Company FLORIDA POWER & LIGHT
Well PW-1
Field WEST COUNTY ENERGY CENTER
County PALM BEACH
State FL

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YOUNGQUIST BROTHERS, Inc.
Geophysical Logging & Consulting Services

FLUID CONDUCTIVITY TEMPERATURE LOG

PALM BEACH COUNTY, FL

Elevations: KB, DF, GL

Permanent Datum: GROUND LEVEL
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Date: 31-Oct-07
Run Number: ONE
Depth Driller: 1000
Depth Logger: 1000
Bottom Logged Interval: 1000
Top Logged Interval: SURFACE
Casing Driller: 20 @ 1000
Casing Logger:
Bit Size: 17.5
Type Fluid in Hole: SALT WATER
Density / Viscosity: 10.2 / 28
pH / Fluid Loss:
Source of Sample: PUMPED
Rm @ Meas Temp: 0.2 @ 70
Rmf @ Meas Temp: 0.2 @ 70
Rmc @ Meas Temp: 0.2 @ 70
Source of Rmf / Rmc: MEASURED / MEASURED
Rm @ BHT: 0.2 @ 70
Time Since Circulation: 12 HOURS
Time on Bottom: 1300
Max Rec Temp: 70 DEGF
Equipment / Location: 5 / PBCO
Recorded By: J. SCHMIDT
Witnessed By: J. SCHMIDT

FCT Field Data (1)

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except to the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

DYNAMIC FLOWRATE = 840 GPM

YOUNGQUIST BROTHERS, Inc.
Geophysical Logging & Consulting Services

# MERGED FCT

Database File: fdpw-1.db
Dataset Pathname: run5/dset5
Presentation Format: FRT_MG
Dataset Creation: Wed Jul 11 21:16:40 2007 by Log 8.2_64
Charted by: Depth in Feet scaled 1:240

| 75 | DYNAMIC TEMP (degF) | 95 |
|---|---|---|
| 75 | STATIC TEMP (degF) | 95 |

| 20 | DYNAMIC FLUID CONDUCTIVITY (uS) | 200000 |
|---|---|---|
| 20 | STATIC FLUID CONDUCTIVITY (uS) | 200000 |

| DEPTH | DYNAMIC TEMP (degF) | STATIC TEMP (degF) | DYNAMIC FLUID CONDUCTIVITY (uS) | STATIC FLUID CONDUCTIVITY (uS) |
|---|---|---|---|---|
| 400 | 89.1 | 89.3 | 15382 | 15382 |
| | 89.2 | 89.3 | 15394 | 15394 |
| | 89.2 | 89.3 | 15411 | 15411 |
| | 89.2 | 89.3 | 15367 | 15367 |
| | 89.2 | 89.3 | 15342 | 15342 |
| | 89.1 | 89.3 | 15323 | 15323 |
| | 89.0 | 89.3 | 15360 | 15360 |
| | 89.0 | 89.3 | 15365 | 15365 |
| | 89.0 | 89.3 | 15325 | 15325 |
| 500 | 89.0 | 89.3 | 15316 | 15316 |
| | 89.0 | 89.3 | 15296 | 15296 |
| | 88.9 | 89.3 | 15330 | 15330 |
| | 89.0 | 89.3 | 15274 | 15274 |
| | 89.0 | 89.3 | 15299 | 15299 |
| 550 | 89.0 | 89.3 | 15315 | 15315 |
| | 89.0 | 89.3 | 15269 | 15269 |
| | 89.0 | 89.3 | 15256 | 15256 |
| | 89.0 | 89.3 | 15298 | 15298 |
| | 89.0 | 89.3 | 15251 | 15251 |
| 600 | 89.0 | 89.3 | 15221 | 15221 |
| | 89.0 | 89.3 | 15245 | 15245 |
| | 89.0 | 89.3 | 15217 | 15217 |
| | 88.9 | 89.3 | 15183 | 15183 |
| | 89.0 | 89.3 | 15229 | 15229 |
| 650 | 89.0 | 89.3 | 15215 | 15215 |
| | 89.0 | 89.3 | 15178 | 15178 |
| | 89.0 | 89.3 | 15196 | 15196 |
| | 89.0 | 89.3 | 15198 | 15198 |
| | 89.0 | 89.3 | 15125 | 15125 |
| 700 | 89.1 | 89.3 | 15129 | 15129 |
| | 89.1 | 89.3 | 15204 | 15204 |
| | 89.1 | 89.3 | 15164 | 15164 |
| | 89.1 | 89.3 | 15113 | 15113 |
| | 89.1 | 89.3 | 15171 | 15171 |
| 750 | 89.1 | 89.3 | 15067 | 15067 |
| | 89.1 | 89.3 | 15098 | 15098 |
| | 89.1 | 89.3 | 15142 | 15142 |
| | 89.1 | 89.3 | 15110 | 15110 |
| | 89.1 | 89.3 | 15105 | 15105 |
| 800 | 89.2 | 89.3 | 15130 | 15130 |
| | 89.2 | 89.3 | 15096 | 15096 |
| | 89.2 | 89.3 | 15132 | 15132 |
| | 89.2 | 89.3 | 15121 | 15121 |
| | 89.2 | 89.3 | 15071 | 15071 |
| 850 | 89.2 | 89.3 | 15055 | 15055 |
| | 89.2 | 89.3 | 15099 | 15099 |
| | 89.2 | 89.3 | 15058 | 15058 |
| | 89.2 | 89.3 | 15045 | 15045 |
| | 88.9 | 89.3 | 15060 | 15060 |
| 900 | 88.8 | 89.3 | 15101 | 15101 |
| | 88.8 | 89.3 | 15085 | 15085 |
| | 88.8 | 89.3 | 15098 | 15098 |
| | 88.8 | 89.3 | 14992 | 14992 |
| | 88.7 | 89.3 | 14923 | 14923 |
| 950 | 88.7 | 89.3 | 14870 | 14870 |
| | 88.6 | 89.3 | 14910 | 14910 |
| | 88.5 | 89.3 | 14371 | 14371 |
| | 88.5 | 89.3 | 14363 | 14363 |
| 1000 | 88.4 | 89.3 | 6404 | 13728 |
| | 88.3 | 89.3 | 11454 | 13902 |
| | 88.3 | 89.3 | 11499 | 13198 |
| | 88.2 | 89.3 | 11808 | 12957 |
| | 88.0 | 89.3 | 11814 | 12300 |
| | 88.0 | 89.3 | 12314 | 11858 |
| | 87.9 | 89.3 | 13538 | 11468 |
| | 87.9 | 89.3 | 14376 | 11431 |
| | 87.9 | 89.3 | 14740 | 11437 |
| | 87.9 | 89.3 | 14740 | 11485 |
| 1100 | 87.9 | 89.3 | 14679 | 11546 |
| | 87.9 | 89.3 | 14813 | 11656 |
| | 87.9 | 89.3 | 14855 | 11801 |
| | 87.9 | 89.3 | 14721 | 12054 |
| | 87.9 | 89.3 | 14733 | 12463 |
| 1150 | 88.0 | 89.3 | 14667 | 12395 |
| | 88.0 | 89.3 | 15036 | 14401 |
| | 88.0 | 89.3 | 15268 | 14674 |
| | 87.9 | 89.3 | 15389 | 14724 |
| | 87.9 | 89.3 | 15564 | 14698 |
| 1200 | 87.9 | 89.3 | 15734 | 14690 |
| | 87.9 | 89.3 | 15724 | 14694 |
| | 87.9 | 89.3 | 15489 | 14742 |
| | 87.9 | 89.3 | 15101 | 14731 |
| | 87.8 | 89.3 | 14722 | 14728 |
| 1250 | 87.8 | 89.3 | 14591 | 14646 |
| | 87.8 | 89.3 | 14590 | 14635 |
| | 87.8 | 89.3 | 14602 | 14698 |
| | 87.8 | 89.3 | 14579 | 14697 |
| | 87.8 | 89.3 | 14569 | 14657 |
| 1300 | 88.0 | 89.3 | 14575 | 15097 |
| | 87.8 | 89.3 | 14590 | 15197 |
| | 87.8 | 89.3 | 14612 | 15401 |
| | 87.8 | 89.3 | 14612 | 15459 |
| | 87.8 | 89.3 | 14600 | 15525 |
| 1350 | 87.8 | 89.3 | 14571 | 15009 |
| | 87.8 | 89.3 | 14580 | 15763 |
| | 87.8 | 89.3 | 14516 | 15731 |
| | 87.8 | 89.3 | 14447 | 15783 |
| | 87.8 | 89.3 | 14422 | 15548 |
| 1400 | 87.8 | 89.3 | 14454 | 15152 |
| | 87.8 | 89.3 | 14677 | 14741 |
| | 88.0 | 89.3 | 15028 | 14694 |
| | 88.0 | 89.3 | 15046 | 14726 |
| | 88.0 | 89.3 | 15101 | 14734 |
| 1450 | 88.0 | 89.3 | 15131 | 14754 |
| | 88.0 | 89.3 | 15133 | 14705 |
| | 88.0 | 89.3 | 15049 | 14699 |
| | 88.0 | 89.3 | 14957 | 14698 |
| | 88.0 | 89.3 | 14880 | 14714 |
| 1500 | 88.0 | 89.3 | 14898 | 14698 |
| | 88.0 | 89.3 | 15136 | 14698 |
| | 88.0 | 89.3 | 16095 | 14683 |
| | 88.2 | 88.0 | 18427 | 15491 |
| | 88.2 | 88.1 | 18887 | 15524 |
| 1550 | 88.2 | 88.2 | 18877 | 15211 |
| | 88.2 | 88.2 | 18748 | 19192 |
| | 88.2 | 88.2 | 18806 | 19280 |
| | 88.2 | 88.2 | 18811 | 19188 |
| | 88.2 | 88.2 | 18818 | 19258 |
| 1600 | 88.2 | 88.2 | 18801 | 19314 |
| | 88.2 | 88.2 | 19280 | 19640 |
| | 88.2 | 88.2 | 20027 | 20069 |
| | 88.2 | 88.2 | 20044 | 20048 |
| | 88.2 | 88.2 | 20040 | 20362 |
| 1650 | 88.2 | 88.2 | 20339 | 20831 |
| | 88.2 | 88.2 | 20466 | 20733 |
| | 88.2 | 88.2 | 20753 | 21023 |
| | 88.1 | 88.1 | 20753 | 21067 |
| | 88.1 | 88.1 | 20912 | 21179 |
| 1700 | | | | |

| 75 | DYNAMIC TEMP (degF) | 95 |
|---|---|---|
| 75 | STATIC TEMP (degF) | 95 |

| 20 | DYNAMIC FLUID CONDUCTIVITY (uS) | 200000 |
|---|---|---|
| 20 | STATIC FLUID CONDUCTIVITY (uS) | 200000 |

FRT Calibration Report

| | |
|---|---|
| Serial Number: | 31 |
| Tool Model: | SONDEX |
| Performed: | Wed Jul 12 08:38:31 2006 |

| Point # | Reading | | Reference | |
|---|---|---|---|---|
| 1 | 33.017 | cps | 1000.000 | |
| 2 | 173.177 | cps | 10000.000 | |
| 3 | 445.517 | cps | 25000.000 | |
| 4 | 965.667 | cps | 50000.000 | |
| 5 | | cps | | |
| 6 | | cps | | |

Temperature Calibration Report

| | |
|---|---|
| Serial Number: | 31 |
| Tool Model: | SONDEX |
| Performed: | Tue Feb 27 11:21:18 2007 |

| Point # | Reading | | Reference | |
|---|---|---|---|---|
| 1 | 129.595 | cps | 41 | degF |
| 2 | 305.462 | cps | 70 | degF |
| 3 | 697.392 | cps | 156 | degF |

TEMP: 4.76 ft
PRES: 5.96 ft

TEMP-SONDEX -03
10.00 ft 1.00 in 0.00 0.00 ft

PRESSURE -03
10.00 ft 1.00 in 0.00 0.00 ft

Dataset: run5/dset5
Total Length: 1.00 ft
Tool Length: 10.00 ft
O.D.: 1.69 in