

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

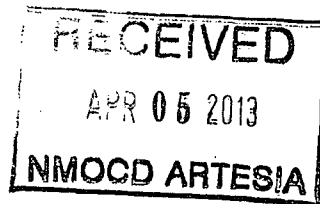
Fax: (817) 546-7551

April 3, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046



Attention: Anthony T Tschacher

Re:

CLIENT: OXY
WELL: Piglet 21 Fed 8
FIELD: YESO
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-40669
JOB NO: NM-OXY-0020

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation (P-5 No. 754900). Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Troy Miller FST	Piglet 21 Fed 8 Original Hole	82.00 Ft to 4943.00 Ft	October 29, 2012 to November 4, 2012	SlimPulse

A plat of the bottom hole location is oriented both to the surface location and to the lease lines (or until line in case of pooling), is attached to the survey report.

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

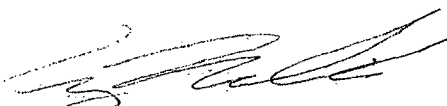
Scott Haymond
Field Service Manager

CC: OXY
Enclosures: [2]
County of Eddy
State of New Mexico

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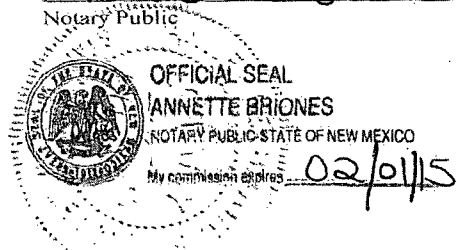
I, Troy Miller certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of October 29, 2012 through November 04, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 82.00 feet to a depth of 4943.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY for the Piglet 21 Fed 8 Well (Original Hole) API No. 30-015-40669 in New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Drilling & Measurements, a division of Schlumberger Technology Corporation.


Troy Miller
FST

Before me, Annette Briones on this day personally appeared Troy D Miller known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 3rd day of April, 2013 (year).

Annette Briones
Notary Public



Piglet 21 Fed 8 MWD 0' to 4667' Survey Report

(Def Survey)

Report Date: November 04, 2012 - 03:02 PM
 Client: OXY
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: OXY (Piglet 21 Fed 8) Savanna 415 / Piglet 21 Fed 8
 Well: Piglet 21 Fed 8
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-40669
 Survey Name: Piglet 21 Fed 8 MWD 0' to 4667'
 Survey Date: November 04, 2012
 Tort / AHD / DDI / ERD Ratio: 15.270' / 62.549 ft / 2.980 / 0.013
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 49' 29.28000", W 104° 11' 13.92000"
 Location Grid N/E Y/X: N 663804.377 NUS, E 544890.388 NUS
 CRS Grid Convergence Angle: 0.07921491 °
 Grid Scale Factor: 0.9999114

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 0.000 ° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3627.000 ft above Unknown
 Seabed / Ground Elevation: 3611.000 ft above Unknown
 Magnetic Declination: 7.900 °
 Total Field Strength: 48751.770 nT
 Magnetic Dip Angle: 60.566 °
 Declination Date: November 04, 2012
 Magnetic Declination Model: 8GGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.079 °
 Total Cor Mag North->Grid North: 7.821 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	663804.38	544890.39	N 32 49 29.28	W 104 11 13.92
Begin MWD Surveys	82.00	1.10	270.82	81.99	0.01	0.01	-0.79	1.34	663804.39	544889.60	N 32 49 29.28	W 104 11 13.93
	197.00	1.50	27.62	196.98	1.35	1.35	-1.19	1.94	663805.73	544889.19	N 32 49 29.29	W 104 11 13.93
	320.00	1.80	246.31	319.96	2.00	2.00	-2.22	2.53	663806.38	544888.17	N 32 49 29.30	W 104 11 13.95
	438.00	2.11	246.80	437.89	0.40	0.40	-5.91	0.28	663804.78	544884.48	N 32 49 29.28	W 104 11 13.89
	468.00	2.11	247.72	467.87	-0.02	-0.02	-6.93	0.11	663804.35	544883.46	N 32 49 29.28	W 104 11 14.00
	671.00	1.58	245.82	670.78	-2.59	-2.59	-12.94	0.26	663801.79	544877.45	N 32 49 29.25	W 104 11 14.07
	890.00	1.19	253.82	889.70	-4.46	-4.46	-17.88	0.20	663799.92	544872.51	N 32 49 29.24	W 104 11 14.13
	1030.00	1.01	269.11	1029.67	-4.88	-4.88	-20.51	0.24	663799.50	544869.88	N 32 49 29.23	W 104 11 14.16
	1163.00	0.82	262.21	1162.66	-5.03	-5.03	-22.62	0.16	663799.35	544867.77	N 32 49 29.23	W 104 11 14.19
	1297.00	0.70	255.62	1296.64	-5.36	-5.36	-24.37	0.11	663799.02	544866.02	N 32 49 29.23	W 104 11 14.21
	1427.00	0.70	258.08	1426.63	-5.72	-5.72	-25.91	0.02	663798.66	544864.48	N 32 49 29.22	W 104 11 14.22
	1596.00	0.62	245.82	1595.62	-6.31	-6.31	-27.76	0.10	663798.07	544862.63	N 32 49 29.22	W 104 11 14.25
	1769.00	0.31	259.09	1768.62	-6.78	-6.78	-29.07	0.19	663797.60	544861.32	N 32 49 29.21	W 104 11 14.26
	1942.00	0.62	269.10	1941.61	-6.89	-6.89	-30.48	0.18	663797.49	544859.93	N 32 49 29.21	W 104 11 14.28
	2151.00	0.62	293.02	2150.60	-6.46	-6.46	-32.64	0.12	663797.92	544857.75	N 32 49 29.22	W 104 11 14.30
	2369.00	0.62	325.10	2368.59	-5.03	-5.03	-34.40	0.16	663799.35	544855.99	N 32 49 29.23	W 104 11 14.32
	2583.00	0.62	336.70	2582.58	-3.02	-3.02	-35.52	0.06	663801.36	544854.87	N 32 49 29.25	W 104 11 14.34
	2796.00	0.79	9.70	2798.56	-0.48	-0.48	-35.73	0.20	663803.90	544854.66	N 32 49 29.26	W 104 11 14.34
	2854.00	0.79	269.11	2853.56	0.02	0.02	-38.02	1.86	663804.40	544854.37	N 32 49 29.28	W 104 11 14.34
	3102.00	1.01	8.52	3101.53	2.74	2.74	-37.31	0.47	663807.12	544853.08	N 32 49 29.31	W 104 11 14.36
	3275.00	0.70	7.20	3274.51	5.30	5.30	-36.96	0.18	663809.67	544853.43	N 32 49 29.33	W 104 11 14.35
	3449.00	0.70	354.72	3448.50	7.41	7.41	-38.92	0.09	663811.79	544853.47	N 32 49 29.35	W 104 11 14.35
	3619.00	0.62	13.82	3618.49	9.34	9.34	-38.80	0.14	663813.71	544853.60	N 32 49 29.37	W 104 11 14.35
	3679.00	0.62	7.90	3678.49	9.97	9.97	-36.67	0.11	663814.35	544853.72	N 32 49 29.38	W 104 11 14.35
	3888.00	0.31	8.52	3887.48	11.65	11.65	-36.43	0.15	663816.03	544853.96	N 32 49 29.40	W 104 11 14.35
	4104.00	0.40	7.20	4103.48	12.98	12.98	-36.25	0.04	663817.35	544854.14	N 32 49 29.41	W 104 11 14.34
	4322.00	0.09	6.01	4321.47	13.90	13.90	-36.14	0.14	663818.28	544854.25	N 32 49 29.42	W 104 11 14.34
	4493.00	0.22	354.72	4492.47	14.36	14.36	-36.15	0.08	663818.74	544854.24	N 32 49 29.42	W 104 11 14.34
	4667.00	0.22	13.92	4666.47	15.02	15.02	-36.11	0.04	663819.40	544854.29	N 32 49 29.43	W 104 11 14.34
End MWD Surveys	4896.00	0.79	243.10	4895.46	14.73	14.73	-37.41	0.41	663819.11	544852.98	N 32 49 29.43	W 104 11 14.36
	4943.00	0.79	243.10	4942.46	14.44	14.44	-37.99	0.00	663818.82	544852.41	N 32 49 29.42	W 104 11 14.36

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	16.000	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Piglet 21 Fed 8 MWD 0' to 4667'
	16.000	16.000	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Piglet 21 Fed 8 MWD 0' to 4667'
	16.000	4943.000	Act Stns	SLB_MWD-STD	Original Hole / Piglet 21 Fed 8 MWD 0' to 4667'