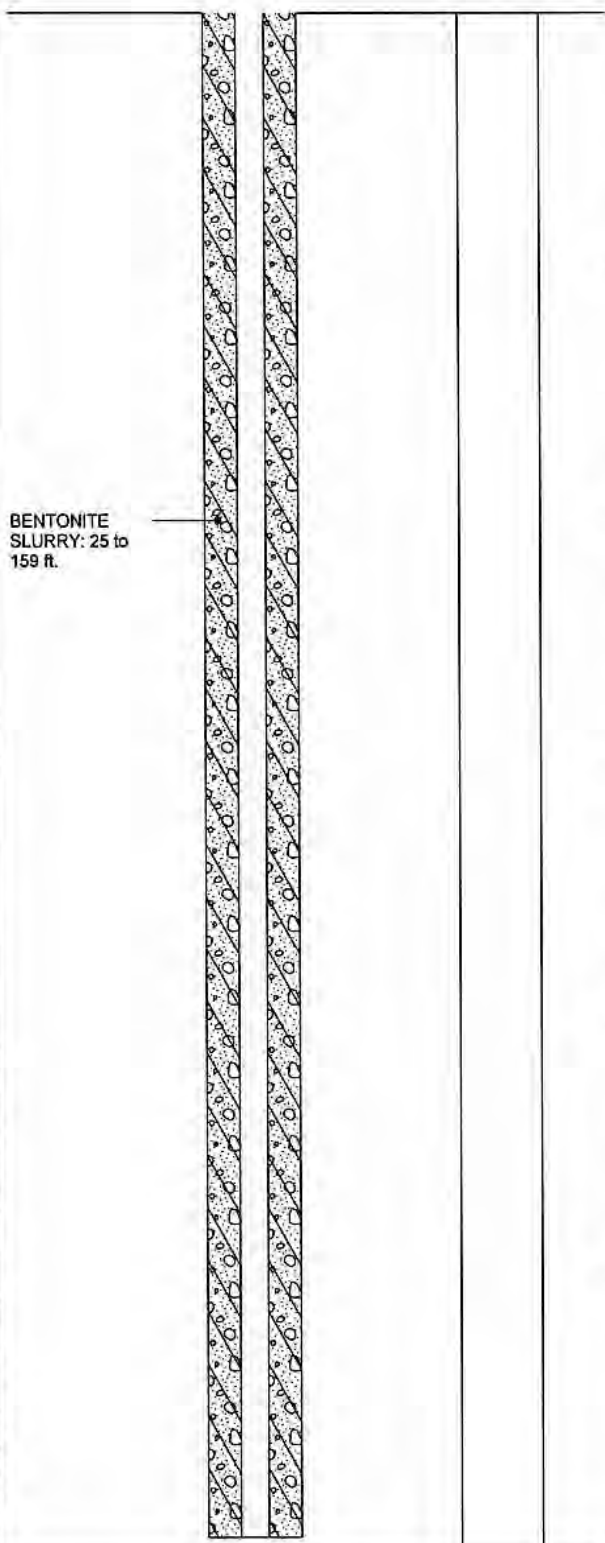
**A76**

REVISED DATE

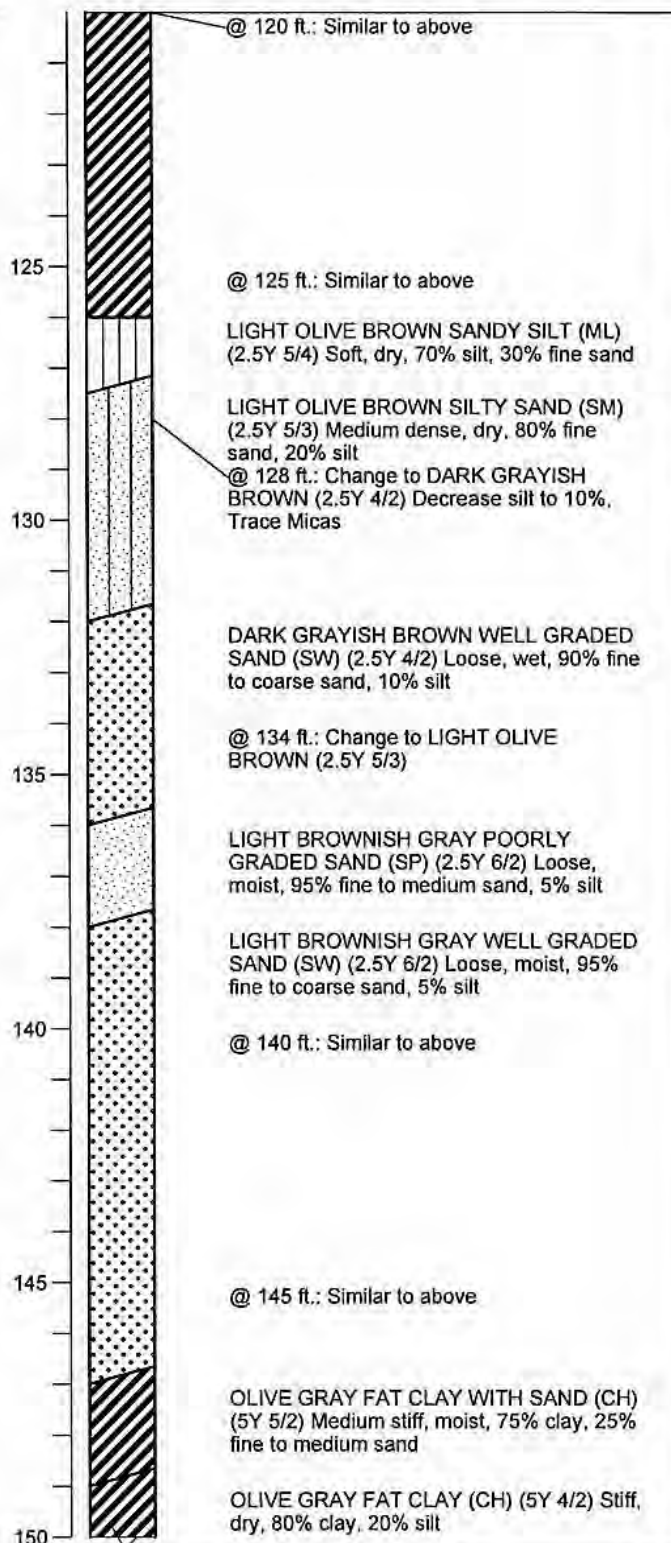


Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)  
 Sample



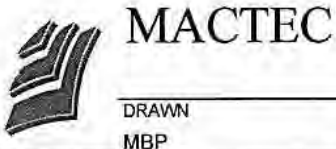
BENTONITE  
 SLURRY: 25 to  
 159 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-55-180**

PLATE



Fort Ord, California

**A76**

DRAWN  
 MBP

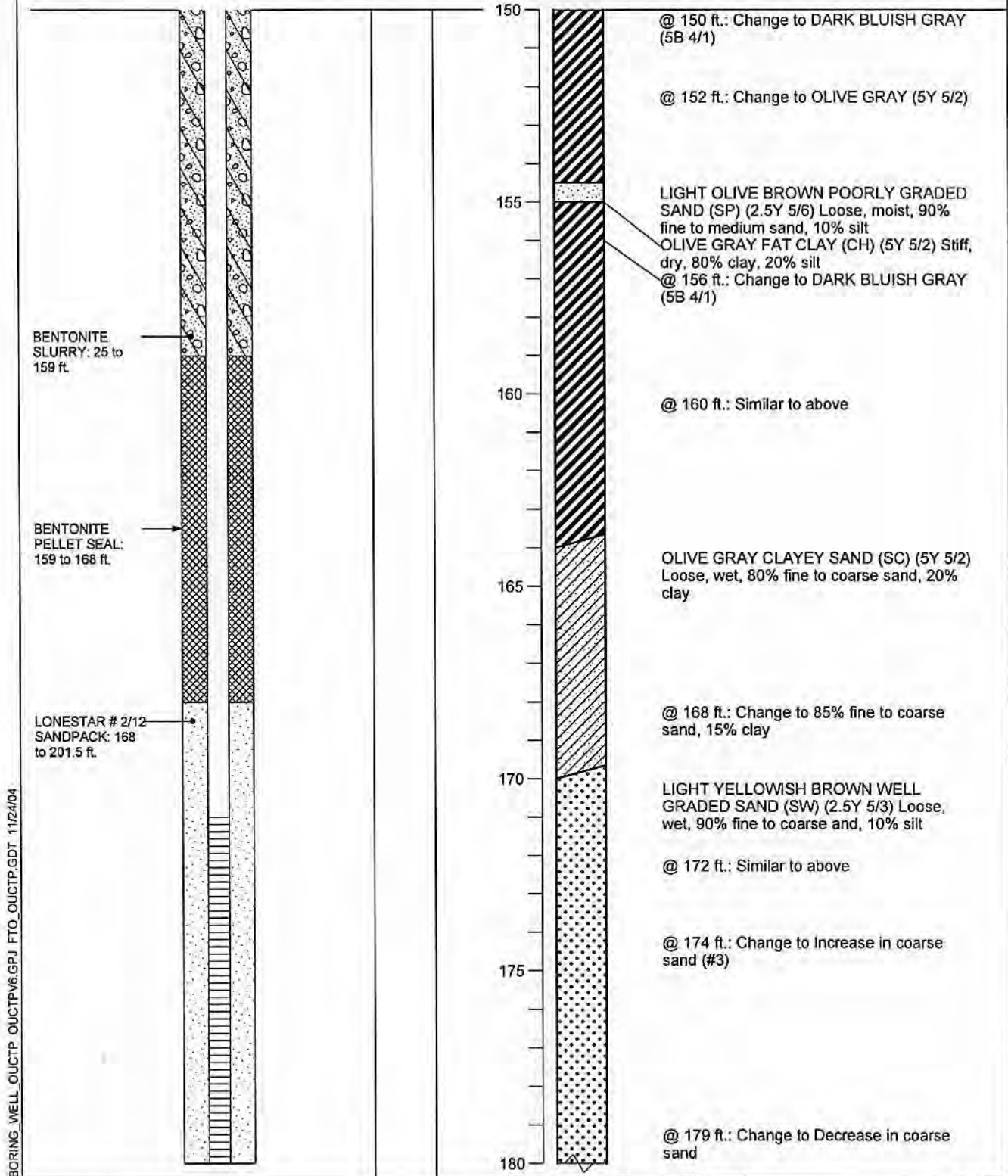
JOB NUMBER  
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APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6



BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-55-180**  
 OUCTP

PLATE

**MACTEC**  
 DRAWN: MBP  
 JOB NUMBER: 55596 001701

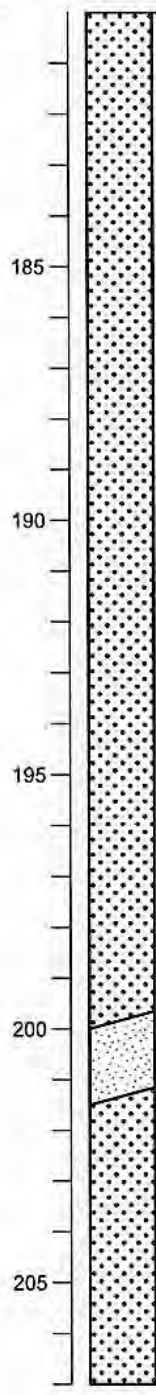
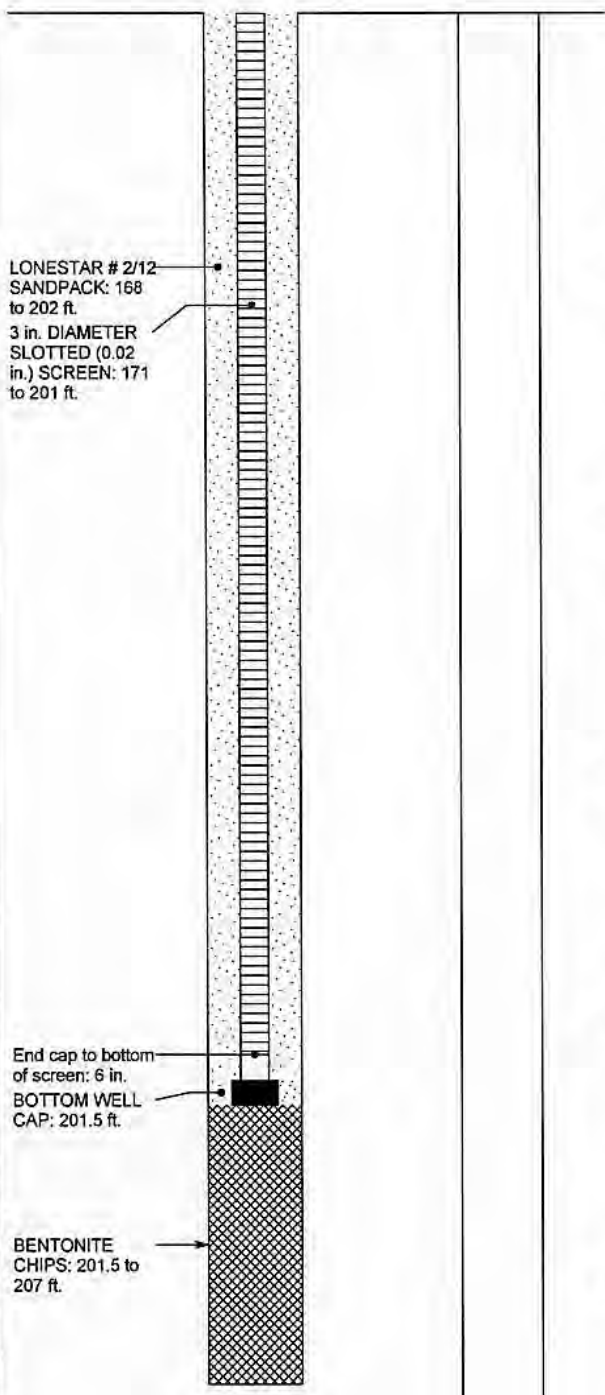
Fort Ord, California  
 APPROVED: *MBP/CA*

DATE: 11/04  
 REVISED DATE:

**A76**

Completion Date 7/9/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 141.52 ft. Hole Dia. 7 in.  
 Northing 2140906.6 Easting 5748107.6

Depth (ft.)  
Sample



@ 184 ft.: Change to Increase in coarse sand (#3)

@ 186 ft.: Similar to above

@ 188 ft.: Change to 85% fine to coarse sand, 10% silt, 5% subrounded gravels of chert, quartz, and granitics to 3 cm.

@ 190 ft.: Change to 80% fine to coarse sand, 10% gravels up to 3 cm., 10% silt

@ 191 ft.: Change to DARK GRAYISH BROWN (10YR 4/2) Gravels gone

@ 192 ft.: Change to 85% fine to coarse sand, 10% silt, 5% gravel

@ 193 ft.: Change to Trace gravels

@ 193.5 ft.: Change to YELLOWISH BROWN (10YR 5/4) Gravels gone

@ 195 Change to VERY DARK GRAY (10YR 3/1) Loose, wet, 90% fine to coarse sand, 10% silt

@ 197.5 ft.: Change to YELLOWISH BROWN (10YR 5/4) Trace gravels

@ 199 ft.: Change to Decrease in coarse sand  
 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/4) Loose, wet, 90% fine to medium sand, 10% silt, Trace Micaceous  
 YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/4) Loose, wet, 90% fine to coarse sand, 10% silt, Trace #3 sand

@ 204 ft.: Change to Decrease in coarse sand

Bottom of boring at 207 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-55-180**  
OUCTP

PLATE

**A76**

DRAWN  
MBP

JOB NUMBER  
55596 001701

Fort Ord, California  
APPROVED  
*MDT/cwr*

DATE  
11/04

REVISED DATE

Top of PVC Casing  
Elev. 155.90 ft.

Completion Date 8/12/2002  
Drilling Method Hollow Stem Auger  
Logged by DSB  
Surface Elevation 155.70 ft. Hole Dia. 12 in.  
Northing 2139168.53 Easting 5747940.95

GROUND SURFACE

Top of casing at  
0.5 ft. above  
ground surface

12 DIA.  
BOREHOLE: 0 to  
110 ft.

5 DIA. SCHED. 40  
PVC BLANK  
CASING: 0 to 79  
ft.

BENTONITE-CEMENT  
SEAL: 0 to 70 ft.

Depth (ft.)  
Sample

0  
5  
10  
15  
20  
25  
30  
35

OLIVE-GRAY SILTY SAND (SM) (5Y 4/2)  
Loose, dry, 75% fine to coarse sand, 25% silt

@ 4 ft.: Color change to OLIVE-BROWN  
SILTY SAND (SM) (2.5Y 4/3)

DARK YELLOW-BROWN WELL-GRADED  
SAND (SW) (10YR 4/6) Loose, dry, 95%  
fine to coarse sand, 5% silt

YELLOW-BROWN POORLY-GRADED  
SAND (SP) (10YR 5/6) Loose, dry, 95%  
fine to medium sand, 5% silt

BROWN WELL-GRADED SAND (SW)  
(10YR 5/3) Loose, dry, 95% fine to coarse  
sand, 5% silt

@ 20 ft.: Color change to  
YELLOW-BROWN (10YR 5/6)

@ 30 ft.: Color change to (10YR 5/8)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and  
Log of Boring MW-BW-55-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A77**

DRAWN  
CN

JOB NUMBER  
55596 001701

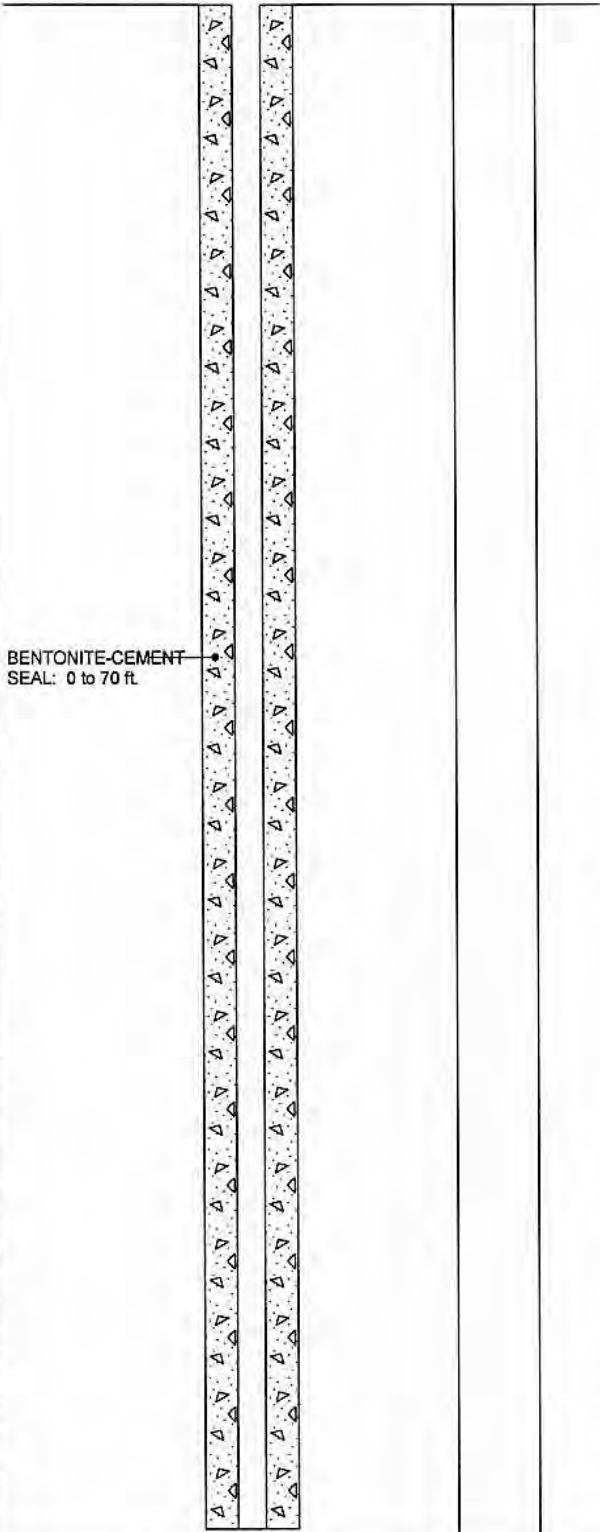
APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE

Completion Date 8/12/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 155.70 ft. Hole Dia. 12 in.  
 Northing 2139168.53 Easting 5747940.95

Depth (ft.)  
 Sample



BENTONITE-CEMENT  
 SEAL: 0 to 70 ft.

35  
 40  
 45  
 50  
 55  
 60  
 65  
 70

@ 35 ft.: Decrease in coarse-grained sand

YELLOW-BROWN POORLY-GRADED  
 SAND (SP) (10YR 5/8) Loose, dry, 95%  
 fine to medium sand, 5% silt

@ 45 ft.: Color change to YELLOW  
 BROWN (10YR 5/4)

@ 50 ft.: Color change to BROWN (10YR  
 5/3)

YELLOW-BROWN WELL-GRADED SAND  
 (SW) (10YR 5/4) Loose, dry, 95% fine to  
 coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and  
 Log of Boring MW-BW-55-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A77**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

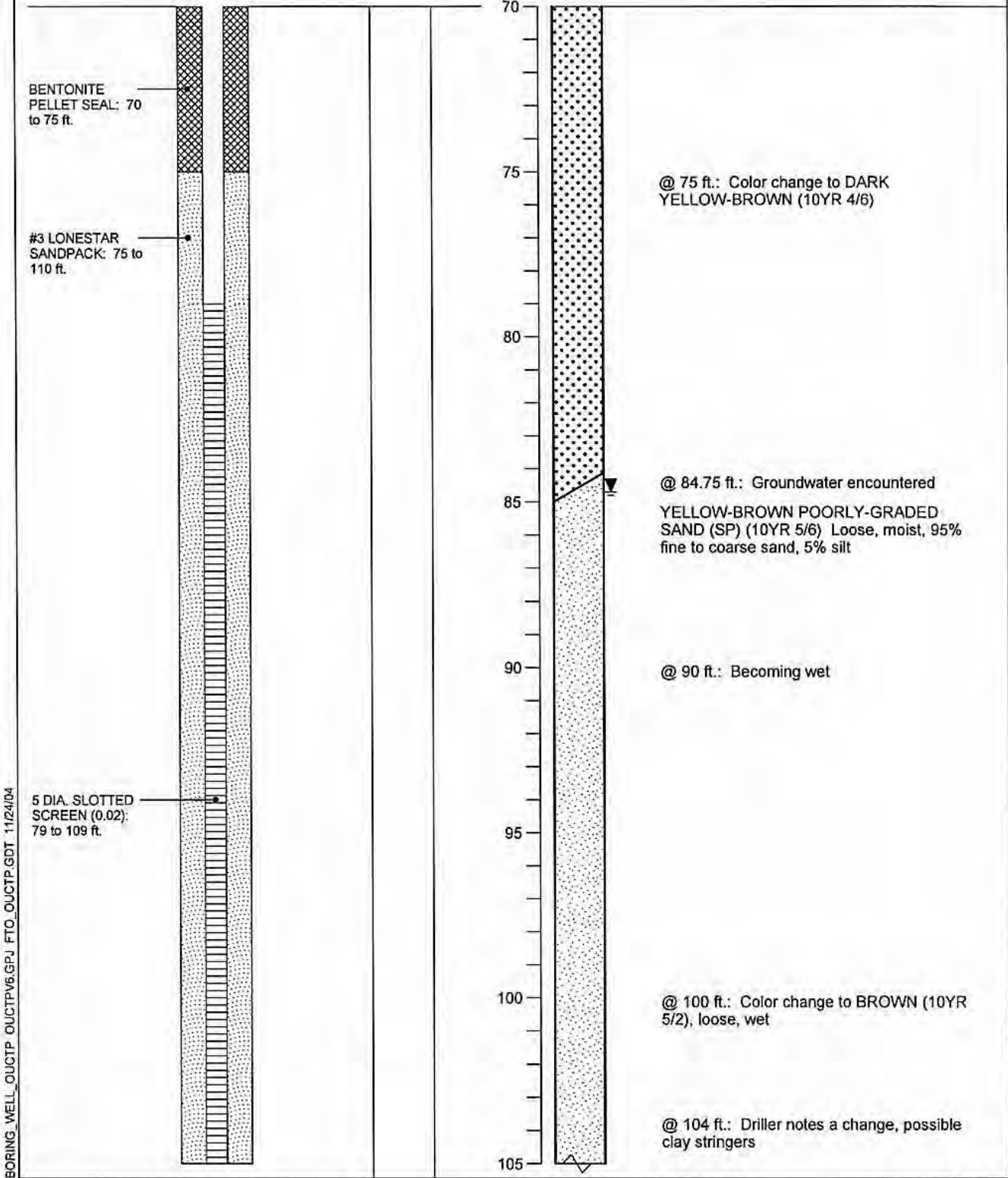
APPROVED  
 MDT / car

DATE  
 11/04

REVISED DATE



Completion Date 8/12/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 155.70 ft. Hole Dia. 12 in.  
 Northing 2139168.53 Easting 5747940.95



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-55-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A77**

DRAWN  
CN

JOB NUMBER  
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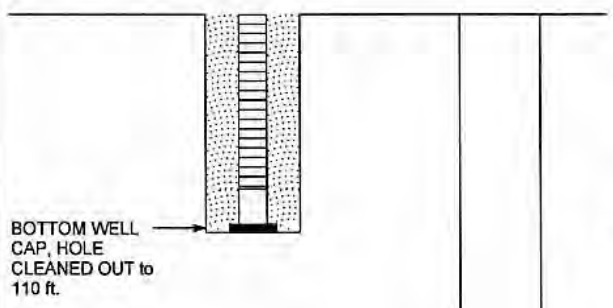
APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE

Completion Date 8/12/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 155.70 ft. Hole Dia. 12 in.  
 Northing 2139168.53 Easting 5747940.95

Depth (ft.)  
 Sample



BOTTOM WELL  
 CAP, HOLE  
 CLEANED OUT to  
 110 ft.

105  
 110



LIGHT OLIVE-BROWN FAT CLAY (CH)  
 (2.5Y 5/3) Soft, moist, 90% clay, 5% fine  
 sand, 5% silt  
 Bottom of boring at 110 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**MACTEC**  
 DRAWN CN  
 JOB NUMBER 55596 001701

**Well Construction Details and  
 Log of Boring MW-BW-55-A**  
 OUCTP  
 Fort Ord, California

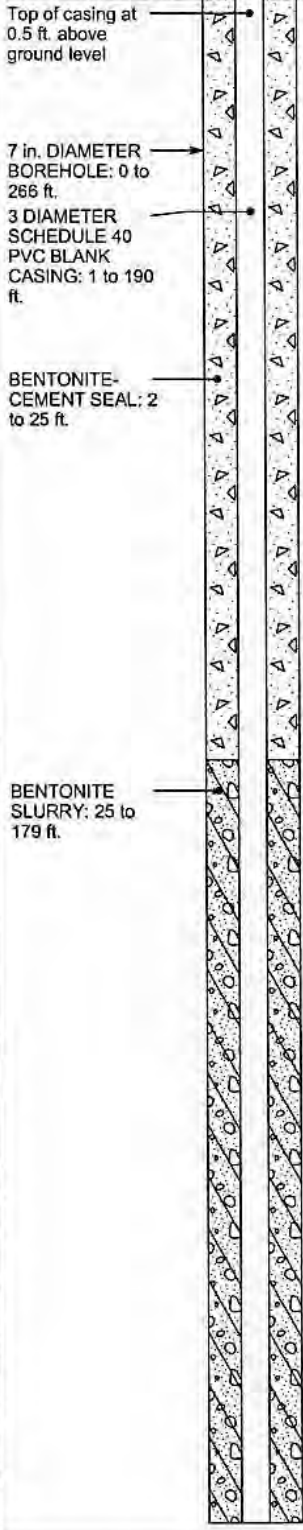
PLATE

**A77**  
 APPROVED *MOT/cw*  
 DATE 11/04  
 REVISED DATE

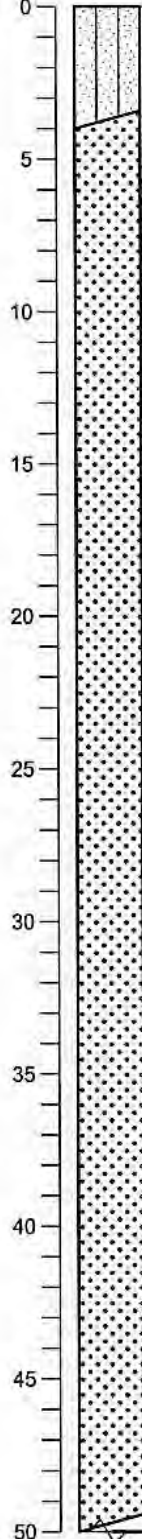
Top of PVC Casing  
Elev. 178.29 ft.

Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

**GROUND SURFACE**



Depth (ft.)  
Sample



VERY DARK GRAY SILTY SAND (SM) (10YR 3/1) Loose, dry, 80% fine to coarse sand, 20% silt

@ 2.5 ft.: Change to YELLOWISH BROWN (10YR 5/4)

LIGHT YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 6/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 10 ft.: Similar to above

@ 12 ft.: Similar to above

@ 15 ft.: Similar to above

@ 20 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

@ 25 ft.: Similar to above

@ 30 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and Log of Boring MW-BW-56-180**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A78**

DRAWN  
MBP

JOB NUMBER  
55596 001701

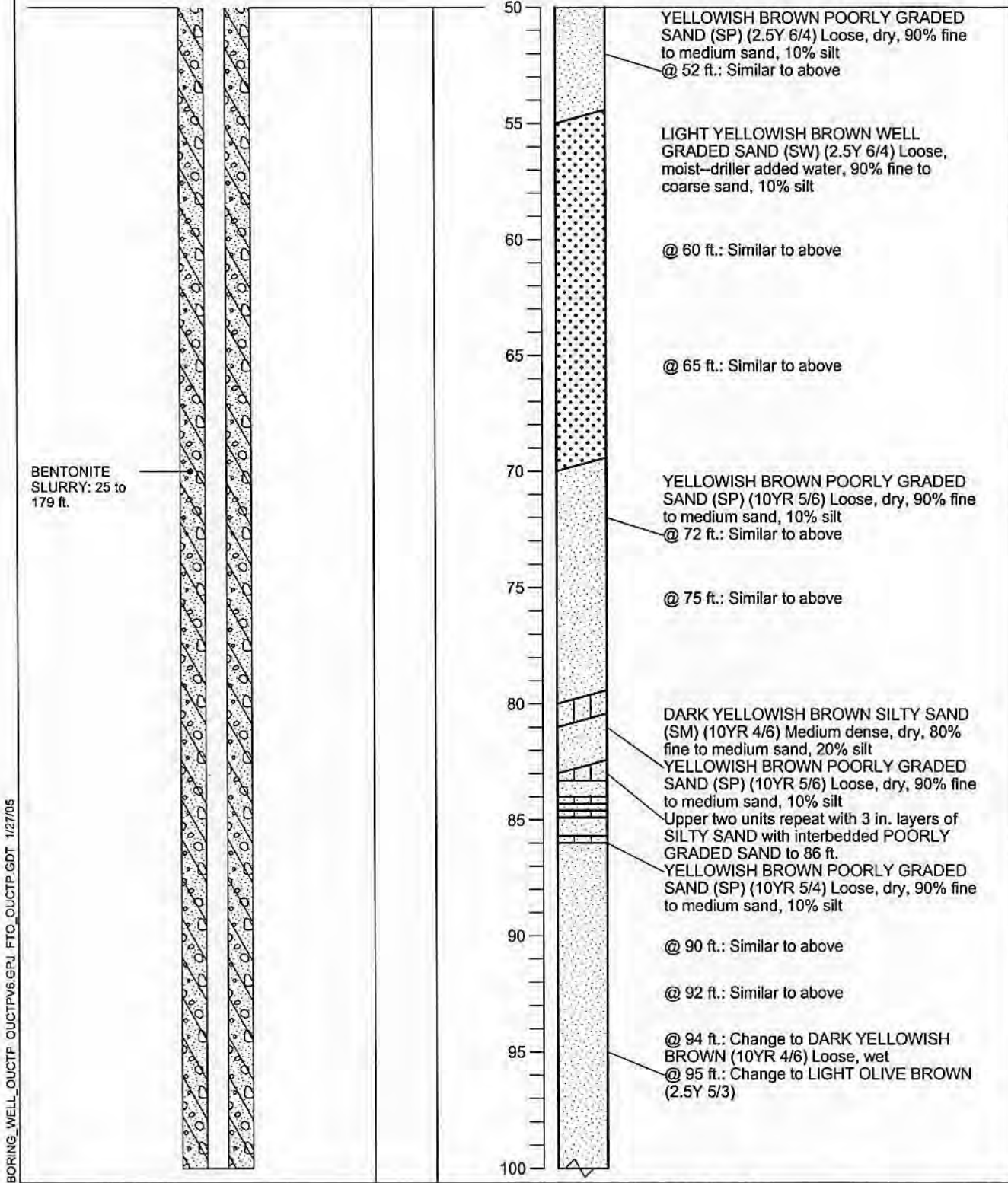
APPROVED  
*MDT/can*

DATE  
1/05

REVISED DATE

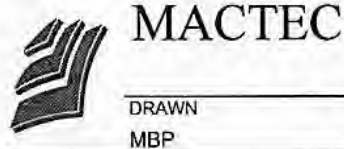
Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and Log of Boring MW-BW-56-180** PLATE  
 OUCTP



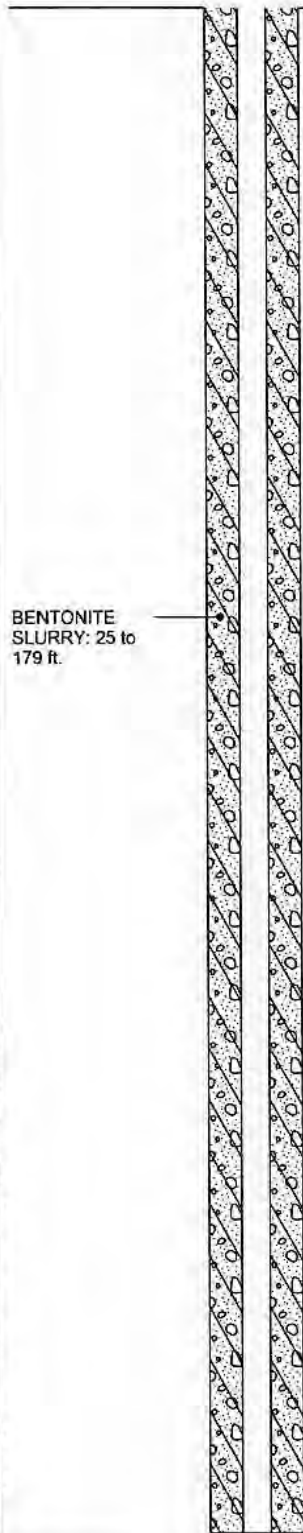
Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MBP/Car</i>	1/05	

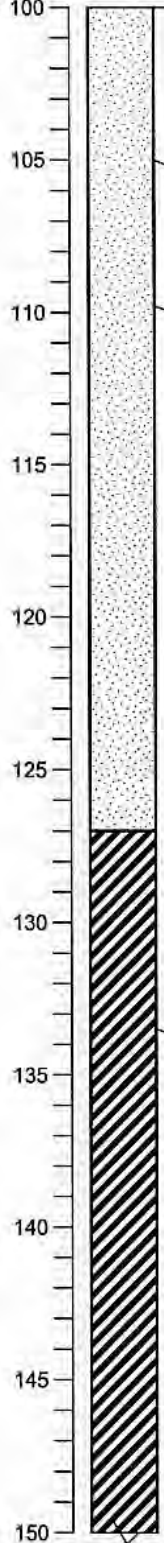
**A78**

Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

Depth (ft.)  
Sample



BENTONITE  
SLURRY: 25 to  
179 ft.



@ 100 ft.: Similar to above  
 @ 102 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 @ 104 ft.: Change to OLIVE BROWN 2.5Y 4/4  
 @ 105 ft.: Similar to above  
 @ 108 ft.: Change to interbedded with 1 to 2 in. units of DARK YELLOWISH BROWN (10YR 4/6) to 110 ft.  
 @ 110 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)  
 @ 112 ft.: Similar to above  
 @ 116 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 @ 121.5 ft.: Change to BROWN (10YR 4/3)  
 @ 124 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)  
 @ 125 ft.: Similar to above  
 OLIVE GRAY FAT CLAY (CH) (5Y 4/2) Stiff, dry, 80% clay, 20% silt  
 @ 130 ft.: Similar to above  
 @ 132 ft.: Change to trace carbonate deposits that react with HCl, possible shell deposits  
 @ 134 ft.: Change to DARK GREENISH GRAY (5GY 4/1)  
 @ 136 ft.: change to trace carbonate deposits  
 @ 140 ft.: Change to 10% carbonate deposits  
 @ 142 ft.: Change to carbonate deposits gone  
 @ 147 ft.: Change to BROWN (10YR 5/3), carbonate deposits to 5%, trace organics

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring MW-BW-56-180  
OUCTP

PLATE



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Fort Ord, California

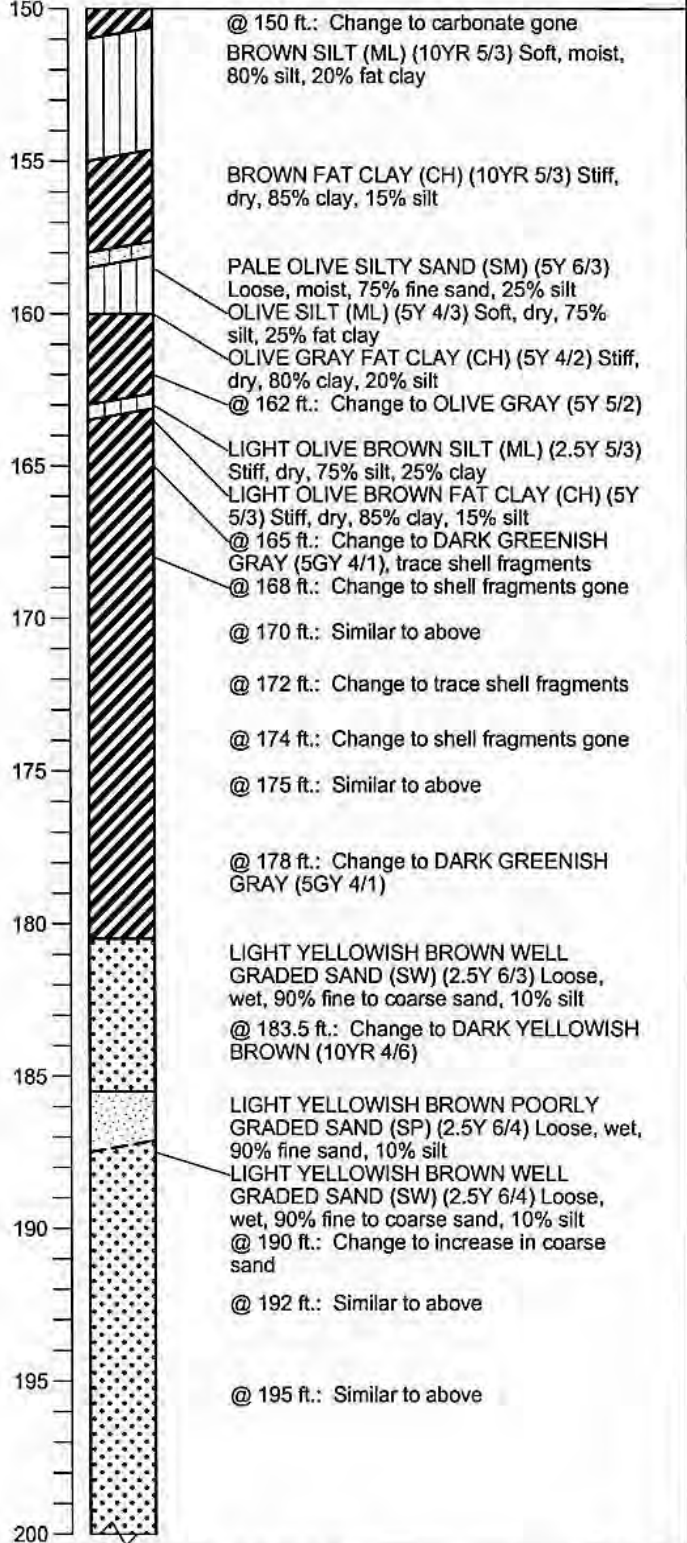
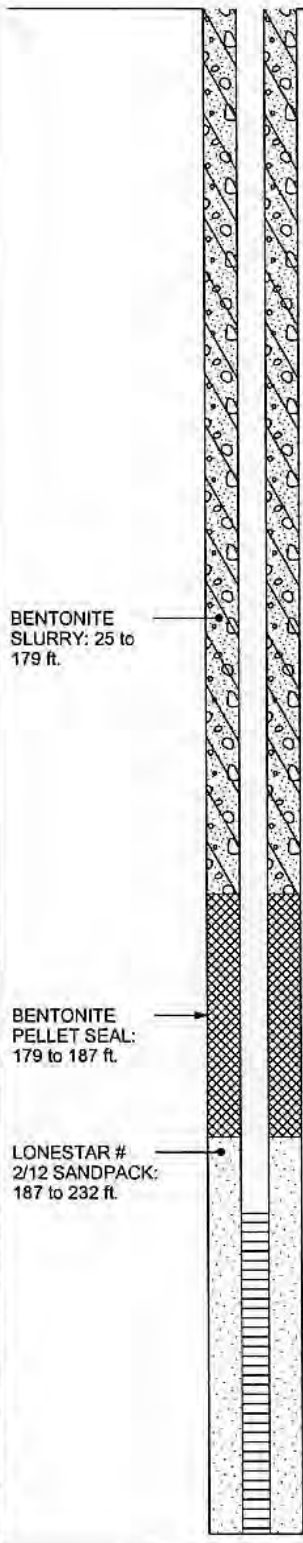
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DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MBP / CW</i>	1/05	



Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

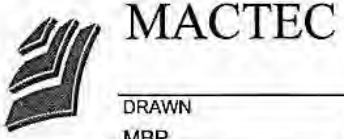
Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring MW-BW-56-180  
 OUCTP

PLATE



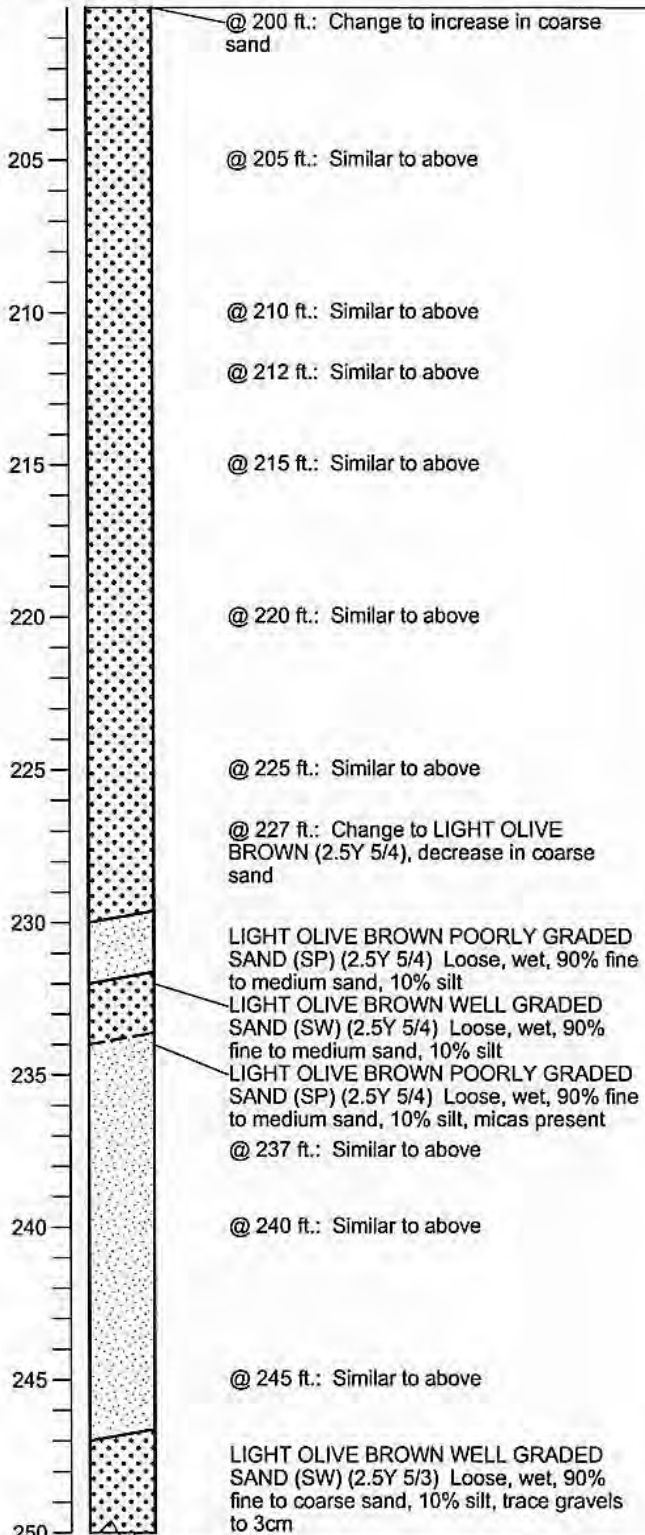
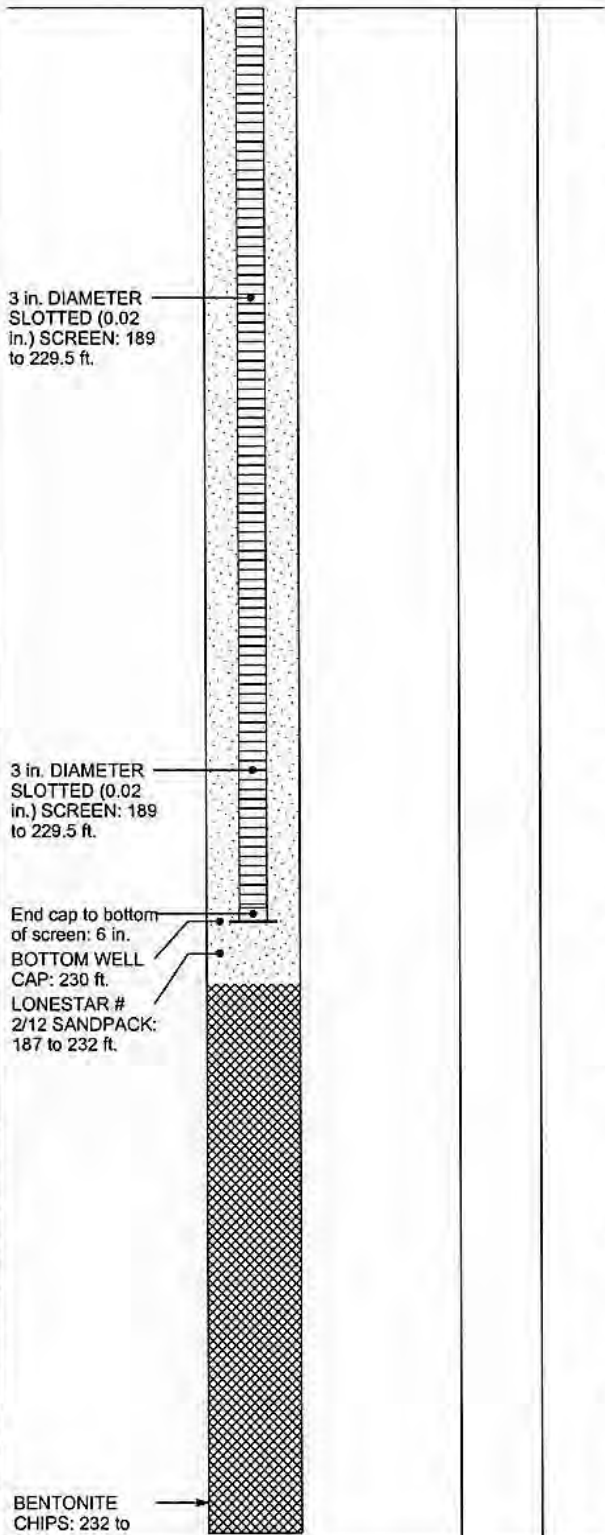
Fort Ord, California

**A78**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT / con</i>	DATE 1/05	REVISED DATE
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Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring MW-BW-56-180  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A78**

DRAWN  
MBP

JOB NUMBER  
55596 001701

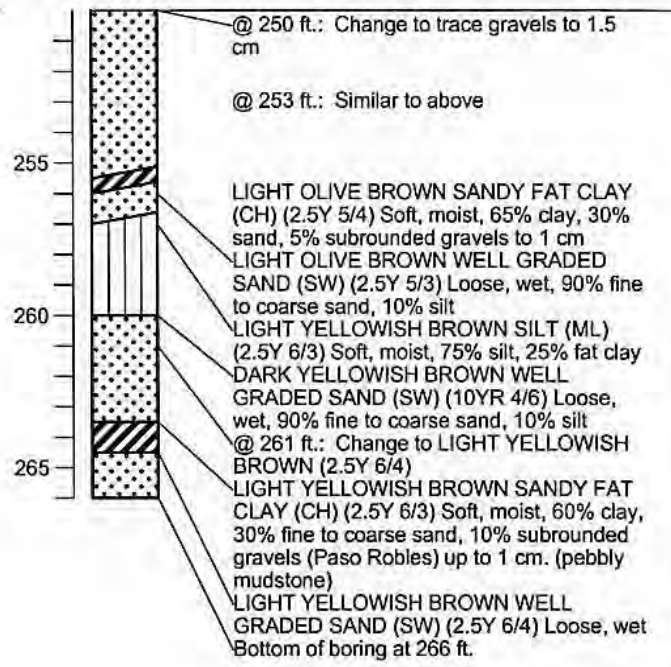
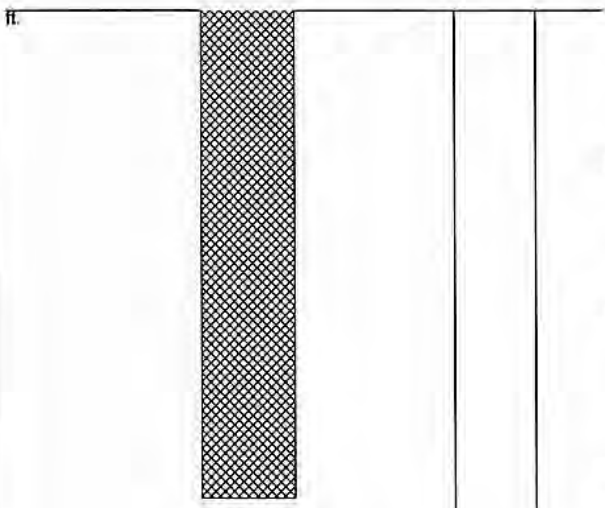
APPROVED  
*MDT/cmr*

DATE  
1/05

REVISED DATE

Completion Date 6/29/2003  
 Drilling Method Sonic  
 Logged by D. Browne  
 Surface Elevation 178.78 ft. Hole Dia. 7 in.  
 Northing 2137367.8 Easting 5749385.3

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-56-180**  
 OUCTP

PLATE

**A78**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / car</i>	1/05	

Completion Date 8/7/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 141.95 ft. Hole Dia. 12 in.  
 Northing 2140065.76 Easting 5749393.01

Top of PVC Casing  
 Elev. 142.74 ft.

GROUND SURFACE

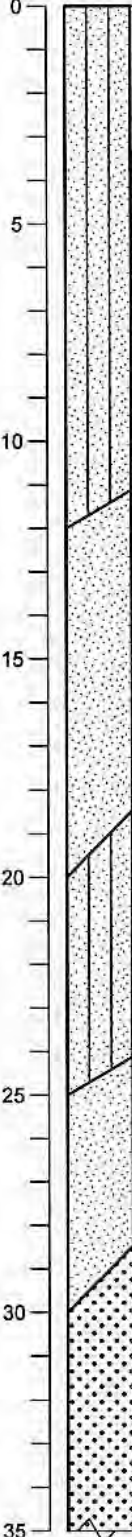
Top of casing at  
 1.5 ft. above  
 ground surface

12 DIA.  
 BOREHOLE: 0 to  
 100 ft.

5 DIA. SCHED. 40  
 PVC BLANK  
 CASING: 0 to 67  
 ft.

BENTONITE-CEMENT  
 SEAL: 0 to 67 ft.

Depth (ft.)  
 Sample



DARK GRAY-BROWN SILTY SAND (SM)  
 (2.5Y 4/2) Loose, dry 70% fine to coarse  
 sand, 30% silt

@ 3 ft.: Color change to DARK  
 YELLOW-BROWN (10YR 3/4)

Decrease in silt to 20%

YELLOW-BROWN POORLY-GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 95%  
 fine to medium-grained sand, 5% silt

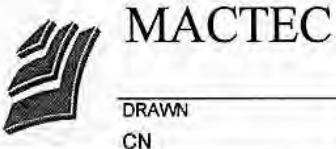
@ 15 ft.: Increase in coarse-grained sand

DARK GRAY-BROWN WELL-GRADED  
 SAND WITH SILT (SW-SM) (2.5Y 4/2)  
 Loose, dry, 90% fine to coarse sand, 10%  
 silt

DARK YELLOW-BROWN  
 POORLY-GRADED SAND (SP) (10YR 4/6)  
 Loose, dry to moist, 95% fine-grained sand

DARK YELLOW-BROWN WELL-GRADED  
 SAND (SW) (10YR 4/6) Loose, moist to  
 dry, 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
 Log of Boring MW-BW-56-A

PLATE

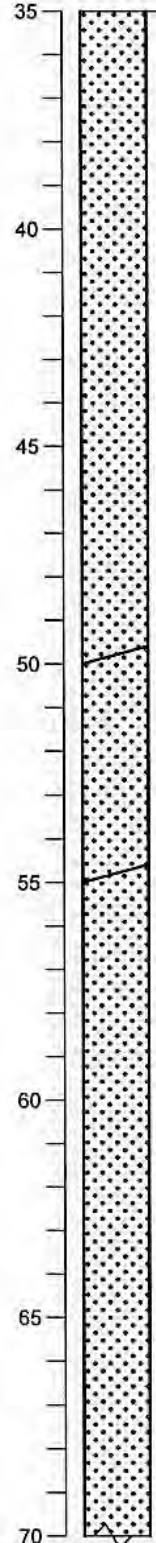
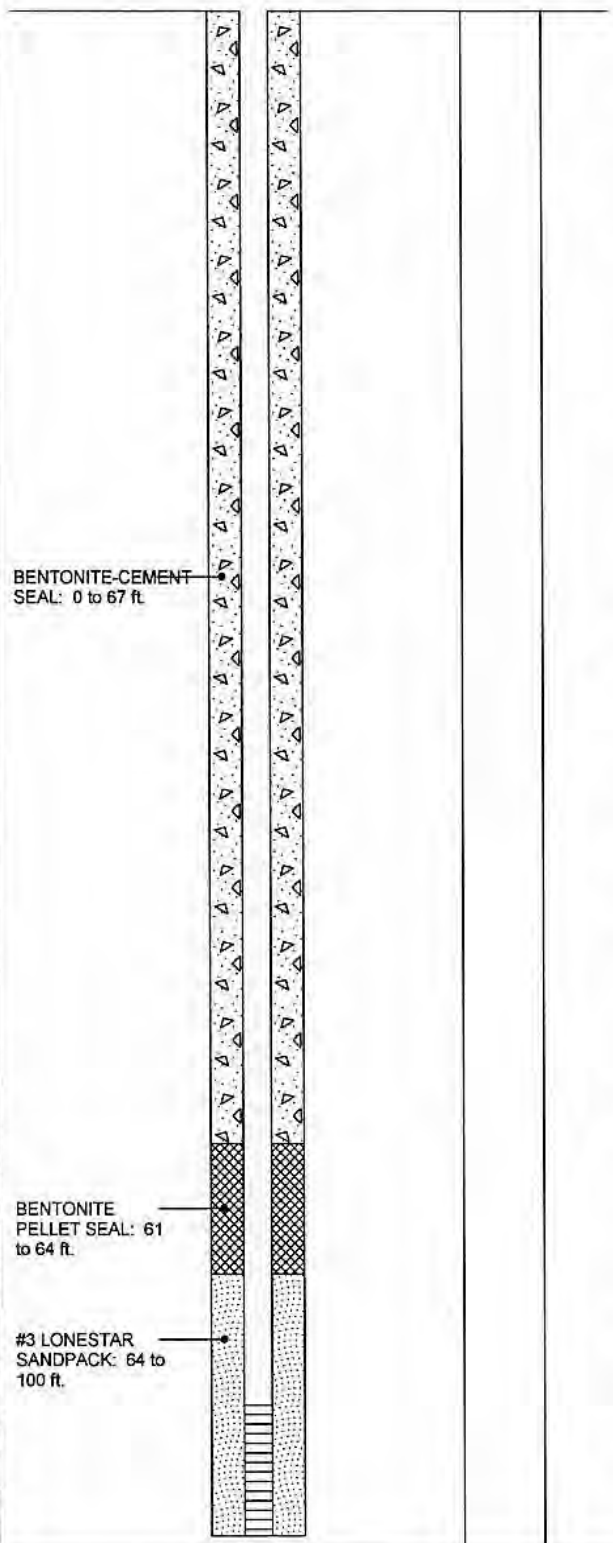
OUCTP  
 Fort Ord, California

**A79**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 11/04	REVISED DATE
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Completion Date 8/7/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 141.95 ft. Hole Dia. 12 in.  
 Northing 2140065.76 Easting 5749393.01

Depth (ft.)  
 Sample



LIGHT OLIVE-BROWN WELL-GRADED SAND (SW) (2.5Y 5/4) Loose, moist, fine- to coarse-grained

YELLOW-BROWN WELL-GRADED SAND (SW) (10YR 5/4) Loose, moist, 95% fine to coarse sand, 5% silt

BORING - WELL - OUCTP V6 GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-56-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A79**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MOT/can*

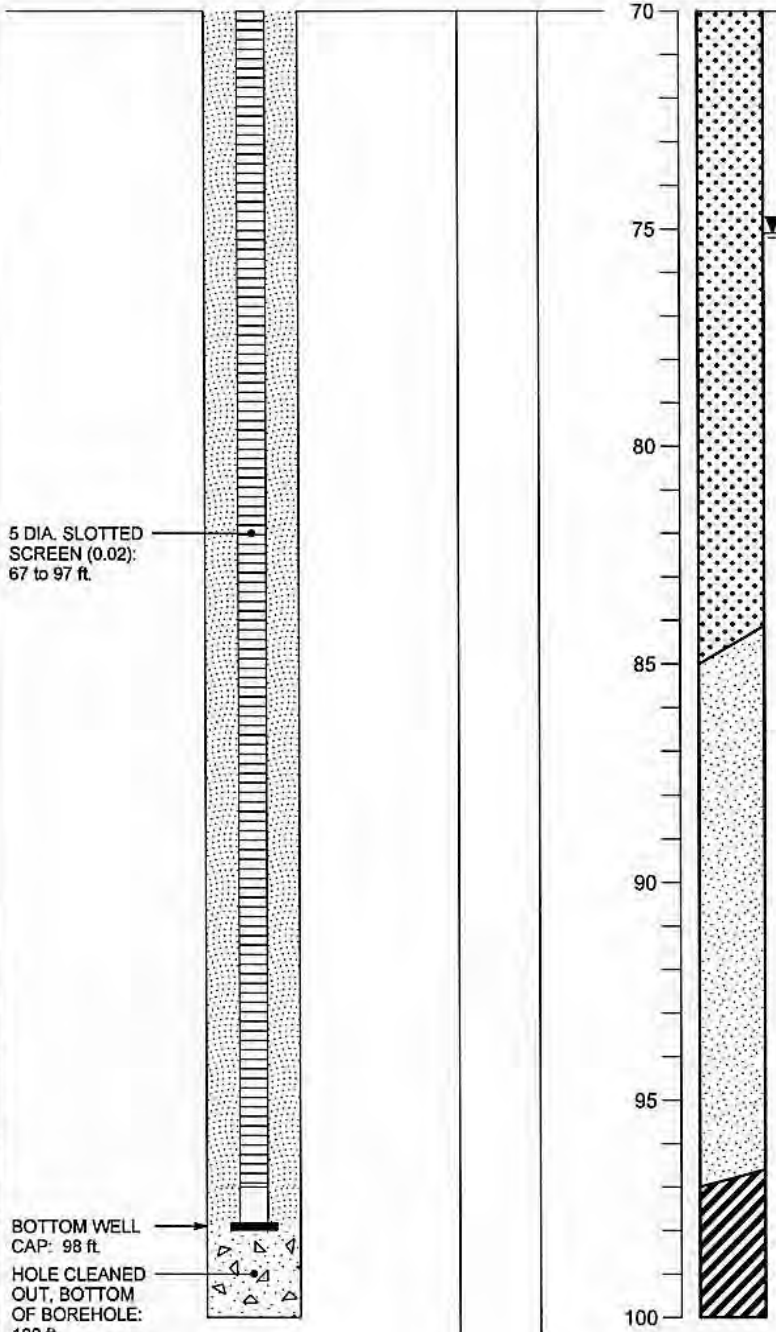
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 11/04

REVISED DATE



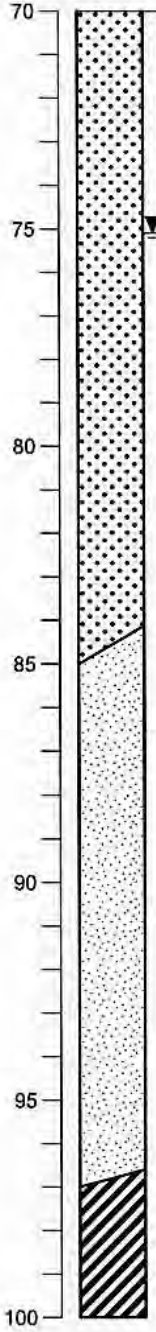
Completion Date 8/7/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 141.95 ft. Hole Dia. 12 in.  
 Northing 2140065.76 Easting 5749393.01

Depth (ft.)  
 Sample



5 DIA. SLOTTED  
 SCREEN (0.02):  
 67 to 97 ft.

BOTTOM WELL  
 CAP: 98 ft  
 HOLE CLEANED  
 OUT, BOTTOM  
 OF BOREHOLE:  
 100 ft.



@ 75 ft.: Groundwater encountered

YELLOW-BROWN POORLY-GRADED  
 SAND (SP) (10YR 5/4) Loose, wet, fine- to  
 medium-grained

GRAY FAT CLAY (CH) (5Y 5/1) Stiff, moist,  
 95% clay, 5% fine sand

Bottom of boring at 100 ft.

BORING\_WELL\_OUCTP OUCTPV&GPJ\_FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-56-A**  
 OUCTP

PLATE

**A79**

Fort Ord, California

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

Top of PVC Casing  
Elev. 146.11 ft.

Completion Date 8/8/2002  
Drilling Method Hollow Stem Auger  
Logged by DSB  
Surface Elevation 144.28 ft. Hole Dia. 12 in.  
Northing 2140300.39 Easting 5749032.76

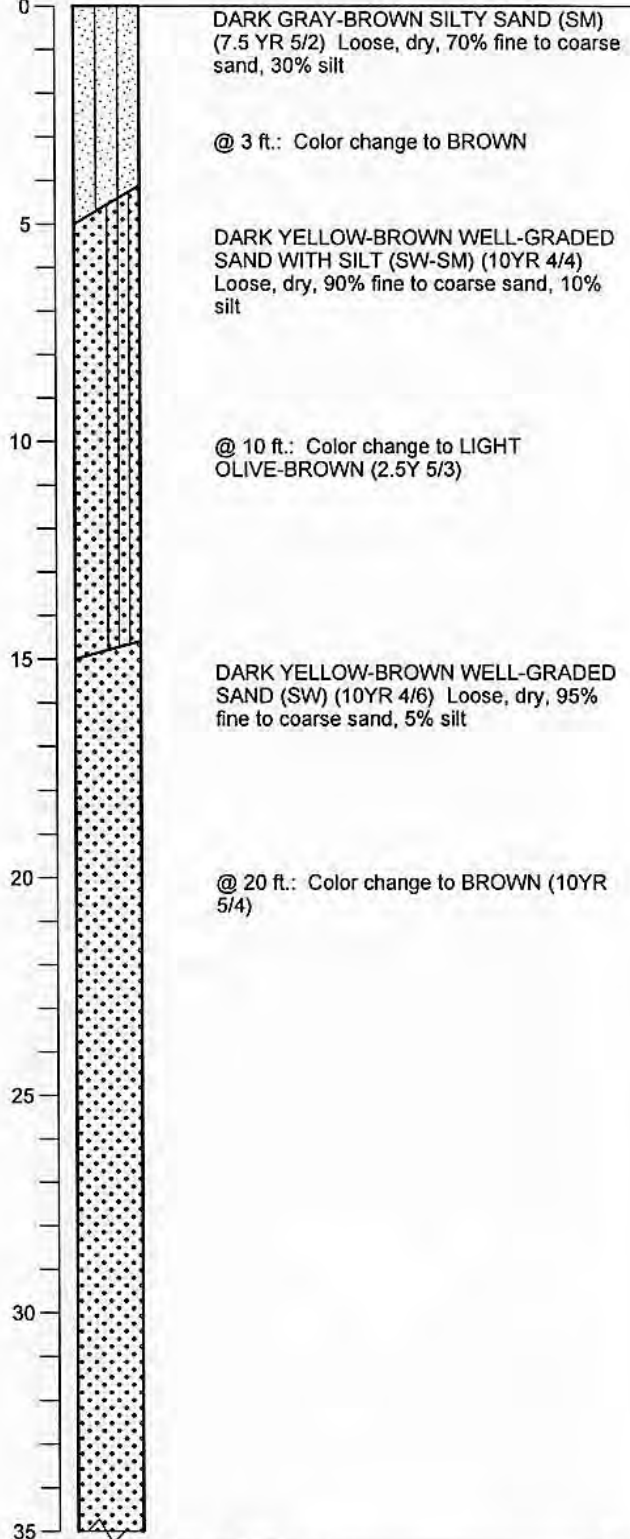
GROUND SURFACE  
Top of casing at  
     ft. above  
ground surface

12 DIA.  
BOREHOLE: 0 to  
105 ft.

5 DIA. SCHED. 40  
PVC BLANK  
CASING: 0 to 74  
ft.

BENTONITE-CEMENT  
SEAL: 0 to 65 ft.

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-57-A  
OUCTP

PLATE



MACTEC

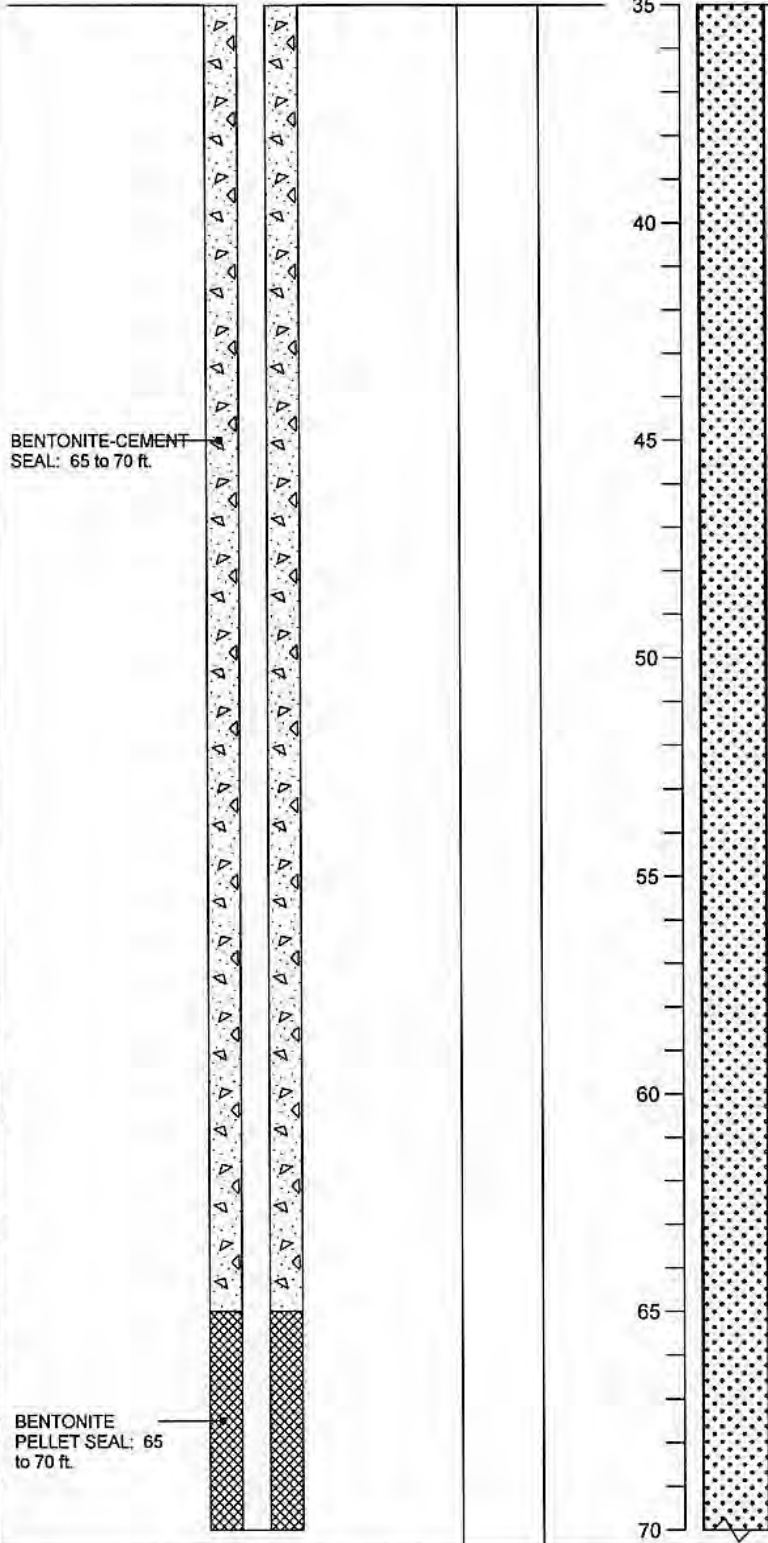
Fort Ord, California

**A80**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	MDT / <i>cm</i>	11/04	

Completion Date 8/8/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 144.28 ft. Hole Dia. 12 in.  
 Northing 2140300.39 Easting 5749032.76

Depth (ft.)  
 Sample



Coarse-grained sand increases slightly

@ 50 ft.: Color change to DARK YELLOW-BROWN (10YR 4/6)

@ 55 ft.: Color change to YELLOW-BROWN (10YR 5/4)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-57-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A80**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

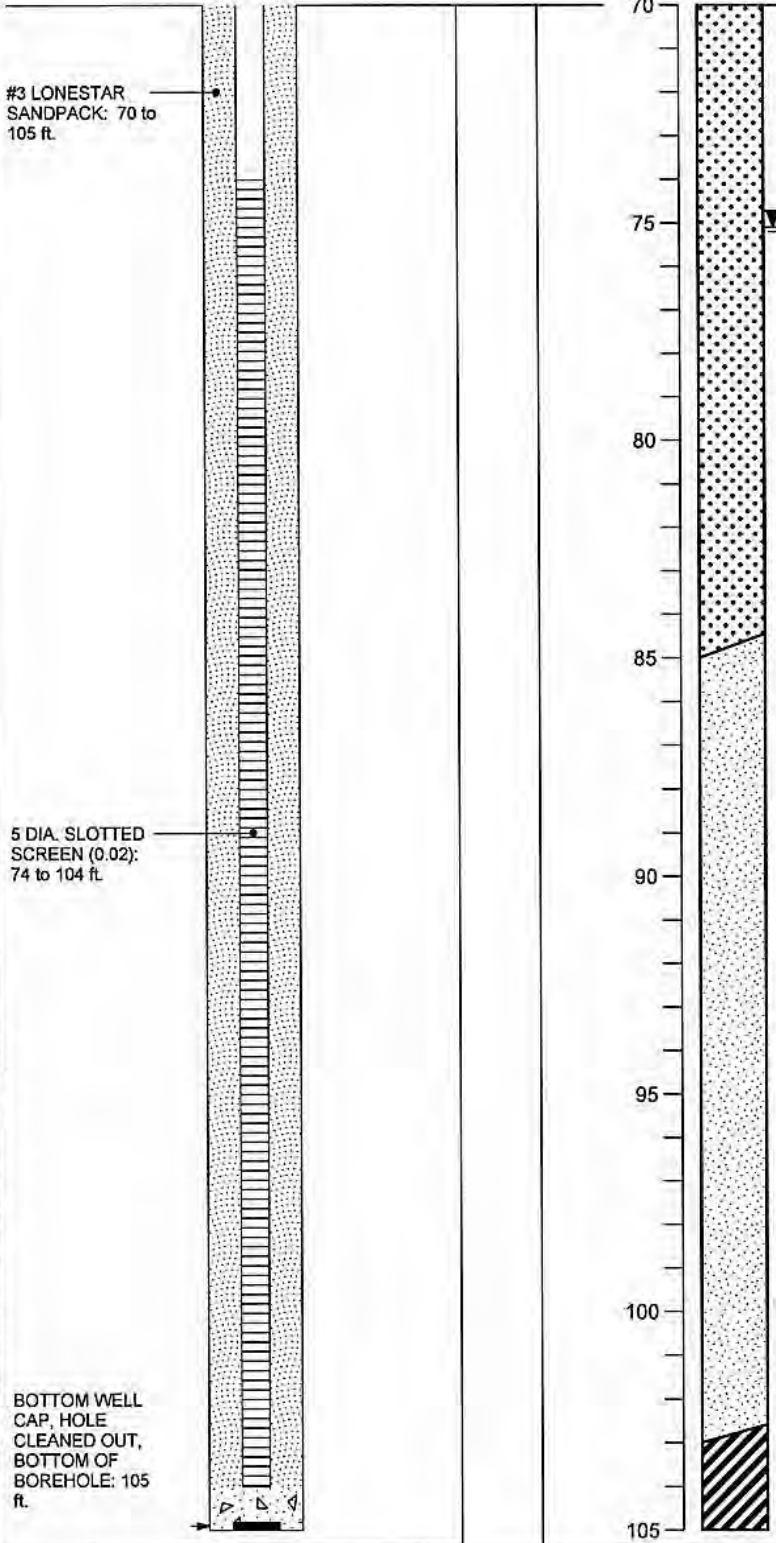
APPROVED  
*MDT/cwr*

DATE  
 11/04

REVISED DATE

Completion Date 8/8/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 144.28 ft. Hole Dia. 12 in.  
 Northing 2140300.39 Easting 5749032.76

Depth (ft.)  
 Sample



#3 LONESTAR SANDPACK: 70 to 105 ft.

5 DIA. SLOTTED SCREEN (0.02): 74 to 104 ft.

BOTTOM WELL CAP, HOLE CLEANED OUT, BOTTOM OF BOREHOLE: 105 ft.

@ 75 ft.: Groundwater encountered, 100% fine to coarse sand

YELLOW-BROWN POORLY-GRADED SAND (SP) (10YR 5/4) Loose, wet, 95% fine to medium sand, 5% silt

GRAY-BROWN FAT CLAY (CH) (2.5Y 5/2) Medium stiff, moist, 95% clay, 5% silt  
 Bottom of boring at 105 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-57-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A80**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*mat / cm*

DATE  
 11/04

REVISED DATE

Completion Date 8/9/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 132.90 ft. Hole Dia. 12 in.  
 Northing 2140958.16 Easting 5749854.85

Top of PVC Casing  
 Elev. 132.48 ft.  
 CHRISTY  
 BOX

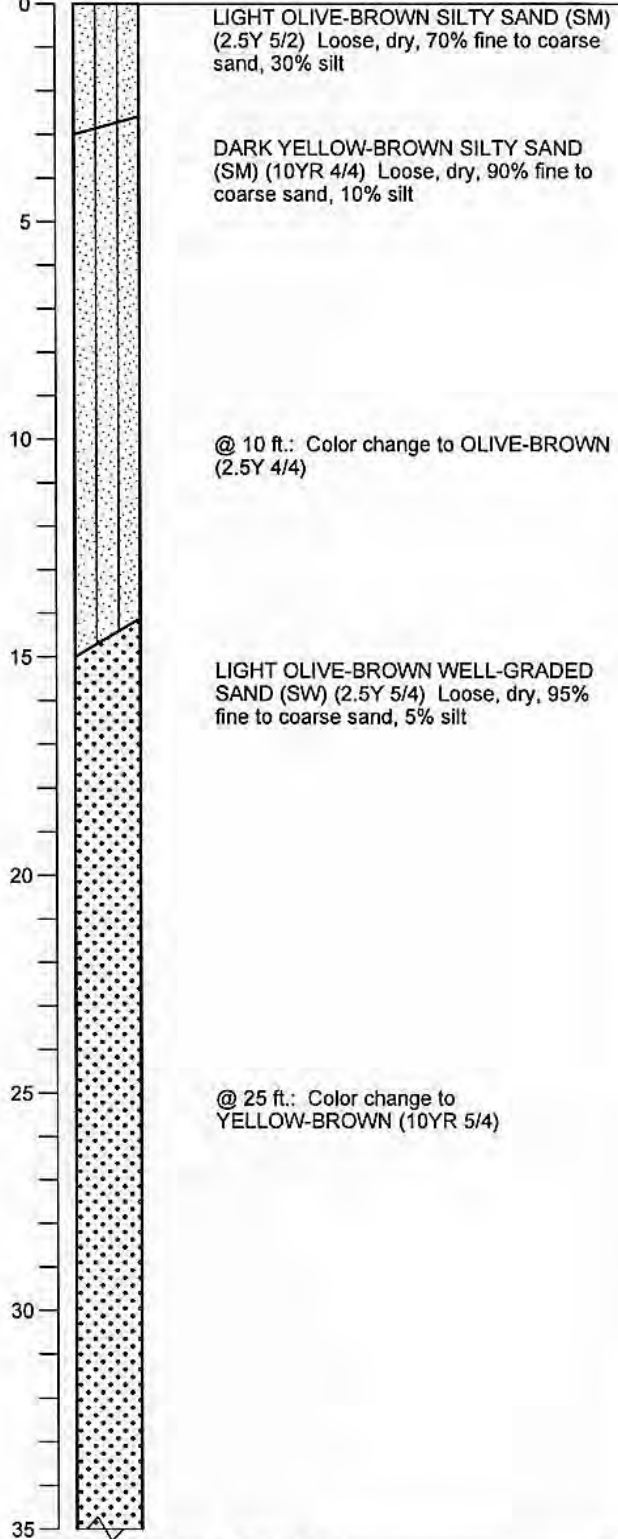
GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground surface

12 DIA.  
 BOREHOLE: 0 to  
 90 ft.

5 DIA. SCHED. 40  
 PVC BLANK  
 CASING: 0 to 59  
 ft.

BENTONITE-CEMENT  
 SEAL: 0 to 51 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-58-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A81**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MDT/cw*

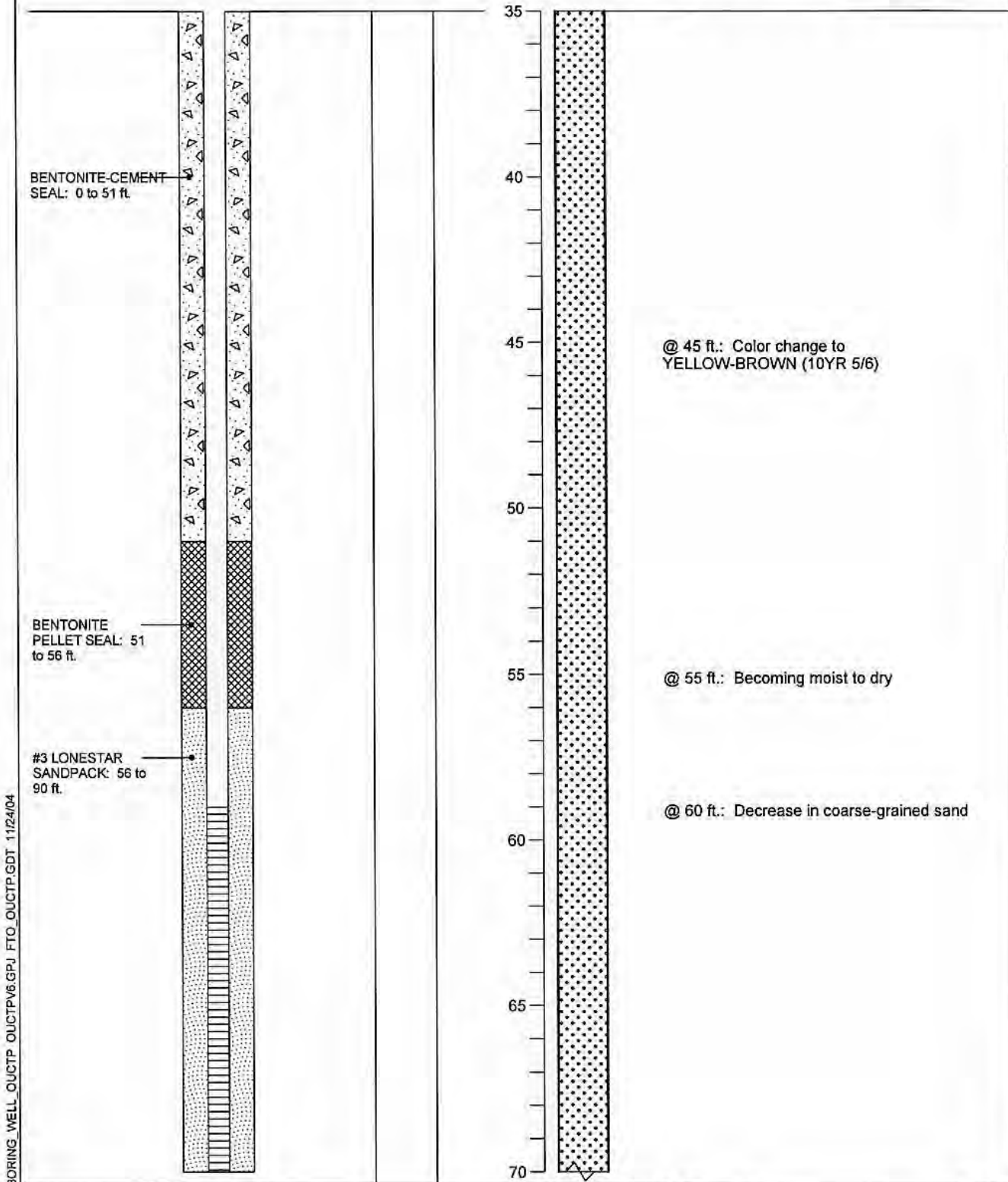
DATE  
 11/04

REVISED DATE



Completion Date 8/9/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 132.90 ft. Hole Dia. 12 in.  
 Northing 2140958.16 Easting 5749854.85

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-58-A  
 OUCTP

PLATE



**MACTEC**

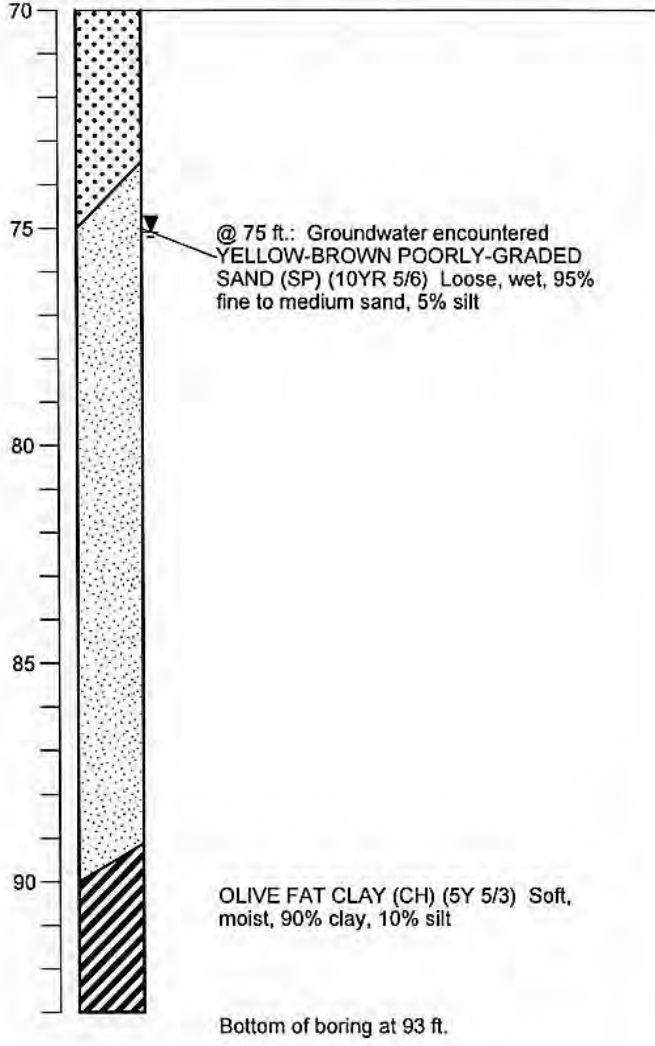
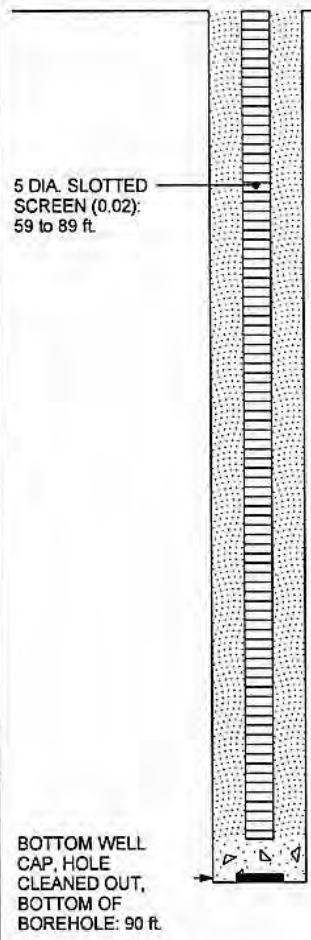
Fort Ord, California

**A81**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT / CN</i>	11/04	

Completion Date 8/9/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 132.90 ft. Hole Dia. 12 in.  
 Northing 2140958.16 Easting 5749854.85

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-58-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A81**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MST / cm*

DATE  
 11/04

REVISED DATE

Completion Date 8/10/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 79.83 ft. Hole Dia. 12 in.  
 Northing 2143521.79 Easting 5745504.1

Top of PVC Casing  
 Elev. 79.50 ft.  
 CHRISTY  
 BOX

GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground surface

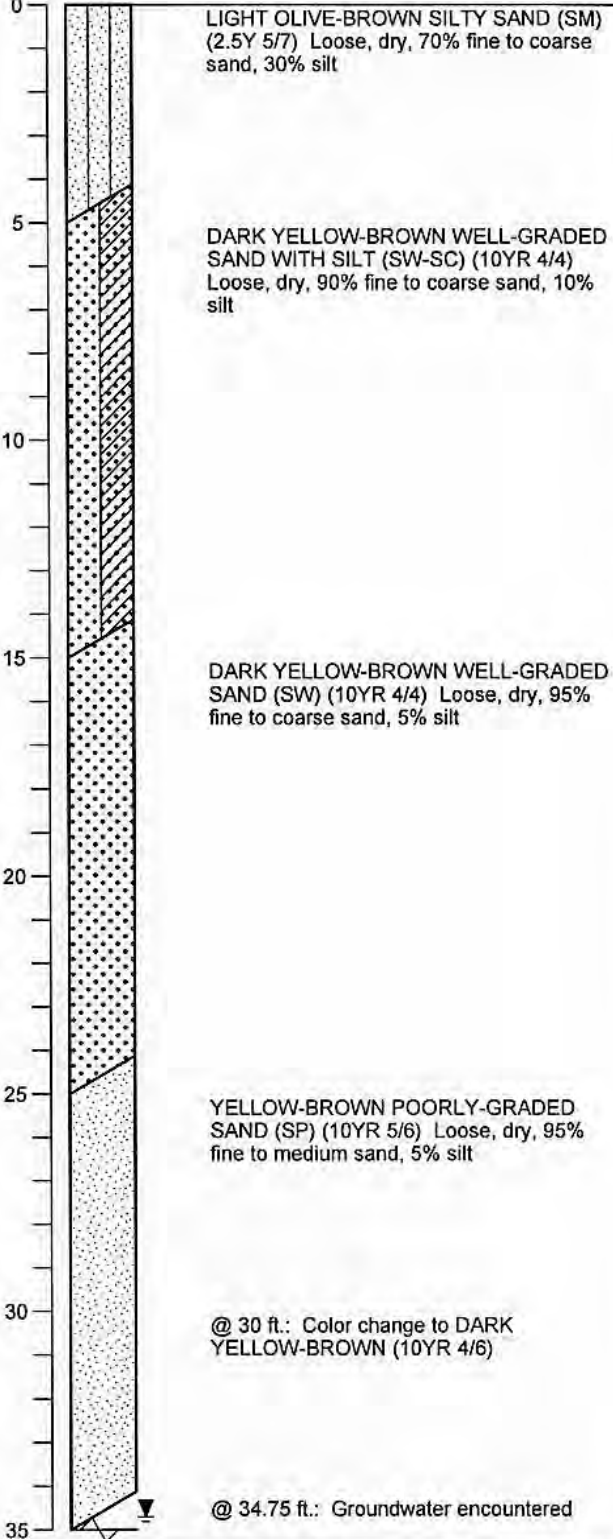
12 DIA.  
 BOREHOLE: 0 to  
 69 ft.

5 DIA. SCHED. 40  
 PVC BLANK  
 CASING: 0 to 38  
 ft.

BENTONITE-CEMENT  
 SEAL: 0 to 30 ft.

BENTONITE  
 PELLET SEAL: 30  
 to 34 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-59-A  
 OUCTP

PLATE



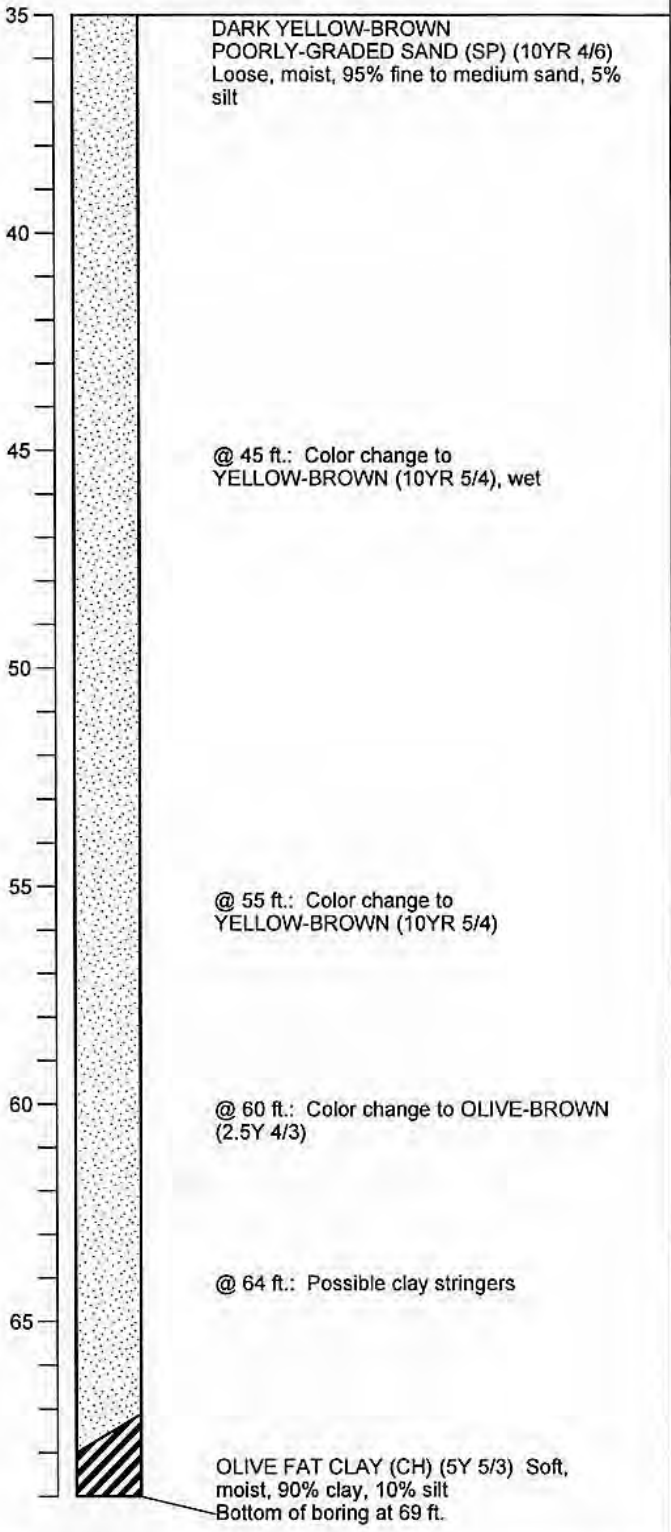
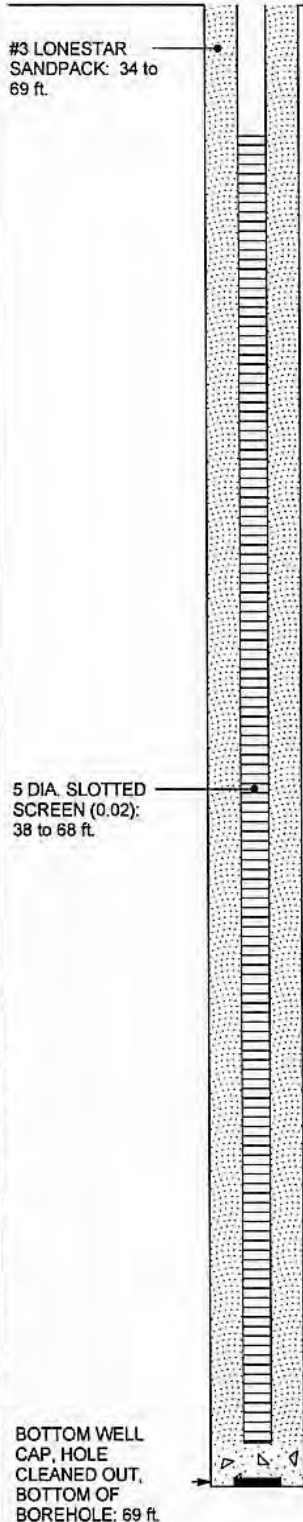
Fort Ord, California

**A82**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT/Car</i>	11/04	

Completion Date 8/10/2002  
 Drilling Method Hollow Stem Auger  
 Logged by DSB  
 Surface Elevation 79.83 ft. Hole Dia. 12 in.  
 Northing 2143521.79 Easting 5745504.1

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring MW-BW-59-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A82**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MDT / cm</i>	DATE 11/04	REVISED DATE
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Completion Date 8/8/2002  
 Drilling Method Hollow Stem Auger  
 Logged by SK  
 Surface Elevation 150.55 ft. Hole Dia. 12 in.  
 Northing 2140860.82 Easting 5748120.5

Top of PVC Casing  
 Elev. 151.89 ft.  
 CHRISTY  
 BOX

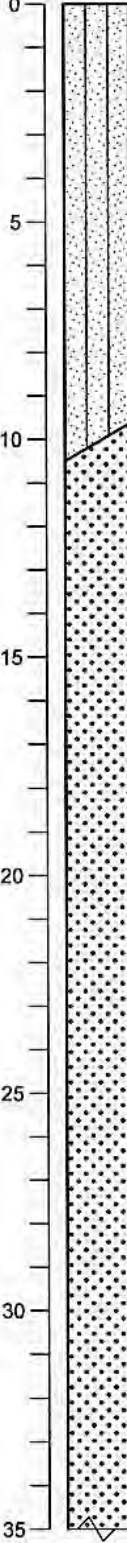
GROUND SURFACE  
 Top of casing at  
 0.5 ft. below  
 ground surface

12 DIA.  
 BOREHOLE: 0 to  
 64 ft.

5 DIA. SCHED. 40  
 PVC BLANK  
 CASING: 0 to 64  
 ft.

BENTONITE-CEMENT  
 SEAL: 0 to 57 ft.

Depth (ft.)  
 Sample



DARK GRAY-BROWN SILTY SAND (SM)  
 (2.5Y 4/2) Loose, dry, 70% fine to coarse  
 sand, 30% silt

@ 5 ft.: Change to RED-BROWN (2.5YR  
 4/3), 90% fine to coarse sand, 10% silt

BROWN WELL-GRADED SAND (SW) (7.5  
 YR 4/3) Loose, dry, 95% fine to coarse  
 sand, 5% silt

@ 15 ft.: Color change to LIGHT  
 YELLOW-BROWN (2.5Y 6/4)

@ 20 ft.: Color change to OLIVE-BROWN  
 (2.5Y 4/4)

@ 25 ft.: Color change to LIGHT  
 YELLOW-OLIVE (2.5Y 6/4)

@ 30 ft.: Color change to OLIVE-BROWN  
 (2.5Y 4/4)

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-60-A  
 OUCTP

PLATE



Fort Ord, California

**A83**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MJT / CW*

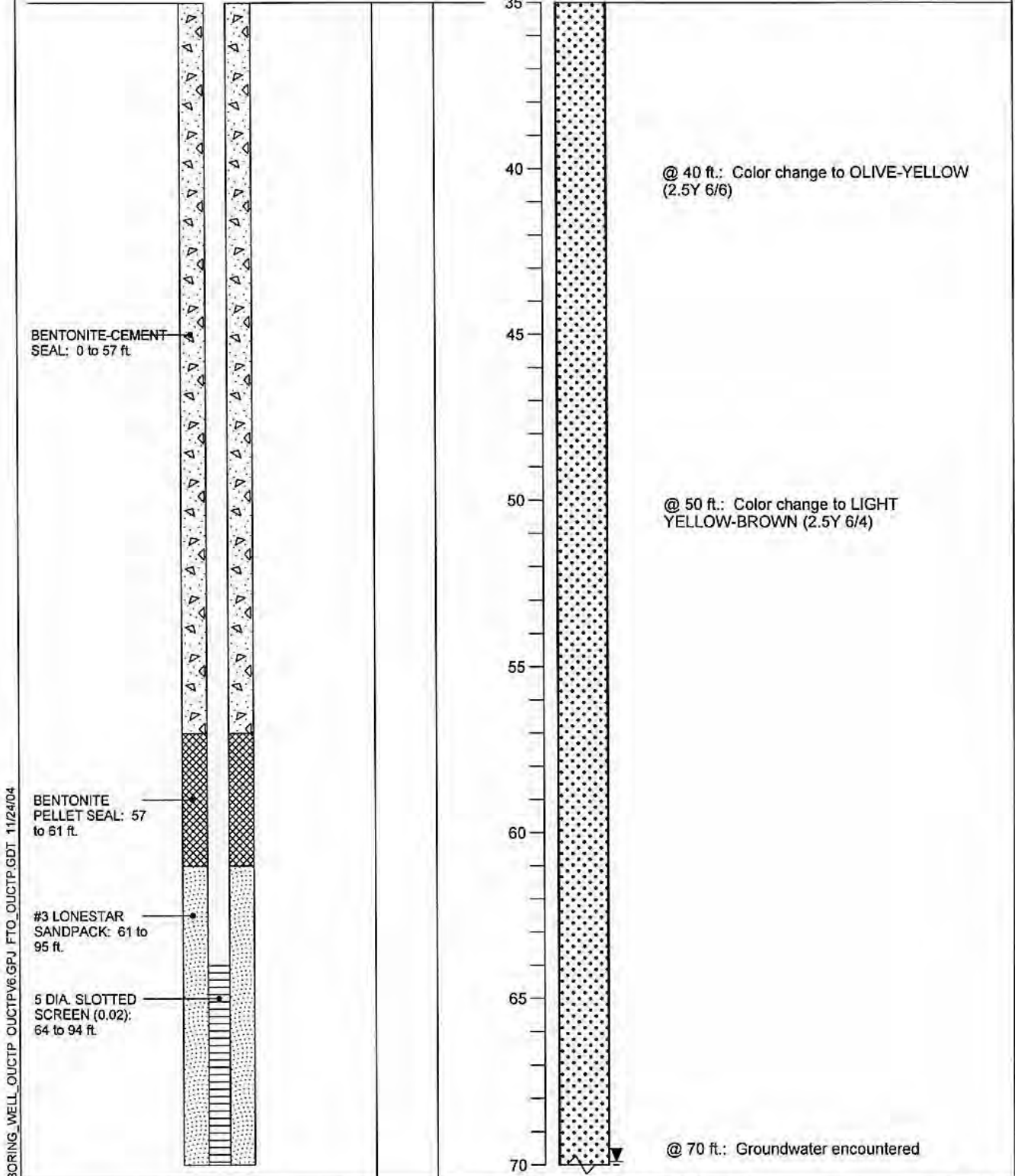
DATE  
 11/04

REVISED DATE



Completion Date 8/8/2002  
 Drilling Method Hollow Stem Auger  
 Logged by SK  
 Surface Elevation 150.55 ft. Hole Dia. 12 in.  
 Northing 2140860.82 Easting 5748120.5

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-60-A** PLATE  
 OUCTP

Fort Ord, California

**A83**

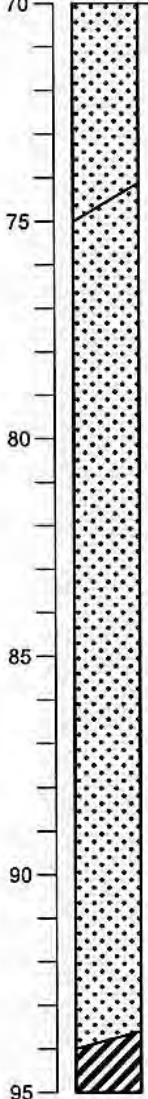
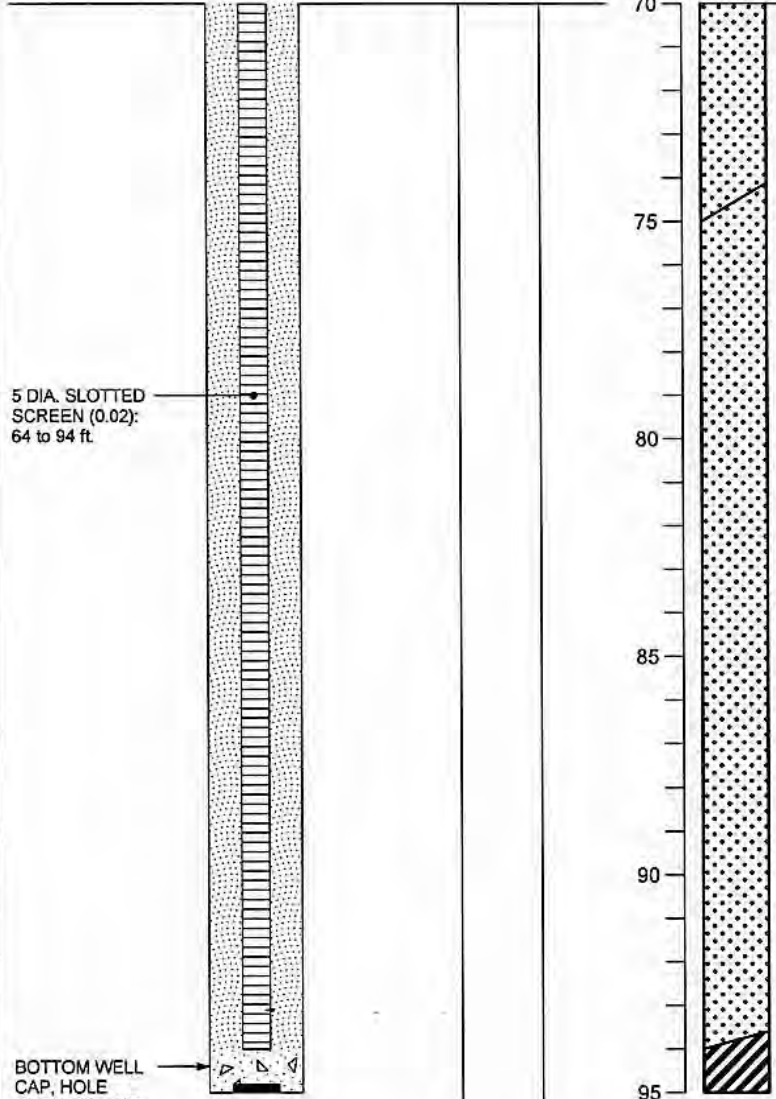


**MACTEC**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT/cwr</i>	11/04	

Completion Date 8/8/2002  
 Drilling Method Hollow Stem Auger  
 Logged by SK  
 Surface Elevation 150.55 ft. Hole Dia. 12 in.  
 Northing 2140860.82 Easting 5748120.5

Depth (ft.)  
 Sample



LIGHT YELLOW-BROWN WELL-GRADED SAND (SW) (2.5Y 6/4) Loose, wet, 95% sand, 5% silt

DARK GRAY-BROWN FAT CLAY (CH) (2.5Y 4/2) Soft, moist, 100% clay, <5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

BOTTOM WELL CAP, HOLE CLEANED OUT, BOTTOM OF BOREHOLE: 95 ft.



**MACTEC**

Well Construction Details and Log of Boring MW-BW-60-A  
 OUCTP

PLATE

**A83**

Fort Ord, California

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

DATE  
 11/04

REVISED DATE

Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 180.96 ft. Hole Dia. 10 in.  
 Northing 2137597.4 Easting 5747971.5

Top of PVC Casing  
 Elev. 180.93 ft.  
 CHRISTY  
 BOX

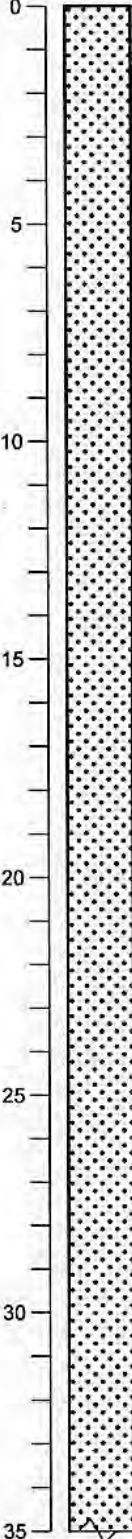
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0.5 to  
 130 ft.

10 in. DIAMETER  
 BOREHOLE: 0 to  
 135 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 50 ft.

Depth (ft.)  
 Sample



YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/2) Loose, dry, 85%  
 fine to medium sand, 10% silt, 5% organics

@ 3.5 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6) Loose, moist, 95% fine to medium  
 sand, 5% silt

@ 6 ft.: Similar to above

@ 10 ft.: Change to LIGHT YELLOWISH  
 BROWN (2.5Y 6/4) 100% fine to medium  
 sand

@ 15 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/4)

@ 20 ft.: Similar to above

@ 25 ft.: Change to LIGHT YELLOWISH  
 BROWN (2.5Y 6/4) Medium dense, moist,  
 95% fine to medium sand, 5% silt

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
 Log of Boring MW-BW-61-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A84**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

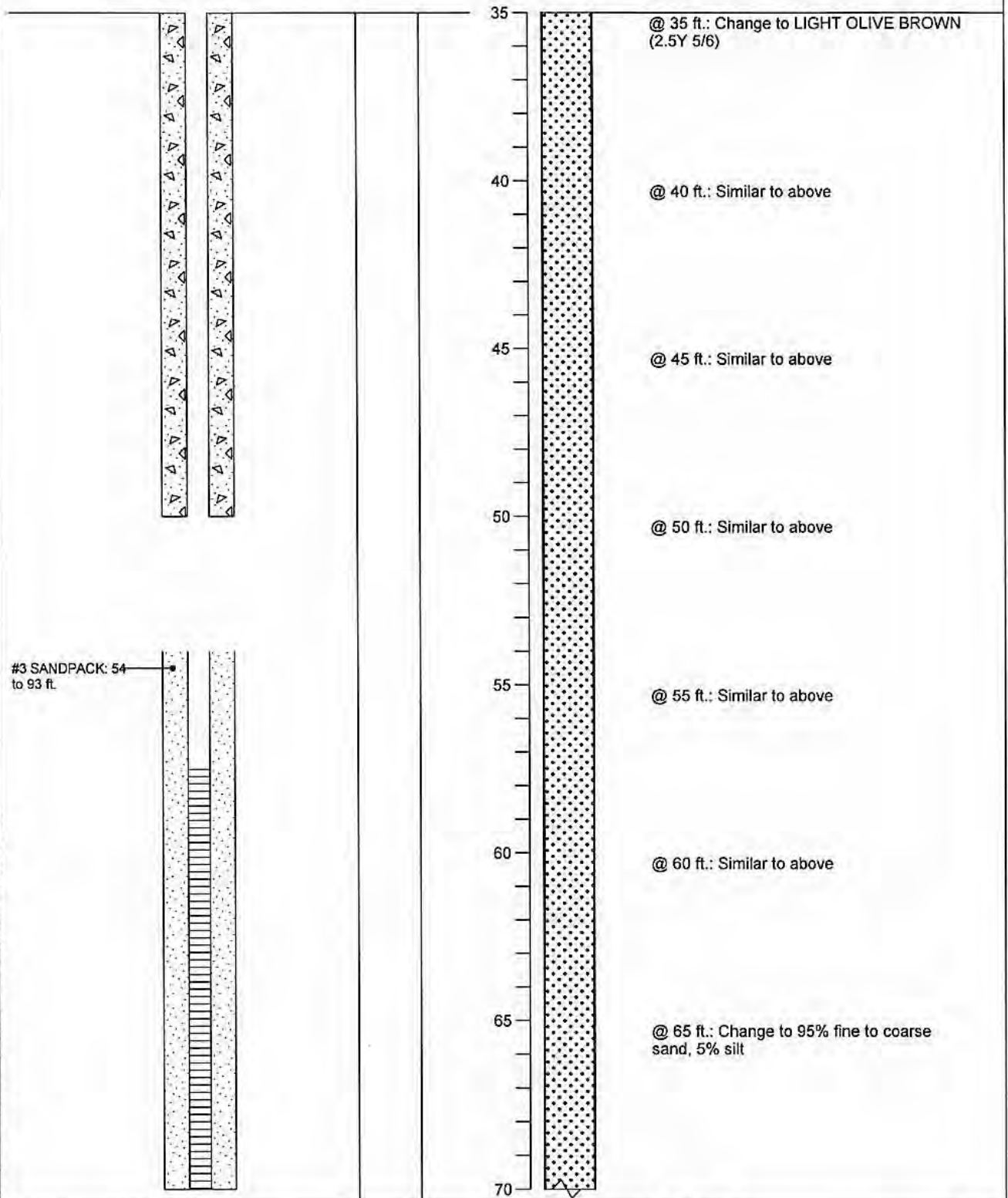
APPROVED  
*MOT / car*

DATE  
 1/05

REVISED DATE

Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 180.96 ft. Hole Dia. 10 in.  
 Northing 2137597.4 Easting 5747971.5

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

Well Construction Details and Log of Boring MW-BW-61-A  
 OUCTP

PLATE



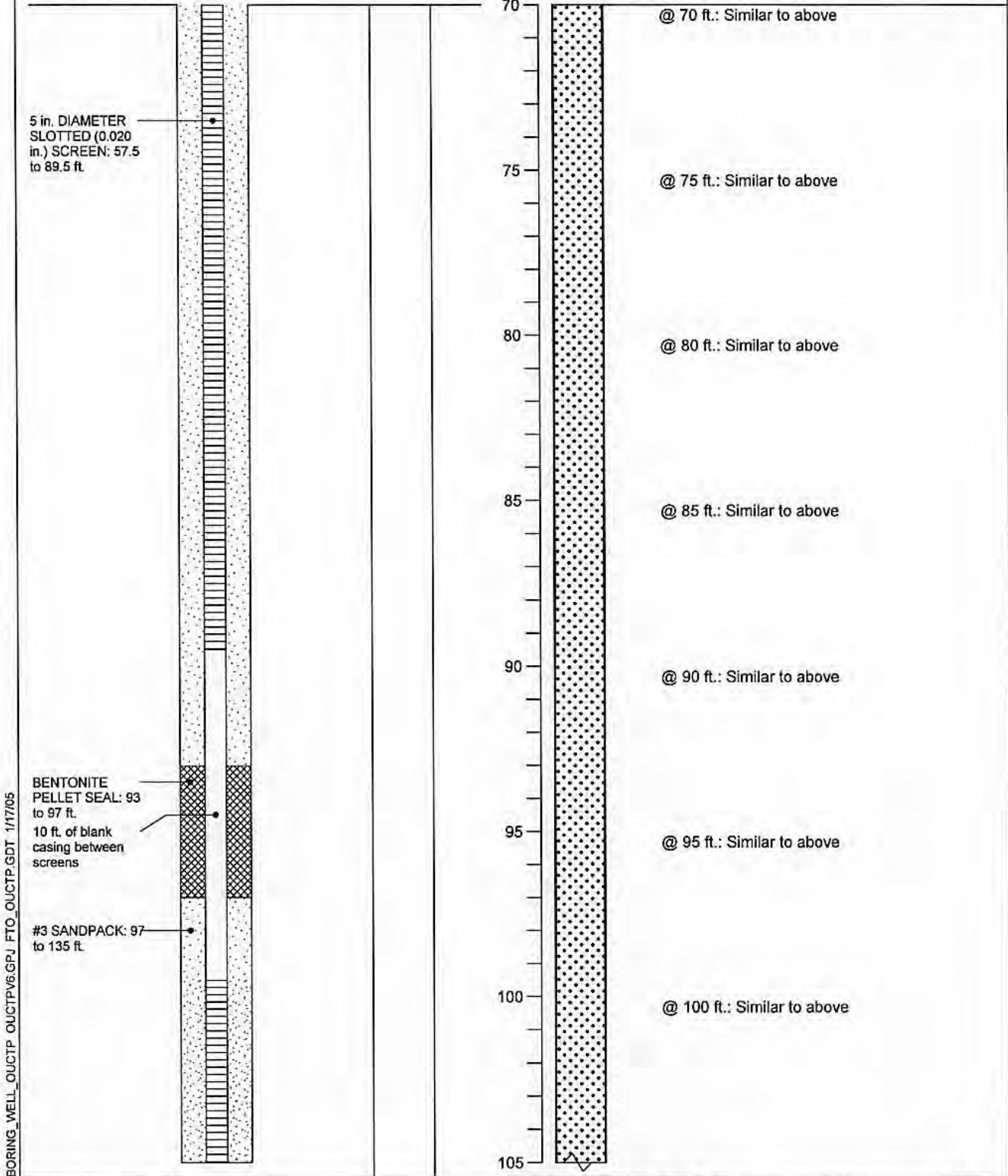
MACTEC

Fort Ord, California

**A84**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/Cur</i>	1/05	

Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 180.96 ft. Hole Dia. 10 in.  
 Northing 2137597.4 Easting 5747971.5



Well Construction Details and Log of Boring MW-BW-61-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

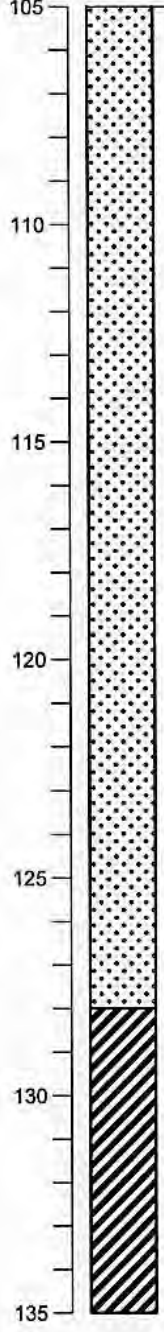
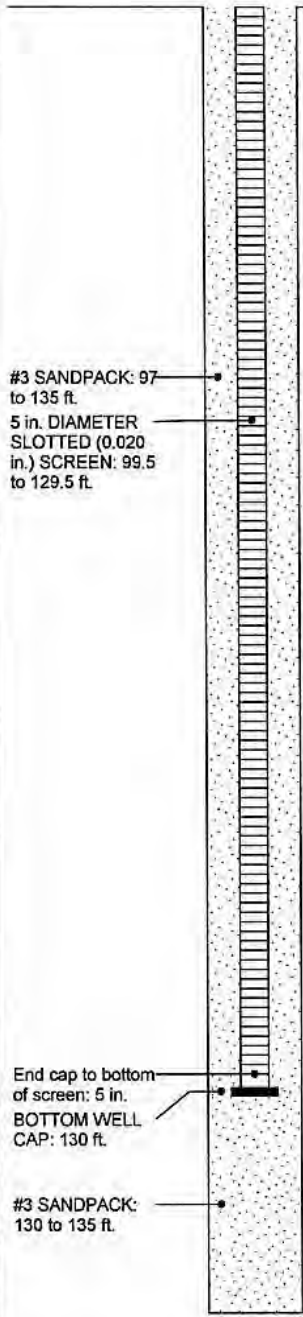
**A84**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/cnr</i>	1/05	



Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 180.96 ft. Hole Dia. 10 in.  
 Northing 2137597.4 Easting 5747971.5

Depth (ft.)  
Sample



@ 105 ft.: Similar to above

@ 110 ft.: Change to OLIVE YELLOW (2.5Y 6/6) Medium dense, wet

@ 115 ft.: Similar to above

@ 120 ft.: Similar to above

@ 125 ft.: Similar to above

OLIVE FAT CLAY (CH) (5Y 5/6) Medium dense, moist, 95% clay, 5% fine sand

Bottom of boring at 135 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
 Log of Boring MW-BW-61-A  
 OUCTP

PLATE



Fort Ord, California

**A84**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MOT/can</i>	DATE 1/05	REVISED DATE
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Completion Date 5/28/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 183.12 ft. Hole Dia. 10 in.  
 Northing 2137725.5 Easting 5748172.1

Top of PVC Casing  
 Elev. 183.00 ft.  
 CHRISTY  
 BOX

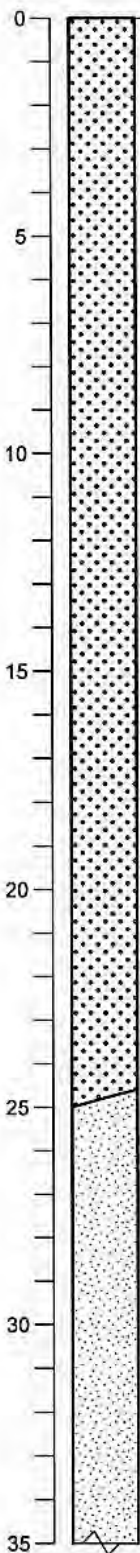
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0.5 to  
 130 ft.

10 in. DIAMETER  
 BOREHOLE: 0 to  
 134 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 50  
 ft. ....redo  
 after Jim  
 straightens  
 screwups

Depth (ft.)  
 Sample



BROWN WELL GRADED SAND (SW)  
 (10YR 5/3) Loose, dry, 90% fine to medium  
 sand, 10% silt

@ 8 ft.: Change to YELLOW (2.5Y 7/6) 95%  
 fine to medium sand, 5% silt

@ 15 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6) Medium dense, moist, 95% fine to  
 medium sand, 5% silt

@ 20 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6)

LIGHT OLIVE BROWN POORLY GRADED  
 SAND (SP) (2.5Y 5/6) Medium dense,  
 moist, 95% fine sand, 5% silt

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTFV6.GPJ\_FTO\_OUCTP.GDT 1/17/05

Well Construction Details and  
 Log of Boring MW-BW-62-A  
 OUCTP

PLATE



MACTEC

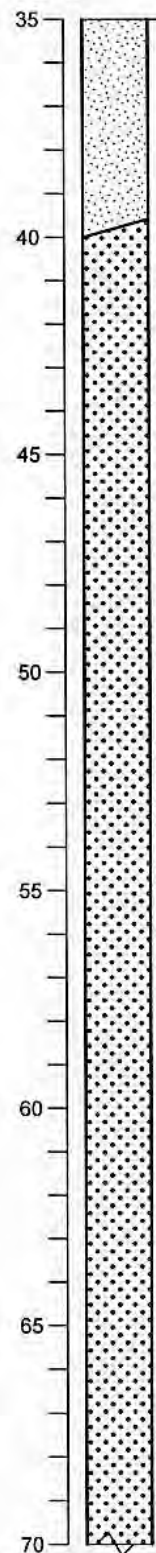
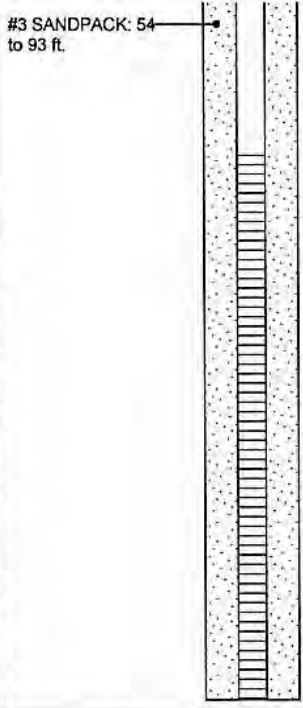
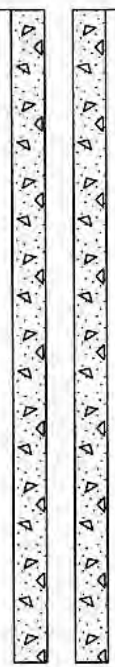
Fort Ord, California

**A85**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / am</i>	1/05	

Completion Date 5/28/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 183.12 ft. Hole Dia. 10 in.  
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)  
Sample



@ 35 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/6) Medium dense, moist, 95% fine to medium sand, 5% silt

@ 45 ft.: Similar to above

@ 50 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 55 ft.: Similar to above

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-62-A**  
OUCTP

PLATE

**A85**

Fort Ord, California

DRAWN  
MBP

JOB NUMBER  
55596 001701

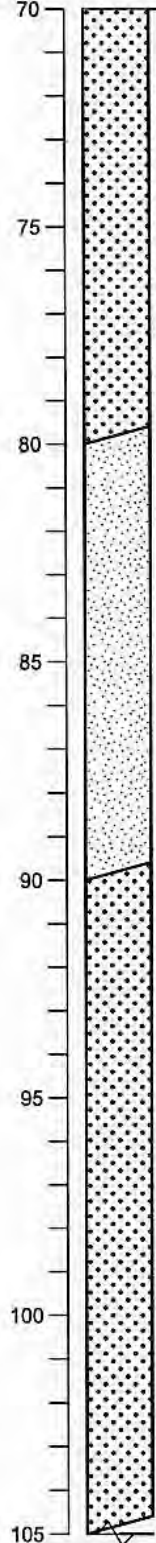
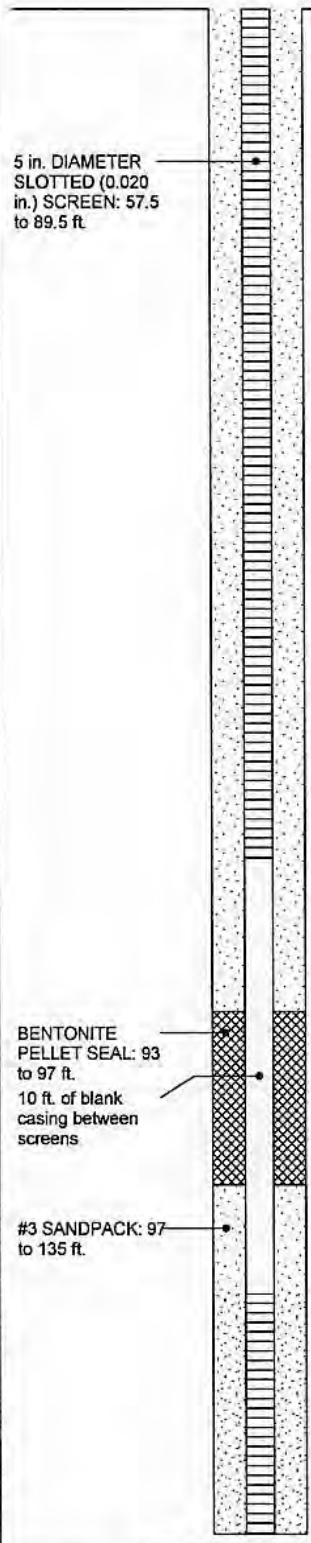
APPROVED  
*MDT / cm*

DATE  
1/05

REVISED DATE

Completion Date 5/28/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 183.12 ft. Hole Dia. 10 in.  
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)  
 Sample



@ 70 ft.: Similar to above

@ 75 ft.: Change to 95% fine to coarse sand, 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Medium dense, wet, 95% fine sand, 5% silt

@ 85 ft.: Similar to above

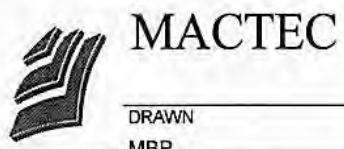
YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 5/6) Medium dense, wet, 90% fine to medium sand, 10% silt

@ 95 ft.: Change to 95% fine to medium sand, 5% silt

@ 100 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/17/05

Well Construction Details and Log of Boring MW-BW-62-A PLATE  
 OUCTP



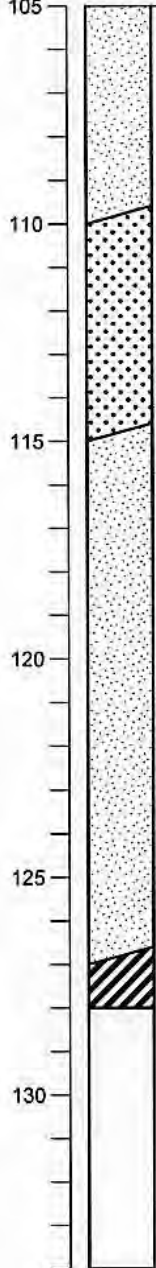
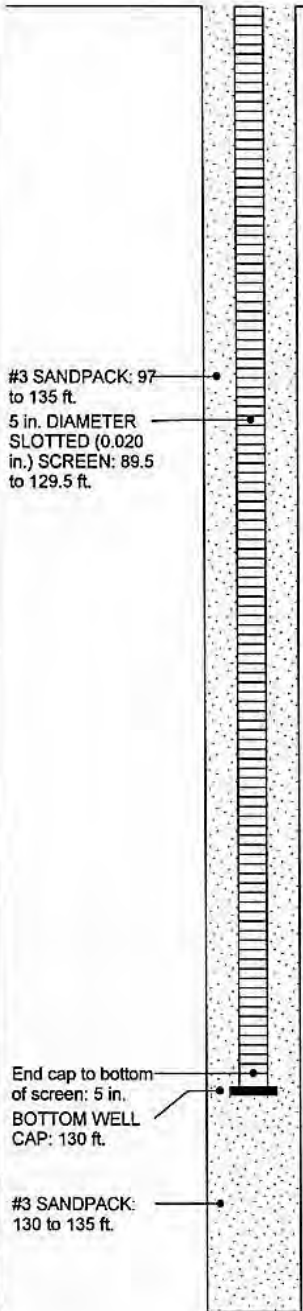
Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / can	1/05	

**A85**

Completion Date 5/28/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 183.12 ft. Hole Dia. 10 in.  
 Northing 2137725.5 Easting 5748172.1

Depth (ft.)  
Sample



YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Medium dense, wet, 95% fine sand, 5% silt

YELLOWISH BROWN WELL SAND (SW) (10YR 5/6) Medium dense, wet, 95% fine to medium sand, 5% silt

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Medium dense, wet, 95% fine sand, 5% silt

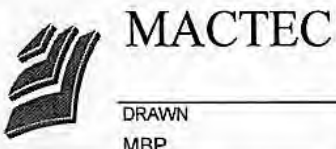
@ 120 ft.: Change to YELLOWISH BROWN (10YR 5/4) 90% fine sand, 10% silt

@ 125 ft.: Change to 95% fine sand, 5% silt

OLIVE FAT CLAY (CH) (5Y 5/6) Dense, moist, 95% clay, 5% fine sand

Bottom of boring at 134 ft. redrilling necessary after difficulty installing well

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/17/05



Well Construction Details and Log of Boring MW-BW-62-A  
OUCTP

PLATE

**A85**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / can	1/05	



Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 184.53 ft. Hole Dia. 10 in.  
 Northing 2137841.4 Easting 5748312.9

Top of PVC Casing  
 Elev. 184.49 ft.  
 CHRISTY  
 BOX

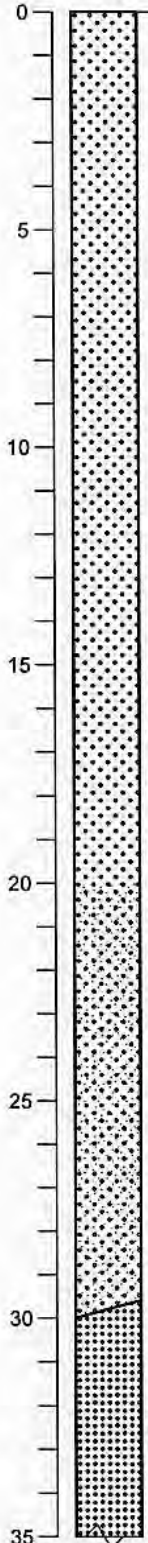
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0.5 to  
 128 ft.

10 in. DIAMETER  
 BOREHOLE: 0 to  
 135 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 47 ft.

Depth (ft.)  
 Sample



STRONG BROWN WELL GRADED SAND  
 (SW) (7.5YR 4/6) Loose, dry, 80% fine to  
 coarse sand, 20% silt

@ 4 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/6) 90% fine to medium  
 sand, 10% silt

@ 7 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/4) 95% fine to medium sand, 5% silt

@ 12 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6)

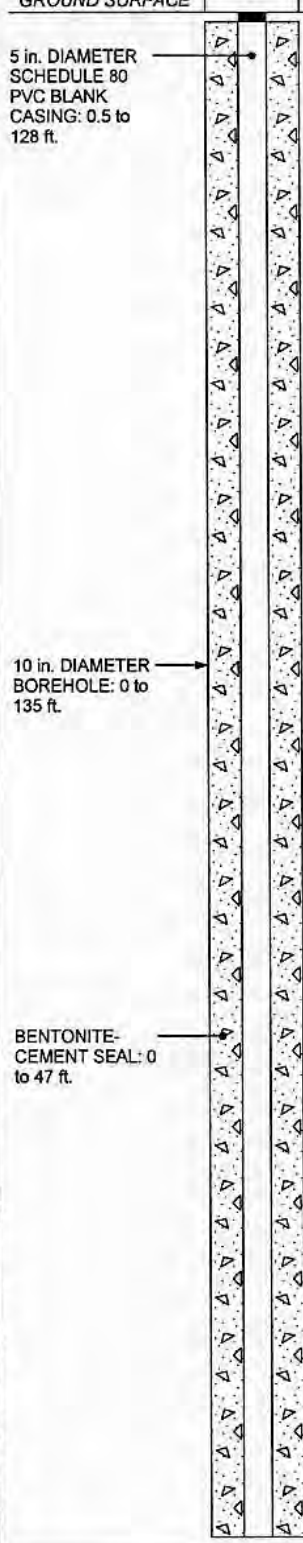
@ 17 ft.: Similar to above

OLIVE YELLOW POORLY GRADED SAND  
 (SP) (2.5Y 6/6) Loose, dry, 90% medium  
 fine sand, 5% other sand, 5% silt

@ 25 ft.: Similar to above

OLIVE YELLOW WELL GRADED SAND  
 (SW) (2.5Y 6/6) Loose, dry, 95% fine to  
 medium sand, 5% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



Well Construction Details and  
 Log of Boring MW-BW-63-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A86**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

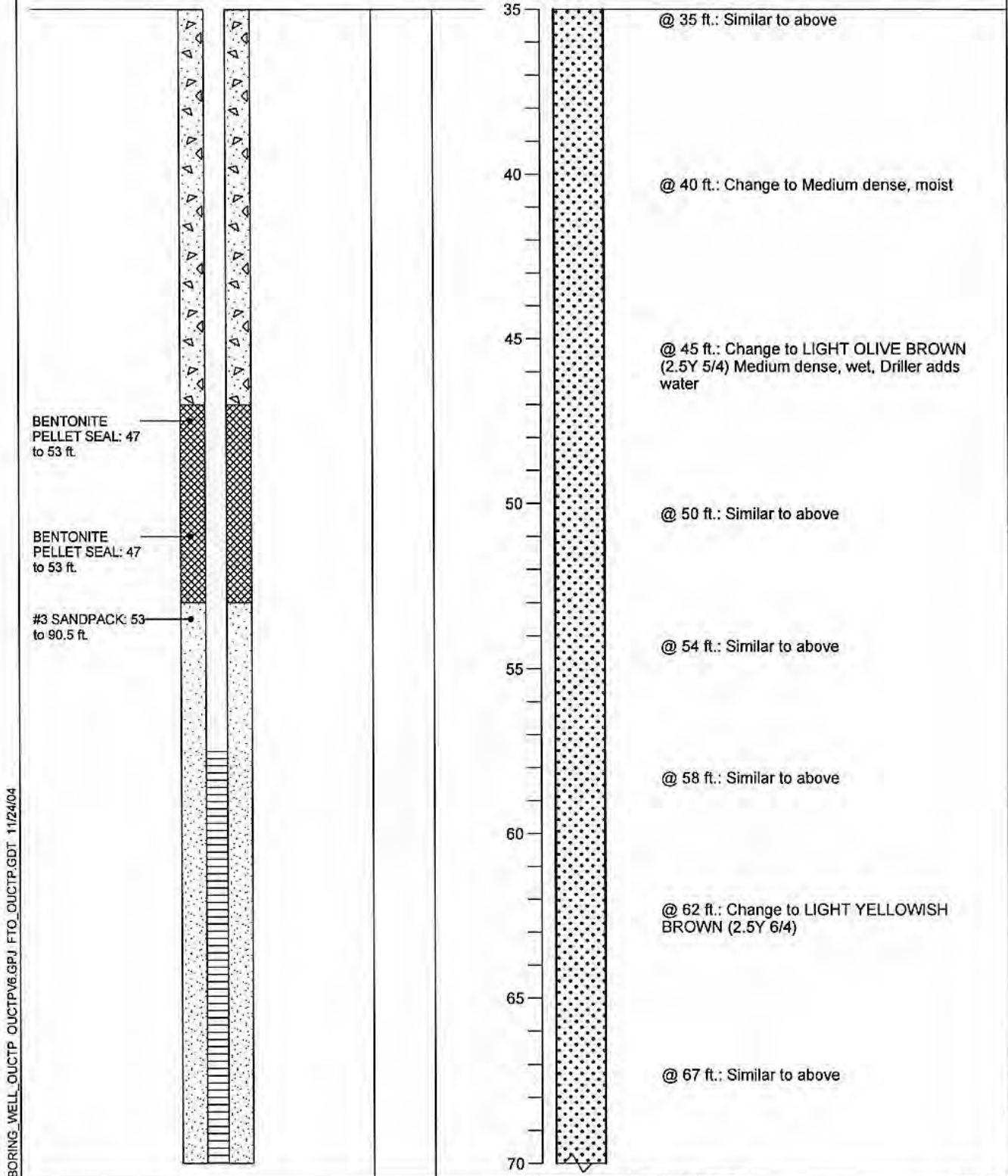
APPROVED  
*MJT / em*

DATE  
 11/04

REVISED DATE

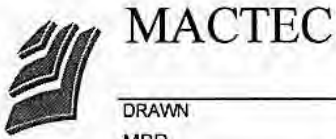
Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 184.53 ft. Hole Dia. 10 in.  
 Northing 2137841.4 Easting 5748312.9

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-63-A** PLATE  
 OUCTP



Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT/cwr</i>	11/04	

**A86**

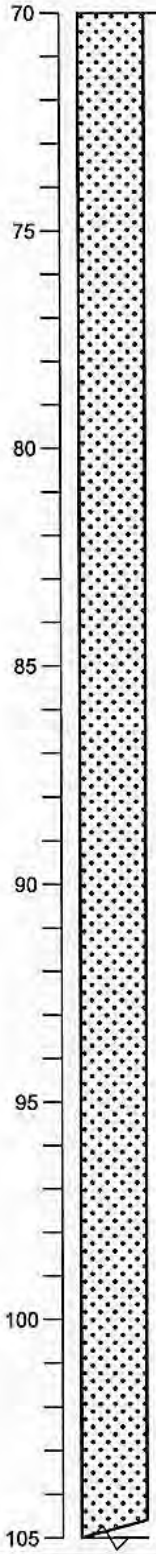
Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 184.53 ft. Hole Dia. 10 in.  
 Northing 2137841.4 Easting 5748312.9

Depth (ft.)  
Sample

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 57.5  
to 87.5 ft.

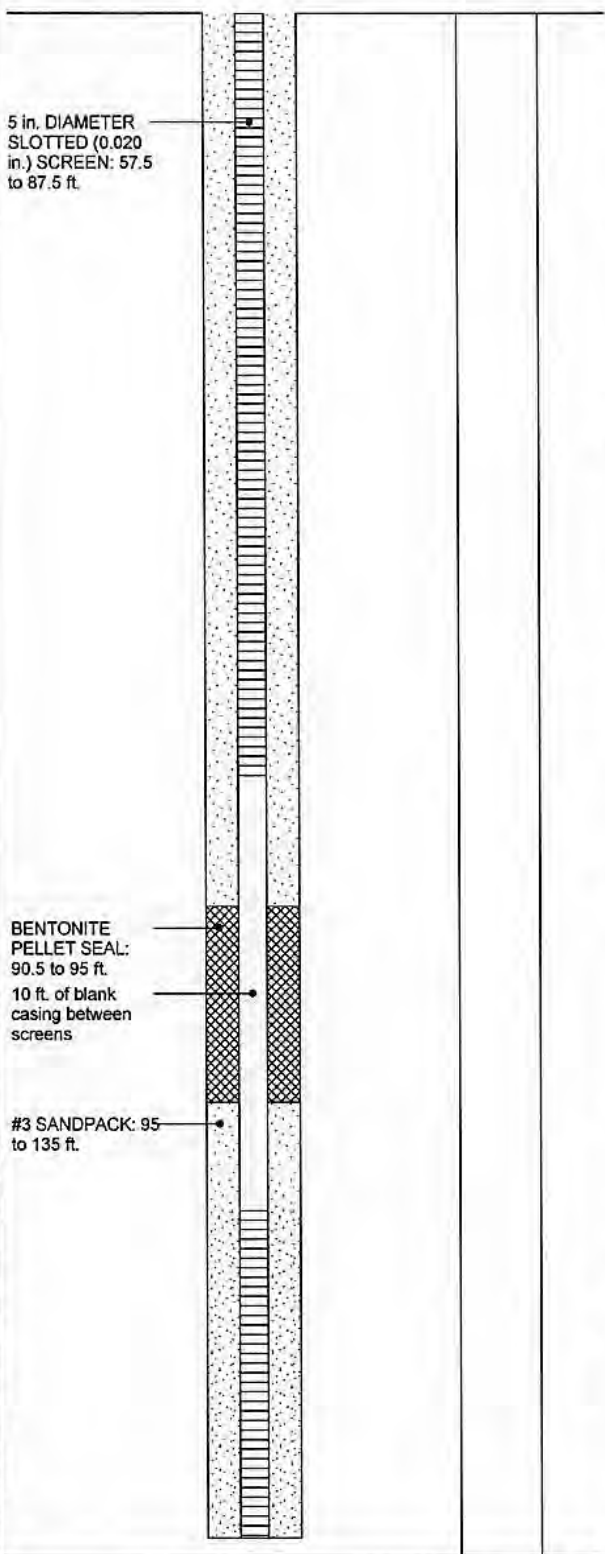
BENTONITE  
PELLET SEAL:  
90.5 to 95 ft.  
10 ft. of blank  
casing between  
screens

#3 SANDPACK: 95  
to 135 ft.



@ 72 ft.: Similar to above  
 @ 77 ft.: Similar to above  
 @ 83 ft.: Change to PALE YELLOW (2.5Y 7/4)  
 @ 90 ft.: Similar to above  
 @ 95 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4)  
 @ 100 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4)

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**Well Construction Details and  
Log of Boring MW-BW-63-A**

PLATE



**MACTEC**

Fort Ord, California

**A86**

DRAWN  
MBP

JOB NUMBER  
55596 001701

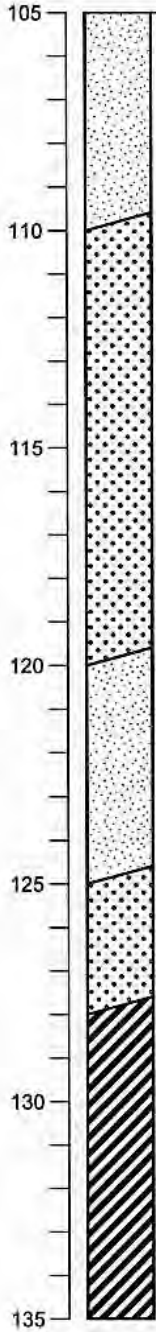
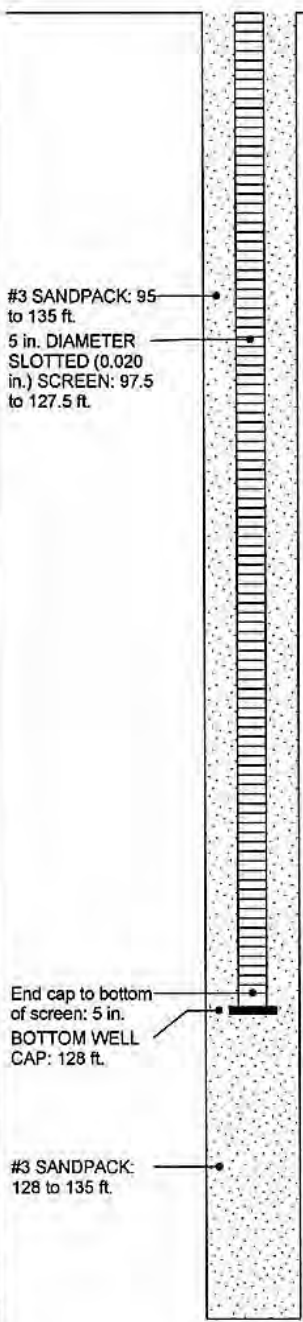
APPROVED  
*MBT/can*

DATE  
11/04

REVISED DATE

Completion Date 6/3/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 184.53 ft. Hole Dia. 10 in.  
 Northing 2137841.4 Easting 5748312.9

Depth (ft.)  
 Sample



LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Medium dense, wet, 95% medium fine sand, 5% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Medium dense, wet, 95% fine to coarse sand, 5% silt

@ 115 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED SAND (SP) (2.5Y 5/4) Medium dense, wet, 90% fine sand, 10% silt

LIGHT OLIVE BROWN WELL GRADED SAND (SW) (2.5Y 5/4) Medium dense, wet, 90% fine to coarse sand, 10% silt

DARK GREENISH GRAY FAT CLAY (CH) (5G 4/1) Firm, moist, 98% clay, 2% silt

Bottom of boring at 135 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04



**MACTEC**

**Well Construction Details and Log of Boring MW-BW-63-A**

PLATE

OUCTP

Fort Ord, California

**A86**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cm*

DATE  
11/04

REVISED DATE

Completion Date 6/4/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 177.43 ft. Hole Dia. 10 in.  
 Northing 2138018 Easting 5748548.7

Top of PVC Casing  
 Elev. 177.26 ft.  
 CHRISTY  
 BOX

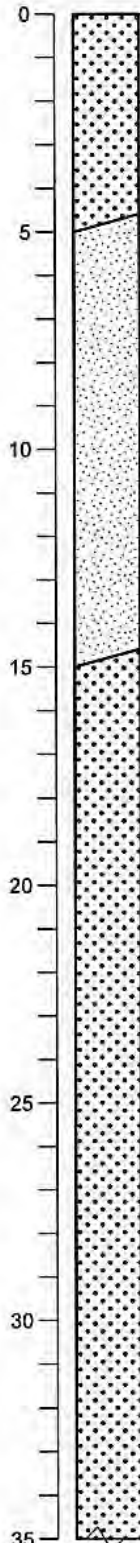
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0.5 to  
 128 ft.

10 in. DIAMETER  
 BOREHOLE: 0 to  
 134 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 47 ft.

Depth (ft.)  
 Sample



YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/8) Loose, dry, 88%  
 fine to coarse sand, 10% silt, 2% gravel  
 @ 2 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 4/6) 90% fine to medium  
 sand, 10% silt, Trace organics  
 @ 3 ft.: Change to DARK BROWN (10YR  
 3/3) Loose, barely moist, 95% fine to  
 medium sand, 5% silt  
 BROWNISH YELLOW POORLY GRADED  
 SAND (SP) (10yr 6/8) Loose, moist, 95%  
 fine sand, 5% silt

@ 10 ft.: Similar to above

@ 12 ft.: Similar to above

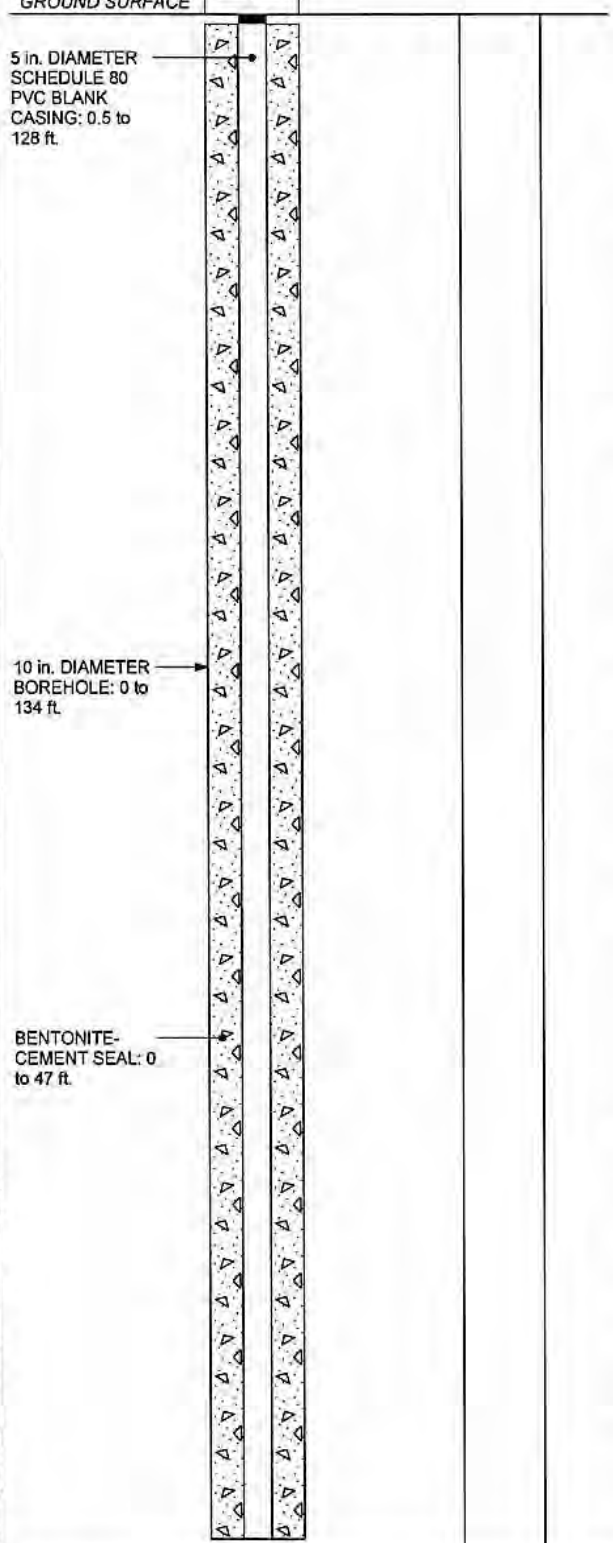
LIGHT OLIVE BROWN WELL GRADED  
 SAND (SW) (2.5Y 5/6) Loose, moist, 95%  
 fine to coarse sand, 5% silt

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04



**Well Construction Details and  
 Log of Boring MW-BW-64-A**

PLATE



**MACTEC**

Fort Ord, California

**A87**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT/cwr*

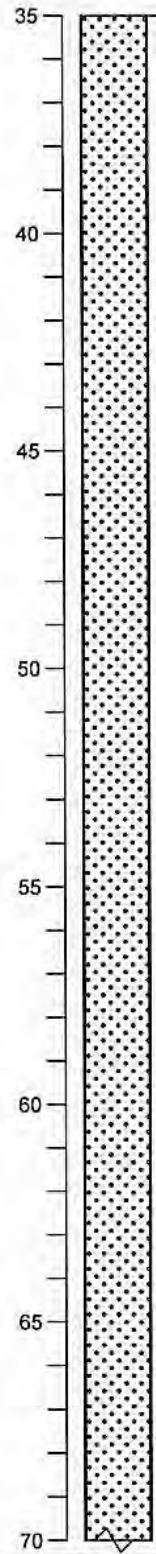
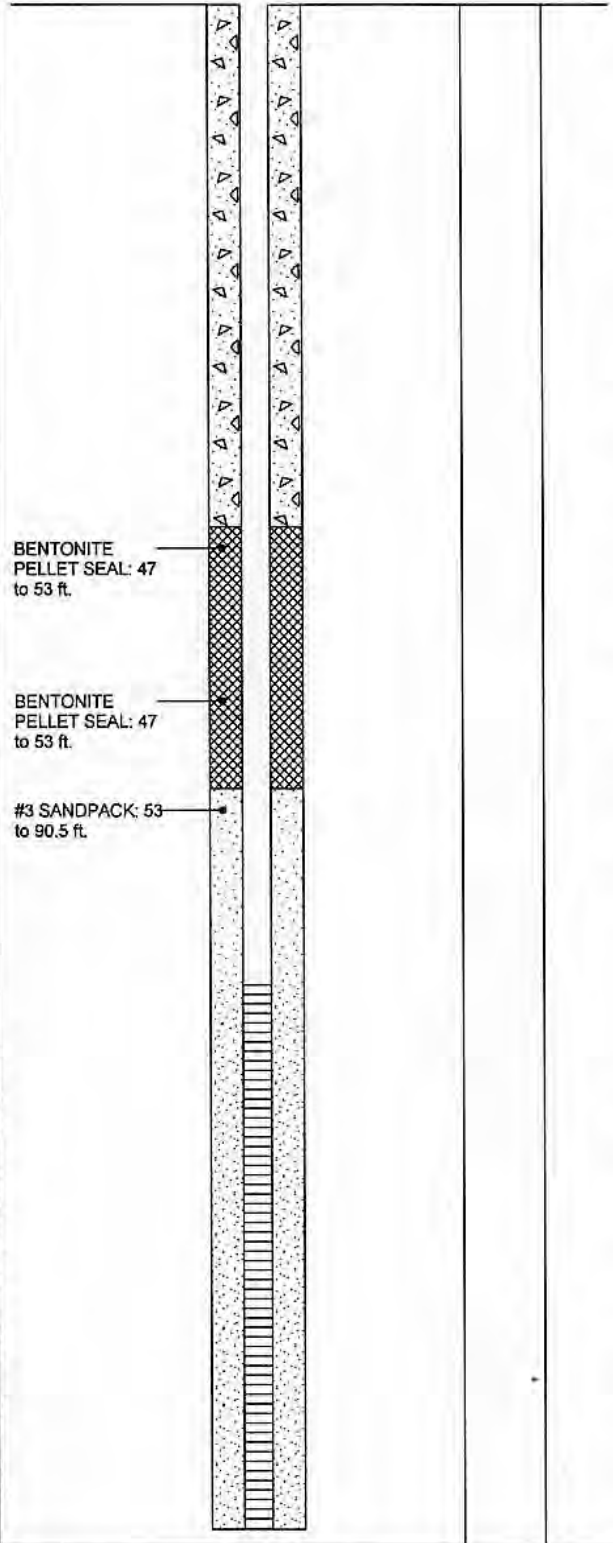
DATE  
 11/04

REVISED DATE



Completion Date 6/4/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 177.43 ft. Hole Dia. 10 in.  
 Northing 2138018 Easting 5748548.7

Depth (ft.)  
 Sample



@ 35 ft.: Change to Medium dense, moist, 95% fine to medium sand, 5% silt

@ 40 ft.: Change to YELLOWISH BROWN (10YR 5/6) 95% fine to coarse sand, 5% silt

@ 43 ft.: Driller adds water

@ 45 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6) Medium dense, wet, 95% fine to medium sand, 5% silt

@ 55 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4) 95% fine to coarse sand, 5% silt

@ 60 ft.: Similar to above

@ 65 ft.: Change to PALE YELLOW (2.5Y 7/4) 93% fine to coarse sand, 5% silt, 2% fat clay

BORING WELL\_OUCTP OUCTPVS.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring MW-BW-64-A**  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A87**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cw*

DATE  
11/04

REVISED DATE

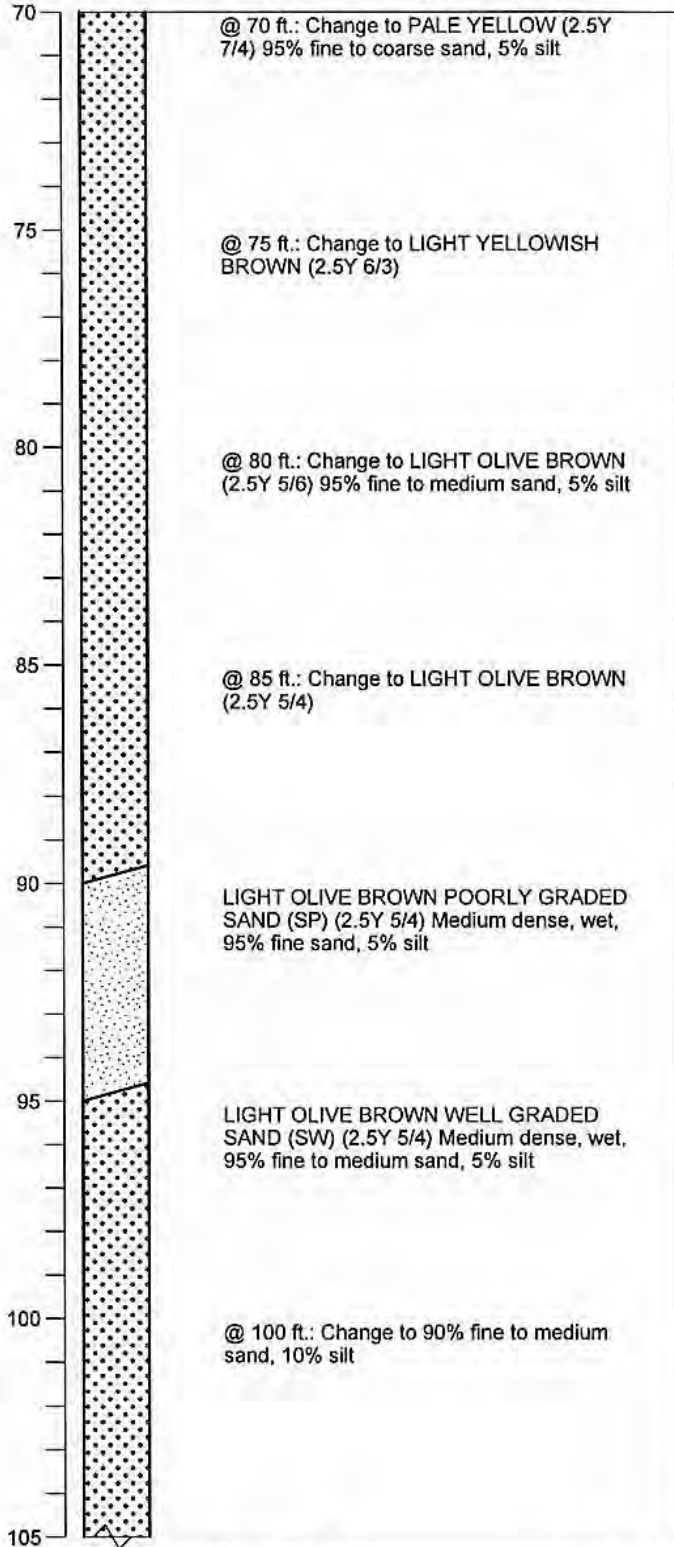
Completion Date 6/4/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 177.43 ft. Hole Dia. 10 in.  
 Northing 2138018 Easting 5748548.7

Depth (ft.)  
Sample

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 57.5  
to 87.5 ft.

BENTONITE  
PELLET SEAL:  
90.5 to 95 ft.  
10 ft. of blank  
casing between  
screens

#3 SANDPACK: 95  
to 134 ft.



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
Log of Boring MW-BW-64-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A87**

DRAWN  
MBP

JOB NUMBER  
55596 001701

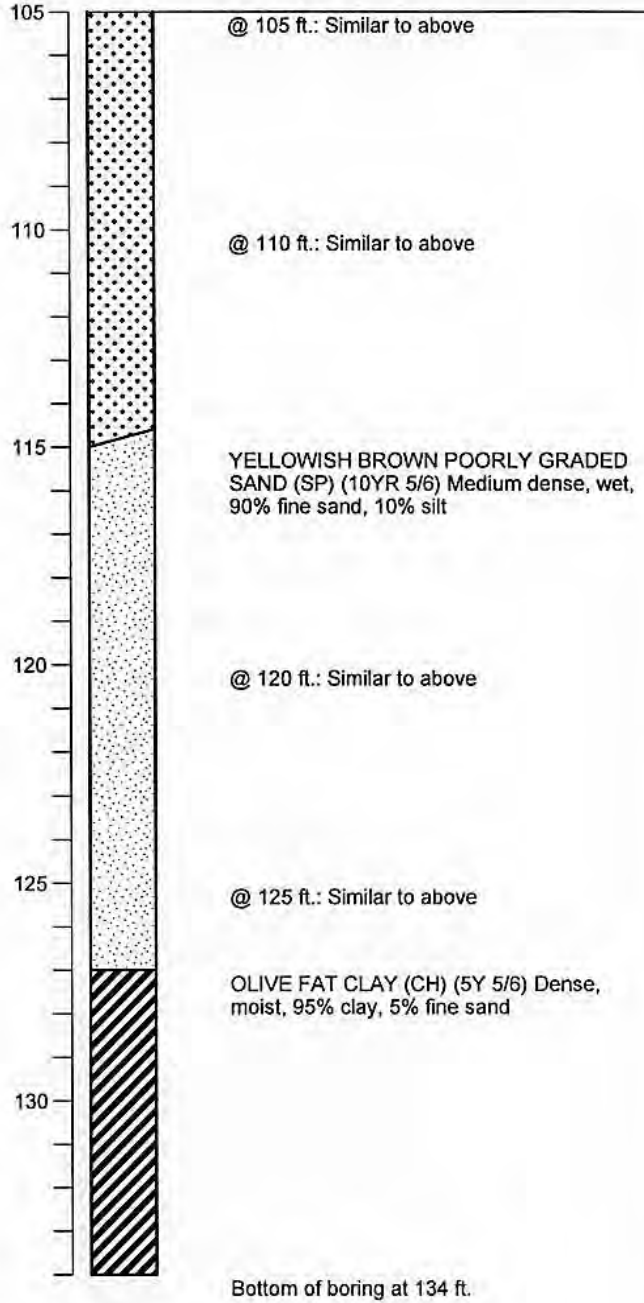
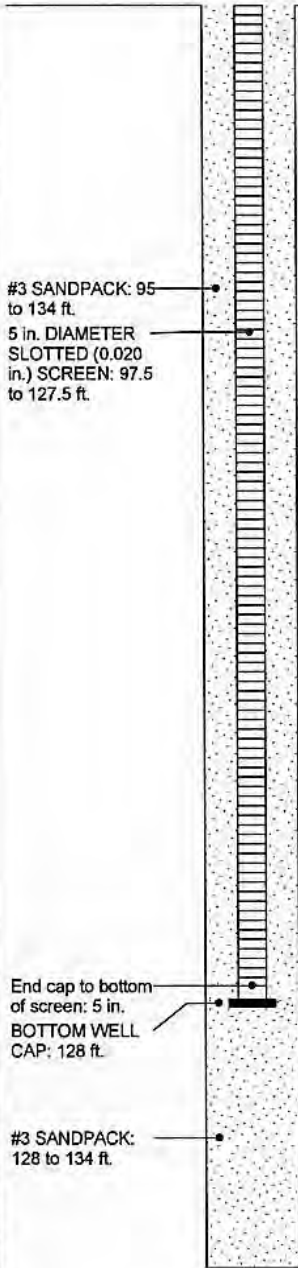
APPROVED  
*MDT/can*

DATE  
11/04

REVISED DATE

Completion Date 6/4/2003  
 Drilling Method ARCH/mud rotary  
 Logged by J. Newman  
 Surface Elevation 177.43 ft. Hole Dia. 10 in.  
 Northing 2138018 Easting 5748548.7

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-64-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A87**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cwr*

DATE  
11/04

REVISED DATE

Completion Date 5/30/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 50.02 ft. Hole Dia. 12 in.  
 Northing 2144855.2 Easting 5743084.9

Top of PVC Casing  
 Elev. 49.52 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

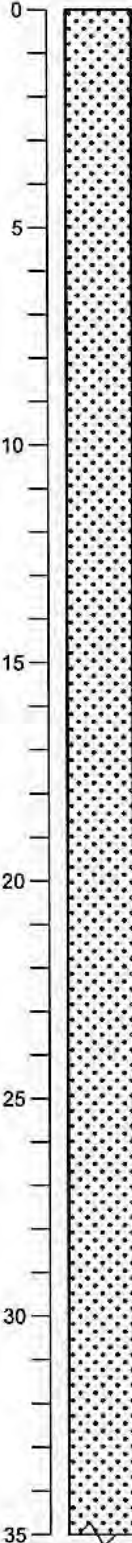
5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0 to 71  
 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 71 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 31 ft.

BENTONITE  
 PELLET SEAL: 31  
 to 35 ft.

Depth (ft.)  
 Sample



YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/6) Loose, dry, 85%  
 fine to coarse sand, 15% silt

@ 2 ft.: Change to DARK YELLOWISH  
 BROWN (10YR 3/6) 85% fine to coarse  
 sand, 10% silt, 5% organics

@ 5 ft.: Change to BROWNISH YELLOW  
 (10YR 6/8) Loose, moist, 95% fine to coarse  
 sand, 5% silt

@ 20 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6)

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

@ 32 ft.: Change to BROWNISH YELLOW  
 (10YR 6/8) Medium dense, moist, 95% fine  
 to medium sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP\_GDT\_11/24/04

**Well Construction Details and Log of Boring MW-BW-65-A** PLATE  
 OUCTP



**MACTEC**

Fort Ord, California

**A88**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MST / cur*

DATE  
 11/04

REVISED DATE

Completion Date 5/30/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 50.02 ft. Hole Dia. 12 in.  
 Northing 2144855.2 Easting 5743084.9

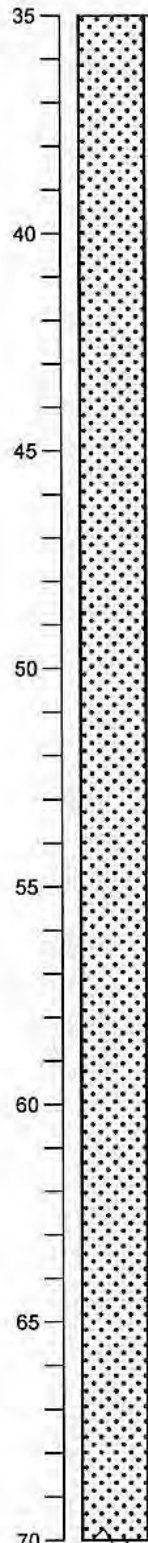
Depth (ft.)  
Sample

#3 SANDPACK: 35 to 71 ft.

5 in. DIAMETER SLOTTED (0.020 in.) SCREEN: 40.5 to 70.5 ft.

#3 SANDPACK: 35 to 71 ft.

5 in. DIAMETER SLOTTED (0.020 in.) SCREEN: 40.5 to 70.5 ft.



@ 35 ft.: Similar to above

@ 40 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/6)

@ 45 ft.: Change to YELLOWISH BROWN (10YR 5/8) 95% fine to coarse sand, 5% silt

@ 50 ft.: Similar to above

@ 55 ft.: Similar to above

@ 58 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4) Medium dense, wet

@ 65 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 11/24/04



**Well Construction Details and Log of Boring MW-BW-65-A**  
OUCTP

PLATE

Fort Ord, California

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / JCN*

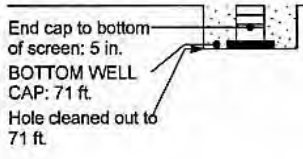
DATE  
11/04


**A88**  
REVISED DATE




Completion Date 5/30/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 50.02 ft. Hole Dia. 12 in.  
 Northing 2144855.2 Easting 5743084.9

Depth (ft.)  
 Sample



70  OLIVE FAT CLAY (CH) (5Y 5/4) Firm, moist, 95% fat clay, 5% fine sand  
 Bottom of boring at 71 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

	<b>MACTEC</b>	<b>Well Construction Details and Log of Boring MW-BW-65-A</b>	PLATE
		OUCTP	<b>A88</b>
		Fort Ord, California	
DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MOT/cw</i>	DATE 11/04
			REVISED DATE

Completion Date 5/14/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 86.46 ft. Hole Dia. 12 in.  
 Northing 2144350.1 Easting 5744400.6

Top of PVC Casing  
 Elev. 86.48 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: 0 to 67.5  
 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 67.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 31 ft.

BENTONITE  
 PELLET SEAL: 27  
 to 31 ft.

#3 SANDPACK: 31  
 to 67.5 ft.

Depth (ft.)  
 Sample

0  
5  
10  
15  
20  
25  
30  
35

VERY DARK BROWN WELL GRADED  
 SAND (SW) (10YR 2/2) Loose, moist, 85%  
 fine to medium sand, 10% silt, 5% organics

@ 3.5 ft.: Change to 95% fine to coarse  
 sand, 5% silt

@ 5 ft.: Change to DARK BROWN (10YR  
 3/3)

@ 7 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6) 100% fine to medium sand  
 @ 8 ft.: Change to OLIVE YELLOW (2.5Y  
 6/6)

@ 15 ft.: Change to YELLOW (2.5Y 7/6)

@ 20 ft.: Similar to above

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and  
 Log of Boring MW-BW-66-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A89**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*NOT / cm*

DATE  
 11/04

REVISED DATE

Completion Date 5/14/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 86.46 ft. Hole Dia. 12 in.  
 Northing 2144350.1 Easting 5744400.6

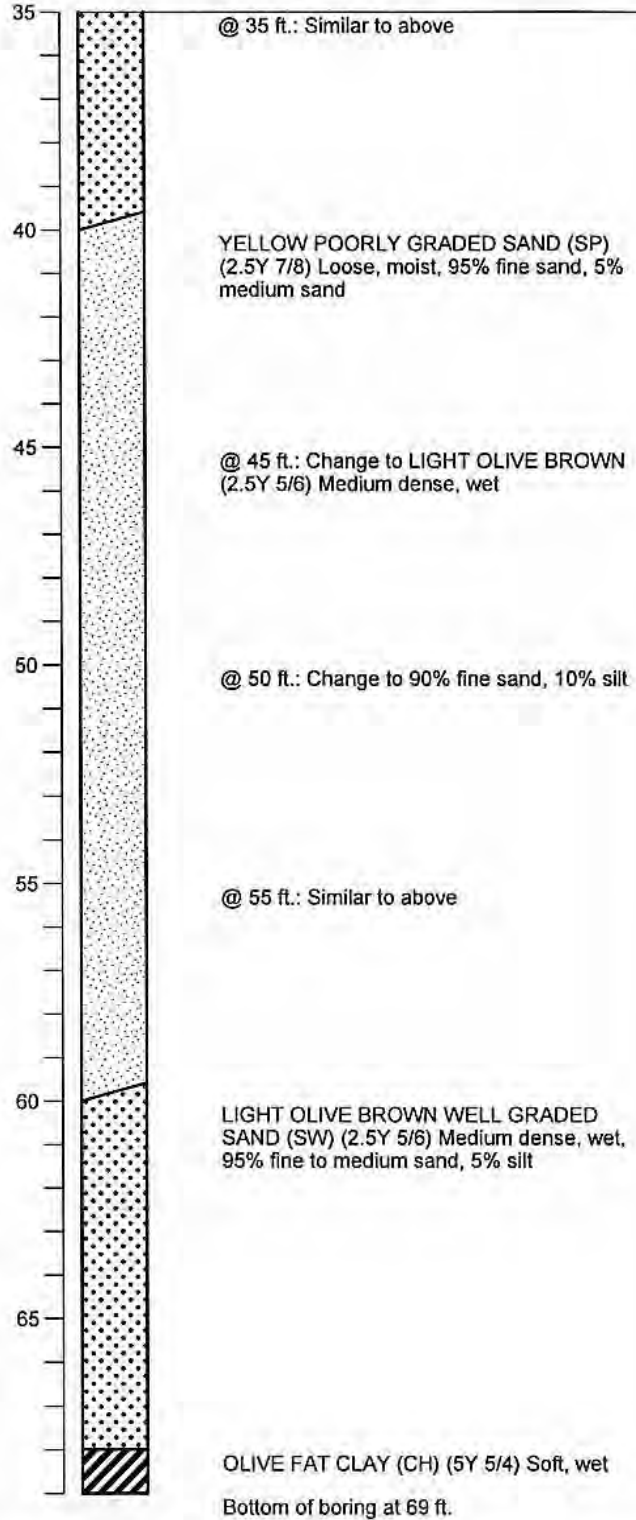
Depth (ft.)  
Sample

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 37  
to 67 ft.

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 37  
to 67 ft.

#3 SANDPACK: 31  
to 67.5 ft.

End cap to bottom  
of screen: 5 in.  
BOTTOM WELL  
CAP: 67.5 ft.  
Hole cleaned out to  
67.5 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_11/24/04

Well Construction Details and  
Log of Boring MW-BW-66-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A89**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/lmr*

DATE  
11/04

REVISED DATE

Completion Date 5/15/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 109.01 ft. Hole Dia. 12 in.  
 Northing 2144537.8 Easting 5744654.1

Top of PVC Casing  
 Elev. 111.16 ft.  
 CHRISTY  
 BOX

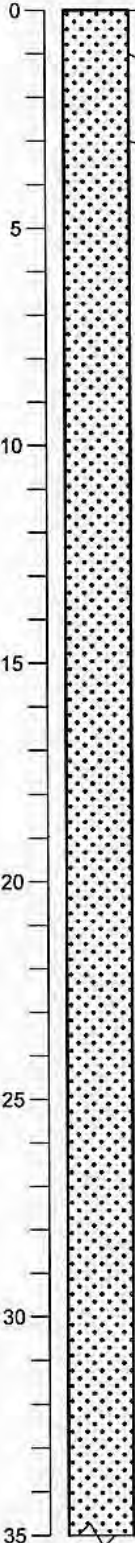
GROUND SURFACE

5 in. DIAMETER  
 SCHEDULE 80  
 PVC BLANK  
 CASING: +2 to 88  
 ft.

12 in. DIAMETER  
 BOREHOLE: 0 to  
 88 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 53 ft.

Depth (ft.)  
 Sample



DARK BROWN WELL GRADED SAND (SW) (10YR 3/3) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 1 ft.: Change to YELLOWISH BROWN (10YR 5/6) Loose, barely moist, 95% fine to coarse sand, 5% silt  
 @ 3 ft.: Change to BROWNISH YELLOW (10YR 6/8)  
 @ 4.5 ft.: Change to YELLOW (2.5Y 7/6) Loose, moist, 100% fine to medium sand

@ 7 ft.: Change to LIGHT OLIVE BROWN (2.5Y 5/4) Loose, barely moist, 95% fine to medium sand, 5% silt

@ 15 ft.: Change to OLIVE YELLOW (2.5Y 6/6) 100% fine to medium sand

@ 20 ft.: Similar to above

@ 25 ft.: Change to LIGHT YELLOWISH BROWN (2.5Y 6/4) Loose, dry, 95% fine to medium sand, 5% silt

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

Well Construction Details and  
 Log of Boring MW-BW-67-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A90**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

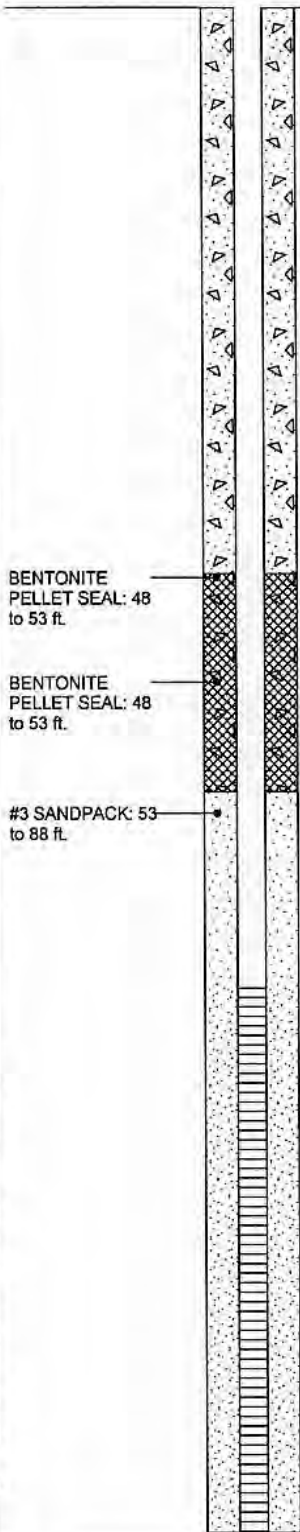
APPROVED  
*WOT/cnr*

DATE  
 1/05

REVISED DATE

Completion Date 5/15/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 109.01 ft. Hole Dia. 12 in.  
 Northing 2144537.8 Easting 5744654.1

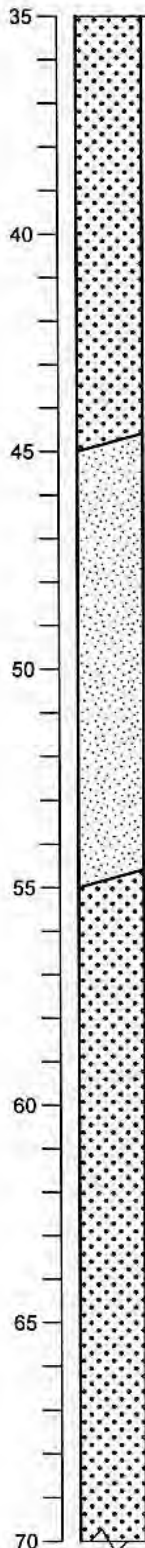
Depth (ft.)  
 Sample



BENTONITE  
 PELLET SEAL: 48  
 to 53 ft.

BENTONITE  
 PELLET SEAL: 48  
 to 53 ft.

#3 SANDPACK: 53  
 to 88 ft.



@ 35 ft.: Change to LIGHT OLIVE BROWN  
 (2.5Y 5/6) Medium dense, moist

@ 40 ft.: Similar to above

LIGHT OLIVE BROWN POORLY GRADED  
 SAND (SP) (2.5Y 5/6) 85% medium fine  
 sand, 10% fine sand, 5% silt

@ 50 ft.: Similar to above

LIGHT OLIVE BROWN WELL GRADED  
 SAND (SW) (2.5Y 5/6) Medium dense,  
 moist, 95% fine to medium sand, 5% silt

@ 60 ft.: Similar to above

@ 65 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-67-A  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A90**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*NOT / con*

DATE  
 1/05

REVISED DATE

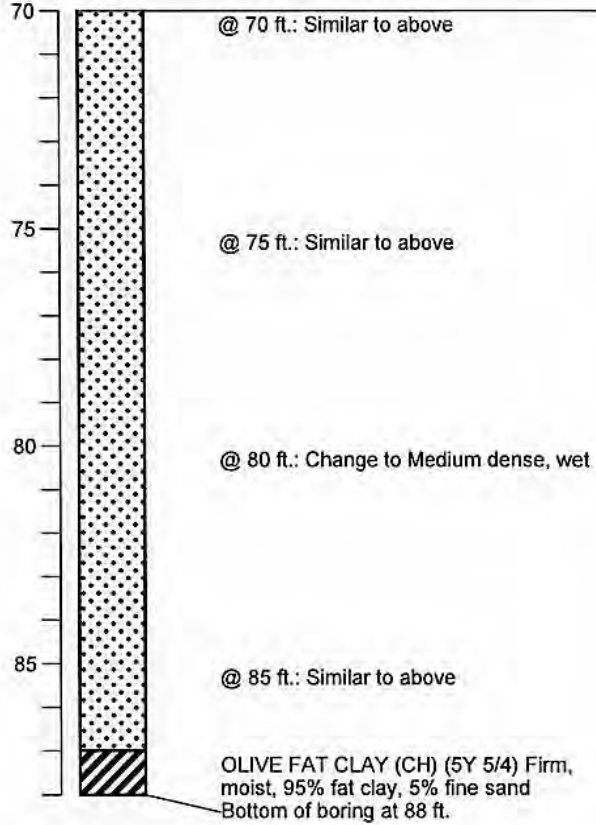


Completion Date 5/15/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 109.01 ft. Hole Dia. 12 in.  
 Northing 2144537.8 Easting 5744654.1

Depth (ft.)  
Sample

5 in. DIAMETER  
SLOTTED (0.020  
in.) SCREEN: 57.5  
to 87.5 ft.

End cap to bottom  
of screen: 5 in.  
BOTTOM WELL  
CAP: 88 ft.  
Hole cleaned out to  
88 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
Log of Boring MW-BW-67-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A90**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cur*

DATE  
1/05

REVISED DATE

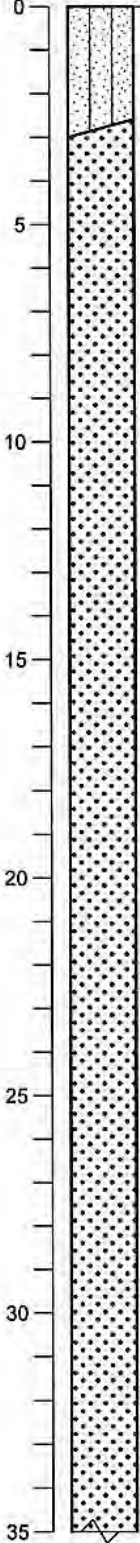
Completion Date 8/9/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 192.05 Hole Dia. 10 in.  
 Northing 2138141.6 Easting 5748085.6

Top of PVC Casing  
 Elev. 191.91 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

10 in. DIA.  
 BOREHOLE: 0 to  
 145 ft.  
 4 in. DIA. SCHED.  
 40 PVC CASING:  
 0 to 113 ft.

Depth (ft.)  
 Sample



DARK YELLOWISH BROWN SILTY SAND  
 (SM) (10YR 3/6)

LIGHT YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 6/4) Loose,  
 dry, 80% fine to coarse sand, 20% silt

@ 12 ft.: 95% fine to coarse sand, 5% silt

@ 32 ft.: 90% fine to coarse sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-71-A  
 OUCTP

PLATE



MACTEC

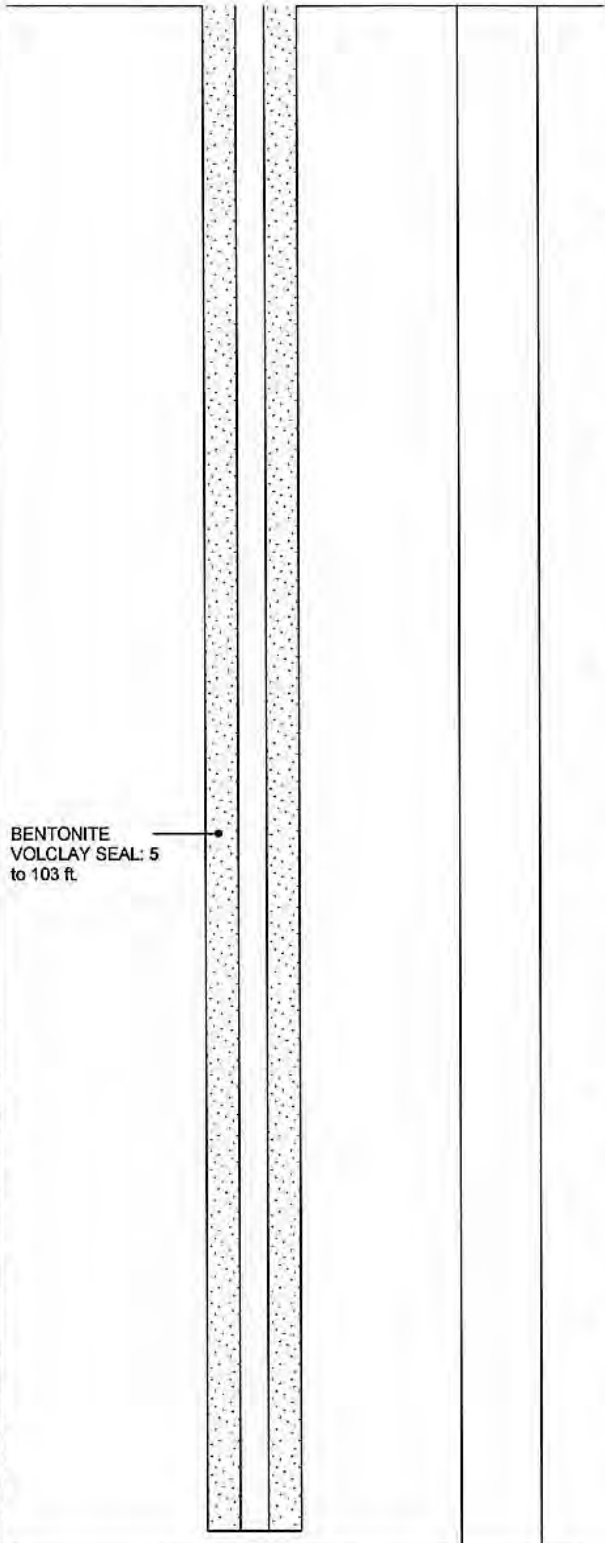
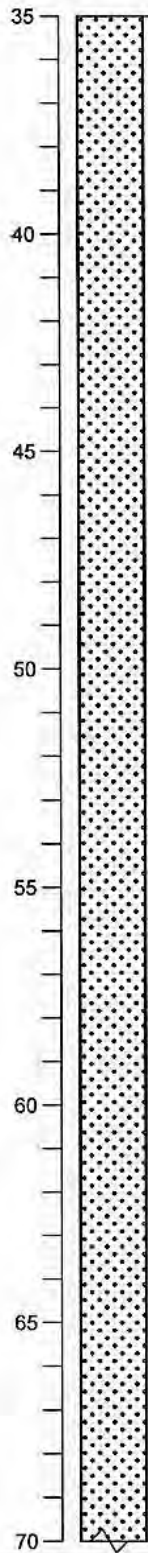
Fort Ord, California

**A91**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT/can</i>	1/05	

Completion Date 8/9/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 192.05 Hole Dia. 10 in.  
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)  
 Sample



BENTONITE  
 VOLCLAY SEAL: 5  
 to 103 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-71-A  
 OUCTP

PLATE



**MACTEC**

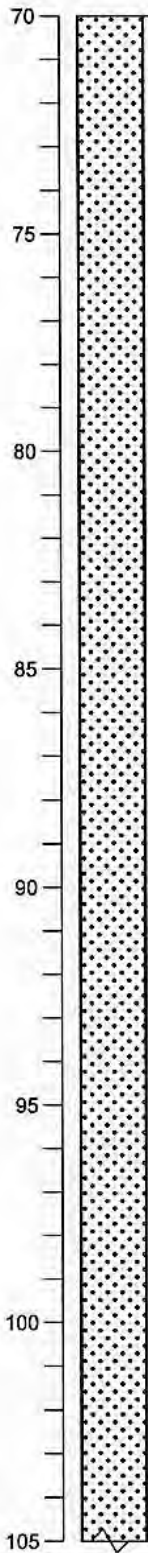
Fort Ord, California

**A91**

DRAWN CN	JOB NUMBER 55596 001701	APPROVED <i>MOT/cw</i>	DATE 1/05	REVISED DATE
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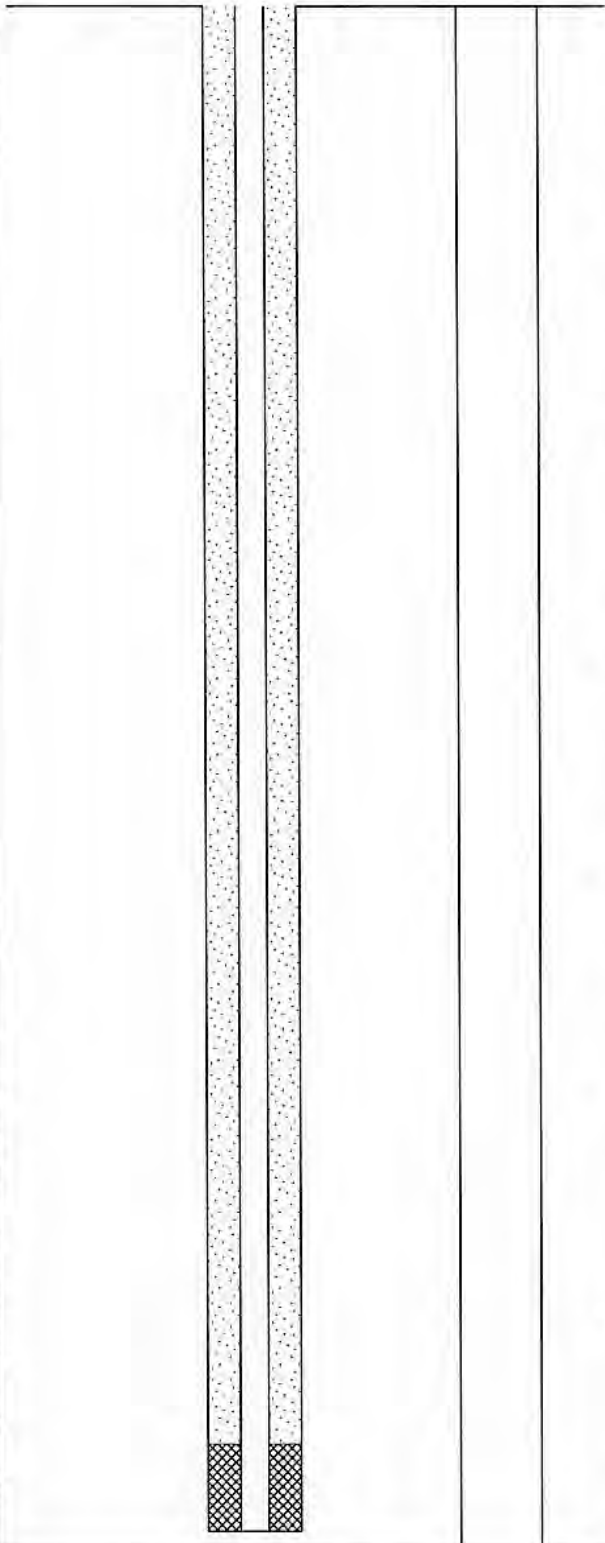
Completion Date 8/9/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 192.05 Hole Dia. 10 in.  
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)  
 Sample



@ 72 ft.: 95% fine to coarse sand, 5% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05



Well Construction Details and  
 Log of Boring MW-BW-71-A  
 OUCTP

PLATE

**A91**

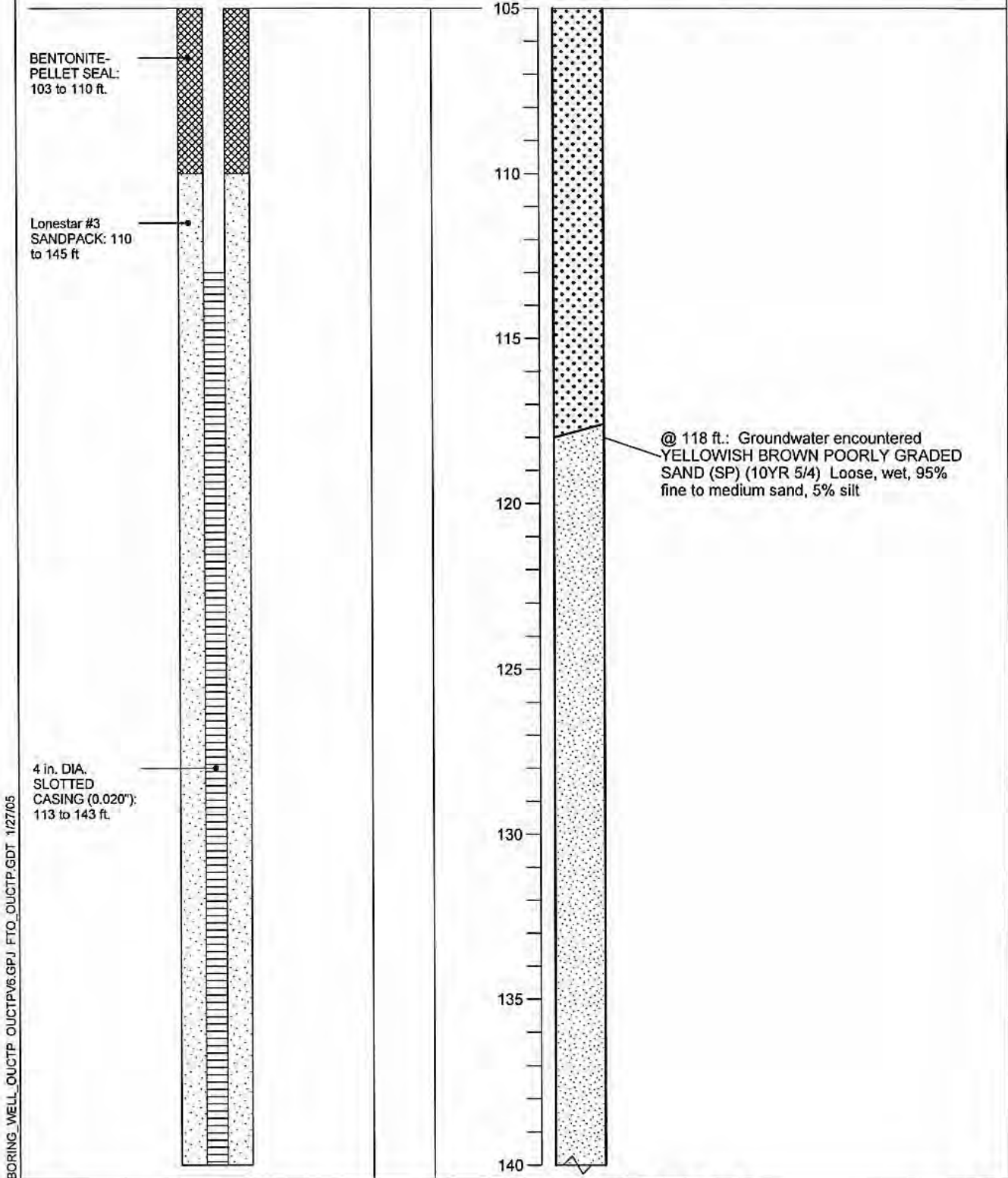


**MACTEC**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT / com</i>	1/05	

Completion Date 8/9/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 192.05 Hole Dia. 10 in.  
 Northing 2138141.6 Easting 5748085.6



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**Well Construction Details and Log of Boring MW-BW-71-A**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

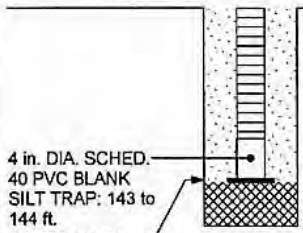
**A91**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT / ear</i>	1/05	

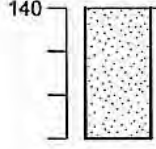


Completion Date 8/9/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 192.05 Hole Dia. 10 in.  
 Northing 2138141.6 Easting 5748085.6

Depth (ft.)  
 Sample



4 in. DIA. SCHED.  
 40 PVC BLANK  
 SILT TRAP: 143 to  
 144 ft.  
 BOTTOM WELL  
 CAP: 144 ft.  
 HOLE CLEANED  
 OUT to 145 ft.



Bottom of boring at 143 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-71-A**  
 OUCTP

PLATE

**A91**

Fort Ord, California

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED  
*MOT/cw*

DATE  
 1/05

REVISED DATE

Completion Date 8/24/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 45.22 Hole Dia. 10 in.  
 Northing 2144550.8 Easting 5741879.3

Top of PVC Casing  
 Elev. 44.88 ft.  
 CHRISTY  
 BOX

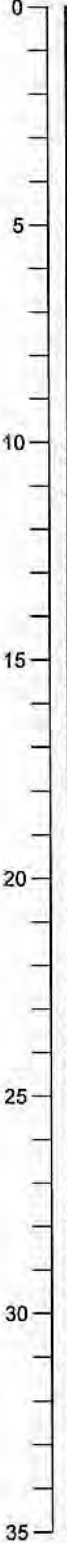
GROUND SURFACE  
 10 in. DIA.  
 BOREHOLE: 0 to  
 59 ft.  
 4 in. DIA. SCHED.  
 80 PVC CASING:  
 0 to 28.5 ft.

BENTONITE-  
 CEMENT SEAL: 4  
 to 23 ft.

BENTONITE-  
 PELLET SEAL: 23  
 to 26 ft.

Lonestar #3  
 SANDPACK: 26 to  
 60 ft.

Depth (ft.)  
 Sample



CONCRETE SIDEWALK  
 VERY DARK GRAYISH BROWN SILTY  
 SAND (SM) (10YR 3/2) Loose, dry, 75%  
 fine to coarse sand, 25% silt

@ 7 ft.: Color Change to DARK  
 YELLOWISH BROWN (10YR 4/4), 85%  
 sand, 15% silt

YELLOWISH BROWN WELL GRADED  
 SAND (SW) (10YR 5/6) Loose, dry, 90%  
 fine to coarse sand, 10% silt

@ 15 ft.: Color change to BROWNISH  
 YELLOW (10YR 6/6)

@ 18 FT.: Color change to YELLOWISH  
 BROWN (10YR 5/6)

@ 32 ft.: Change to BROWNISH YELLOW  
 (10YR 6/8), moist

@ 35 ft.: Wet

BORING\_WELL\_OUCTP\_V6.GPJ FTO\_OUCTP.GDT 1/27/05



**MACTEC**

**Well Construction Details and  
 Log of Boring MW-BW-73-A**  
 OUCTP

PLATE

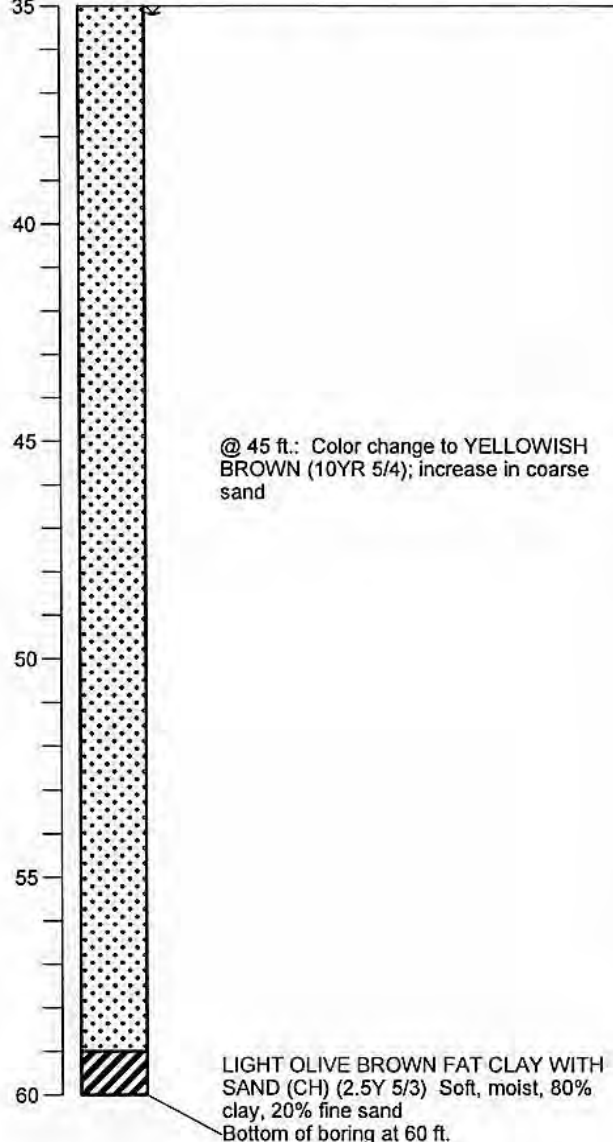
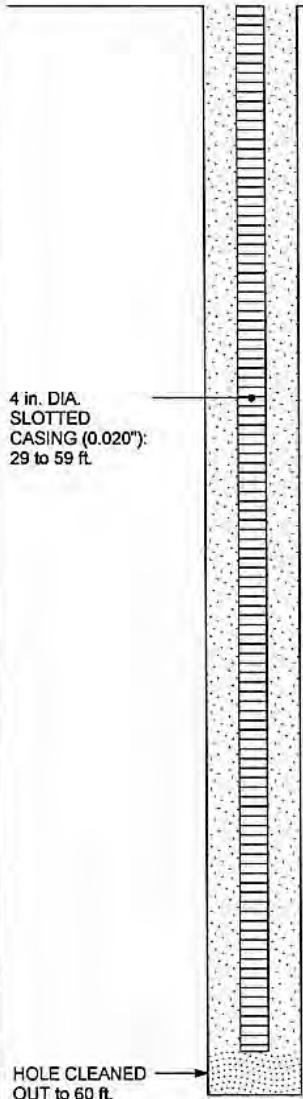
**A92**

Fort Ord, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MST/cmr</i>	1/05	

Completion Date 8/24/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 45.22 Hole Dia. 10 in.  
 Northing 2144550.8 Easting 5741879.3

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring MW-BW-73-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A92**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MAT/cw</i>	1/05	

Completion Date 8/23/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 30.69 Hole Dia. 10 in.  
 Northing 2145072.2 Easting 5742100.3

Top of PVC Casing  
 Elev. 30.47 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

10 in. DIA.  
 BOREHOLE: 0 to  
 59.5 ft.

4 in. DIA. SCHED.  
 80 PVC CASING:  
 0 to 29 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 8 ft.

BENTONITE-  
 SLURRY SEAL: 8  
 to 22 ft.

BENTONITE-  
 PELLET SEAL: 22  
 to 26 ft.

Lonestar #3  
 SANDPACK: 26 to  
 59.5 ft.

Depth (ft.)  
 Sample

0  
5  
10  
15  
20  
25  
30  
35

CONCRETE  
 DARK YELLOWISH BROWN SILTY SAND  
 (SM) (10YR 4/4) Loose, dry, 75% fine to  
 coarse sand, 25% silt

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 4/6) Loose,  
 dry, 95% fine to coarse sand, 5% silt

@ 12 ft.: Color change to BROWNISH  
 YELLOW (10YR 6/6)

@ 17 ft.: Color change to DARK  
 YELLOWISH BROWN (10YR 4/6)

@ 22 ft.: Color change to LIGHT OLIVE  
 BROWN (10YR 5/4)

@ 27 ft.: Wet

BORING WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-74-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A93**

DRAWN  
 CN

JOB NUMBER  
 55596 001701

APPROVED

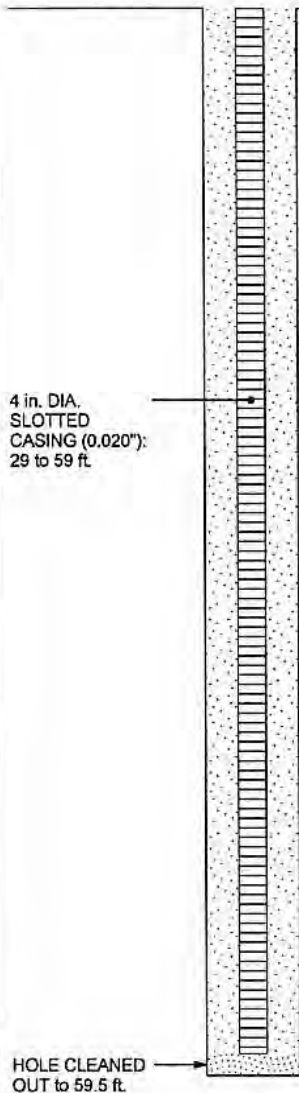
*MOT / aw*

DATE  
 1/05

REVISED DATE

Completion Date 8/23/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 30.69 Hole Dia. 10 in.  
 Northing 2145072.2 Easting 5742100.3

Depth (ft.)  
Sample



35

40

45

50

55

@ 40 ft.: Change to 90% sand, 5% silt, 5% fine gravel up to 15 mm; increase in coarse sand to 30%

LIGHT OLIVE BROWN FAT CLAY WITH SAND (CH) (2.5Y 5/4) Medium stiff, moist, 75% clay, 25% fine to medium sand. Sand may be mixed from above. Bottom of boring at 59.5 ft.

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and  
Log of Boring MW-BW-74-A  
OUCTP

Fort Ord, California

PLATE

**A93**

DRAWN  
CN

JOB NUMBER  
55596 001701

APPROVED

*MDT / Lew*

DATE  
1/05

REVISED DATE



Completion Date 8/25/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 32.55 Hole Dia. 10 in.  
 Northing 2145294.5 Easting 5742611.3

Top of PVC Casing  
 Elev. 32.32 ft.  
 CHRISTY  
 BOX

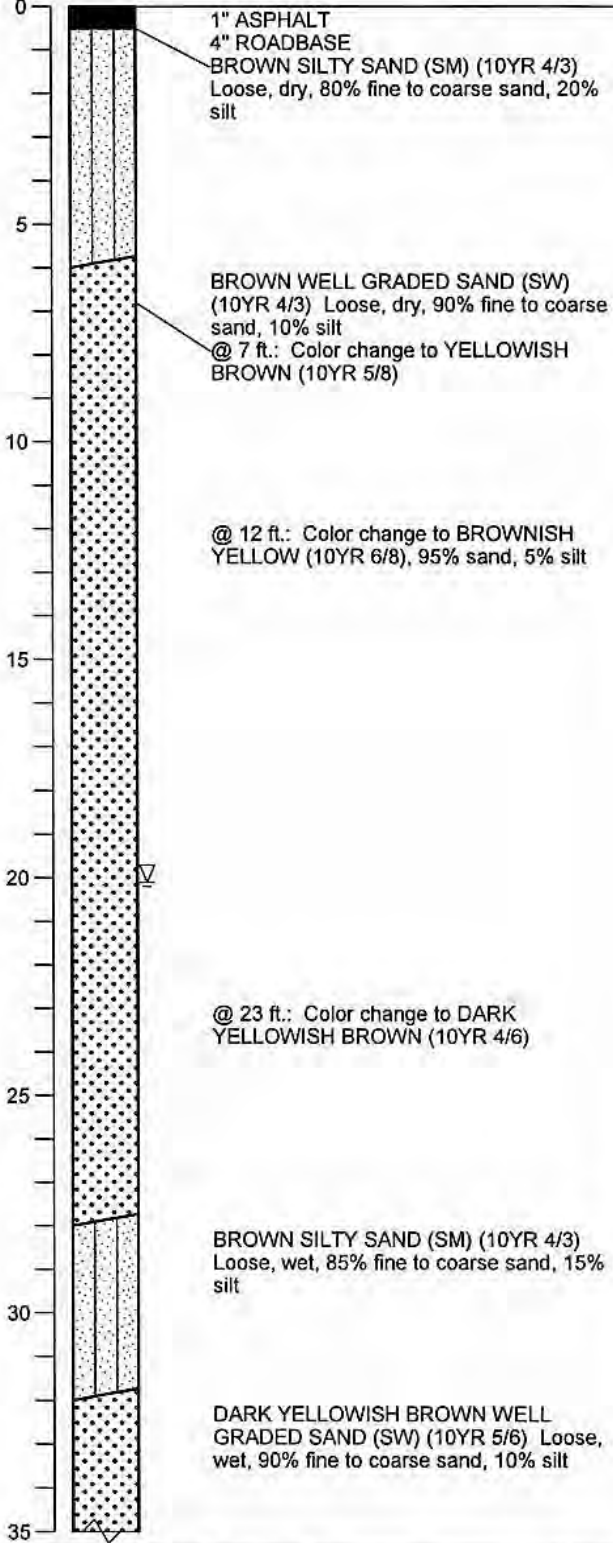
GROUND SURFACE  
 10 in. DIA.  
 BOREHOLE: 0 to  
 59 ft.  
 4 in. DIA. SCHED.  
 80 PVC CASING:  
 0 to 24 ft.

BENTONITE-  
 CEMENT SEAL: 2  
 to 18 ft.

BENTONITE  
 CHIPS: 18 to 21 ft.

Lonestar #3  
 SANDPACK: 21 to  
 54.5 ft.

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-75-A  
 OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A94**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDT/cw</i>	1/05	

Completion Date 8/25/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 32.55 Hole Dia. 10 in.  
 Northing 2145294.5 Easting 5742611.3

Depth (ft.)  
 Sample

4 in. DIA.  
 SLOTTED  
 CASING (0.020"):  
 24 to 54 ft.

HOLE CLEANED  
 OUT to 60 ft.

35

40

45

50

@ 42 ft.: Increase in coarse sand

@ 53 ft.: Driller notes change  
 LIGHT OLIVE-BROWN FAT CLAY WITH  
 SAND (CH) (2.5Y 5/4) Soft, moist, 80%  
 clay, 20% fine sand. Sand may be mixed in  
 from above.  
 Bottom of boring at 54.5 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-75-A  
 OUCTP

PLATE



MACTEC

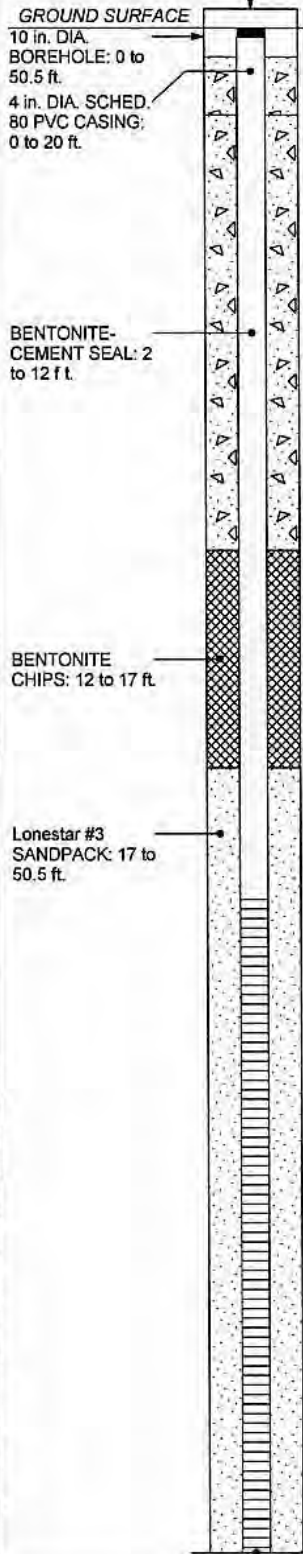
Fort Ord, California

**A94**

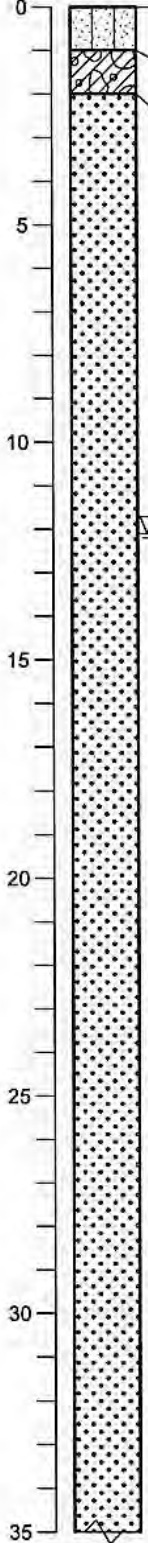
DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MAT/cnr</i>	1/05	

Completion Date 8/24/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 17.25 Hole Dia. 10 in.  
 Northing 2145216.2 Easting 5740686.7

Top of PVC Casing  
 Elev. 16.87 ft.  
 CHRISTY  
 BOX



Depth (ft.)  
 Sample



DARK YELLOWISH BROWN SILTY SAND (SM) (10YR 4/4) Loose, dry, 75% fine to coarse sand, 25% silt  
 GREENISH GRAY SILTY GRAVEL WITH SAND (GC) (10GLY 6/1) Loose, dry, 50% gravel, 30% fine to coarse sand, 20% silt  
 BROWNISH YELLOW WELL GRADED SAND (SW) (10YR 6/6) Loose, dry, 90% fine to coarse sand, 10% silt

@ 12 ft.: Change to LIGHT OLIVE BROWN, wet, increase in coarse sand

@ 20 ft.: Color change to OLIVE-BROWN (2.5Y 4/4)

BORING WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

Well Construction Details and  
 Log of Boring MW-BW-76-A  
 OUCTP

PLATE



MACTEC

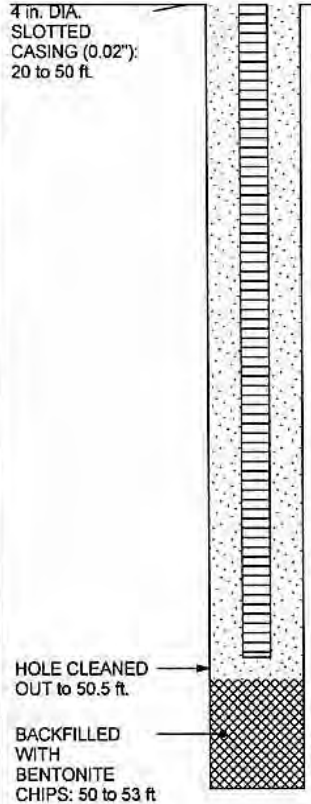
Fort Ord, California

**A95**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>[Signature]</i>	1/05	

Completion Date 8/24/2004  
 Drilling Method Auger  
 Logged by D. Browne  
 Surface Elevation 17.25 Hole Dia. 10 in.  
 Northing 2145216.2 Easting 5740686.7

Depth (ft.)  
Sample



@ 53 ft.: Driller notes change  
 LIGHT OLIVE-BROWN FAT CLAY WITH  
 SAND (CH) (2.5Y 5/6) Soft, moist, 80%  
 clay, 20% fine sand  
 Bottom of boring at 53.5 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring MW-BW-76-A  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A95**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
CN	55596 001701	<i>MDI/cn</i>	1/05	

Top of PVC Casing  
Elev. 187.99 ft.

Completion Date 9/16/2003  
 Drilling Method Hollow Stem Auger  
 Logged by D. Browne  
 Surface Elevation 188.53 ft. Hole Dia. 10 in.  
 Northing 2138479.7 Easting 5748323.1

GROUND SURFACE

Blows/Foot  
Recovery  
(inches)

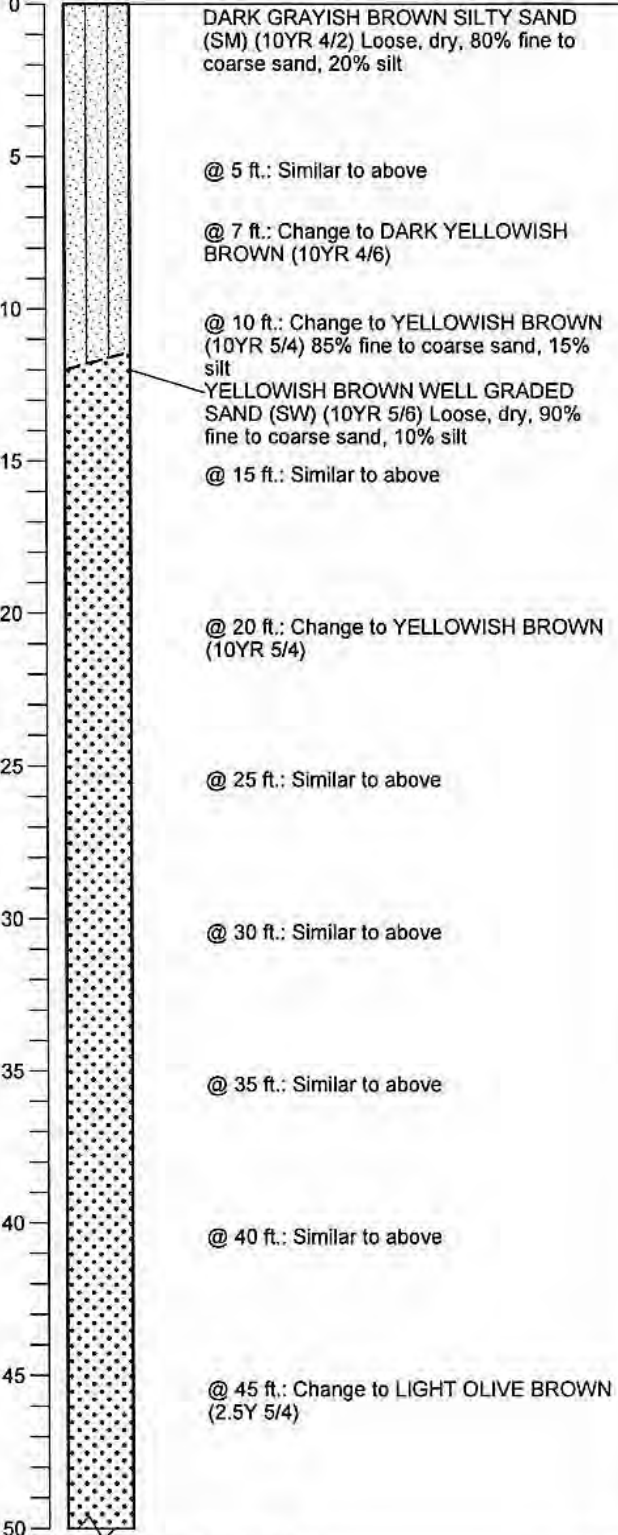
Depth (ft.)  
Sample

TOP OF CASING:  
0.5 ft. above  
ground level

BENTONITE-  
CEMENT SEAL: 0  
to 10 ft.  
10 in. DIAMETER  
BOREHOLE: 0 to  
138 ft.

BENTONITE-  
SLURRY SEAL: 10  
to 101 ft.

3 in. DIAMETER  
PVC SHEDULE 40  
CASING: +0.5 to  
107 ft.



BORING WELL OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
Log of Boring PS-CT-01  
OUCTP

PLATE



Fort Ord, California

**A96**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT/cm*

DATE  
1/05

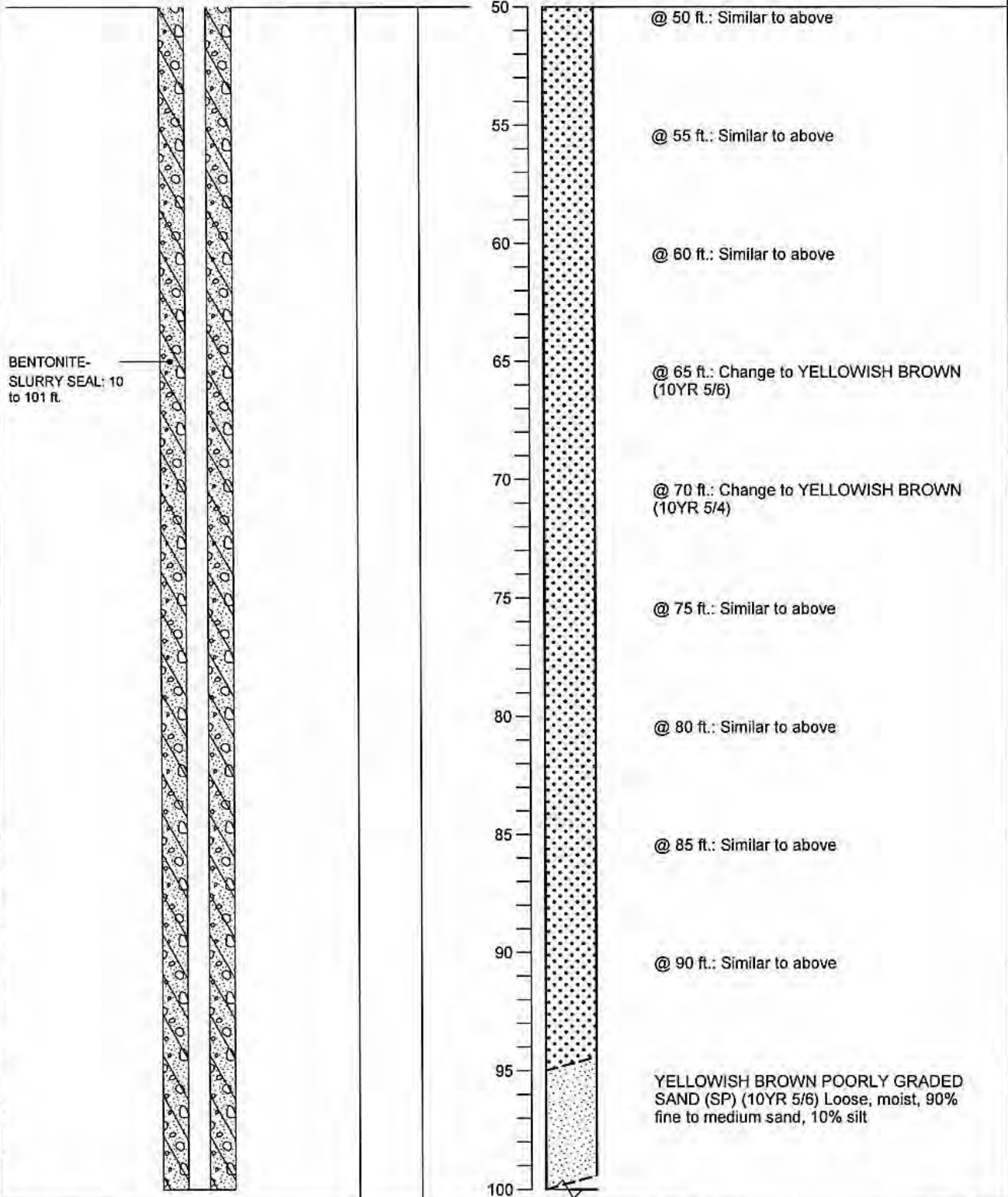
REVISED DATE



Completion Date 9/16/2003  
 Drilling Method Hollow Stem Auger  
 Logged by D. Browne  
 Surface Elevation 188.53 ft. Hole Dia. 10 in.  
 Northing 2138479.7 Easting 5748323.1

Blows/Foot  
 Recovery  
 (inches)

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-01  
 OUCTP

PLATE



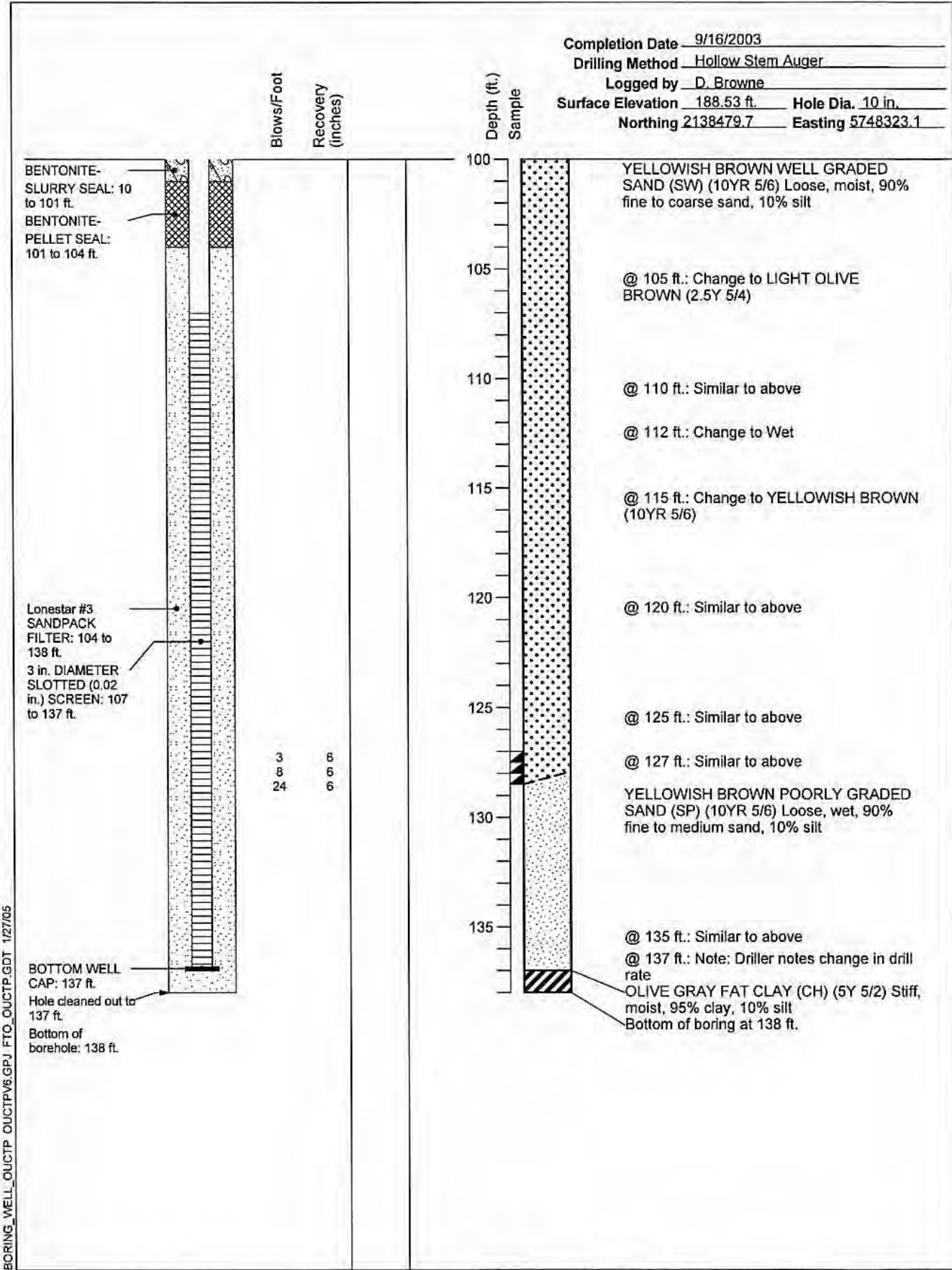
MACTEC

Fort Ord, California

**A96**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MOT/cw</i>	1/05	

Completion Date 9/16/2003  
 Drilling Method Hollow Stem Auger  
 Logged by D. Browne  
 Surface Elevation 188.53 ft. Hole Dia. 10 in.  
 Northing 2138479.7 Easting 5748323.1



BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

BENTONITE-SLURRY SEAL: 10 to 101 ft.  
 BENTONITE-PELLET SEAL: 101 to 104 ft.

Lonestar #3 SANDPACK FILTER: 104 to 138 ft.  
 3 in. DIAMETER SLOTTED (0.02 in.) SCREEN: 107 to 137 ft.

BOTTOM WELL CAP: 137 ft.  
 Hole cleaned out to 137 ft.  
 Bottom of borehole: 138 ft.

3  
8  
24

6  
6  
6

Well Construction Details and Log of Boring PS-CT-01  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A96**

DRAWN MBP	JOB NUMBER 55596 001701	APPROVED <i>MDT/can</i>	DATE 1/05	REVISED DATE
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Completion Date 9/18/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.52 ft. Hole Dia. 10 in.  
 Northing 2138508.7 Easting 5748305.3

Top of PVC Casing  
 Elev. 185.02 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

TOP OF CASING:  
 0.5 ft. below  
 ground level

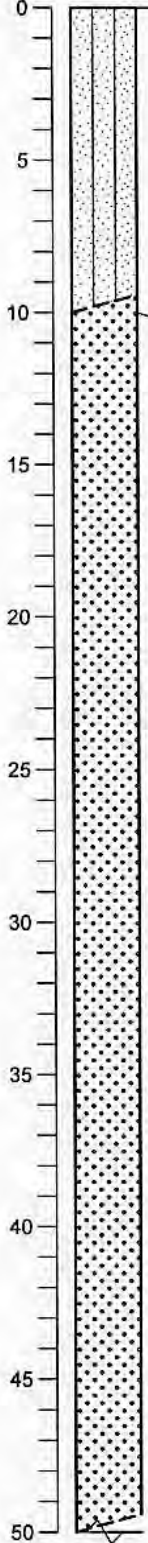
10 in. DIAMETER  
 BOREHOLE: 0 to  
 135 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.

BENTONITE-  
 SLURRY SEAL: 10  
 to 98 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 104 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 80% fine to coarse sand, 20% silt

@ 3 ft.: Similar to above

@ 8 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4) 85% fine to coarse sand, 15% silt  
 DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Change to Increase to medium to coarse sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 40 ft.: Similar to above

@ 45 ft.: Change to Increase in fine sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring PS-CT-02  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A97**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

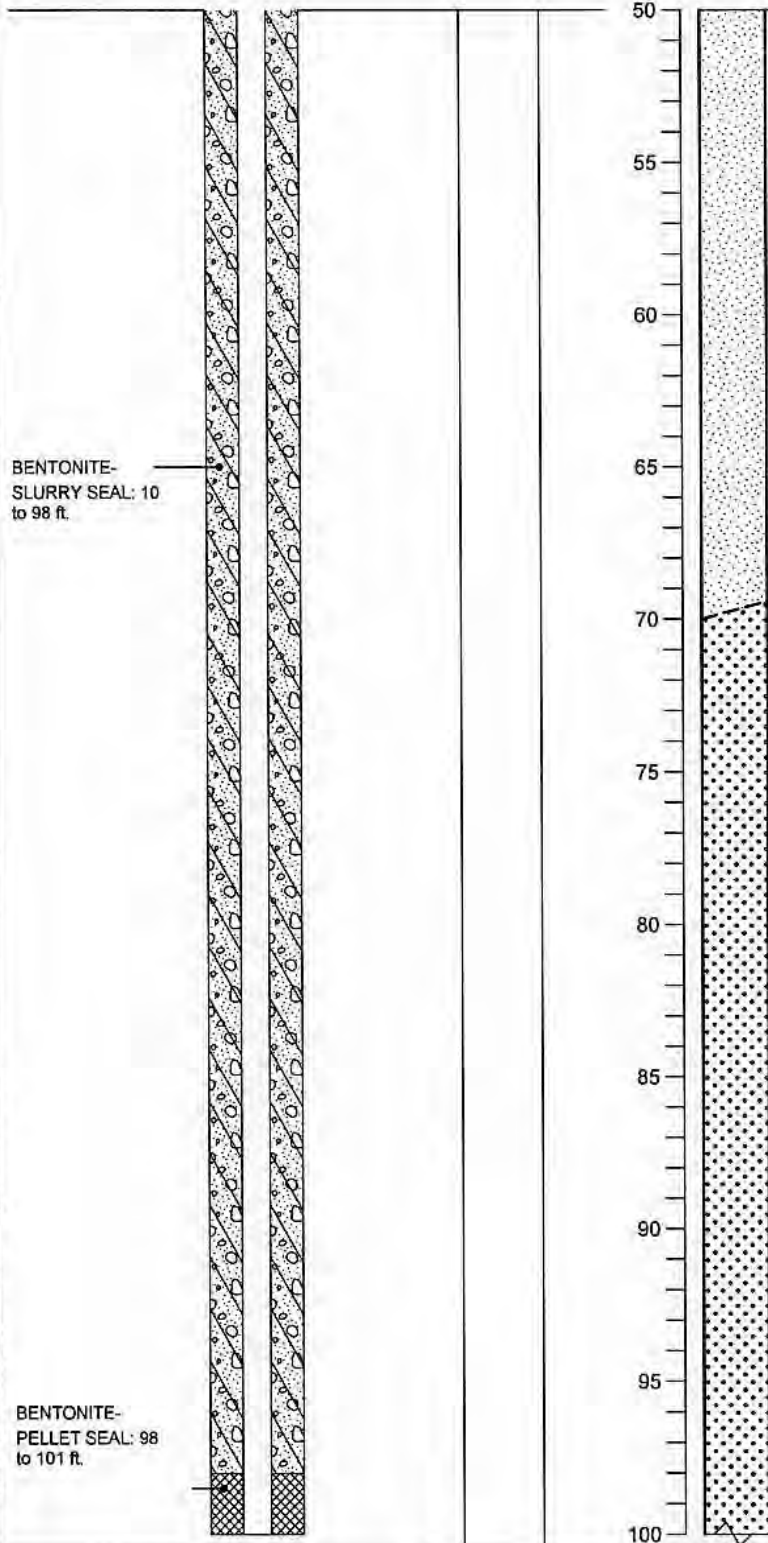
APPROVED  
*MDT / JCB*

DATE  
 1/05

REVISED DATE

Completion Date 9/18/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.52 ft. Hole Dia. 10 in.  
 Northing 2138508.7 Easting 5748305.3

Depth (ft.)  
Sample



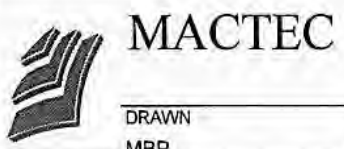
BENTONITE-SLURRY SEAL: 10 to 98 ft.

BENTONITE-PELLET SEAL: 98 to 101 ft.

50 YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt  
 @ 55 ft.: Similar to above  
 60 @ 60 ft.: Similar to above  
 65 @ 65 ft.: Change to Increase in coarse sand  
 70 DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt  
 75 @ 75 ft.: Similar to above  
 80 @ 80 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 85 @ 85 ft.: Change to Increase in fines  
 90 @ 90 ft.: Similar to above  
 95 @ 95 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)  
 100

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-02 PLATE  
OUCTP



Fort Ord, California

**A97**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / JCB</i>	1/05	

Completion Date 9/18/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.52 ft. Hole Dia. 10 in.  
 Northing 2138508.7 Easting 5748305.3

Depth (ft.)  
Sample

BENTONITE-  
PELLET SEAL: 98  
to 101 ft.

Lonestar #3  
SANDPACK  
FILTER: 101 to  
134 ft.  
3 in. DIAMETER  
SLOTTED (0.02  
in.) SCREEN: 104  
to 134 ft.

BOTTOM WELL  
CAP: 134 ft.  
Hole cleaned out to  
135 ft.  
Bottom of  
borehole: 135 ft.



@ 100 ft.: Similar to above

@ 105 ft.: Change to Moist

@ 109 ft.: Change to Wet  
YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR 5/6) Wet, 90% fine to  
medium sand, 10% silt

@ 115 ft.: Change to DARK YELLOWISH  
BROWN (10YR 4/6)

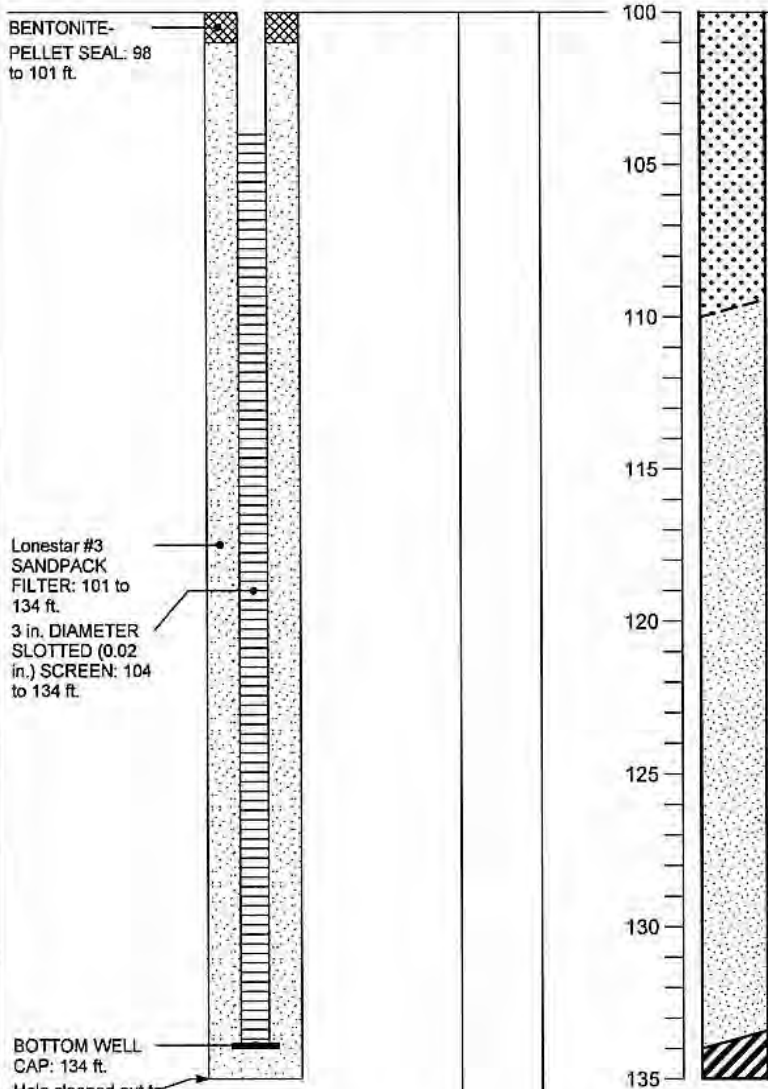
@ 120 ft.: Change to Increase in fine sand

@ 125 ft.: Similar to above

@ 130 ft.: Similar to above

@ 134 ft.: Note: Driller notes drop in drilling  
speed  
OLIVE BROWN FAT CLAY WITH SAND  
(CH) (2.5Y 4/4) Wet, 70% fat clay, 20% fine  
sand, 10% silt  
Bottom of borehole at 135 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05



Well Construction Details and  
Log of Boring PS-CT-02  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A97**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / JWB*

DATE  
1/05

REVISED DATE



Completion Date 9/19/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.11 ft. Hole Dia. 10 in.  
 Northing 2138512.1 Easting 5748335.5

Top of PVC Casing  
 Elev. 186.47 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

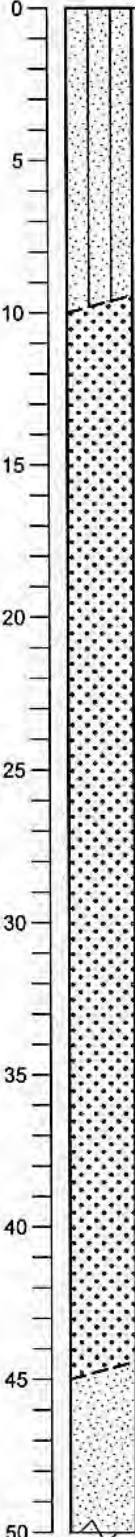
TOP OF CASING:  
 0.5 ft. below  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 136 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.  
 BENTONITE-  
 SLURRY SEAL: 10  
 to 100 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 105 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to coarse sand, 30% silt

@ 5 ft.: Similar to above  
 @ 6 ft.: Change to 85% sand, 15% silt  
 @ 7 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 25 ft.: Change to Increase in fine sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

@ 40 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% sand, 10% silt

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and Log of Boring PS-CT-03**

PLATE



**MACTEC**

OUCTP

Fort Ord, California

**A98**

DRAWN  
MBP

JOB NUMBER  
55596 001701

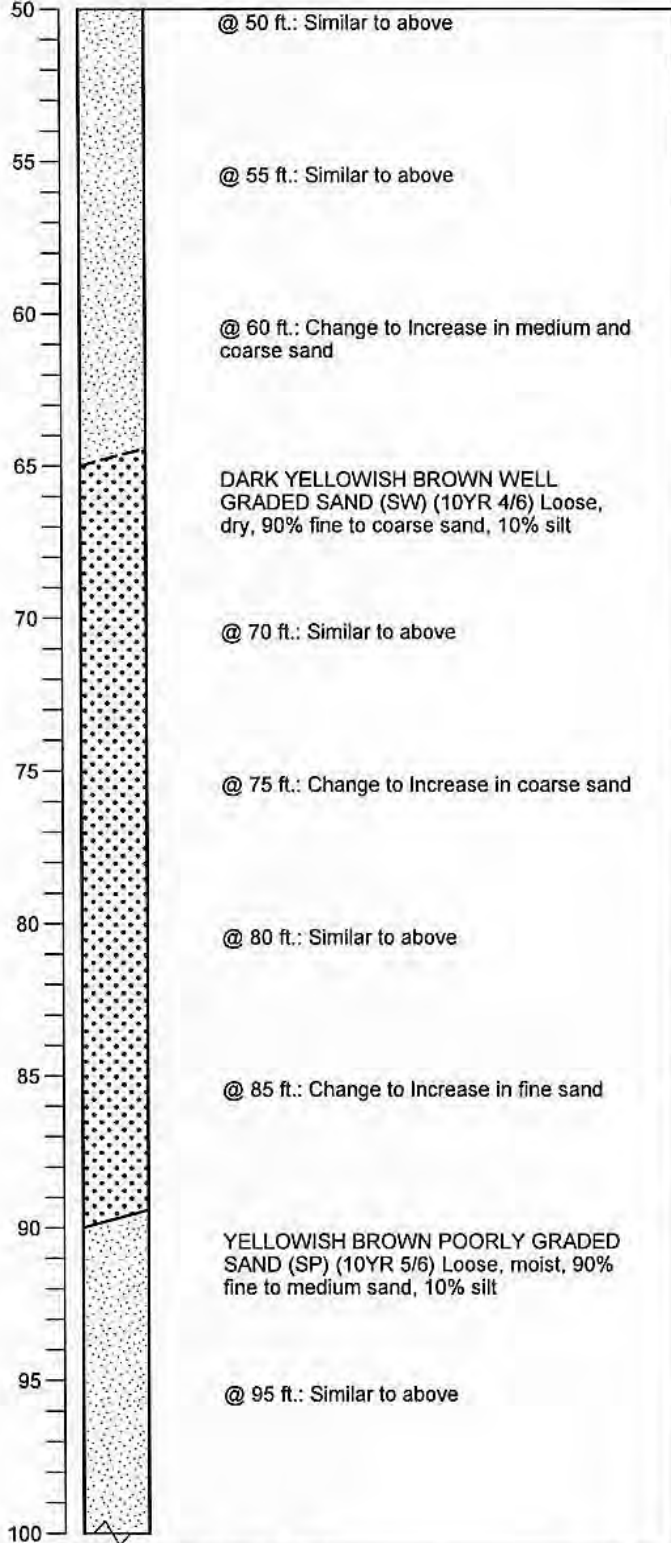
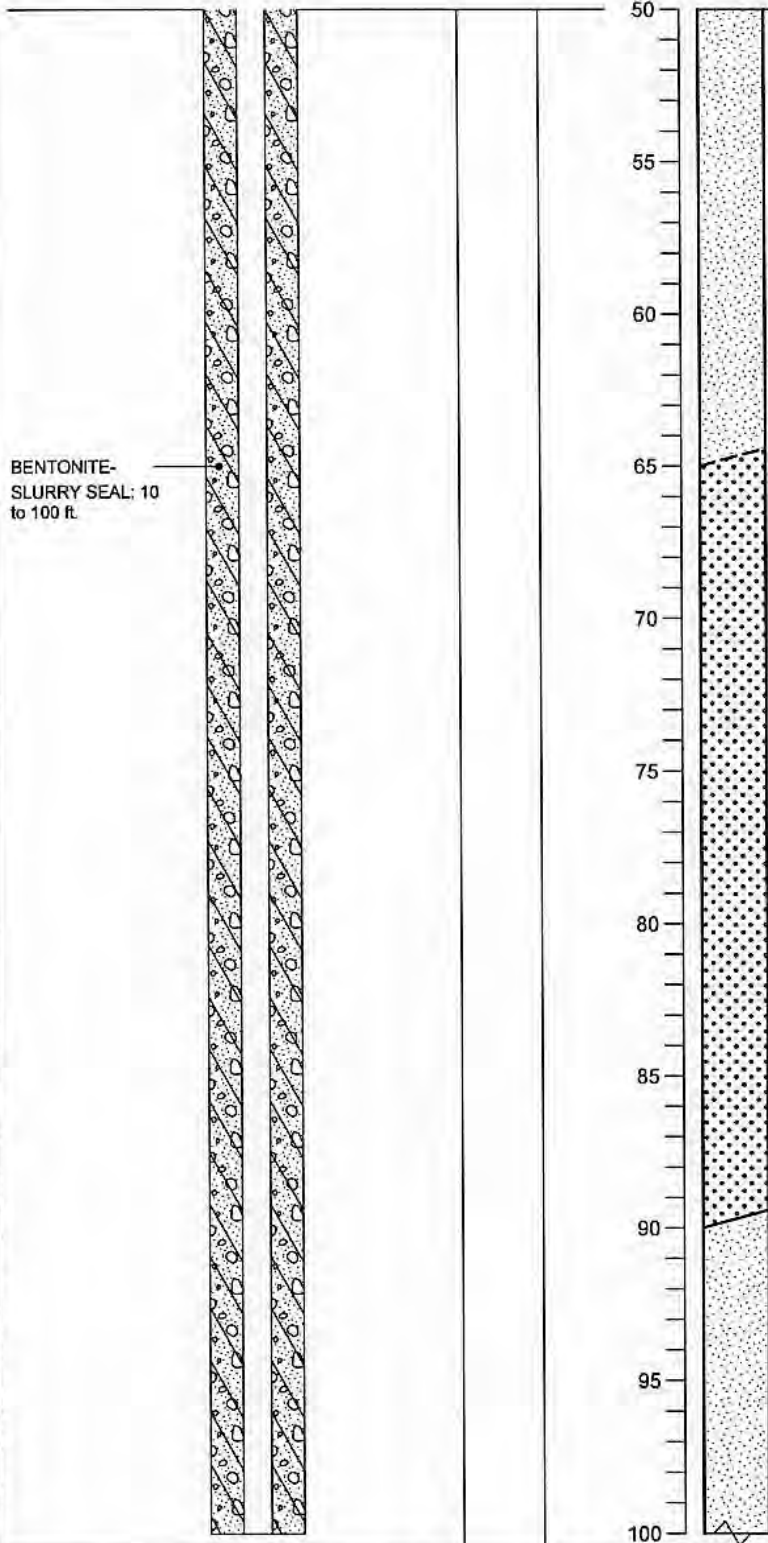
APPROVED  
*MDT/CM*

DATE  
1/05

REVISED DATE

Completion Date 9/19/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.11 ft. Hole Dia. 10 in.  
 Northing 2138512.1 Easting 5748335.5

Depth (ft.)  
Sample



BORING WELL OUCTP OUCTPV6.GPJ FTO OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring PS-CT-03  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A98**

DRAWN  
MBP

JOB NUMBER  
55596 001701

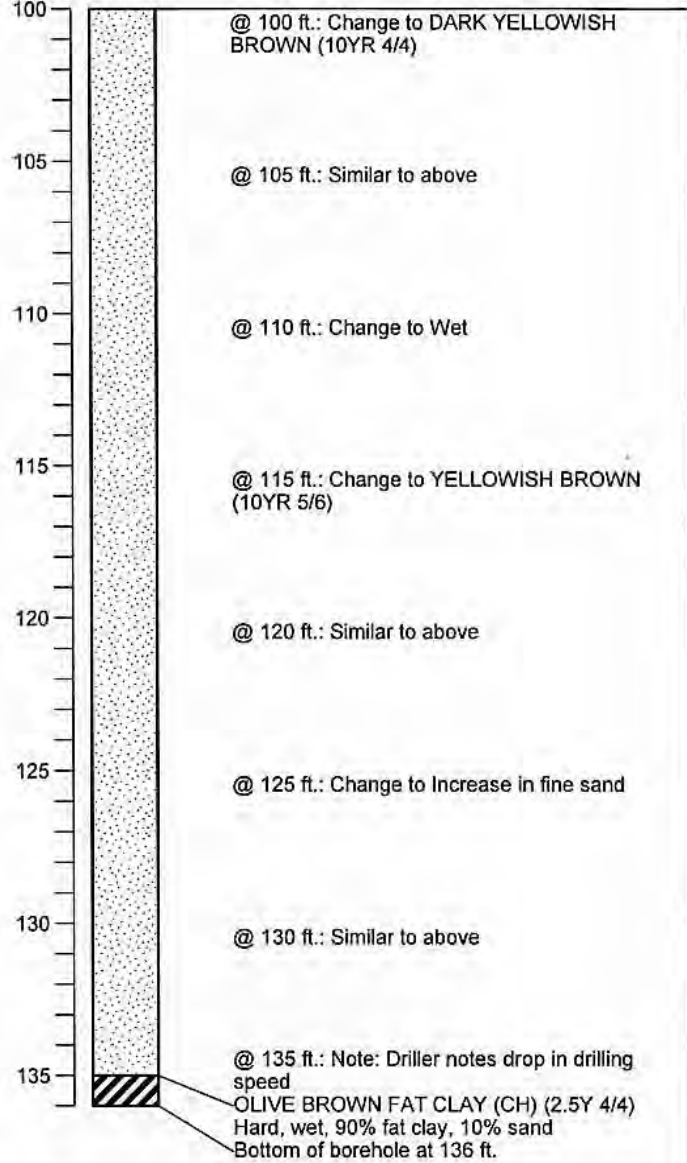
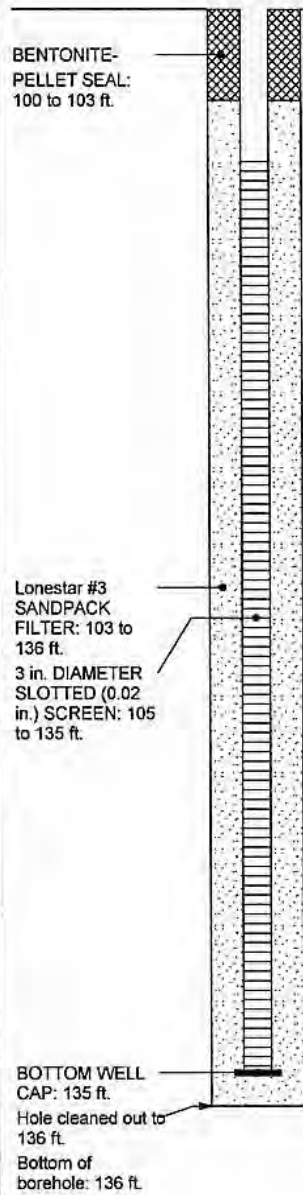
APPROVED  
*MDT / cw*

DATE  
1/05

REVISED DATE

Completion Date 9/19/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.11 ft. Hole Dia. 10 in.  
 Northing 2138512.1 Easting 5748335.5

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-03  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A98**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MBT / JCB</i>	1/05	

Completion Date 9/29/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.52 ft. Hole Dia. 10 in.  
 Northing 2138530.8 Easting 5748302.6

Top of PVC Casing  
 Elev. 184.11 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

TOP OF CASING:  
 0.5 ft. below  
 ground level

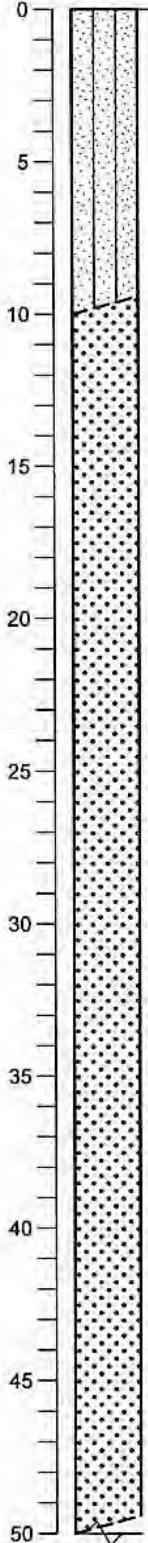
10 in. DIAMETER  
 BOREHOLE: 0 to  
 134 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.

BENTONITE-  
 SLURRY SEAL: 10  
 to 97 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 103 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to coarse sand, 30% silt

@ 5 ft.: Similar to above

@ 7 ft.: Change to Decrease in silt

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 25 ft.: Change to Decrease in fine sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to DARK YELLOWISH BROWN (10YR 4/4)

@ 40 ft.: Similar to above

@ 45 ft.: Change to Increase in fine sand

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring PS-CT-04  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A99**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

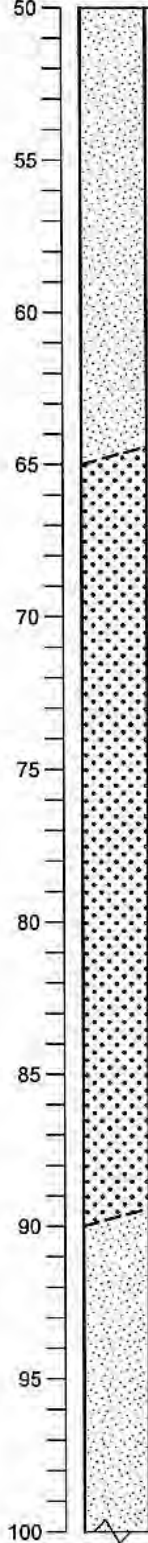
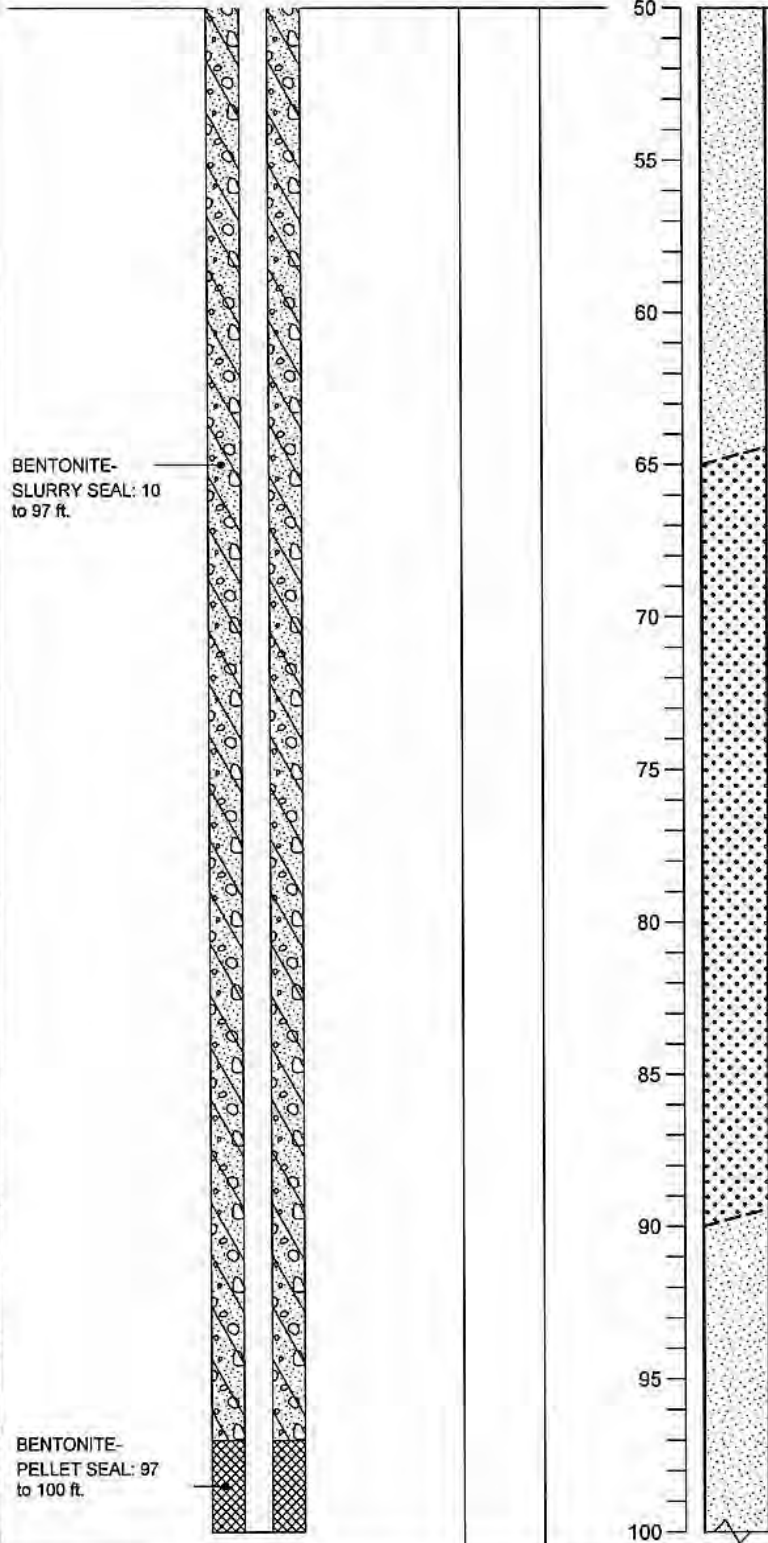
APPROVED  
 MDT/cwr

DATE  
 1/05

REVISED DATE

Completion Date 9/29/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.52 ft. Hole Dia. 10 in.  
 Northing 2138530.8 Easting 5748302.6

Depth (ft.)  
 Sample



YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine sand, 10% silt

@ 55 ft.: Similar to above

@ 60 ft.: Change to STRONG BROWN (7.5YR 5/6)

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/6) Loose, moist, 90% fine to medium sand, 10% silt

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

@ 80 ft.: Similar to above

@ 85 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, moist, 90% fine to medium sand, 10% silt

@ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

BENTONITE-SLURRY SEAL: 10 to 97 ft.

BENTONITE-PELLET SEAL: 97 to 100 ft.

Well Construction Details and Log of Boring PS-CT-04  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A99**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MBP / cm*

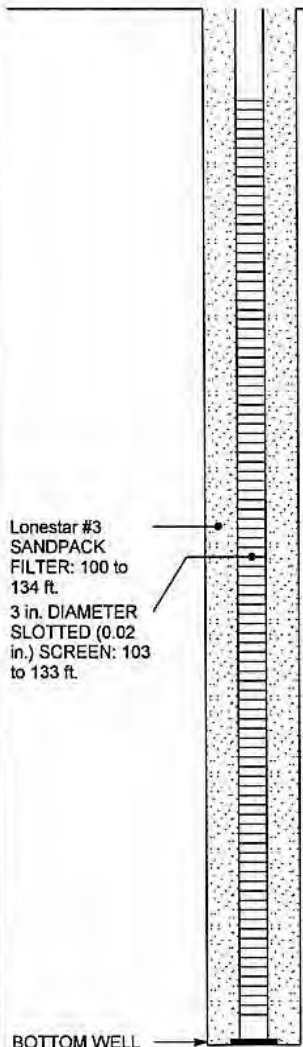
DATE  
 1/05

REVISED DATE

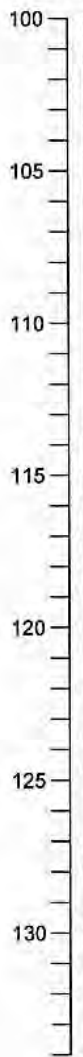


Completion Date 9/29/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.52 ft. Hole Dia. 10 in.  
 Northing 2138530.8 Easting 5748302.6

Depth (ft.)  
 Sample



BOTTOM WELL CAP: 134 ft.  
 Hole cleaned out to 134 ft.  
 Bottom of borehole: 134 ft.



@ 100 ft.: Similar to above  
 @ 105 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)  
 @ 110 ft.: Change to Wet  
 @ 115 ft.: Similar to above  
 @ 120 ft.: Change to Increase in fine sand  
 @ 125 ft.: Similar to above  
 @ 130 ft.: Similar to above  
 @ 133.5 ft.: Note: Driller notes drop in drilling speed  
 OLIVE BROWN FAT CLAY (CH) (2.5Y 4/4)  
 Hard, wet, 90% fat clay, 10% fine sand  
 Bottom of boring at 134 ft.

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-04  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A99**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / JCB</i>	1/05	

Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.95 ft. Hole Dia. 10 in.  
 Northing 2138521.7 Easting 5748319.3

Top of PVC Casing  
 Elev. 185.42 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

TOP OF CASING:  
 0.5 ft. below  
 ground level

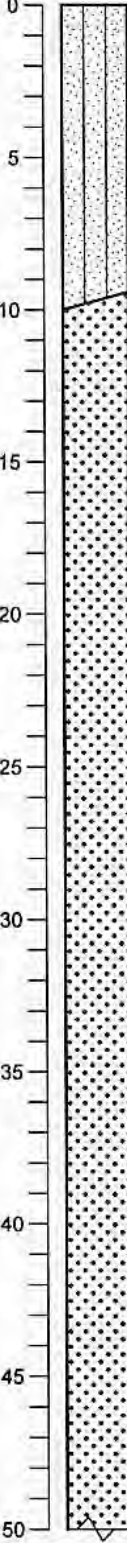
10 in. DIAMETER  
 BOREHOLE:  
 0 to 135.5 ft.

BENTONITE-  
 CEMENT SEAL:  
 0 to 10 ft.

BENTONITE-  
 SLURRY SEAL:  
 10 to 99 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 105 ft.

Depth (ft.)  
 Sample



VERY DARK GRAYISH BROWN SILTY  
 SAND (SM) ( ) Loose, dry, 70% fine  
 sand, 25% silt, 5% clay

@ 5 ft.: Change to DARK BROWN (10YR  
 3/3)

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 3/4) Loose,  
 dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Similar to above

@ 30 ft.: Change to Increase in coarse sand

@ 35 ft.: Similar to above

@ 40 ft.: Change to Decrease in coarse  
 sand

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring PS-CT-05  
 OUCTP

PLATE



Fort Ord, California

**A100**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

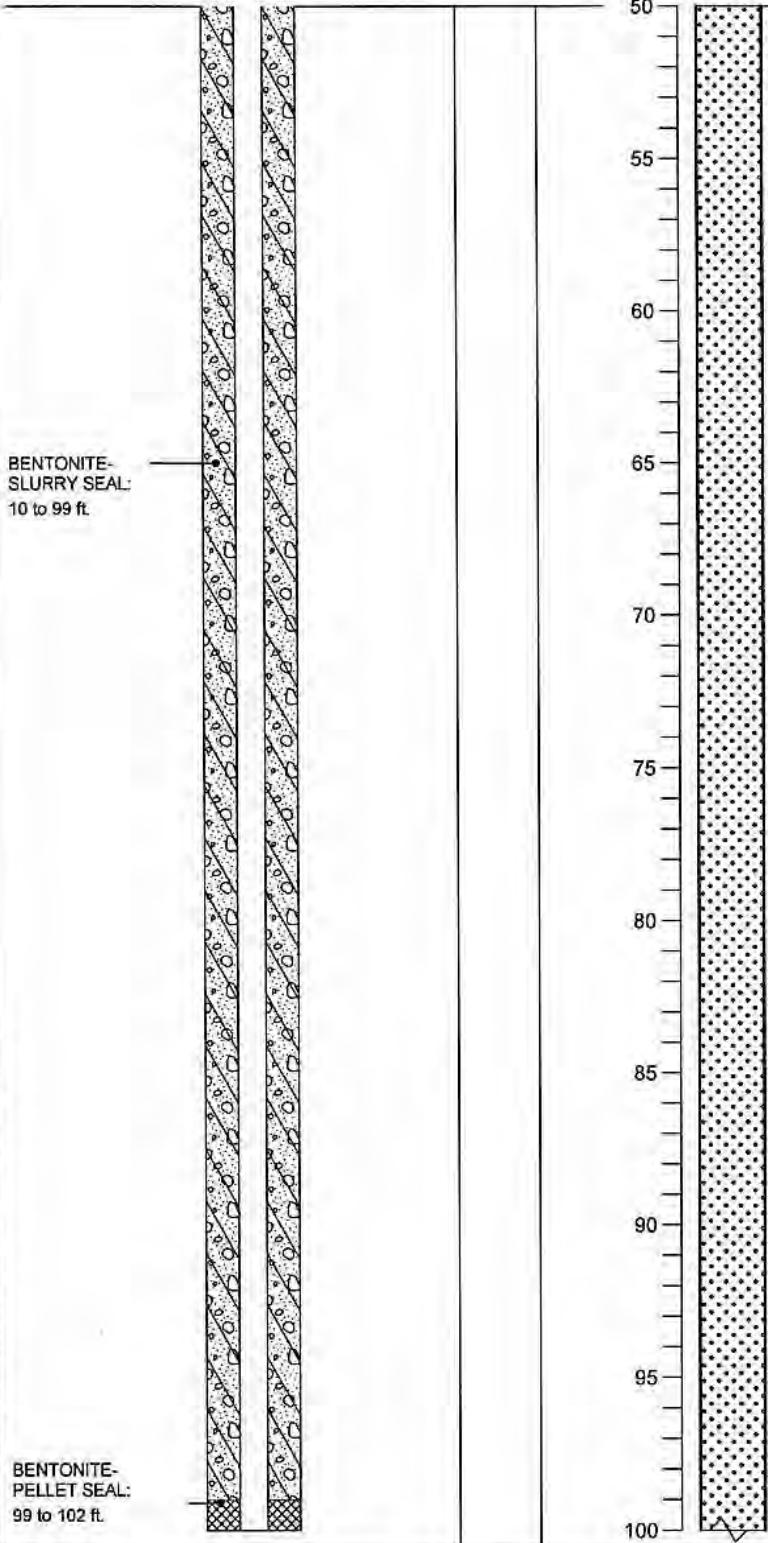
APPROVED  
*MDT / cm*

DATE  
 1/05

REVISED DATE

Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.95 ft. Hole Dia. 10 in.  
 Northing 2138521.7 Easting 5748319.3

Depth (ft.)  
Sample



@ 50 ft.: Similar to above  
 @ 55 ft.: Change to Increase in coarse sand  
 @ 60 ft.: Change to STONEY BROWN (YR 5/6)  
 @ 70 ft.: Similar to above  
 @ 75 ft.: Change to YELLOWISH BROWN (10YR 5/6)  
 @ 80 ft.: Change to Decrease in coarse sand  
 @ 85 ft.: Similar to above  
 @ 90 ft.: Similar to above  
 @ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-05  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A100**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT / cur	1/05	

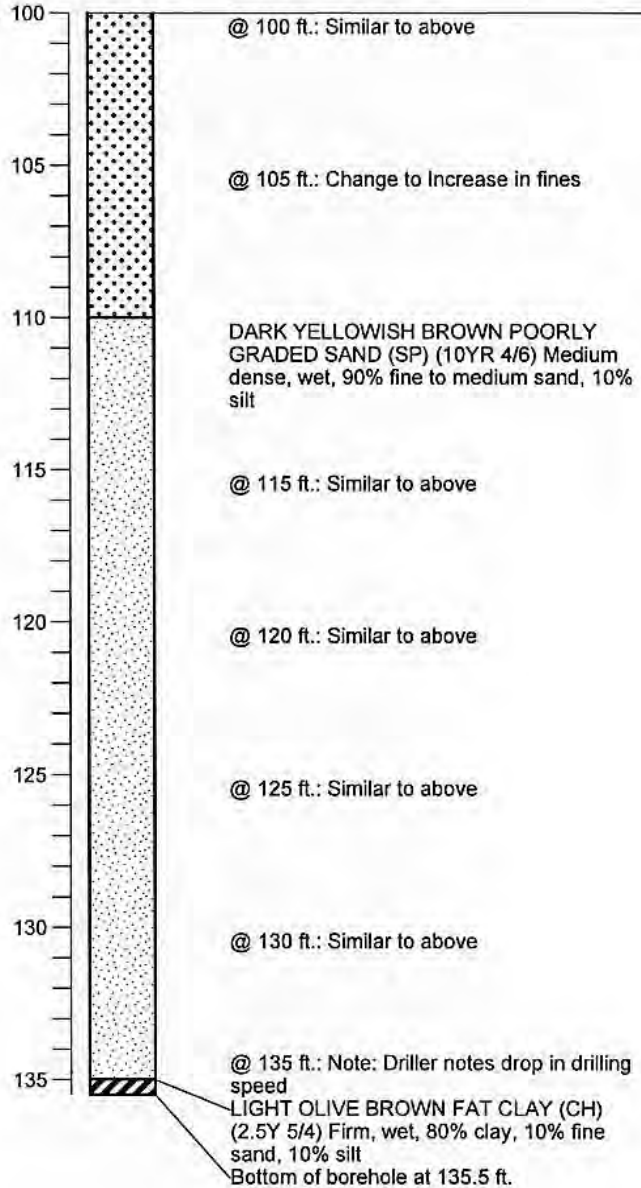
Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.95 ft. Hole Dia. 10 in.  
 Northing 2138521.7 Easting 5748319.3

Depth (ft.)  
Sample

BENTONITE-  
PELLET SEAL:  
99 to 102 ft.

Lonestar #3  
SANDPACK  
FILTER:  
102 to 135.5 ft.  
3 in. DIAMETER  
SLOTTED (0.02  
in.) SCREEN:  
105 to 135 ft.

BOTTOM WELL  
CAP: 135.5 ft.  
Hole cleaned out to  
135.5 ft.  
Bottom of  
borehole: 135.5 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
Log of Boring PS-CT-05  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A100**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	MDT/cwr	1/05	

Completion Date 9/23/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.21 ft. Hole Dia. 10 in.  
 Northing 2138530.4 Easting 5748333.1

Top of PVC Casing  
 Elev. 186.69 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

TOP OF CASING:  
 0.5 ft. below  
 ground level

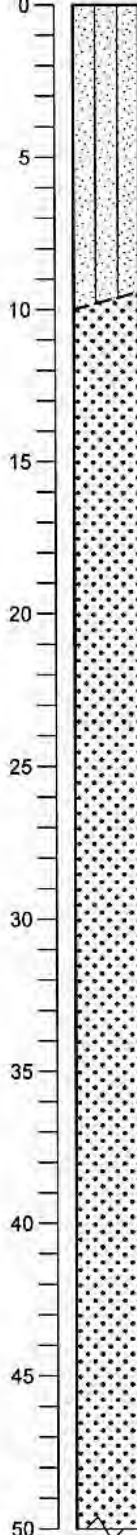
10 in. DIAMETER  
 BOREHOLE: 0 to  
 137 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.

BENTONITE-  
 SLURRY SEAL: 10  
 to 100.5 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 106.5 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to medium sand, 30% silt

@ 5 ft.: Change to DARK YELLOWISH BROWN ( )

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/6) Loose, dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Similar to above

@ 25 ft.: Change to Decrease in coarse sand

@ 30 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
 Log of Boring PS-CT-06  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A101**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

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*MDT / em*

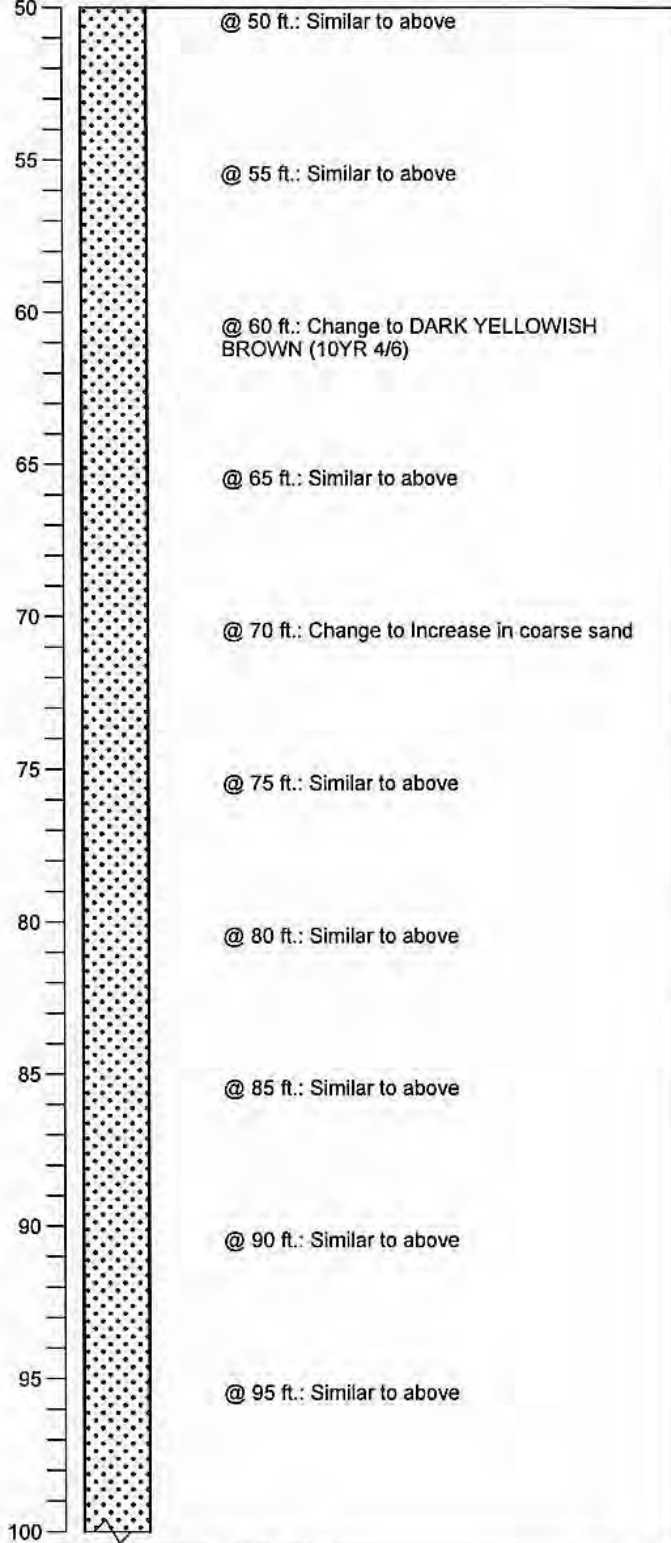
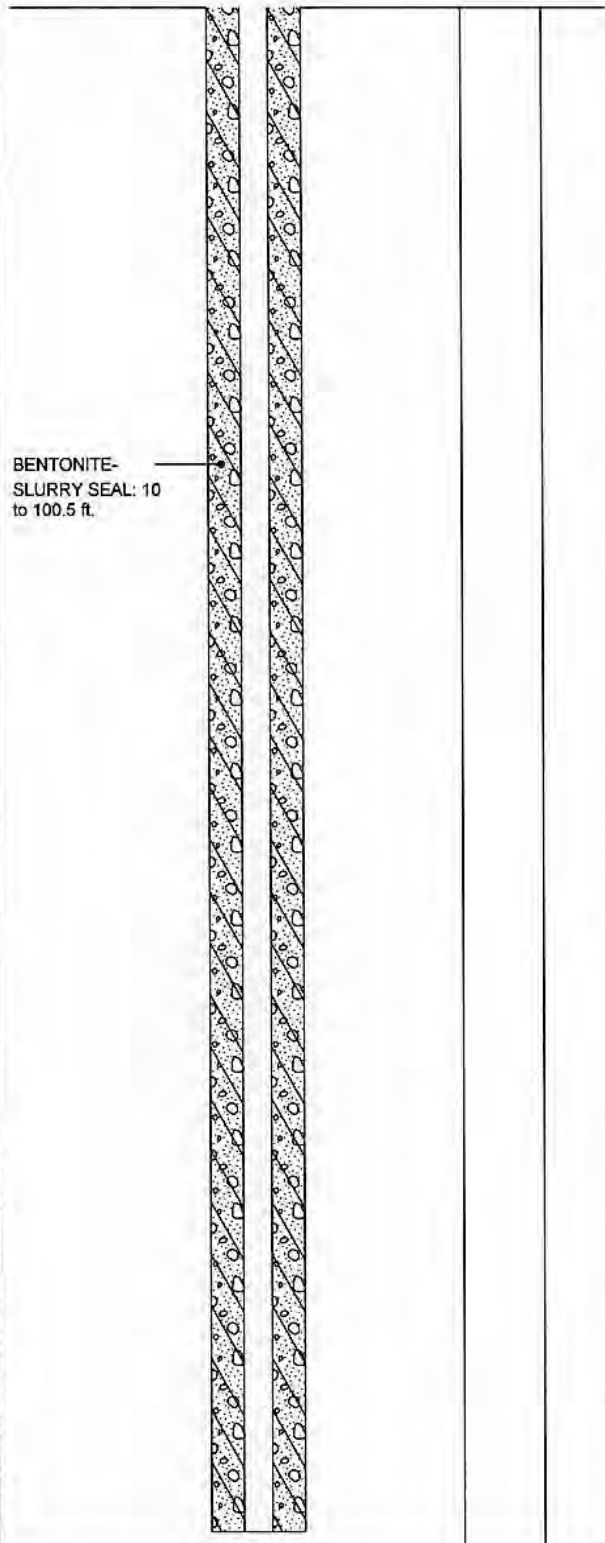
DATE  
 1/05

REVISED DATE



Completion Date 9/23/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.21 ft. Hole Dia. 10 in.  
 Northing 2138530.4 Easting 5748333.1

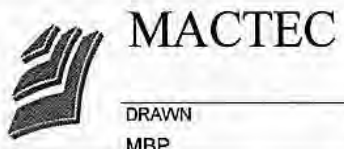
Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

Well Construction Details and Log of Boring PS-CT-06  
 OUCTP

PLATE



Fort Ord, California

**A101**

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
MBP	55596 001701	<i>MDT / car</i>	1/05	

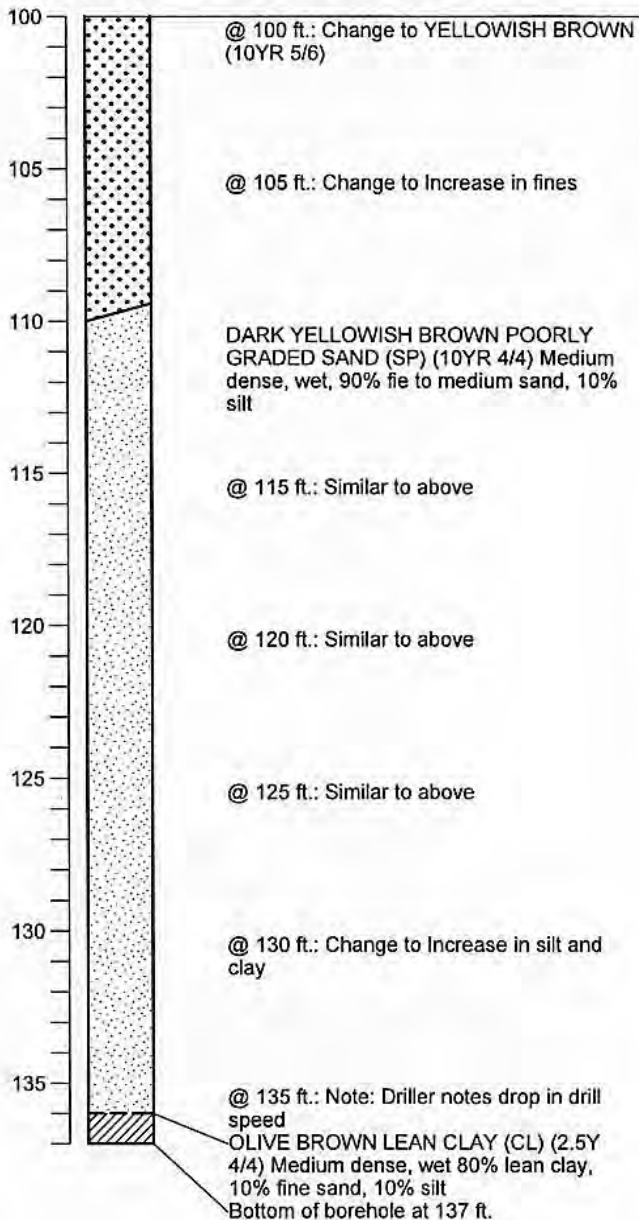
Completion Date 9/23/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 187.21 ft. Hole Dia. 10 in.  
 Northing 2138530.4 Easting 5748333.1

Depth (ft.)  
 Sample

BENTONITE-  
 PELLET SEAL:  
 100.5 to 103.5 ft.

Lonestar #3  
 SANDPACK  
 FILTER: 103.5 to  
 137 ft.  
 3 in. DIAMETER  
 SLOTTED (0.02  
 in.) SCREEN:  
 106.5 to 136.5 ft.

End cap to bottom  
 of screen: 6 in.  
 BOTTOM WELL  
 CAP: 137 ft.  
 Hole cleaned out to  
 137 ft.  
 Bottom of  
 borehole: 137 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1127105

Well Construction Details and  
 Log of Boring PS-CT-06  
 OUCTP

PLATE



MACTEC

Fort Ord, California

**A101**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

APPROVED  
*MDT / car*

DATE  
 1/05

REVISED DATE

Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.13 ft. Hole Dia. 10 in.  
 Northing 2138551.8 Easting 5748302.5

Top of PVC Casing  
 Elev. 183.72 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

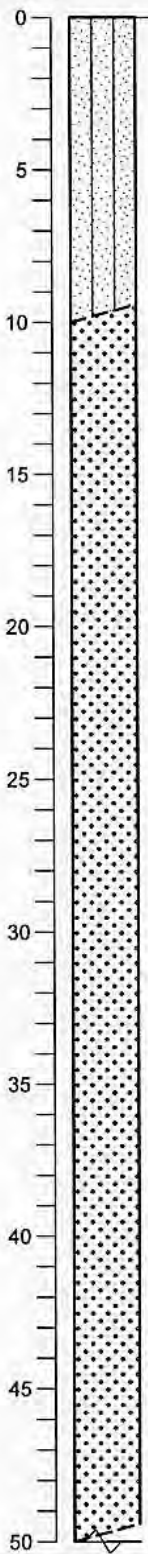
TOP OF CASING:  
 0.5 ft. below  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 132.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.  
 BENTONITE-  
 SLURRY SEAL: 10  
 to 96 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 102 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 80% sand, 20% silt

@ 5 ft.: Similar to above

@ 7 ft.: Change to Decrease in silt

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 4/6) Loose,  
 dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Change to Increase in fine sand

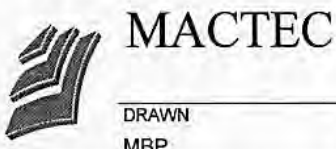
@ 30 ft.: Similar to above

@ 35 ft.: Similar to above

@ 40 ft.: Similar to above

@ 45 ft.: Change to Increase in fines

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05



JOB NUMBER  
55596 001701

Well Construction Details and  
 Log of Boring PS-CT-07  
 OUCTP

Fort Ord, California

APPROVED  
*MDT / car*

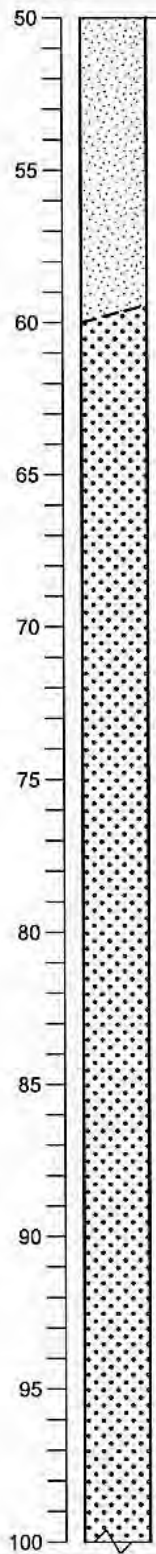
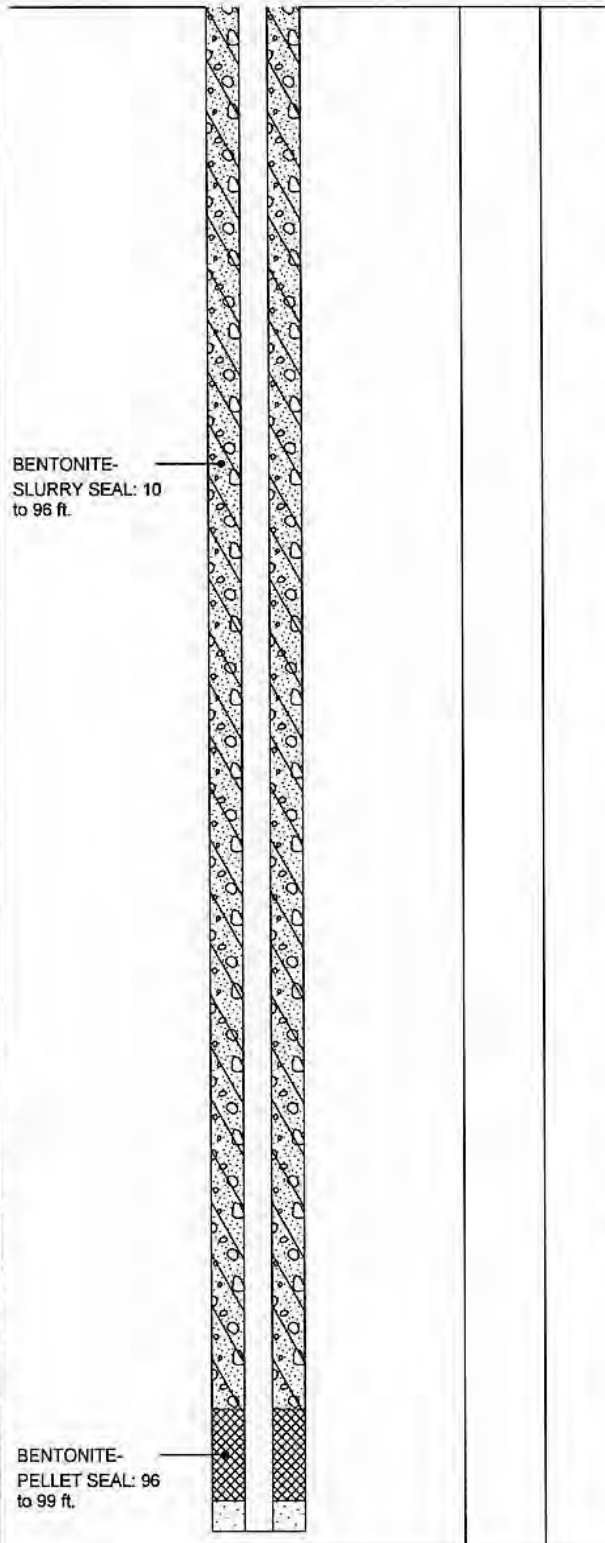
DATE  
1/05

PLATE  
**A102**

REVISED DATE

Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.13 ft. Hole Dia. 10 in.  
 Northing 2138551.8 Easting 5748302.5

Depth (ft.)  
Sample



YELLOWISH BROWN POORLY GRADED SAND (SP) (10YR 5/6) Loose, dry, 90% fine to medium sand, 10% silt

@ 55 ft.: Similar to above

STRONG BROWN WELL GRADED SAND (SW) (7.5YR 5/6) Loose, moist, 90% fine to medium sand, 10% silt

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Change to DARK YELLOWISH BROWN (10YR 4/6)

@ 80 ft.: Change to Increase in coarse sand

@ 85 ft.: Similar to above

@ 90 ft.: Similar to above

@ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 1/27/05

BENTONITE-SLURRY SEAL: 10 to 96 ft.

BENTONITE-PELLET SEAL: 96 to 99 ft.

Well Construction Details and Log of Boring PS-CT-07  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A102**

DRAWN  
MBP

JOB NUMBER  
55596 001701

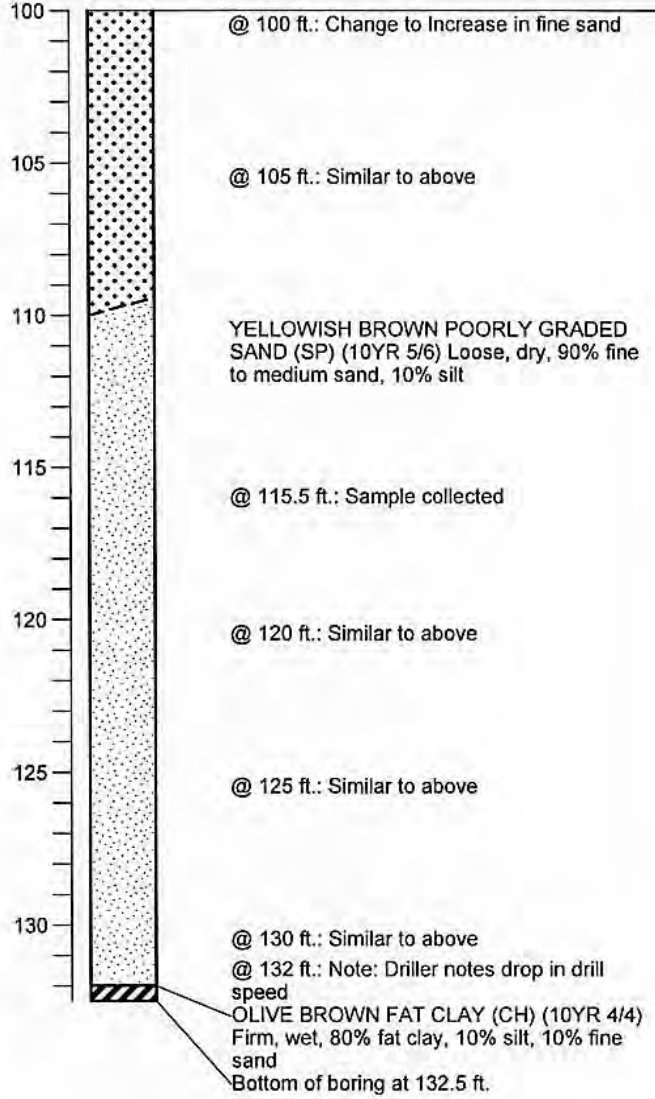
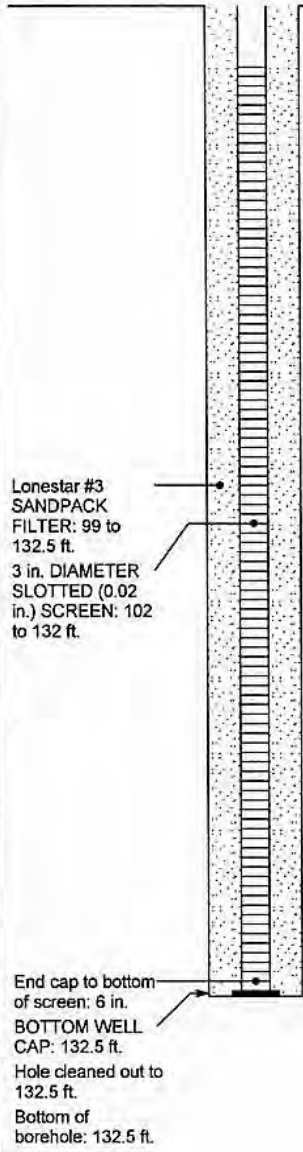
APPROVED  
*MDT / cm*

DATE  
1/05

REVISED DATE

Completion Date 9/25/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 184.13 ft. Hole Dia. 10 in.  
 Northing 2138551.8 Easting 5748302.5

Depth (ft.)  
Sample



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**Well Construction Details and Log of Boring PS-CT-07**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A102**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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*MDT/Kan*

DATE  
1/05

REVISED DATE



Completion Date 9/24/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.64 ft. Hole Dia. 10 in.  
 Northing 2138539.6 Easting 5748317.4

Top of PVC Casing  
 Elev. 185.25 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

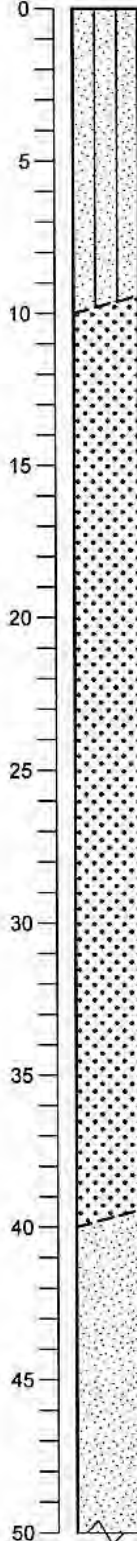
TOP OF CASING:  
 0.5 ft. below  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 135 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.  
 BENTONITE-  
 SLURRY SEAL: 10  
 to 98.5 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 104.5 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to medium sand, 30% silt

@ 5 ft.: Change to Decrease in silt

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 3/4) Loose,  
 dry, 90% sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Similar to above

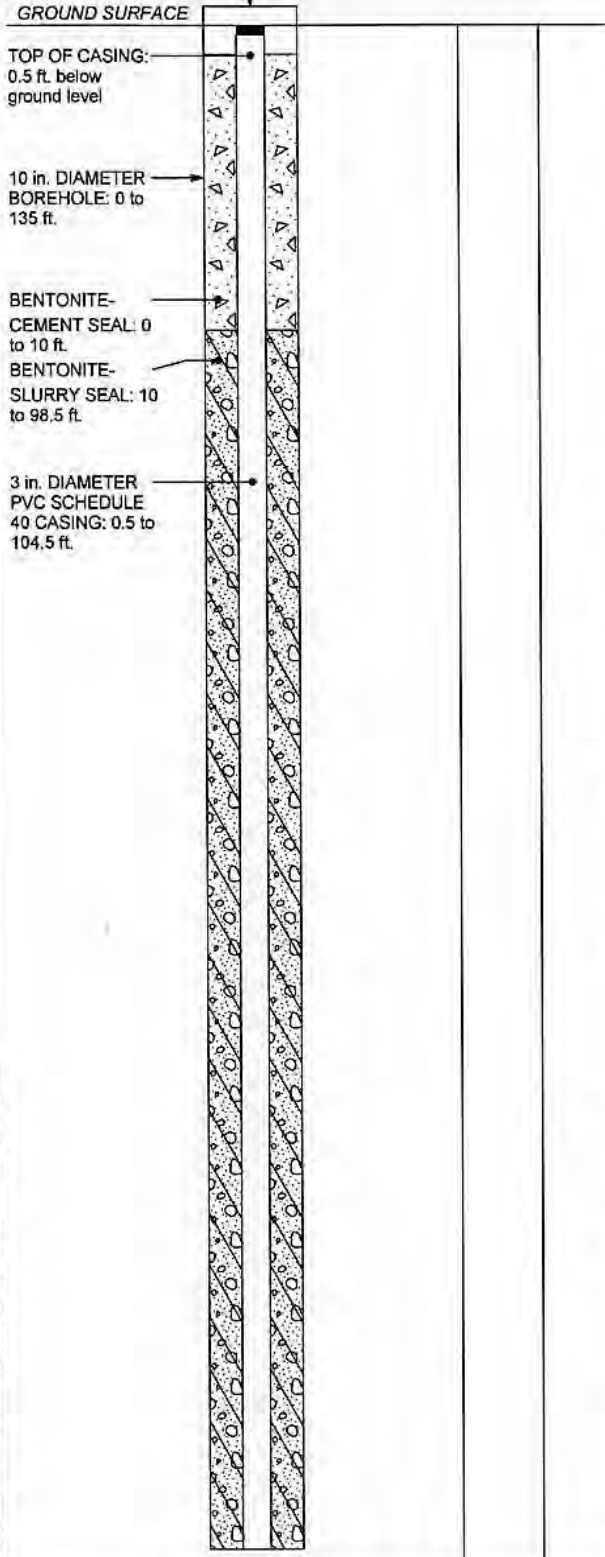
@ 30 ft.: Similar to above

@ 35 ft.: Change to Increase in fines

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 90% fine  
 to medium sand, 10% silt

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTD\_OUCTP.GDT\_1/27/05



**Well Construction Details and  
 Log of Boring PS-CT-08**

PLATE



**MACTEC**

Fort Ord, California

**A103**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

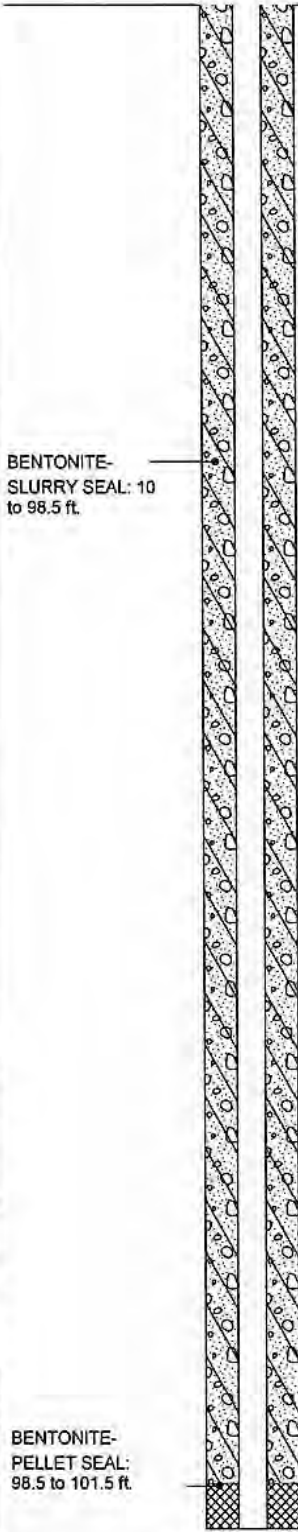
APPROVED  
*MDT/Car*

DATE  
 1/05

REVISED DATE

Completion Date 9/24/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.64 ft. Hole Dia. 10 in.  
 Northing 2138539.6 Easting 5748317.4

Depth (ft.)  
Sample



BENTONITE-SLURRY SEAL: 10 to 98.5 ft.

BENTONITE-PELLET SEAL: 98.5 to 101.5 ft.

50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100

@ 50 ft.: Similar to above  
 @ 55 ft.: Similar to above  
 @ 60 ft.: Change to Increase in coarse sand  
 DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 3/4) Loose, dry, 90% sand, 10% silt  
 @ 70 ft.: Similar to above  
 @ 75 ft.: Similar to above  
 @ 80 ft.: Similar to above  
 @ 85 ft.: Similar to above  
 @ 90 ft.: Similar to above  
 @ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV8.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**Well Construction Details and Log of Boring PS-CT-08**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A103**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MOT / cu*

DATE  
1/05

REVISED DATE

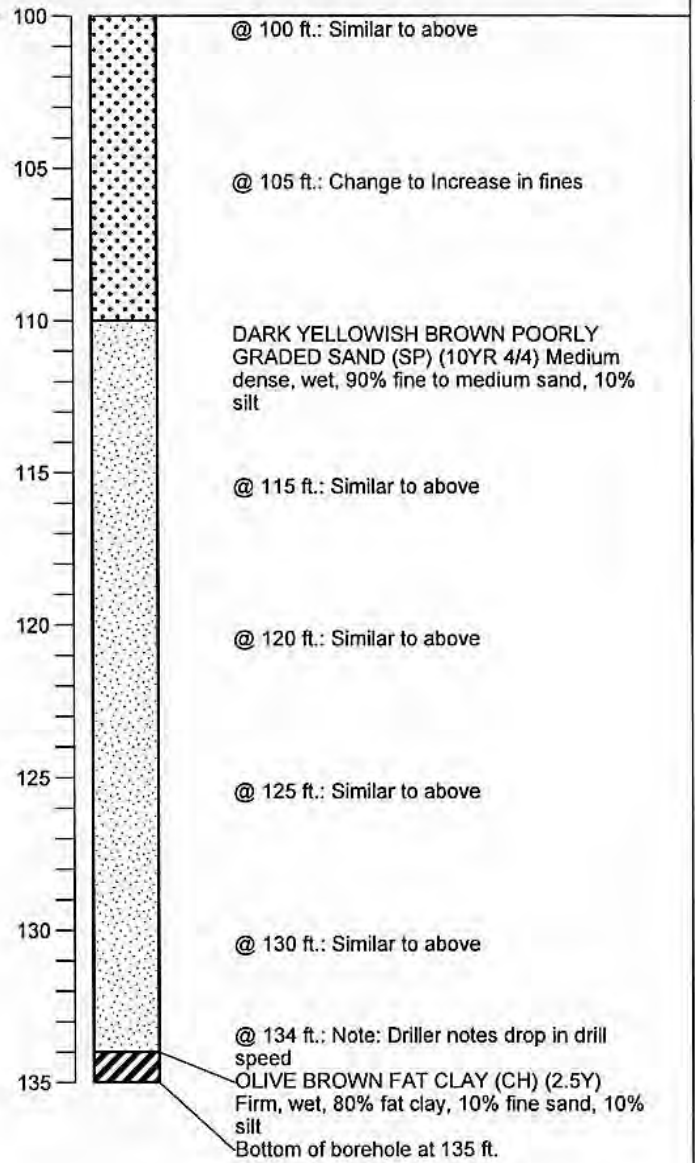
Completion Date 9/24/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 185.64 ft. Hole Dia. 10 in.  
 Northing 2138539.6 Easting 5748317.4

Depth (ft.)  
Sample

BENTONITE-  
PELLET SEAL:  
98.5 to 101.5 ft.

Lonestar #3  
SANDPACK  
FILTER: 101.5 to  
135 ft.  
3 in. DIAMETER  
SLOTTED (0.02  
in.) SCREEN:  
104.5 to 134.5 ft.

BOTTOM WELL  
CAP: 135 ft.  
Hole cleaned out to  
135 ft.  
Bottom of  
borehole: 135 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and  
Log of Boring PS-CT-08**

PLATE



**MACTEC**

Fort Ord, California

**A103**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cur*

DATE  
1/05

REVISED DATE

Completion Date 9/22/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 183.92 ft. Hole Dia. 10 in.  
 Northing 2138550.7 Easting 5748331.3

Top of PVC Casing  
 Elev. 183.43 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

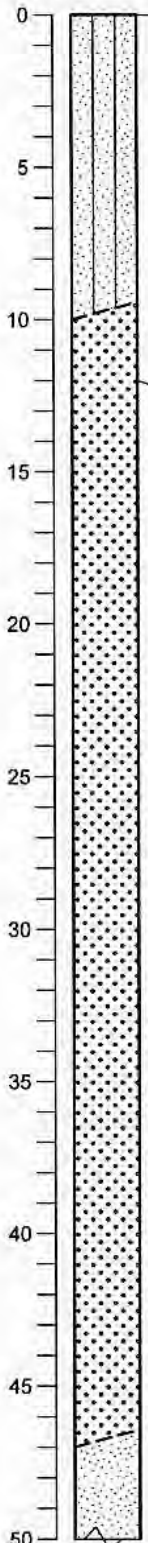
TOP OF CASING:  
 0.5 ft. below  
 ground level

10 in. DIAMETER  
 BOREHOLE: 0 to  
 133.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.  
 BENTONITE-  
 SLURRY SEAL: 10  
 to 95.5 ft.

3 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 102.5 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 70% fine to medium sand, 30% silt

@ 5 ft.: Similar to above

@ 7 ft.: Change to Decrease in silt

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 4/4) Loose,  
 dry, 90% fine to coarse sand, 10% silt  
 @ 12 ft.: Similar to above

@ 17 ft.: Similar to above

@ 22 ft.: Similar to above

@ 27 ft.: Change to Increase in coarse sand

@ 32 ft.: Similar to above

@ 37 ft.: Change to Decrease in coarse sand

@ 42 ft.: Change to Increase in fines

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 90% fine  
 to medium sand, 10% silt

BORING\_WELL\_OUCTP OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05



MACTEC

Well Construction Details and  
 Log of Boring PS-CT-09  
 OUCTP

PLATE

**A104**

Fort Ord, California

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

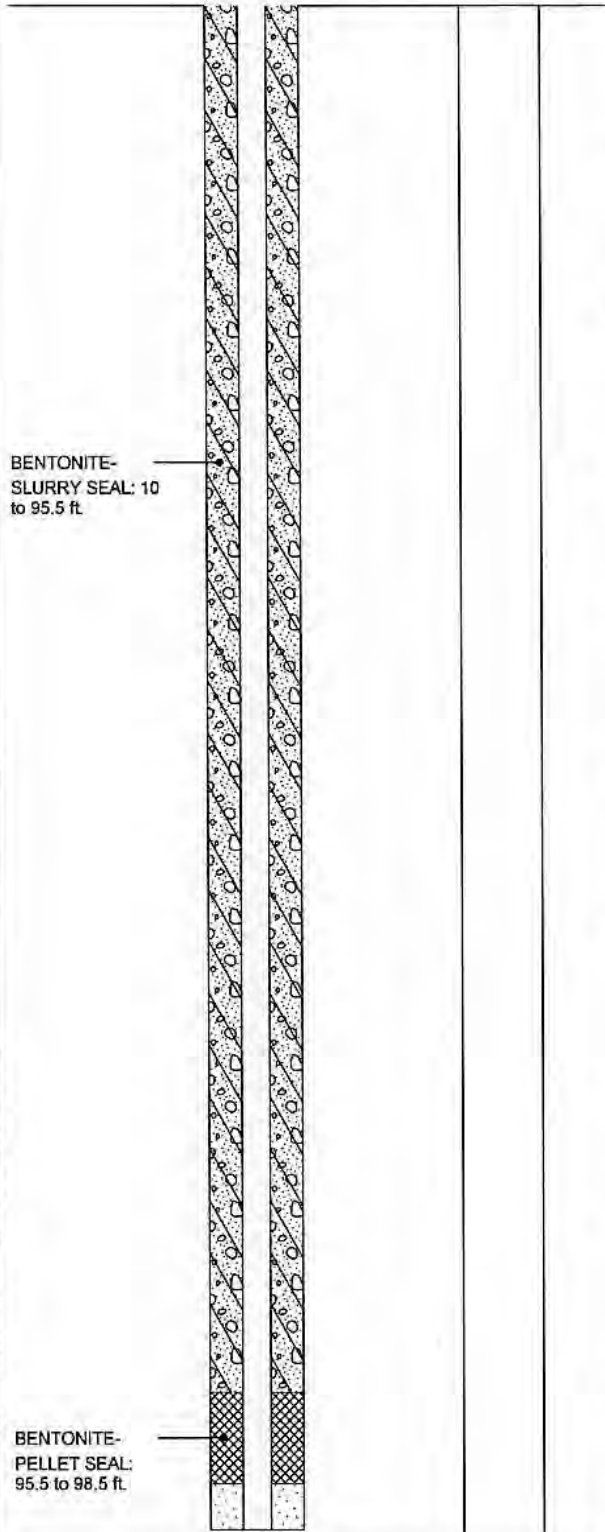
APPROVED  
 MDT / cm

DATE  
 1/05

REVISED DATE

Completion Date 9/22/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 183.92 ft. Hole Dia. 10 in.  
 Northing 2138550.7 Easting 5748331.3

Depth (ft.)  
Sample



50  
55  
60  
65  
70  
75  
80  
85  
90  
95  
100

@ 52 ft.: Similar to above

@ 57 ft.: Change to Increase in coarse sand

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 67 ft.: Similar to above

@ 72 ft.: Change to Increase in coarse sand

@ 77 ft.: Similar to above

@ 82 ft.: Similar to above

@ 87 ft.: Similar to above

@ 92 ft.: Change to Increase in fines

@ 97 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPVB.GPJ FTO\_OUCTP.GDT 1/27/05

BENTONITE-PELLET SEAL: 95.5 to 98.5 ft.



MACTEC

Well Construction Details and  
Log of Boring PS-CT-09  
OUCTP

PLATE

Fort Ord, California

**A104**

DRAWN  
MBP

JOB NUMBER  
55596 001701

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*MDT / car*

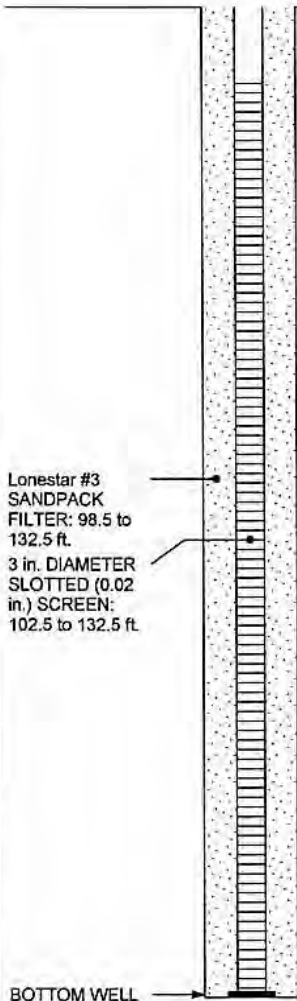
DATE  
1/05

REVISED DATE



Completion Date 9/22/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 183.92 ft. Hole Dia. 10 in.  
 Northing 2138550.7 Easting 5748331.3

Depth (ft.)  
Sample



Lonestar #3  
SANDPACK  
FILTER: 98.5 to  
132.5 ft.  
3 in. DIAMETER  
SLOTTED (0.02  
in.) SCREEN:  
102.5 to 132.5 ft.

BOTTOM WELL  
CAP: 132.5 ft.  
Hole cleaned out to  
133.5 ft.  
Bottom of  
borehole: 133.5 ft.

100  
105  
110  
115  
120  
125  
130

@ 102 ft.: Similar to above

@ 107 ft.: Change to Moist to wet

YELLOWISH BROWN POORLY GRADED  
SAND (SP) (10YR5/6) Loose, wet, 90% fine  
sand, 10% silt

@ 117 ft.: Similar to above

@ 122 ft.: Similar to above

@ 127 ft.: Similar to above

@ 132.5 ft.: Note: Driller notes drop in  
drilling speed  
OLIVE BROWN FAT CLAY (CH) (2.5Y 4/4)  
Hard, wet, 85% fat clay, 10% silt, 5% fine  
sand  
Bottom of borehole at 133.5

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

Well Construction Details and  
Log of Boring PS-CT-09  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A104**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MBP / JMB*

DATE  
1/05

REVISED DATE

Completion Date 9/30/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 186.45 ft. Hole Dia. 12 in.  
 Northing 2138500.9 Easting 5748320.8

Top of PVC Casing  
 Elev. 186.08 ft.  
 CHRISTY  
 BOX

GROUND SURFACE

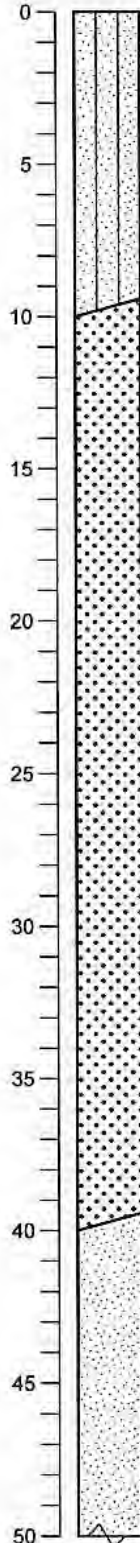
TOP OF CASING:  
 0.5 ft. below  
 ground level

12 in. DIAMETER  
 BOREHOLE: 0 to  
 135.5 ft.

BENTONITE-  
 CEMENT SEAL: 0  
 to 10 ft.  
 BENTONITE-  
 SLURRY SEAL: 10  
 to 104 ft.

5 in. DIAMETER  
 PVC SCHEDULE  
 40 CASING: 0.5 to  
 135 ft.

Depth (ft.)  
 Sample



DARK BROWN SILTY SAND (SM) (10YR 3/3) Loose, dry, 80% fine sand, 15% silt, 5% clay

@ 5 ft.: Similar to above

@ 7 ft.: Change to Increase in sand

DARK YELLOWISH BROWN WELL  
 GRADED SAND (SW) (10YR 4/6) Loose,  
 dry, 90% fine to coarse sand, 10% silt

@ 15 ft.: Similar to above

@ 20 ft.: Change to YELLOWISH BROWN  
 (10YR 5/6)

@ 25 ft.: Change to Increase in coarse sand

@ 30 ft.: Similar to above

@ 35 ft.: Change to Increase in fine sand

YELLOWISH BROWN POORLY GRADED  
 SAND (SP) (10YR 5/6) Loose, dry, 90% fine  
 to medium sand, 10% silt

@ 45 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT 1/27/05

**Well Construction Details and  
 Log of Boring PS-CT-IW**

PLATE



**MACTEC**

Fort Ord, California

**A105**

DRAWN  
 MBP

JOB NUMBER  
 55596 001701

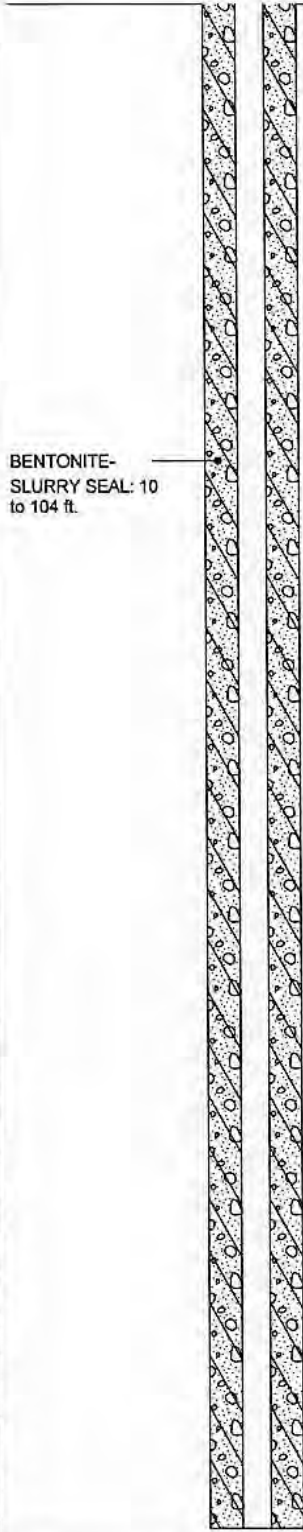
APPROVED  
*MDT / cur*

DATE  
 1/05

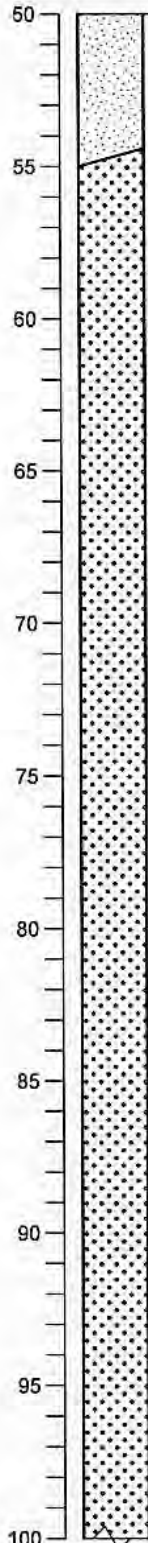
REVISED DATE

Completion Date 9/30/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 186.45 ft. Hole Dia. 12 in.  
 Northing 2138500.9 Easting 5748320.8

Depth (ft.)  
Sample



BENTONITE-SLURRY SEAL: 10 to 104 ft.



@ 50 ft.: Similar to above

DARK YELLOWISH BROWN WELL GRADED SAND (SW) (10YR 4/4) Loose, dry, 90% fine to coarse sand, 10% silt

@ 60 ft.: Change to Increase in coarse sand

@ 65 ft.: Similar to above

@ 70 ft.: Similar to above

@ 75 ft.: Similar to above

@ 80 ft.: Similar to above

@ 85 ft.: Similar to above

@ 90 ft.: Change to YELLOWISH BROWN (10YR 5/6)

@ 95 ft.: Similar to above

BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**Well Construction Details and Log of Boring PS-CT-IW**

PLATE



**MACTEC**

OUCTP  
Fort Ord, California

**A105**

DRAWN  
MBP

JOB NUMBER  
55596 001701

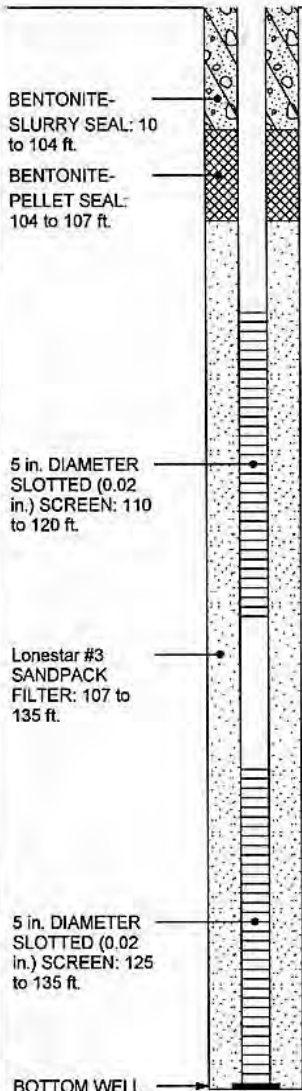
APPROVED  
*MDT / JCB*

DATE  
1/05

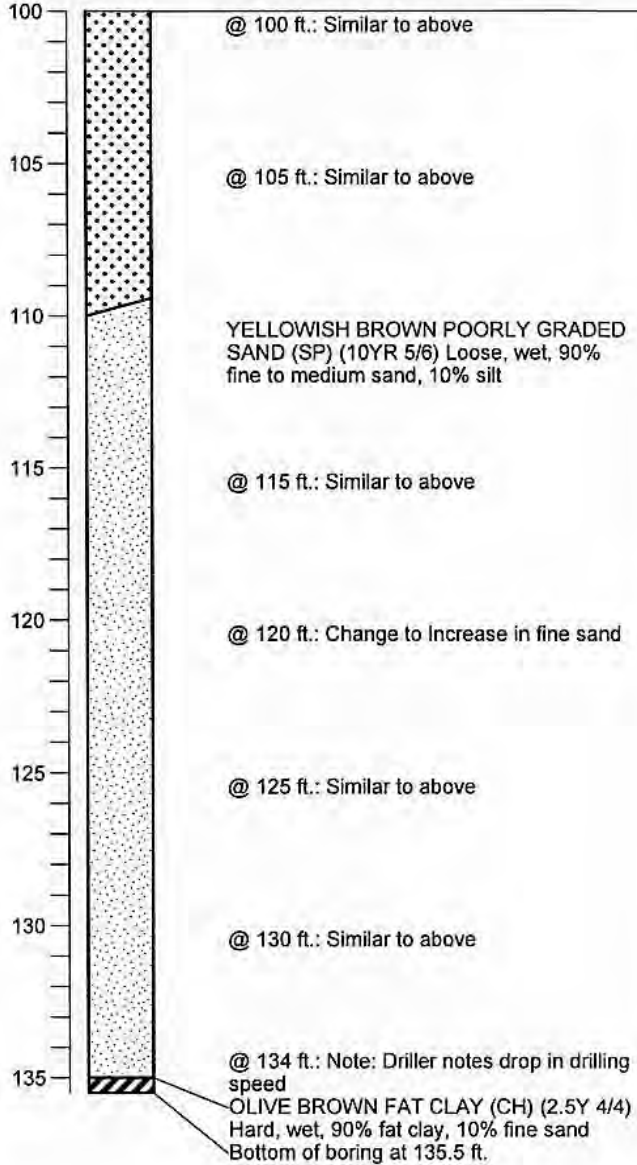
REVISED DATE

Completion Date 9/30/2003  
 Drilling Method Hollow Stem Auger  
 Logged by J. Baca  
 Surface Elevation 186.45 ft. Hole Dia. 12 in.  
 Northing 2138500.9 Easting 5748320.8

Depth (ft.)  
Sample



BOTTOM WELL CAP: 135.5 ft.  
 Hole cleaned out to 135.5 ft.  
 Bottom of borehole: 135.5 ft.



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ\_FTO\_OUCTP.GDT\_1/27/05

**Well Construction Details and Log of Boring PS-CT-IW**  
OUCTP

PLATE



**MACTEC**

Fort Ord, California

**A105**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MST/cwr*

DATE  
1/05

REVISED DATE

Top of PVC Casing  
Elev. 79.17 ft.

Completion Date 5/13/2003  
Drilling Method Auger  
Logged by J. Newman  
Surface Elevation 76.80 ft. Hole Dia. 8 in.  
Northing 2144001.8 Easting 5743670

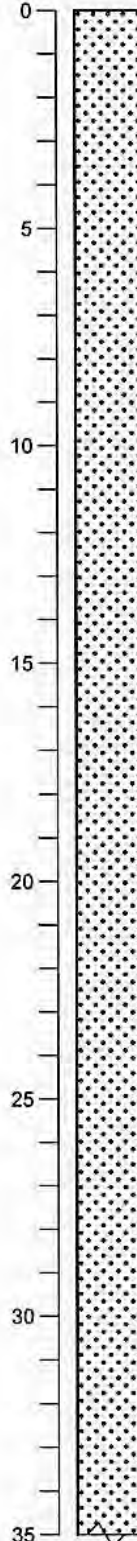
GROUND SURFACE

2 in. DIAMETER  
SCHEDULE 40  
PVC BLANK  
CASING: +0.3 to  
85 ft.

8 in. DIAMETER  
BOREHOLE: 0 to  
85 ft.

BENTONITE-  
CEMENT SEAL: 0  
to 43 ft.

Depth (ft.)  
Sample



VERY DARK GRAYISH BROWN WELL  
GRADED SAND (SW) (2.5Y 3/2) Loose,  
dry, 80% fine to coarse sand, 10% silt, 10%  
organics

@ 3.5 ft.: Change to OLIVE YELLOW (2.5Y  
6/6)

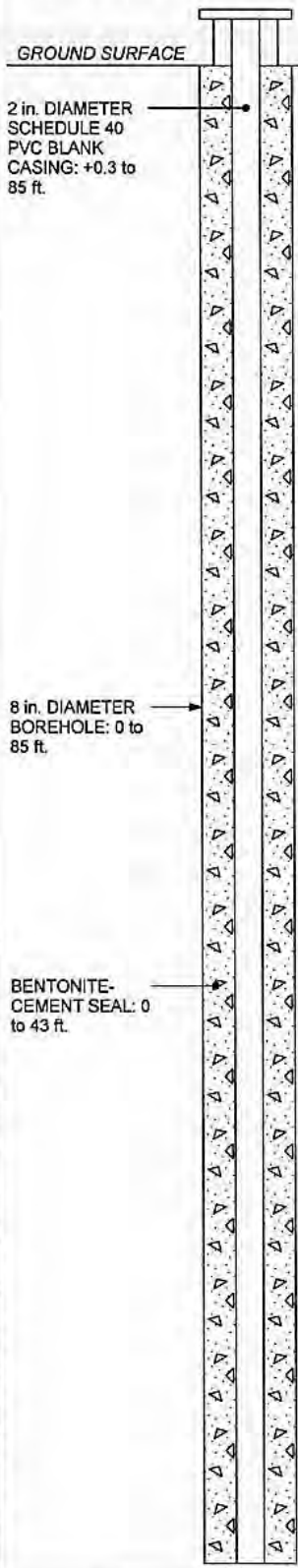
@ 10 ft.: Change to Fine to medium sand

@ 20 ft.: Change to LIGHT OLIVE BROWN  
(2.5Y 5/6) Loose, moist

@ 25 ft.: Similar to above

@ 30 ft.: Similar to above

BORING\_WELL\_OUCTP OUCTPV6.GPJ FTO\_OUCTP.GDT\_11/24/04



Well Construction Details and  
Log of Boring PZ-BW-44-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A106**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MDT / cur*

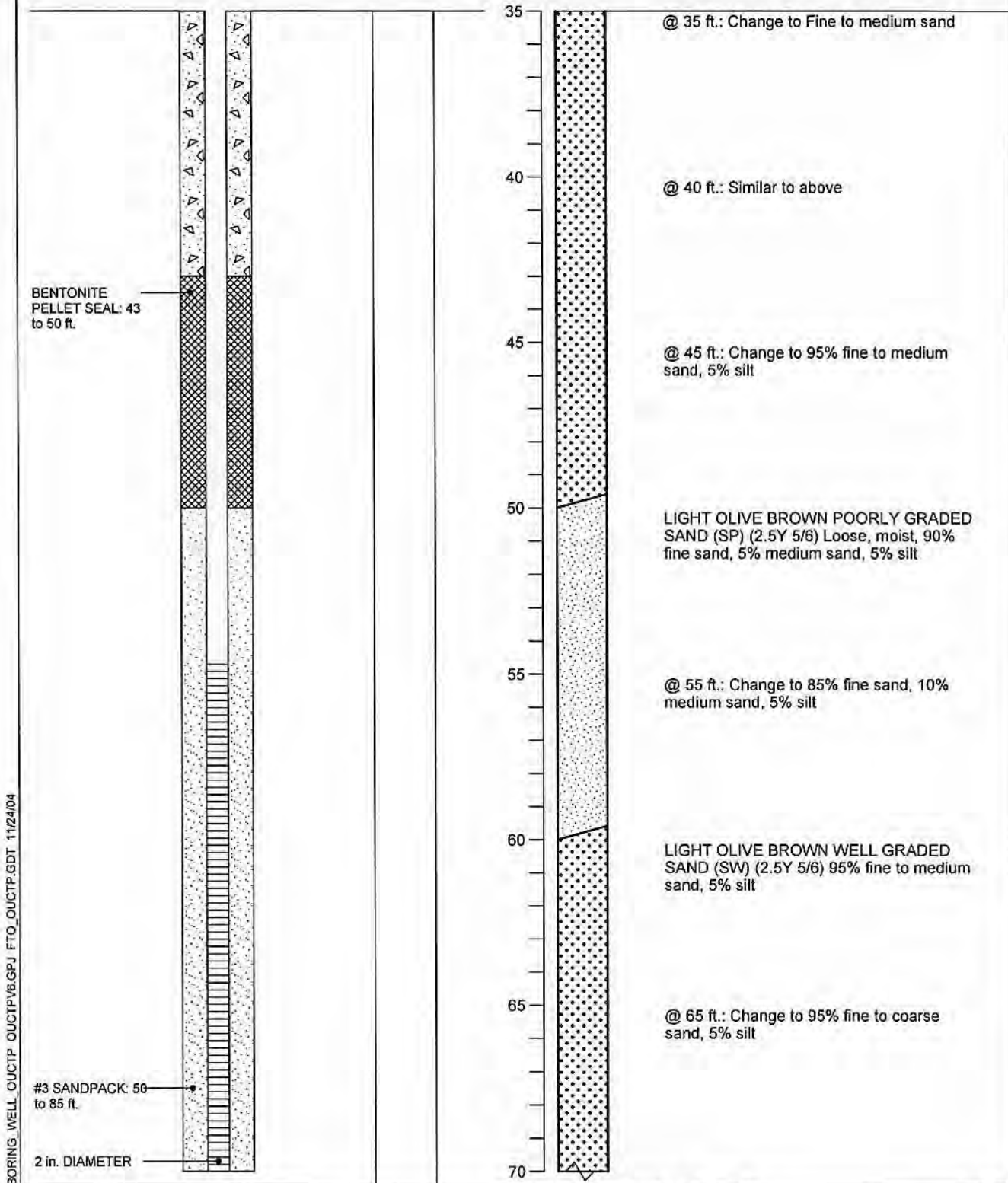
DATE  
11/04

REVISED DATE



Completion Date 5/13/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 76.80 ft. Hole Dia. 8 in.  
 Northing 2144001.8 Easting 5743670

Depth (ft.)  
 Sample



BORING\_WELL\_OUCTP OUCTPV8.GPJ FTO\_OUCTP.GDT 11/24/04

**Well Construction Details and Log of Boring PZ-BW-44-A**  
 OUCTP

PLATE

**MACTEC**  
 DRAWN MBP  
 JOB NUMBER 55596 001701

Fort Ord, California  
 APPROVED *MDT / cur*

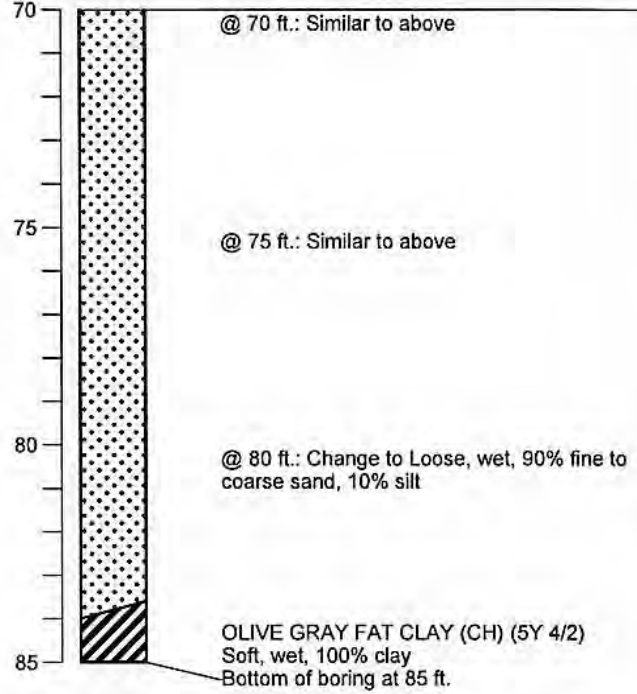
**A106**  
 DATE 11/04  
 REVISED DATE

Completion Date 5/13/2003  
 Drilling Method Auger  
 Logged by J. Newman  
 Surface Elevation 76.80 ft. Hole Dia. 8 in.  
 Northing 2144001.8 Easting 5743670

Depth (ft.)  
Sample

SLOTTED (0.020 in.) SCREEN: 54.7 to 84.7 ft

BOTTOM WELL CAP: 85 ft



BORING\_WELL\_OUCTP\_OUCTPV6.GPJ FTO\_OUCTP.GDT 11/24/04

Well Construction Details and Log of Boring PZ-BW-44-A  
OUCTP

PLATE



MACTEC

Fort Ord, California

**A106**

DRAWN  
MBP

JOB NUMBER  
55596 001701

APPROVED  
*MBP / cm*

DATE  
11/04

REVISED DATE

DO NOT WRITE IN THESE SPACES  
 Do Not Fill in AIRFIELD  
 No. 79335  
 State Well No. \_\_\_\_\_  
 Other Well No. \_\_\_\_\_

**WATER WELL DRILLERS REPORT**  
 (Sections 2914, 2917, 2921, Water Code)

STATE OF CALIFORNIA 33

OWNER: Justin B. Moss  
 Survey & Materials Branch  
 Address: H. J. Army Corps of Engineers  
 Sacramento 8, California

(1) LOCATION OF WELL: Fort Ord  
 County: Monterey District: Airport  
 S. T. D. or Street No. \_\_\_\_\_  
 Calif. State Grid Coordinates (Lambert System)  
 N 501, 645.02  
 E. 1, 188, 878.60

(3) TYPE OF WORK (check):  
 New well  Deepening  Remedial  Abandon   
 If abandonment, describe material and procedure in item 11.

(4) PROPOSED USE (check):  
 Domestic  Industrial  Municipal   
 Irrigation  Test Well  Other   
 (5) EQUIPMENT:  
 Rotary   
 Cable   
 Dug Well

(6) CASING INSTALLED:  
 SINGLE  DOUBLE   
 If gravel packed  

From	To	Size	Material
0	100	18"	#8 pipe
0	404	12"	#10 pipe

 18" hard shoe  
 Type and size of shoe or well stop: 12" x 12" x 1' metal shoe  
 Describe shoe: Butterfield

(7) PERFORATIONS:  
 True of perforated well: 1411 ft  

Size of perforation	Length	Depth	Spacing
2"	4/16"		
318"	347"	6"	2"
357"	379"	6"	2"

(8) CONSTRUCTION:  
 Was a surface embargo and permitted?  Yes  No To what depth: \_\_\_\_\_ ft.  
 Were any zones sealed against pollution?  Yes  No If yes, size and depth of zones:  
 From \_\_\_\_\_ to \_\_\_\_\_ ft.  
 Method of Sealing: Grout

(9) WATER LEVELS:  
 Depth at which water was first found: 15 ft.  
 Working level before perforating: \_\_\_\_\_ ft.  
 Level at last perforation: \_\_\_\_\_ ft.

(10) WELL TESTS:  
 Was a pump test made?  Yes  No If yes, by whom: Fisco & Finstenberger  
 Yield: \_\_\_\_\_ gal/min, static \_\_\_\_\_ ft. above datum  
 Temperature of water: \_\_\_\_\_ °F Was a chemical analysis made?  Yes  No  
 Was a sludge bar made of well?  Yes  No

(11) WELL LOG:  
 Total Depth: 402 ft. Depth of completed well: 306 ft.

Feet	Remarks
0	2 ft. land
2	6 Dark silt
6	62 Yellow sand
62	104 Sandy clay
104	117 Gray clay
117	132 Blue clay
132	148 White medium sand S.A
148	151 Brown clay
151	156 Medium gray sand
156	167 Blue clay
167	191 Sand
191	196 Sand and pebbles
196	197 Gray clay - Turb.
197	215 Sand and small gravel
215	226 Dry sand and clay
226	228 Gray clay
228	244 Yellow sandy clay
244	270 Yellow dirty sand
270	298 Brown clay
298	311 Muddy sand
311	318 Sandy clay
318	347 Sand & gravel, well graded
347	358 Light brown clay
358	379 Sand and gravel
379	383 Clay
383	386 Sand and gravel
386	389 Yellow clay
389	395 Sand and gravel
395	402 Yellow clay

Well started: 3/2/63 Completed: 9/27/63  
 (Concrete plug in bottom)

WELL DRILLER'S STATEMENT:  
 This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.  
 NAME: Bill Ballman  
 Address: 2728 So. Attomallone  
 Reedley, California  
 License No. 106833 Dated: 10/16/63  
 Airfield

Well Construction Details and PLATE  
 Log of Airfield Well  
 Carbon Tetrachloride  
 RI/FS  
 Fort Ord, California

# MACTEC

# A107

DRAWN: MBP JOB NUMBER: 55596 001701 APPROVED: [Signature] DATE: 12/04 REVISED DATE: \_\_\_\_\_  
 Page 1 of 1





NOTICE OF STATE NO. 59524

WATER WELL DRILLERS REPORT

THE RESOURCES AGENCY OF CALIFORNIA DEPARTMENT OF WATER RESOURCES

Do Not Fill In

No 13383

Traverse No. 27

Date W.H. 15/1/69

ORIGINAL FILE WITH STATE

(1) OWNER: Name Department of the Army Address Sacramento, California

(11) WELL LOG: From 0 to 560 ft. Depth of casing 550 ft.

(2) LOCATION OF WELL: County Monterey (Sheet's number of map 27) Township Range and Section T 15-S, R 2 E Section 27

0 to 130' Sand 130 140 Yellow Sandy Clay 140 153 Blue Sandy Clay (Hard) 153 170 Blue Clay 170 191 Blue Sandy Clay 191 225 Sand (Tight) 225 246 Sand & Gravel (Tight) 246 273 Yellow Sandy Clay 273 293 Sand & Gravel 293 315 Gravel, Yellow Clay Strata 315 325 325 358 Cemented Gravel (Hard) 358 382 Cemented Gravel & Boulders 382 427 Sand & Gravel, few Boulders 427 449 Sand & Gravel, some Clay 449 494 Yellow Sandy Clay & Gravel 494 525 Yellow Sandy Clay 525 560 Red Sandy Clay

(3) TYPE OF WORK (check): New Well [X] Deepening [ ] Reconditioning [ ] Draining [ ]

FO-SVA U-180 I-150

(4) PROPOSED USE (check): Domestic [X] Industrial [ ] Municipal [ ] Irrigation [ ] Test Well [ ] Other [ ]

(11) EQUIPMENT: Rotary [X] Cable [ ] Other [ ]

Table with 7 columns: From ft., To ft., Diam., Cap of Well, Diameter of Hole, From ft., To ft. Rows show casing details from 0 to 550 ft.

Size of plug or seal: DDDG Size of gravel: 1/4 x 1/8

(7) PERFORATIONS OR SCREEN: Type of perforation or screen: Factory-milled

Table with 5 columns: From ft., To ft., Per. per ft., Lens per ft., Size in. x in. Rows show perforation details from 218 to 487 ft.

Work record 9/3 - 68 (Completed 10/23 - 68) WELL DRILLER'S SIGNATURE: NAME Eastern Well Drilling Co., Ltd. Address F.O. Box 47, San Jose, Calif. 95103

(8) CONSTRUCTION: Was a casing necessary and provided? Yes [X] No [ ]

CONFIDENTIAL

(9) WATER LEVELS: Marked on map? No [X] Yes [ ]

(10) WELL TESTS: Was the well tested? Yes [X] No [ ]

License No. 25182 Date March 31, 1969

SKETCH LOCATION OF WELL ON REVERSE SIDE

7.1 57528-1/29

Well 27

MACTEC Well Construction Details and Log of Boring FO-27 Carbon Tetrachloride RI/FS Fort Ord, California PLATE A109 DRAWN JFT JOB NUMBER 55596 001701 APPROVED MDT/Kan DATE 1/05 REVISED DATE Page 1 of 1



