

30-015-39499

Occidental Permian Ltd.
5 Greenway Plaza Suite 110
Houston Tx 77046

Date: May 24, 2012

Attention: Carlos Mercado
Jennifer Duarte

Re: Occidental Permian Ltd
Piglet 21 State #4
Eddy County, New Mexico

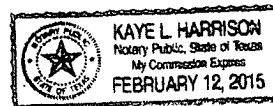
Enclosed, please find the original survey performed on the referenced well by Savanna 415 using Weatherford's AMS tool. Other information required by your office is as follows:

Name & Title Of Surveyor	Surveyed Depths	Dates Performed	Type of Survey
Savanna 415	618' MD to 4934' MD	02/26/2012 02/29/2012	AMS Inc/Azim

On this, the 25 day of May, 2012, before me a notary public, the undersigned officer, personally appeared Brandon Wells, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Kaye L. Harrison
Notary Public

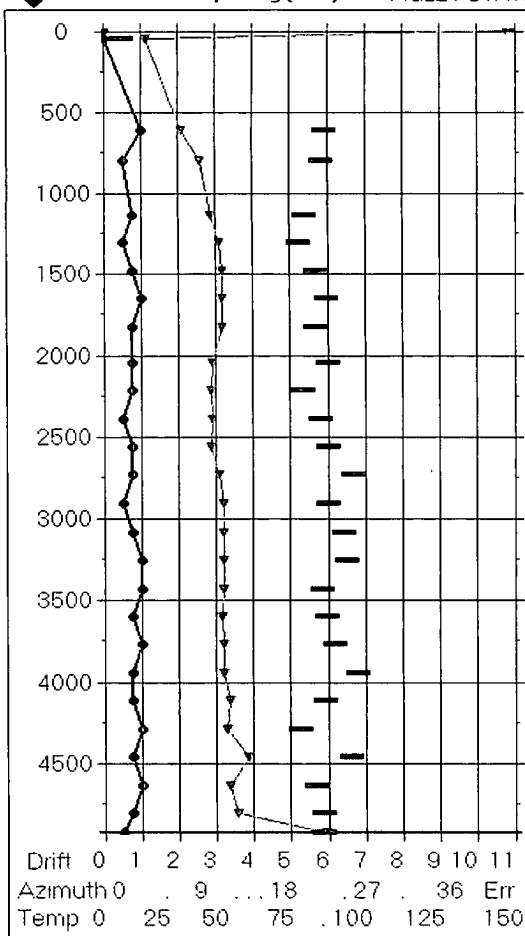


Depth Log (Feet)

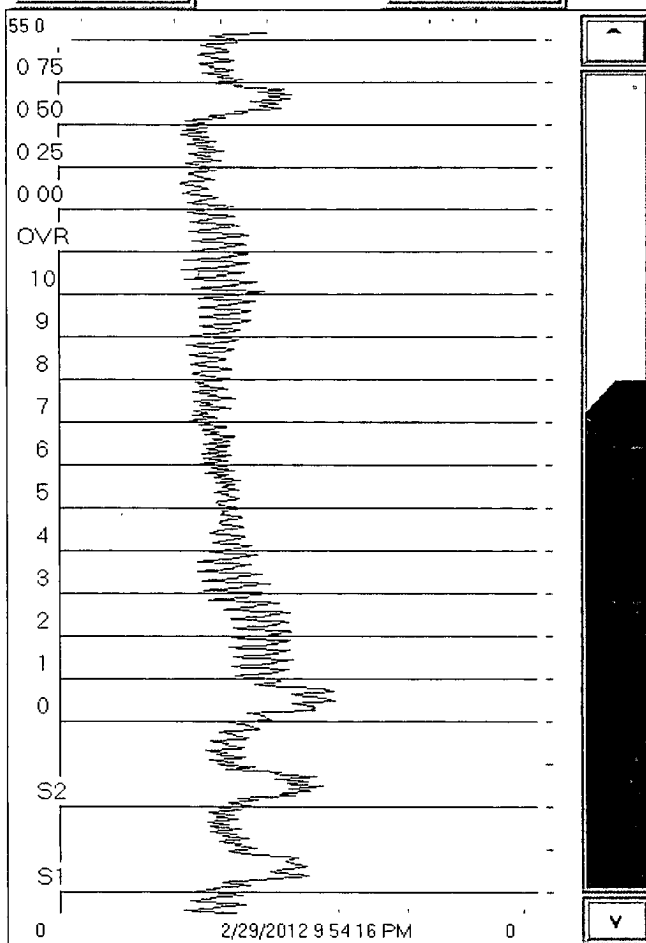
PIGLET STATE 21 4

Retest Survey

Find Survey



Zoom In



(c) 2006 Weatherford

Temperature

83

Azimuth (TRUE)

212.2

Drift

0.5

Depth (Feet)

4934

IDLE

0

OPTION

Logging Program System Parameters

02/Mar/2012

Well Name

PIGLET STATE 21 4

File Size (KBytes) 512

Legal SubDivision

PIGLET STATE 21 4

Notes

TARELLANO

AFE #

Apply ambient
pressure to
transducer and
press Calibrate

Client Name

operator

Creation Date

25/Feb/2012

Service Order #

13312

CSS #

WOL 8413

Calibrate

DMT #

098

Battery #

403158645DL2

Filter Size

600

Pulser #

4C-181

Declination

7.2

Transducer #

5K

Azimuth Pulse Period

1500 mSec

Pump On Pressure

150

Survey Duration

131 Sec

Baseline Pressure

1090

Time Till Autostart

35 Sec

Pulse Range

30

Pump Off Time

95 Sec

Pressure Transducer
Full Scale Pressure

5000

Error Msg Timeout

300 Sec

Acquisition Options

- ☒ A/D Enabled
☐ Wrap Data Continuously
☐ Automatic Filtering

RESTART

Depth Scale

- ☐ Meters
☒ Feet

Pressure Scale

- ☒ PSI
☐ kPascals
☐ BAR

CLR LOG

DOWNLOAD

Tool Type

- ☐ DMT 3500
☒ AMS 2000

CANCEL

OPTION

Time of Day (HR MIN) 14:51

(c) 2006 Weatherford Canada Partnership

D:\DMTData\PIGLET STATE 21 4\PIGLET STATE 21 4.txt

Depthlog Information

Data File Version: 14
Logfile created with DMT Surface Plotter Rev W2.01g
Legal Subdivision: PIGLET STATE 21 4
Well Name: PIGLET STATE 21 4
AFE Number:
Creation Date: 25/02/12 00:00:25
Number of Surveys: 27
Service Order Number:
CSS Number: WOL 8413
DMT Number: 098
Battery Number: 403158645DL25
Pulser Number: 4C-181
Client Name: operator
Deepest Entry: 4934
Depth is measured in : FEET
Pulse Range: 1120 PSI
Baseline Pressure: 1090 PSI
Full Scale Pressure: 5000 PSI
Client used: PSI
File Size (KBytes): 512
Survey Comment: "T ARELLANO"
Transducer Calibration Value: 13312 A/D Counts
Transducer Number: 5K
Pump Timeout Delay: 95
System Timeout Delay: 35
Tool Type: AMS 2000
Declination: 7.2
Azimuth Pulse Period: 1500
Azimuth Pulse Width: 500
Histogram Filter Size: 600
Hardware AtoD Rate: 1000 Samples/Sec
Software AtoD Usage Rate: 1000 Samples/Sec

Azimuth Error Codes

Azimuth > 360 is invalid angle or error code.
Error 420 -- MAG FP Number Overrange
Error 421 -- Missing Drift Start Bits
Error 422 -- Missing Drift Angle Bits
Error 423 -- Missing Drift Fraction Bits
Error 424 -- Multiple Drift Angle Bits
Error 425 -- Stuff Bit Error
Error 430 -- Missing Azimuth Stop bit.
Error 431 -- Missing Azimuth Start Bit.
Error 435 -- Parity Error.
Error 440 -- QFLEX Drift Angle too high.
Error 450 -- QFLEX EEROM Parity Error.
Error 460 -- Azimuth Angle too high.
Error 461 -- Temperature Value too high.

Date	Time	Depth	Drift	Azimuth[T]	Temperature	Record#
26/02/12	00:24:26	58	0.00	19.1	16	2
26/02/12	11:17:26	618	1.00	213.2	29	3
26/02/12	17:07:26	803	0.50	211.2	36	6
26/02/12	19:46:26	1142	0.75	194.2	40	9
26/02/12	22:12:26	1315	0.50	188.2	43	13
27/02/12	00:16:27	1488	0.75	204.2	44	17
27/02/12	02:42:27	1661	1.00	215.2	44	21
27/02/12	05:07:27	1834	0.75	205.2	44	26
27/02/12	08:44:27	2050	0.75	217.2	41	28
27/02/12	11:07:27	2223	0.75	193.2	40	32
27/02/12	13:57:27	2396	0.50	209.2	41	36
27/02/12	15:31:27	2568	0.75	217.2	40	39
27/02/12	17:40:27	2741	0.75	240.2	43	41
27/02/12	20:41:27	2914	0.50	217.2	45	44
27/02/12	23:11:27	3087	0.75	232.2	45	48
28/02/12	01:54:28	3260	1.00	234.2	45	52
28/02/12	04:44:28	3433	1.00	211.2	45	56
28/02/12	07:54:28	3605	0.75	215.2	44	59
28/02/12	11:40:28	3778	1.00	222.2	45	61
28/02/12	16:33:28	3951	0.75	245.2	45	64
28/02/12	20:43:28	4124	0.75	213.2	47	66
29/02/12	01:41:29	4297	1.00	190.2	46	70
29/02/12	05:06:29	4470	0.75	239.2	54	73
29/02/12	09:35:29	4642	1.00	204.2	47	75
29/02/12	16:31:29	4815	0.75	212.2	50	80
29/02/12	19:50:29	0	0.00	410.0	151	82
29/02/12	21:54:29	4934	0.50	212.2	83	83