Oilfield Services, General U.S. 1

Schlumberger

Reservoir Development
Drilling & Measurements (Extreme Engineering)
6724 Corporation Pkwy Suite 100
Fort Worth, TX 76126
Phone: (817) 717-1820
Fax: (817) 546-7551

May 9, 2013

Occidental Permian Ltd
5 Greenway Plaza Suite 110
Houston, Texas77046

Attention: Luis Tarazona

Re:

CLIENT: Occidental Permian Ltd
WELL: Piglet 21 FED 13
FIELD: Artesian Loriette
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-~~4070~~ 40670
JOB NO: NM-OXY-0048

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
Nick Banschbach	Piglet 21 FED 13 0 Original Hole	137.00 Ft 4620.00 Ft	to	March 9, 2013 March 13, 2013	to	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,

Sean Ruddy
Field Service Manager

CC: Occidental Permian Ltd
Enclosures: [2]
County of Eddy
State of New Mexico

Oilfield Services Central U.S.

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I, Nick Banschbach certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of March 09, 2013 through March 13, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 137.00 feet to a depth of 4620.00 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 Occidental Permian Ltd for the Piglet 21 FED 13 Well (Original Hole) API No. 30-015-4070 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.

Nick Banschbach
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Before me, Abdul Khan, on this day personally appeared Nick Banschbach, 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 10 day of May 2013 (year).

Notary Public

ABDUL AZIZ KHAN
My Commission Expires
April 23, 2016

ABDUL AZIZ KHAN
My Commission Expires
April 23 2016

PIGLET 21 FED 13 MWD 0' to 4620' Survey Report

(Def Survey)

Report Date:	May 09, 2013 - 11:48 AM	**Survey / DLS Computation:**	Minimum Curvature / Lubinski
Client:	OXY	**Vertical Section Azimuth:**	0.000 ° (Grid North)
Field:	NM, Eddy (NAD27) 2011	**Vertical Section Origin:**	0.000 ft, 0.000 ft
Structure / Slot:	OXY (PIGLET 21 FED 13) SAVANNA 415 / PIGLET 21 FED 13	**TVD Reference Datum:**	RKB
Well:	PIGLET 21 FED 13	**TVD Reference Elevation:**	3630.000 ft above MSL
Borehole:	Original Hole	**Seabed / Ground Elevation:**	3616.000 ft above MSL
UWI / API#:	Unknown / 30-015-4070	**Magnetic Declination:**	7.879 °
Survey Name:	PIGLET 21 FED 13 MWD 0' to 4620'	**Total Field Strength:**	48671.007 nT
Survey Date:	March 22, 2013	**Magnetic Dip Angle:**	60.594 °
Tort / AHD / DDI / ERD Ratio:	13.067 ° / 36.467 ft / 2.678 / 0.008	**Declination Date:**	March 22, 2013
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Declination Model:**	IGRF2010/IGRF-11
Location Lat / Long:	N 32° 49' 27.48000", W 104° 10' 30.00000"	**North Reference:**	Grid North
Location Grid N/E Y/X:	N 663627.672 ftUS, E 548638.356 ftUS	**Grid Convergence Used:**	0.086 °
CRS Grid Convergence Angle:	0.08582706 °	**Total Corr Mag North->Grid North:**	7.793 °
Grid Scale Factor:	0.9999118	**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	663627.87	548638.36	N 32 49 27.48	W 104 10 30.00
Begin MWD Surveys	137.00	0.31	158.61	137.00	-0.35	-0.35	0.14	0.23	663627.53	548638.49	N 32 49 27.48	W 104 10 30.00
	198.00	0.70	155.80	198.00	-0.84	-0.84	0.35	0.64	663627.03	548638.70	N 32 49 27.47	W 104 10 30.00
	398.00	1.49	159.27	397.96	-4.38	-4.38	1.77	0.40	663623.49	548640.13	N 32 49 27.44	W 104 10 29.98
	426.00	1.41	51.78	425.95	-4.51	-4.51	2.17	8.35	663623.36	548640.52	N 32 49 27.44	W 104 10 29.97
	575.00	0.88	159.01	574.94	-4.45	-4.45	4.02	1.26	663623.43	548642.37	N 32 49 27.44	W 104 10 29.95
	636.00	0.79	154.70	635.93	-5.26	-5.26	4.37	0.18	663622.61	548642.72	N 32 49 27.43	W 104 10 29.95
	759.00	0.48	164.46	758.92	-6.53	-6.53	4.87	0.27	663621.35	548643.22	N 32 49 27.42	W 104 10 29.94
	882.00	0.40	174.21	881.92	-7.45	-7.45	5.05	0.09	663620.42	548643.40	N 32 49 27.41	W 104 10 29.94
	1002.00	0.40	176.67	1001.91	-8.29	-8.29	5.11	0.01	663619.59	548643.47	N 32 49 27.40	W 104 10 29.94
	1126.00	0.31	91.73	1125.91	-8.73	-8.73	5.48	0.39	663619.15	548643.83	N 32 49 27.39	W 104 10 29.94
	1250.00	0.22	6.79	1249.91	-8.50	-8.50	5.84	0.29	663619.37	548644.19	N 32 49 27.40	W 104 10 29.93
	1401.00	1.00	6.79	1400.90	-6.91	-6.91	6.03	0.52	663620.97	548644.38	N 32 49 27.41	W 104 10 29.93
	1595.00	1.00	6.79	1594.87	-3.54	-3.54	6.43	0.00	663624.33	548644.78	N 32 49 27.44	W 104 10 29.92
	1768.00	0.40	228.31	1767.87	-2.45	-2.45	6.16	0.77	663625.43	548644.51	N 32 49 27.46	W 104 10 29.93
	1941.00	0.22	215.06	1940.86	-3.12	-3.12	5.52	0.11	663624.75	548643.87	N 32 49 27.45	W 104 10 29.94
	2114.00	0.40	208.44	2113.86	-3.92	-3.92	5.04	0.11	663623.95	548643.39	N 32 49 27.44	W 104 10 29.94
	2241.00	0.31	201.81	2240.86	-4.63	-4.63	4.70	0.08	663623.24	548643.05	N 32 49 27.43	W 104 10 29.95
	2371.00	0.22	203.17	2370.86	-5.19	-5.19	4.47	0.07	663622.69	548642.82	N 32 49 27.43	W 104 10 29.95
	2571.00	0.22	280.00	2570.86	-5.47	-5.47	3.94	0.14	663622.40	548642.30	N 32 49 27.43	W 104 10 29.95
	2744.00	0.31	168.79	2743.85	-5.87	-5.87	3.70	0.25	663622.00	548642.06	N 32 49 27.42	W 104 10 29.96
	2805.00	0.48	57.58	2804.85	-5.90	-5.90	3.95	1.08	663621.97	548642.31	N 32 49 27.42	W 104 10 29.95
	2936.00	0.31	74.50	2935.85	-5.51	-5.51	4.76	0.16	663622.36	548643.11	N 32 49 27.43	W 104 10 29.94
	3136.00	0.31	57.27	3135.85	-5.07	-5.07	5.73	0.05	663622.80	548644.09	N 32 49 27.43	W 104 10 29.93
	3327.00	0.40	48.31	3326.84	-4.35	-4.35	6.67	0.06	663623.52	548645.02	N 32 49 27.44	W 104 10 29.92
	3527.00	0.48	55.78	3526.84	-3.42	-3.42	7.88	0.05	663624.46	548646.23	N 32 49 27.45	W 104 10 29.91
	3727.00	0.22	9.90	3726.83	-2.57	-2.57	8.64	0.18	663625.31	548646.99	N 32 49 27.45	W 104 10 29.90
	3927.00	0.22	294.49	3926.83	-2.03	-2.03	8.35	0.13	663625.84	548646.71	N 32 49 27.46	W 104 10 29.90
	4100.00	0.48	314.09	4099.83	-1.39	-1.39	7.53	0.16	663626.49	548645.89	N 32 49 27.47	W 104 10 29.91
	4272.00	0.70	303.81	4271.82	-0.30	-0.30	6.14	0.14	663627.57	548644.50	N 32 49 27.48	W 104 10 29.93
	4445.00	0.48	297.61	4444.81	0.62	0.62	4.62	0.13	663628.50	548642.98	N 32 49 27.49	W 104 10 29.95
End MWD Surveys	4620.00	0.48	294.97	4619.81	1.27	1.27	3.31	0.01	663629.14	548641.66	N 32 49 27.49	W 104 10 29.96

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	14.000	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / PIGLET 21 FED 13 MWD 0' to 4620'
	14.000	14.000	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / PIGLET 21 FED 13 MWD 0' to 4620'
	14.000	4620.000	Act Stns	SLB_MWD-STD	Original Hole / PIGLET 21 FED 13 MWD 0' to 4620'