

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

Date: May 24, 2012

Attention: Carlos Mercado
Jennifer Duarte

30-015-39496

Re: Occidental Permian Ltd
Roo 22 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:

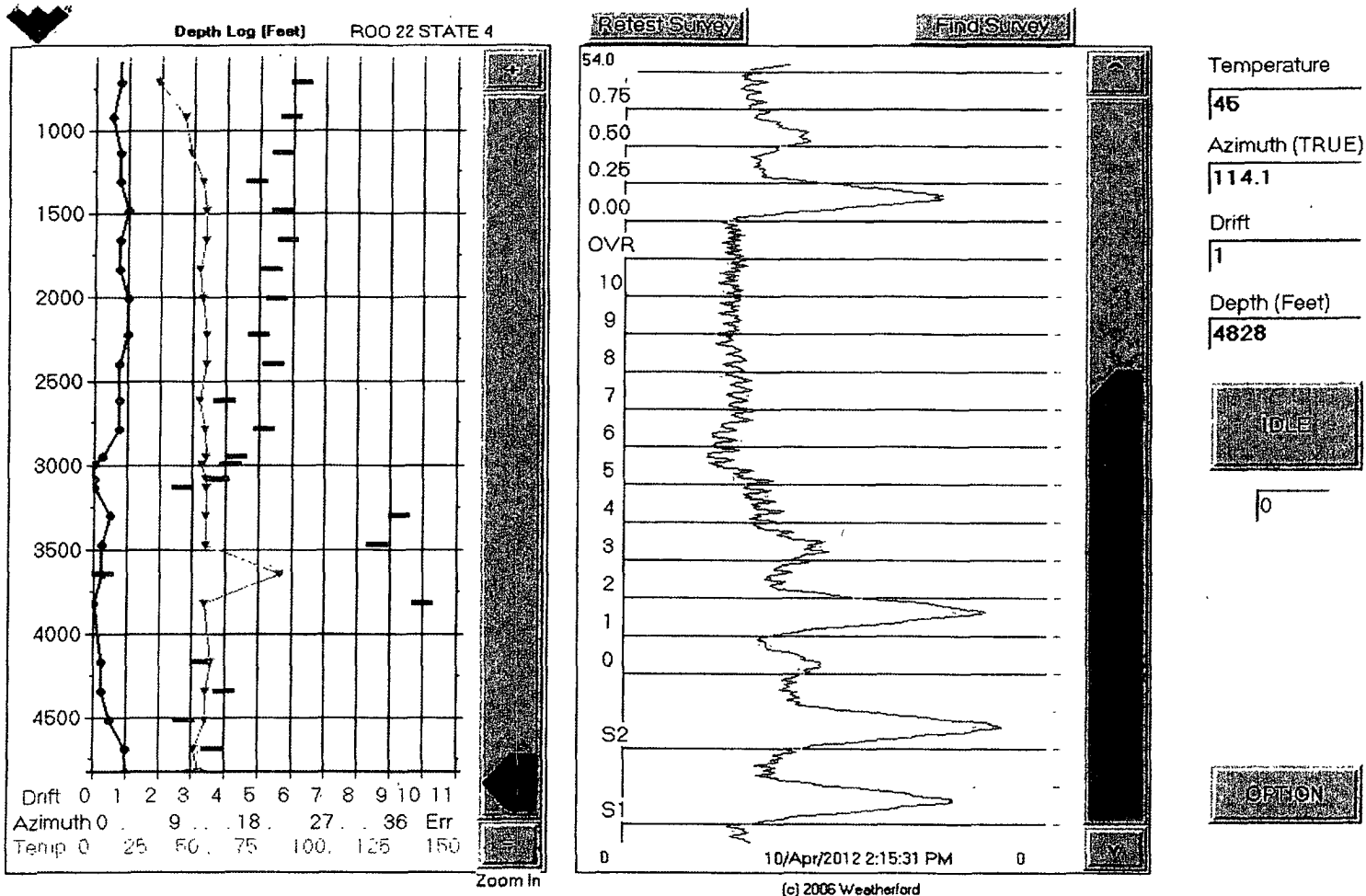
Name & Title Of Surveyor	Surveyed Depths	Dates Performed	Type of Survey
Savanna 415	568' MD to 4828' MD	04/05/2012 04/10/2012	AMS Inc/Azim

On this, the 25 day of May, 2012, before me a notary public, the undersigned officer, personally appeared Gordon 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 whereof, I hereunto set my hand and official seal.

Kaye L. Harrison
Notary Public





Logging Program System Parameters

11/Apr/2012

Well Name	ROO 22 STATE 4	File Size (KBytes)	23296
Legal SubDivision	ROO 22 STATE 4	Notes	MATT KING
AFE #	1140879	Client Name	OXY
Creation Date	04/Apr/2012	Apply ambient pressure to transducer and press Calibrate	
Service Order #	4026034	13431	
CSS #	ASK 3292	Calibrate	
DMT #	AMS-024	Filter Size	600
Battery #	403158646/DL2	Declination	7.1
Pulser #	4C4E 293	Azimuth Pulse Period	1500 mSec
Transducer #	5K HAMMER UNION	Survey Duration	131 Sec
Pump On Pressure	150	Time Till Autostart	35 Sec
Baseline Pressure	0	Pump Off Time	90 Sec
Pulse Range	5000	Error Msg Timeout	35 Sec
Pressure Transducer Full Scale Pressure	5000	Time of Day (HR:MIN)	12:42

Acquisition Options

☐ A/D Enabled

☐ Wrap Data Continuously

☐ Automatic Filtering

Restart

Depth Scale

☐ Meters

☒ Feet

Pressure Scale

☒ PSI

☐ kPascals

☐ BAR

Tool Type

☐ DMT 3500

☒ AMS 2000

Download

Cancel

OPTION

F:\DMTData\ROO 22 STATE 4\ROO 22 STATE 4.txt

Depthlog Information

Data File Version: 14
Logfile created with DMT Surface Plotter Rev W2.01g
Legal Subdivision: ROO 22 STATE 4
Well Name: ROO 22 STATE 4
AFE Number: 1140879
Creation Date: 04/04/12 00:00:04
Number of Surveys: 28
Service Order Number: 4026034
CSS Number: ASK 3292
DMT Number: AMS-024
Battery Number: 403158646/DL22
Pulser Number: 4C4E 293
Client Name: OXY
Deepest Entry: 4828
Depth is measured in : FEET
Pulse Range: 5000 PSI
Baseline Pressure: 0 PSI
Full Scale Pressure: 5000 PSI
Client used: PSI
File Size (KBytes): 23296
Survey Comment: "MATT KING"
Transducer Calibration Value: 13431 A/D Counts
Transducer Number: 5K HAMMER UNION
Pump Timeout Delay: 90
System Timeout Delay: 35
Tool Type: AMS 2000
Declination: 7.1
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#
05/04/12	08:02:05	95	0.50	3.1	27	20
05/04/12	10:08:05	568	0.75	132.1	28	21
05/04/12	10:54:05	717	0.75	226.1	27	22
05/04/12	14:44:05	931	0.50	214.1	38	24
05/04/12	17:09:05	1145	0.75	205.1	41	26
05/04/12	19:44:05	1320	0.75	177.1	46	28
05/04/12	22:09:05	1494	1.00	204.1	47	32
06/04/12	01:04:06	1667	0.75	211.1	47	37
06/04/12	04:19:06	1839	0.75	192.1	45	41
06/04/12	09:48:06	2012	1.00	198.1	46	44
06/04/12	12:22:06	2228	1.00	180.1	48	46
06/04/12	15:11:06	2401	0.75	196.1	48	48
06/04/12	18:31:06	2617	0.75	142.1	45	50
06/04/12	22:19:06	2790	0.75	185.1	47	53
07/04/12	02:09:07	2963	0.25	156.1	48	57
07/04/12	03:09:07	3002	0.00	150.1	46	58
07/04/12	05:43:07	3092	0.00	136.1	48	60
07/04/12	06:49:07	3137	0.00	98.1	48	61
07/04/12	11:15:07	3308	0.50	334.1	48	64
07/04/12	17:55:07	3481	0.25	311.1	48	66
07/04/12	22:57:07	3654	0.25	11.1	79	70
08/04/12	03:58:08	3827	0.00	359.1	47	74
08/04/12	18:08:08	4172	0.25	120.1	50	78
09/04/12	03:04:09	4345	0.25	143.1	48	82
09/04/12	14:57:09	4518	0.50	101.1	48	85
10/04/12	12:47:10	4691	1.00	131.1	43	88
10/04/12	14:01:10	0	0.00	410.0	151	89
10/04/12	14:15:10	4828	1.00	114.1	45	90