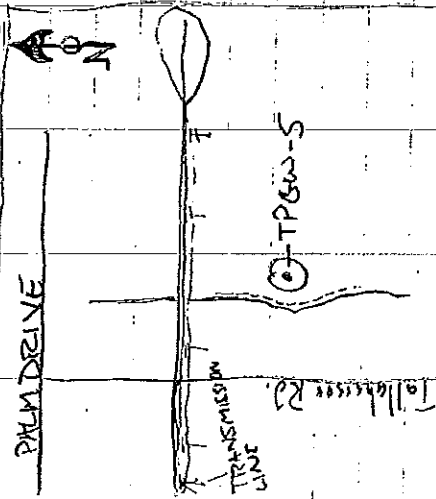


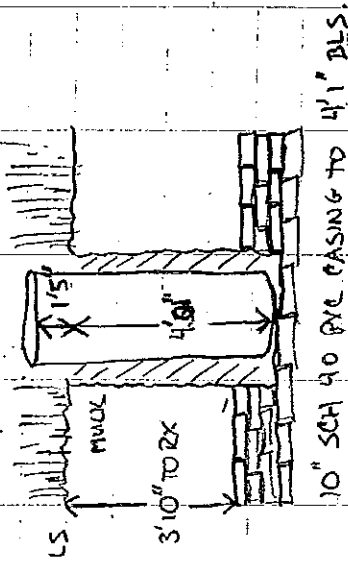
# 4/21/10 TPGW-5 SURFACE CASING SITE LOCATION MAP TPGW-5



LAT:

LON:

## SURFACE CASING TPGW-5

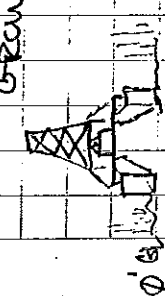


17:30 - LEAVING BACK TO TRUCK.

# 4/21/10 TPGW-5 CORING

| DEPTH | MIN   | SEC   | WGS | RECOVERY |
|-------|-------|-------|-----|----------|
| 10:19 | START | CR #1 |     |          |
| 10:22 | END   | CR #1 |     |          |
| 10:24 |       |       |     |          |
| 10:25 |       |       |     |          |
| 10:26 |       |       |     |          |
| 10:27 |       |       |     |          |
| 10:28 |       |       |     |          |
| 10:29 |       |       |     |          |
| 10:30 |       |       |     |          |
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| 10:41 |       |       |     |          |
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| 10:43 |       |       |     |          |
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| 10:47 |       |       |     |          |
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| 10:50 |       |       |     |          |
| 10:51 |       |       |     |          |
| 10:52 |       |       |     |          |
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| 10:54 |       |       |     |          |
| 10:55 |       |       |     |          |
| 10:56 |       |       |     |          |
| 10:57 |       |       |     |          |
| 10:58 |       |       |     |          |
| 10:59 |       |       |     |          |
| 11:00 |       |       |     |          |

GROUND LEVEL TO TOP OF MUD PAN = 6.9'  
CORE BARREL 13.5' LONG - RUN # 4-6



GO TO CREATE TPGW-10 DEEPEN  
GROUNDING PLAN.

4/21/10

TPGW-5 CORING

11:51:48 START RUN #2

| DEPTH    | MIN        | SEC | NOTES                        |
|----------|------------|-----|------------------------------|
| 6-7      | 00         | 26  | 3" "OF 60"                   |
| 7-8      | 00         | 36  | 5% recovery                  |
| 8-9      | 00         | 25  |                              |
| 9-10     | 00         | 25  | W.C. = 3"                    |
| 10-11    | 00         | 45  | D.R.S. = 0"                  |
| 11:54:28 | END RUN #2 |     |                              |
| 6.5      | 00         | 15  |                              |
| 7.5      | 00         | 23  | - Paleol. weathering surface |
| 8.5      | 00         | 09  |                              |
| 9.5      | 00         | 08  | - L. irregular               |
| 10.5     | 00         | 16  |                              |

FAST ROTATION BIT

• LITTLE FIRMNESS ~ 10' BLS.

• 11' @ COR 37 ET

11:54 TD CR #2 @ ~ 11' 3" BLS.

91

| DEPTH                          | MIN                               | SEC | START RUN #3 | NOTES                            |
|--------------------------------|-----------------------------------|-----|--------------|----------------------------------|
| 11-12                          | 01                                | 06  |              | 0 "OF 60"                        |
| 12-13                          | 02                                | 53  |              | 0 % REC.                         |
| 13-14                          | 02                                | 05  |              |                                  |
| 14-15                          | 03                                | 14  |              | W.C. = 0                         |
| 15-16                          | 02                                | 16  |              | RUB = 0                          |
| 12:12                          | END CR #3                         |     |              |                                  |
| 11.5'                          | 00                                | 16  |              |                                  |
| 12.5'                          | 01                                | 08  |              |                                  |
| 13.5'                          | 01                                | 06  |              | - Circ. Stopped - weather 2' BLS |
| 14.5'                          | 01                                | 24  |              | - Grey sand conc. on casts       |
| 15.5'                          | 01                                | 19  |              |                                  |
| - SLOWER ROTATION on THIS D.P. |                                   |     |              |                                  |
| - SLOWER DRILLING              |                                   |     |              |                                  |
| 17' 5"                         | - INC ROTATION SPEED - STILL FIRM |     |              |                                  |
| ~ 14' 2"                       | - Rotation stalled.               |     |              |                                  |
| • 16' @ 01:56 ET               |                                   |     |              |                                  |
| 21:12:48 TD CR #3 @ 16' 3" BLS |                                   |     |              |                                  |
| • NO REC.!                     |                                   |     |              |                                  |

4/21/10

TPGW-5 Coreline

0122145 STACT RUN #4

| DEPTH | MIN | SEC | NOTES      |
|-------|-----|-----|------------|
| 16-17 | 00  | 44  | 18 "cf 60" |
| 17-18 | 01  | 13  | 30 % REC.  |
| 18-19 | 01  | 53  |            |
| 19-20 | 00  | 28  | WL 0       |
| 20-21 | 00  | 35  | RWS 18     |
| 21-22 | END |     |            |
| 16.5  | 00  | 29  |            |
| 17.5  | 00  | 55  |            |
| 18.5  | 00  | 22  |            |
| 19.5  | 00  | 08  |            |
| 20.5  |     |     |            |

↑ REC.

216002827

- MIXED T.M.

12:28 END CR #4 @ ~ 21' 3" B.S.

| DEPTH | MIN | SEC | NOTES      | RWS #5 |
|-------|-----|-----|------------|--------|
| 21-22 | 00  | 45  | 27 "cf 60" |        |
| 22-23 | 00  | 57  | 45 % REC.  |        |
| 23-24 | 01  | 38  |            |        |
| 24-25 | 02  | 48  | WL 5"      |        |
| 25-26 | 02  | 45  | RWS 22'    |        |
| 26-27 | END |     |            |        |
| 21.5  | 00  | 21  | ↑ CIR      |        |
| 22.5  | 00  | 22  |            |        |
| 23.5  | 00  | 45  |            |        |
| 24.5  | 01  | 25  |            |        |
| 25.5  | 01  | 28  |            |        |

- MIXED T.M.

~ 22' 10" - 1: #1 firmer

- inc. rotation speed

~ 24' 5" firmer.

26' @ 02' 28 CT

12:45 TD CR #5 @ ~ 26' 3" B.S.

4/21/10

TPGW-5 CORING

| DEPTH | MIN       | SEC | NOTES            |
|-------|-----------|-----|------------------|
| 26-27 | 01        | 00  | 38 "OF 60"       |
| 27-28 | 02        | 03  | 63 % REC,        |
| 28-29 | 01        | 19  |                  |
| 29-30 | 02        | 31  | WC = 20          |
| 30-31 | 01        | 27  | RUB = 18         |
| 13:02 | END CR #6 |     |                  |
| 26.5  | 00        | 36  | Circulation      |
| 27.5  | 01        | 02  | - fine gray sand |
| 28.5  | 00        | 33  | on core          |
| 29.5  | 01        | 10  | - sandy rubble   |
| 30.5  | 00        | 24  |                  |

~27' 11" - little better penetration  
 ~28' 10" - little slower penetration  
 ~29' 11" - softer.  
 ~30' 7" - little finer  
 ~31' 0" ~ 01:19 ET

13:02 TD CR # 6 @ ~31' 3" b/s

95

| DEPTH | MIN       | SEC | NOTES              |
|-------|-----------|-----|--------------------|
| 31-32 | 02        | 52  | 58 "OF 60"         |
| 32-33 | 01        | 42  | 97 % REC           |
| 33-34 | 01        | 03  |                    |
| 34-35 | 01        | 43  | WC = 55"           |
| 35-36 | 01        | 54  | RUB = 23"          |
| 13:22 | END CR #7 |     |                    |
| 31.5  | 01        | 18  | - weak circulation |
| 32.5  | 01        | 04  |                    |
| 33.5  | 00        | 22  | - no circulation   |
| 34.5  | 00        | 45  |                    |
| 35.5  | 00        | 59  |                    |

13:22 TD CR # 7 @ ~36' 3" b/s.

11/21/10 TPGW-5 CORING

13:39 RUN 18

| DEPTH | MIN: SEC  | NOTES      |
|-------|-----------|------------|
| 36-37 | 01:17     | 37 "OF 60" |
| 37-38 | 00:36     | 62 "2 REC  |
| 38-39 | 01:07     |            |
| 39-40 | 01:21     | WC = 26"   |
| 40-41 | 00:55     | RWS = 11"  |
| 13:45 | END CR #8 |            |
| 36.5  | 00:27     |            |
| 37.5  | 00:10     |            |
| 38.5  | 00:34     |            |
| 39.5  | 00:43     |            |
| 40.5  | 00:33     |            |

~37'8" - Farmer

- 41'00:49 ET

13:45 - TD CR # 8 @ ~41'3" BLS

97

13:56 RUN #9

| DEPTH | MIN: SEC  | NOTES      |
|-------|-----------|------------|
| 41-42 | 01:35     | 45 "OF 60" |
| 42-43 | 01:58     | 75 "2 REC  |
| 43-44 | 00:55     |            |
| 44-45 | 00:39     | WC = 45"   |
| 45-46 | 00:33     | RWS = 0"   |
| 14:02 | END CR #9 |            |
| 41.5  | 00:39     |            |
| 42.5  | 01:09     |            |
| 43.5  | 00:31     |            |
| 44.5  | 00:25     |            |
| 45.5  | 00:21     |            |

~41'10" - Farmer

- 46'00:30 ET

14:02 - TD CR #9 @ ~46'2" BLS

14:19 - Wire line Cable broke  
 - AM DRILL MAKING REPAIRS  
 - Tripped at 10' of Casing String  
 - NEED TO GET CABLE FROM MINN  
 15:11 - BACK TO WORK

Go to TPGW-8 - Cement & Drummed  
 as per 14 - TPGW-4 - Cement - Drummed ex.  
 17:00 @ TPGW-10 - Well INSIDE & BACK EL

07:50 @ 12000 RIG #3

4/22/10 TPGW-5, COZING

| DEPTH | MIN: SEC   | RUN # | NOTES     |
|-------|------------|-------|-----------|
| 91.24 | 02:00      | 10    | 45" 60"   |
| 96.47 | 01:25      | 15    | 7% DEC.   |
| 97.48 | 03:04      |       |           |
| 98.49 | 01:52      |       | WC = 35"  |
| 99.50 | 01:40      |       | RUB = 10" |
| 09:40 | END CR #10 |       |           |
| 46.5  | 00:51      |       |           |
| 47.5  | 00:51      |       |           |
| 48.5  | 01:23      |       |           |
| 49.5  |            |       |           |
| 50.5  | 00:55      |       |           |

09:40 @ RIG.

09:24- READY TO CORE

- LITTLE DEEP ~ 47.6" TO 47.10" - thin firmer

~ 48' 8" - harder - pickup bit

- 51' @ 01:34 ET

09:40 TO CR #10 @ ~ 51' 2" BLS.

| DEPTH | MIN: SEC   | RUN # | NOTES    |
|-------|------------|-------|----------|
| 91.52 | 01:01      | 11    | 28" 60"  |
| 51-52 | 00:37      | 47    | 7% DEC.  |
| 52-53 | 01:11      |       |          |
| 53-54 | 00:16      |       | WC = 22" |
| 54-55 | 00:23      |       | RUB = 6" |
| 55-56 | END CR #11 |       |          |
| 51.5  | 00:38      |       |          |
| 52.5  |            |       |          |
| 53.5  | 00:53      |       |          |
| 54.5  | 00:05      |       |          |
| 55.5  | 00:09      |       |          |

- ~ 53' 7" - DROP TO BOTTOM/KD

56' @ 00:18 ET

91:58 - TO CR #11 @ ~ 56' 2" BLS

4/72/10

## TPGW-5 CORING

| DEPTH  | MIN | SEC   | Run # | NOTES        |
|--------|-----|-------|-------|--------------|
| 56-57  | 00  | 13    | 12    | 42" of 60"   |
| 57-58  | 00  | 59    |       | 70% Recovery |
| 58-59  | 01  | 16    |       |              |
| 59-60  | 01  | 29    |       | W = 30"      |
| 60-61  | 02  | 38    |       | RMS = 12"    |
| 61-62  | END | 24:12 |       |              |
| 56.5'  |     |       |       |              |
| 57.5'  | 00  | 21    |       |              |
| 58.5'  | 00  | 27    |       |              |
| 59.5'  | 00  | 41    |       |              |
| 60.5'  | 00  | 51    |       |              |
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4/22/10 TPGW-5 CORING

| DEPTH | MIN        | SEC | NOTES         |
|-------|------------|-----|---------------|
| 66-67 | 00         | 50  | 43 "OF 60"    |
| 67-68 | 02         | 16  | 72 % RECOVERY |
| 68-69 | 02         | 08  |               |
| 69-70 | 01         | 46  | W.C. = 32     |
| 70-71 | 00         | 16  | REMS = 11     |
| 11:23 | END CORING |     |               |
| 66.5  | 00         | 19  |               |
| 67.5  | 01         | 24  |               |
| 68.5  | 01         | 06  |               |
| 69.5  | 01         | 05  |               |
| 70.5  | 00         | 12  |               |

~67' 3" - FIRMER  
 ~70' 11" - DROP TO TD  
 - MIX TM.  
 71' @ CORING ET  
 11:23 TD @ R #14 @ ~71' 2" BUS

- sandy rubble

| DEPTH | MIN        | SEC | NOTES      |
|-------|------------|-----|------------|
| 71-72 | 01         | 49  | 25 "OF 60" |
| 72-73 | 01         | 05  | 42 % REC   |
| 73-74 | 00         | 38  |            |
| 74-75 | 00         | 56  | W.C. = 22  |
| 75-76 | 00         | 37  | REMS = 3   |
| 11:51 | END CORING |     |            |
| 71.5  | 01         | 04  |            |
| 72.5  | 00         | 32  |            |
| 73.5  | 00         | 21  |            |
| 74.5  | 00         | 32  |            |
| 75.5  | 00         | 23  |            |

- gray sand in rubble

- 76' @ 80:35 ET

11:51 TD @ ~76' 2" BUS

- TRUNCABLE GETTING CDB TO CORING



4/22/10 TP6W-5 CORING

2425 #16

ΣΖ:

| DEPTH  | MIN | SEC | NOTES                   |
|--------|-----|-----|-------------------------|
| 76-77  | 00  | 38  | " 60"<br>% RES          |
| 77-78  | 00  | 24  |                         |
| 78-79  | 00  | 22  |                         |
| 79-80  | 00  | 42  | " 0"<br>% RES           |
| 80-81  | 00  | 42  |                         |
| 81-82  | 00  | 22  | - Burnings<br>- Sanding |
| 82-83  | 00  | 22  |                         |
| 83-84  | 00  | 22  |                         |
| 84-85  | 00  | 22  |                         |
| 85-86  | 00  | 22  |                         |
| 86-87  | 00  | 22  |                         |
| 87-88  | 00  | 22  |                         |
| 88-89  | 00  | 22  |                         |
| 89-90  | 00  | 22  |                         |
| 90-91  | 00  | 22  |                         |
| 91-92  | 00  | 22  |                         |
| 92-93  | 00  | 22  |                         |
| 93-94  | 00  | 22  |                         |
| 94-95  | 00  | 22  |                         |
| 95-96  | 00  | 22  |                         |
| 96-97  | 00  | 22  |                         |
| 97-98  | 00  | 22  |                         |
| 98-99  | 00  | 22  |                         |
| 99-100 | 00  | 22  |                         |

S2:21  
S2:21  
- 02:00, 18 -

TPQ<sup>8</sup>, 5" BUS

S2:21

三

1745

| DEPTH | MIN: SEC  | NOTES           |
|-------|-----------|-----------------|
| 81-82 | 00:30     | 29' 45"         |
| 82-83 | 00:44     | 48% acc.        |
| 83-84 | 01:14     |                 |
| 84-85 | 00:54     | WC = 8          |
| 85-86 | 00:30     | TRBS = 21       |
| 12145 | END OF #7 |                 |
| 815   | 00:18     | - sandy rubble. |
| 825   | 00:14     |                 |
| 835   | 00:57     |                 |
| 845   | 00:37     |                 |
| 855   | 00:08     |                 |

8128 - Firmer.

86'00:16 G  
12145 ID @ ~ 80' Z " BCS

4/22/10 TP6-W-5 CORING

| TIME  | MIN | SEC | NOTES     |
|-------|-----|-----|-----------|
| 13:01 |     |     | RUN #18   |
| 86.5  | 00  | 21  | 0" of 60" |
| 87.5  | 00  | 17  | 0% REC    |
| 88.5  | 01  | 26  |           |
| 89.5  | 01  | 27  | WC - 0"   |
| 90.5  | 00  | 34  | REMS - 0" |
| 13:05 |     |     | SAND = 0" |
| 86.5  |     |     | SAND?     |
| 87.5  | 00  | 08  |           |
| 88.5  | 00  | 32  |           |
| 89.5  | 00  | 42  |           |
| 90.5  | 00  | 19  |           |

88' 5" - Firmer  
91' 00" - 28.20

13:05 TD 91' 12" ~ 91' 2" BLS.  
• NO RECOVERY!  
• Checking if core fell out  
• C.B. with m. 1/4" hole

| TIME  | MIN | SEC | NOTES                         |
|-------|-----|-----|-------------------------------|
| 13:11 |     |     | RUN #19                       |
| 91.47 | 00  | 39  |                               |
| 92.43 | 00  | 33  | 0" of 60"                     |
| 93.44 | 00  | 18  | 0% REC                        |
| 94.45 | 00  | 11  |                               |
| 95.46 | 00  | 26  |                               |
| 13:18 |     |     | END RUN #19                   |
| 91.5  | 00  | 18  | SAND?                         |
| 92.6  | 00  | 13  |                               |
| 93.5  | 00  | 12  |                               |
| 94.5  | 00  | 08  |                               |
| 95.5  | 00  | 15  |                               |
| 13:18 |     |     | 96' 00" 22.37                 |
|       |     |     | TD - 96' 2"                   |
|       |     |     | NO RECOVERY!                  |
|       |     |     | • CANNOT GET C.B. TO LOCK IN. |

4172/10 TRGW-5 CORING

| DEPTH   | MIN | SEC | RUN # | NOTES      |
|---------|-----|-----|-------|------------|
| 96-97   | 00  | 46  | 20    |            |
| 97-98   | 00  | 23  |       | "OF 60"    |
| 98-99   | 00  | 30  |       | % RECOVERY |
| 99-100  | 00  | 36  |       |            |
| 100-101 | 00  | 18  |       | W.C. = 0"  |
| 101-102 | 00  | 20  |       | RUB = 0"   |
| 102-103 | 00  | 14  |       | SAND?      |
| 103-104 | 00  | 16  |       |            |
| 104-105 | 00  | 12  |       |            |
| 105-106 | 00  | 10  |       |            |
| 106-107 | 00  | 17  |       |            |
| 107-108 | 00  | 14  |       |            |
| 108-109 | 00  | 16  |       |            |
| 109-110 | 00  | 21  |       |            |
| 110-111 | 00  | 10  |       |            |

101' CO: 17 ET  
 TD CR #20E ~ 101' 2" BLS  
 - NO RECOVERY  
 - AM DRILL WITH MIX  
 - TIGER MUD THICKER.  
 - AMD HAD PROBS. W/ WIRELINE  
 WHICH NOT SPOOLING CORRECTLY.

| DEPTH   | MIN | SEC | RUN # | NOTES      |
|---------|-----|-----|-------|------------|
| 101-102 | 00  | 21  |       |            |
| 102-103 | 00  | 14  |       | "OF 60"    |
| 103-104 | 00  | 16  |       | % RECOVERY |
| 104-105 | 00  | 15  |       |            |
| 105-106 | 00  | 09  |       | W.C. = 0"  |
| 106-107 | 00  | 07  |       | RUB = 0"   |
| 107-108 | 00  | 07  |       | SAND = 0"  |
| 108-109 | 00  | 08  |       |            |
| 109-110 | 00  | 08  |       |            |
| 110-111 | 00  | 03  |       |            |

106' E 00:06 ET  
 1410 TD CR #21E ~ 106' 2" BLS  
 NO RECOVERY

| TPGW-5 CORREL |        |            | RUN #22 |     | NOTES      |
|---------------|--------|------------|---------|-----|------------|
| DATE          | TIME   | SEC        | MIN     | SEC |            |
| 4/22/10       | 14:28  | 00         | 00      | 43  |            |
|               | 14:28  | 00         | 00      | 44  | 52" OF 60  |
|               | 14:28  | 00         | 00      | 32  | 87-90 REC  |
|               | 14:28  | 00         | 00      | 20  |            |
|               | 14:28  | 00         | 00      | 05  | SAND = 52" |
|               | 14:28  | END CR #22 |         |     |            |
|               | 106.5' |            |         |     |            |
|               | 107.5' | 18         |         |     |            |
|               | 108.5' |            |         |     |            |
|               | 109.5' | 11         |         |     |            |
|               | 110.11 | 00         | 00      |     |            |

|       |       |    |    |    |           |
|-------|-------|----|----|----|-----------|
| 14:28 | 14:28 | 00 | 00 | 11 | 2" BLS    |
|       |       |    |    |    | 85, 3 1/2 |

| TPGW-5 CORREL |       |            | RUN #03 |     | NOTES        |
|---------------|-------|------------|---------|-----|--------------|
| DATE          | TIME  | SEC        | MIN     | SEC |              |
| 4/22/10       | 14:40 | 00         | 00      | 11  |              |
|               | 14:40 | 00         | 00      | 20  | 44" OF 60    |
|               | 14:40 | 00         | 00      | 16  | 73% RECOVERY |
|               | 14:40 | 00         | 00      | 12  | SAND = 44"   |
|               | 14:40 | 00         | 00      | 23  |              |
|               | 14:40 | END RUN #3 |         |     |              |
|               | 111.5 |            |         |     |              |
|               | 112.5 | 00         | 00      | 14  |              |
|               | 113.5 | 00         | 00      | 08  |              |
|               | 114.5 | 00         | 00      | 07  |              |
|               | 115.5 |            |         |     |              |

|       |       |    |    |    |                              |
|-------|-------|----|----|----|------------------------------|
| 14:42 | 14:42 | 00 | 00 | 16 | 2" BLS                       |
|       |       |    |    |    | * TD TPGW-5 @ 116' BLS       |
|       |       |    |    |    | - TAG - 121.5' - 7' = 114.5' |
|       |       |    |    |    | - SOFT TAG                   |
|       |       |    |    |    | 15 BOXES USED                |