

5/24/10 TPGW-14 CORING

• ALL CORING DEPTHS IN FT. BELOW DAY BOTTOM (BBB)

TIME	START CORE RUN #1	NOTES
DEPTH	MIN : SEC	
0-1	01 : 28	
1-2	01 : 40	11" OF 48"
2-3	00 : 35	90% REC.
3-4	00 : 50	9" WC
4-5	:	2" RWB,
	:	
14:11	END CR#1	
0.5'	00 : 21	
1.5'	01 : 16	
2.5'	+	
3.5'	00 : 19	
4.5' 00 : 19		

*Terry D.S. has to replace hose to top head/surface
hose. hose was full of concrete chunks.

• DRILLING LAMP START

14:11 TD CR#1 @ ~ 3'11" BBB.

73

14:27	START CORE RUN# 2	
DEPTH	MIN : SEC	NOTES
4-5	01 : 31	
5-6	03 : 38	23 "OF 60"
6-7	01 : 50	90% RECOVERY
7-8	02 : 41	
8-9	02 : 16	U.C. = 4 "
14:39	END CR#2	RWB = 19 "
4.5	00 : 51	
5.5	00 : 37	
6.5	00 : 51	
7.5	01 : 18	
8.5	:	

@ 6' - int. rotation speed.

14:39 TD CR#2 @ ~ 8'11" BBB.

5/24/16 PRGW-14 CORALIST.

14:55

START C.R. #3

DEPTH	MIN : SEC	NOTES
9-10	02 : 42	
10-11	00 : 55	23 " of 60 "
11-12	00 : 19	0% RECOVERY
12-13	00 : 25	
13-14	01 : 48	
15:01	END CR #3	
9.5	01 : 41	
10.5	00 : 29	
11.5	00 : 11	
12.5	00 : 06	
13.5	00 : 41	

23 " of 60 "
0% RECOVERY

W.C. = 12 "
RHS = 11 "

TD CR# 3 @ ~ 13' 11" BBS.

B.V. TRIPPING OUT CORE BARREL

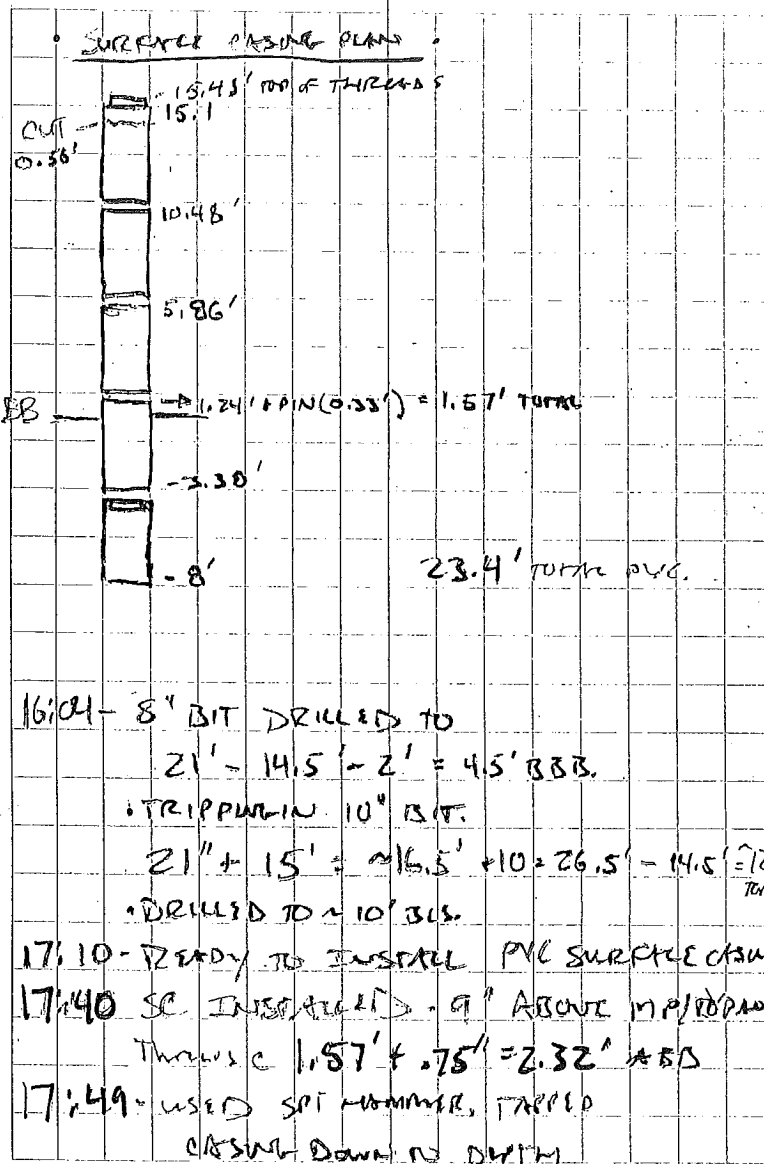
SURFACE CASING. (14.54' TO RAY BOTTOM)

4.62' per joint.

make threads at 4" (0.33')

Cut 0.56'

75



5/24/10 TPGW-14 SURFACE CASING.

- REMMIL INSTALLED TO 20' BELOW MUD PAN / TOP OF SURFACE CASING OR 5.5' BELOW SEAFLOOR BOTTOM (2.6' FROM BASE OF CASING).

- PLAN TO PUMP 30 gal new Type II portland cement

18:13 Pumping Grout. (PAUSED B/C PUMP NOT WORKING)

18:16 - DONE - RETURNS W/ AIR BUBBLE ONLY.

18:45 BACK TO LAND

19:08 BACK TO TRUCK - OUT

• TPGW-14 DEEP MW LOCATION

WPT 077, LAT: 25° 21.258' N, LONG: 080° 13.573' W

5/25/10 - TPGW-14

- TAG INSIDE OF 8" @ 14.10' BTOC.
- 09:45 - BY installing 6" LINER.

25' - 25' BIT + 0.88' PLATE (7.5")

• 25.88' BTOC = 11.34' BBB.

SC @ 8' BBB = 50.334'

- CASING STOPPED @ 21' BTOC (6.5' BBB)

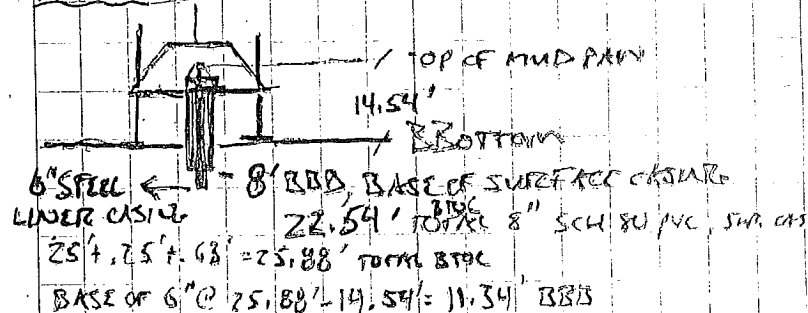
10:29 - DOWN TO 23.25' BTOC (8.75' BBB)

• NOTICED A FEW THIN PVC SHAVINGS W/ RETURNS

10:50 6" CASING DOWN - NO PVC RETURNS

AFTER PASSING 8' BBB (BASE OF SC.)

11:02 - BY ZIAMUNG W/ 6" 22'-23' BTOC.



13140 - ADDING 3' CORRECTIONS.

5/25/10 TPGW-14 CORING

13:45 START RUN #6		
DEPTH	MIN : SEC	NOTES
24-25	01 : 46	
25-26	00 : 50	<u>3</u> " OF 60"
26-27	01 : 00	<u>5</u> % RECOVERY
27-28	01 : 01	
28-29	01 : 00	W.C. = <u>3</u> "
13:51	END CR #6	RUBS = <u>0</u> "
24.5	01 : 22	
25.5	00 : 21	
26.5	00 : 19	
27.5	00 : 32	
28.5	00 : 32	

• SLOW RPM 24' 5" - $\frac{1}{2}$ pen inc.
 ~ 26' inc. RPM'S
 ^ 26' 11" FIRMER - INC. RPM'S.
 DRILLING IS CHUNKY.

13:51 TO CR #6 @ ~28' 11" BDB
 • LOOKED @ CORE CATCHER, LOOKS OK?

14:04 START RUN #7		
DEPTH	MIN : SEC	NOTES
29-30	02 : 59	
30-31	01 : 55	<u>13</u> " OF 60"
31-32	04 : 17	<u>22</u> % RECOVERY
32-33	01 : 10	
33-34	01 : 18	W.C. = <u>4</u> "
15:57	END CR #7	RUBS = <u>9</u> "
29.5	02 : 10	
30.5	—	
31.5	00 : 49	~ 31' 5" - FIRMER, INC ROTATION • SPEED & PRESS ~ 200 psi • Hyd. System Press ~ 1300 psi • H ₂ O Press ~ 150 psi.
32.5	00 : 34	
33.5	00 : 22	

@ ~30' 5" - ZIG-STALLED w/ VERY SLOW
 ROTATION - LAZARO (DRILLER) THINKS
 IT'S SAND.

@ ~30' 5" ~~20~~ RET = 01:24

14:09 • SHUT DOWN. LAZARO WAITING FOR
 TIGER MUD.

• NOTE: $\downarrow$ hole hose press ~ 150 psi.

pull $\downarrow$ Hyd. Press = ~500 psi.

• MAIN Hyd. System Press = ~800 psi.

14:40 DAVE TOWEY OUT TO GET TIGER MUD.

~ 31' 6" Pen. inc.
 RATE

15:40- BACK W/ TIGER MUD, MIXED W/ IN MUD
 • CIRCUMFERENCE OF CORE YET.
 ↓ press - 100 psi

5/25/10 TPGW-14- CORING.

16:08 START RUN #8

DEPTH	MIN : SEC	NOTES
34-35	02 : 00	
35-36	01 : 01	12 " of 60"
36-37	01 : 19	2.0 % RECOVERY
37-38	01 : 15	
38-39	04 : 47	W.C. = 5 "

16:19 END CR #8

34.5	01 : 00
35.5	00 : 17
36.5	00 : 37
37.5	00 : 49
38.5	01 : 15

RUB = 7 "

↓ press ≤ 100 psi, slow rotation

• RIG V-STABLY; SEAS CALM

~~16:08-16:20~~

NOTE: ↓ hole pump press ≤ 80 psi

~ 38' 5" - pen slowed - firmer to bottom.

16:19. TD CR #8 @ ~ 38' 11" BBB

12" TOTAL, 5" W.C.

• NOTE: SOME OF CORE FELL OUT : IS

* BRIDGED @ ~ 38' BTOL W SIDE CORE (NORTH)

16:38 • BY PULLING OUT 5' OF CORE CASING.

16:52 - CB LOCKED IN. READY TO COR E.
 • NO MORE CORE RECOVERED

16:55 START RUN #9

DEPTH	MIN : SEC	- NOTES -
39-40	04 : 37	
40-41	03 : 07	0 " of 60"
41-42	02 : 26	0 % RECOVERY
42-43	01 : 23	
43-44	00 : 22	W.C. = 0 "

17:06 END CR #9

39.5	02 : 32
40.5	01 : 45
41.5	01 : 16
42.5	00 : 49
43.5	00 : 12

RUB = 0 "

• ↓ hole hyd. press ~ 100 psi

• ↓ hole H₂O press < 30 psi, slow rotation speed

17:06 MIX RM END

- DROPPED FROM ~ 41' 8" TO TD.

17:06 TD CR #9 @ ~ 43' 11" BBB.

• NO RECOVERY. BV. REPLACEMENT CORRELATER
 INSERT. ^{AS} PER CB EMPTY, LOCKED IN.
~~REPLACEMENT~~

5/25/10 TPGW-14 CORING.

17:21 START RUN # 10		
DEPTH	MIN : SEC	NOTES
44-45	02 : 09	<u>0</u> " of 60" <u>0</u> % RECOVERY WC = <u>0</u> " RUB = <u>0</u> "
45-46	02 : 34	
46-47	01 : 04	
47-48	01 : 14	
48-49	00 : 21	
17:29 END CR #10		
44.5	00 : 49	
45.5	02 : 00	
46.5	00 : 31	
47.5	00 : 34	
48.5	00 : 07	

• slow ROTATION <100 psi & press.

• 44.5' inc & psi to 250 psi to ~~250~~ psi
BBB.

• ~46'11" - DROP TO ~47'4" BBB

• 48'3" BBB TO TD-DROP.

17:29 TD CR #10 @ ~48'11" BBB

★ NO RECOVERY ★

17:41			START RUN #11		
DEPTH		MIN : SEC		NOTES	
49-50		01 : 23		<u>0</u> " of 60" <u>0</u> % RECOVERY W.C. = <u>0</u> " RUB = <u>0</u> "	
50-51		00 : 38			
51-52		01 : 03			
52-53		00 : 48			
53-54		00 : 21			
17:45			END CR #11		
49.5'		01 : 02		- DROP	
50.5'		00 : 19			
51.5'		00 : 26			
52.5'		00 : 24			
53.5'		00 : 09			

17:40 - mix TM.

• 200 psi & by 1. up to 250 psi & press

17:45 TD CR #11 @ 53'11" BBB.

★ NO RECOVERY ★

5/27/10 TPGW-14 CORING

NO RECOVERY FROM REAMING RUN.

TAG 61' BTCL - FEELS LIKE SAND
= 1.5' STICK UP - 14.5' = 45' BBB

• 28 TOTAL PIECES ON DECK

9x5 = 45' + 16' = 61' TOTAL. STRONG

• MIXED T.M.

7:13 - ADD 5' 66 TOTAL - 14.5' + 51.5' DOWN

• TIMED REAMING RUN

45-46 10

46-47 01:19

47-48 22 18" FIRMER - 1 lb press.

48-49 02:04 ~ 6" DROP

49-50 01:14

50-51 — 150' 2" PM SLOW & PSI ~ 300 PSI

09:32 - STOP C ~ 50' 4" BBB - C 6 min 12 SEC, ET.

• POSSIBLY CORE LOCKED?

• REMOVING INNER BOREHOLE.

• TAG 55.6' BTCL (SANDY) OR 41.2' BBB

• B.V. plans to wash out & DRILL DOWN.

71' - 15' = 56' TD

9:58

- START RUN #12

DEPTH	MIN:SEC	NOTES	26" OF 60" (1/2") OR 3" OF 24" (1/3")
51-52	00:13		
52-53	00:23	53.5' FIRMER	3" WC
53-54	02:29		23" RUB
54-55	05:43	↓ press 200 PSI	
55-56	00:44		
10:29	END.		

ESS' STOP & PULL OUT CORE CATCHER.

• PULL OUT C.B. CATCHER

10:21 - RUNNING IN LOGS. TAG 71' - OK.

• NO RECOVERY @ LAST FL. 55'-56' BBB.

• NOTE: 3" PIECE OF WC @ BOTTOM OF CORE CATCHER

TAG 71' 5" - J - OK.
BTCL (SANDY) (CORRECTION)

• LOGGED C RUN #12 AS 51' TO 56'

5/27/10

TPGW-14 CORING

10:48 START RUN #13

DEPTH	MIN:SEC
56-67	01:58
57-58	01:36
58-59	00:17
59-60	01:56
60-61	07:29

11:01 END CR #13

56.5	00:50
57.5	00:41
58.5	00:09
59.5	00:25
60.5	01:58

• mixing 9.m.

~ 56' 10" - ROTATION BOGGING DOWN
 • hyd. press ~ 150 psi

~ 58' 3" - DROP
 ~ 59' 2" - SLOWER PEN
 ~ 60' 7" - incl press. TO ~ 250 psi - slow pen.

11:01 - TO CR #13 E - ~~60' BBS~~ 61' BBS.

• mixing 9.m.

64 " of 60"
 107% RECOVERY

W.C. = 44"
 R.H. = 20"

11:22 START CR #14

DEPTH	MIN:SEC
61-62	04:27
62-63	03:28
63-64	01:30
64-65	01:47
65-66	01:27

11:35 END CR #14

61.5	02:09
62.5	01:41
63.5	00:50
64.5	00:42
65.5	00:59

NOTES

67 " of 60"
 112% RECOVERY

W.C. = 60"
 R.H. = 7"

• ~100 psi press - slow pen, low.
 • steady RPM's. Good!
 ~ 61' 7" RPM's up, press to ~ 300 psi.
 ~ 62' 8" - pen. rate slightly better

~ 64' 11" - Firmer.

11:35 HR TO CR #14 E ~ 66' BBS

5/27/10, TPGW-14 CORING

11:56 START RUN# 15			
DEPTH	MIN	SEC	NOTES
66-67	01	21	
67-68	02	34	63 "OF 60"
68-69	02	27	105 % REC
69-70	00	55	
70-71	01	44	WC = 47"
12:05	END CR# 15		RIB = 16"
66.5	00	26	
67.5	01	02	
68.5	01	36	
69.5	00	17	
70.5	00	31	

• 150 psi ↓ press.

~68'3" - FIRMER.

~68'10" - SOFTER

RIGS TO CR# 15 @ ~71' BBB

12:20 - LUNCH

13:00 - WORK.

• ~1" OF FILL IN BOREHOLE (SAND?)

• Jetts plugging hose press. inc.

• MIXING TIGER MUD.

13:16 START RUN# 16			
DEPTH	MIN	SEC	NOTES
71-72	03	31	
72-73	02	01	57 "OF 60"
73-74	01	37	95 % RECOVERY
74-75	04	39	
75-76	05	08	WC = 49"
13:37	END CR# 16		RIBS = 8"
71.5	01	30	
72.5	00	54	
73.5	00	27	
74.5	03	07	
75.5	01	26	

ANDRZ - RIG KEEPS STILLING WHEN DRILLING NEW MUD?

~72'10" - BRIEF DROP - PEN STARTS INC.

~73'8" - Pen slowed. FIRMER.

↓ PRESS - 250 psi TO 300 psi

13:37 - TO CR# 16 @ 76' BBB

5/27/10 TPGW-14 CORING

14:02 START RUN #17

DEPTH	MIN	SEC	NOTES
76-77	04	50	
77-78	02	03	62 "OF 60"
78-79	01	47	103 % RECOVERY
79-80	03	06	
80-81	14	34	WC = 61 "

14:19 END CR#17

76.5	01	16
77.5	01	04
78.5	00	49
79.5	01	16
80.5	02	13

14:01 MIXED TM.

- ↓ press ~ 150 psi
- 76.5' inc & press to ~ 250 psi
- ~ 77' BBS DEC. & press. to ~ 150 psi
- UPON RATE PICKUP.

14:17 MIX TM.

14:19 TDCR# 2 81' BBS.

14:39 START RUN #18

DEPTH	MIN	SEC	NOTES
81-82	03	31	
82-83	03	08	60 "OF 60"
83-84	03	13	100 % RECOVERY
84-85	04	08	
85-86	00	49	WC = 58 "

14:56 END CR#18

81.5	02	02
82.5	01	02
83.5	01	28
84.5	02	54
85.5	00	38

RUBC = 2 "

- lost ~ 8" of WC
- Fell out & down
- DID NOT MARK

14:46 ~ 83' BBS - PAUSE TO MIX TMUD
~ 85' 2" - DROP

14:56 TD CR#18 @ 86' BBS

5/27/10 TPGW-14 CORING

15:13 START RUN #19

DEPTH	MIN	SEC	NOTES
86-87	01	06	
87-88	01	27	38 "CF 60'
88-89	03	36	63 % RECOVERY
89-90	09	20	
90-91	08	48	
15:40	END CR #19		W.C. = 24 " RUB = 11 " SAND = 3 " W.G. = SANDY PM LS
86.5			
87.5	01	01	
88.5	01	50	
89.5	01	53	
90.5	04	46	

MIX T.MUD

~86'11" FIRMER

15:22 MIX T.MUD

~89'7" - put in lower gear

15:26 MIX T.MUD

NOTES: ↓ PRESS. ~ 150psi DME

WHEEL RUN.

~90'3" INC. ↓ PRESS. ~ 300psi

~90'4" INC RPM'S (at 03:15)

15:40 TD CR #19 ~ 91' BTB

15:58 START RUN #20

DEPTH	MIN	SEC	NOTES
91-92	01	31	
92-93	00	52	61 "CF 60'
93-94	01	39	102 % RECOVERY
94-95	01	44	
95-96	01	38	W.C. = 54 " RUB = 7 "
16:05	END CR #20		
91.5'	00	32	
92.5'	00	18	
93.5'	00	41	
94.5'	00	52	
95.5'	00	51	

MIX T.MUD

16:05 TD CR #20 ~ 96' BTB

5/27/10 TPGW-14 CORING

16:28 START RUN #21

DEPTH	MIN	SEC	NOTES
96-97	01	03	
97-98	00	47	42 "up 60"
98-99	00	59	40 % RECOVERY
99-100	00	36	
100-101	02	16	
16:34	END CR #21		WC = 17" RUB = 25"
96.5	00	40	
97.5	00	15	
98.5	00	29	-Rubble is sandy.
99.5	00	10	
100.5	00	25	

~96' 10" - PEN. INCL.

~100' 7" - LITTLE SLOWER PEN.

16:45 - Thunder & 44 - PACKING UP...
17:40 CLUB Bg.

5/28/10 TPGW-14 CORING

5/28/10 TPGW-14 CORING

09:14 START RUN #22

DEPTH	MIN	SEC	NOTES
101-102	00	34	
102-103	00	10	32 "up 60"
103-104	00	11	53 % RECOVERY
104-105	02	55	
105-106	04	27	WC = 12" RUB = 20"
09:22	END CR #22		
101.5'	00	25	
102.5'	00	04	- RUBBLE IS SANDY
103.5'	00	04	
104.5'	00	08	
105.5'	01	18	

08:30 ish B.V. TO RIG - STRUCK GRASS JUNT

09:00 RIG OFF - LOGGIN (TDS) PICKED UP

ENTER & PRESS ~100psi

~104' 7" FIRMER

~104' 10" INC & PRESS TO ~200psi

• MIXING T. MUD

09:27 - TO CR #22 @ 106' B.B.

• C.B. DID NOT LOCK IN MUD TO PICK UP, OK.

9:57 - NEXT CONNECTION MADE

5/28/10

TRC-14 CORING

09:55 START RUN # 23

DEPTH	MIN	SEC	NOTES
106-107	00	20	
107-108	00	15	24 " of 60"
108-109	00	20	40 % RECOVERY
109-110	00	41	
110-111	00	56	U.C. = 0"

9:57 END CR# 23

106.5	00	11	
107.5	—		
108.5	00	10	• SANDY RUBBLE
109.5	00	09	
110.5	00	29	

• DROP THE WHOLE WAY TO ~109'10"
 ~109'10" - FIRMER

• ↓ PRESS ~150 psi FOR WHOLE RUN

9:57:37 - TD CR# 23 @ 111' BBS.

• MIXING T.M.

10:11 START RUN # 24

DEPTH	MIN	SEC	NOTES
111-112	00	23	
112-113	00	11	66 " of 60"
113-114	00	09	110 % RECOVERY
114-115	00	10	
115-116	00	12	U.C. = 39"

10:12:40 END CR# 24

111.5	00	13	RUB = 0"
112.5	00	07	SAND = 27"
113.5	—		RUB = 0"
114.5	00	04	
115.5	00	03	

• MIXING T.M.

• DROP TO TD

• ~100-150 psi ↓ PRESS.

10:12:40 TD CR# 24 @ 116' BBS.

5/28/10 TPGW-1H CORING

10:37:35 START RUN # 25

DEPTH	MIN	SEC	NOTES
116-117	00	26	
117-118	00	22	68 "of 60"
118-119	00	12	113 % RECOVERY
119-120	00	16	
120-121	00	30	

10:39:28 END CR. # 25

116.5	00	23	SAND = 68"
117.5	00	10	
118.5	00	05	
119.5	00	05	
120.5	00	14	

Very Green sand e ~ 117' BBB. (~ 131' BTOC)
or ~ 131' BTOC.

10:39 - TD CR # 25 e ~ 121' BBB

10:58:23 START RUN # 26

DEPTH	MIN	SEC	NOTES
121-122	00	28	
122-123	00	16	27" of 60"
123-124	00	51	45 % RECOVERY
124-125	00	49	
125-126	00	36	SAND = 27"

11:01:29 END CR. # 26

121.5	00	21
122.5	00	05
123.5	00	21
124.5	00	26
125.5	00	18

11:01 - TD CR # 26 e ~ 126' BBB

5/28/10 TPGW-M CORING

11:24:07 START RUN # 27

DEPTH	MIN	SEC.	NOTES
126-127	00	32	
127-128	00	21	34" OF 60"
128-129	00	46	57 % RECOVERY
129-130	00	51	
130-131	00	40	SAND = 34"
11:27:30	END CR # 27		
126.5	00	19	
127.5	00	09	
128.5	00	20	
129.5	00	29	
130.5	00	20	

11:27:30 - TO CR # 27 @ ~131' 3" BBB.

• TAG 146.5' BELOW 5" CORE CASING
5' IS 1.1' ABOVE MP / TOP Ø M.P. / TO C (8" SMD)

TAG: 146.5' - 145' = 132' - 1.1' = 130.9' BBB.

• 23 BOXES USED

12:35 - Little Barge esile, connecting to big barge.

13:15 @ LAND UNLOADER CORE.

• Photo core @ LUB

14:00 BACK TO BARGE.

• S.V. has big - fluid leak in hammerhead

• Continued, waiting to drain to vent.

• B.V. / T.D.S. DRAINED THE PISTON

• PLUGGED THE LEAKY PORT

14:45 - Resume removing 5" CASING.

15:33 - Finish removing 6"
TAG @ 38' BTOC OF ~24' JBS.

15:50 - ON LAND - HEADING OUT

4/1/10

09:40 E TPGW-14.

- BACKGROUND TURBIDITY, 0.15 ntu
- B.V. SETTING UP AIR DECK
- STEADY RAIN
- TAG INSIDE OF BOREHOLE @ 30' BTOC.

10:24 - 3" AIR CASING IN HOLE. (40' TOTAL)

10:41 - Batt. for Air compressor is dead.

B.V. trying to swap out w/ new batt. from rig.

10:55 - AIR ON.

11:01 - TURBIDITY OUTSIDE BOOM = 0.10 ntu

11:10 - ADD 5' OF 3" - 45' TOTAL

11:21 - ADD 5' OF 3" - 50' TOTAL

11:24 - TURBIDITY (0.15) = 0.27 ntu

11:30 - AIR ON

11:37 - DOWN 50' BTOC

• ADD 10' - 60' TOTAL

11:50 - TURBIDITY = 0.10 ntu

11:58:00 - 3" IS PLUGGING - 1 mlt

12:30 - LUNAR BREAK

13:00 - BACK TO AIR DECK.

13:10 - OUT TO TPGW-11

14:45 - E TPGW-11 - loading gravel onto barge

15:00 - ADDING GRAVEL (13 BAGS)

15:20 - REMAIN 5' OF 6" TO 54' BTOC (55' OF CASING)

16:21 - ADDING GRAVEL

16:40 - OUT OF GRAVEL @ 55' BTOC

- RUN DUMMIE - ✓ - OK.

16:50 - OFF TO LAND.

17:15 - out.

FROM TPGW-14:

- TURBIDITY OUTSIDE OF BOOM WAS STEADY @ 0.10 ntu
- Depth 90' BTOC.
- RX-OBSTRUCTION IN BOTTOM OF 3" (require) B.V. to TRIP out
- HOLE CAVED IN TO/E @ 50' BTOC.