

Schlumberger

Reservoir Development

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

January 3, 2013

Occidental Permian Ltd
5 Greenway Plaza Suite 110
Houston, Texas 77046

RECEIVED

MAR 19 2013

NMOCD ARTESIA

Attention: Anthony T Tschacher

Re:

CLIENT: OXY
WELL: Piglet 21 State #17
FIELD: Yeso
RIG: Savanna 415
COUNTY: Eddy County
API NO: 30-015-40721
JOB NO: NM-OXY-0030

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>
Christopher Fili FST-1	Piglet 21 State #17 Original Hole	114.00 Ft to 4823.00 Ft	December 18, 2012 to December 22, 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,



Mike Johns
Field Service Manager

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

Reservoir Development

Drilling & Measurements (Extreme Engineering)

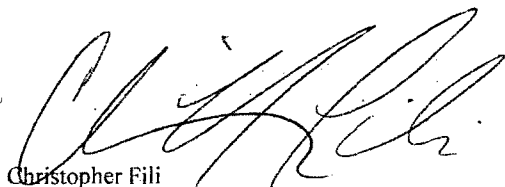
6724 Corporation Pkwy Suite 100

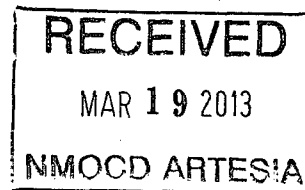
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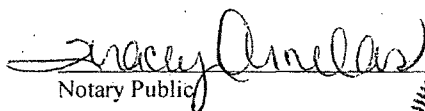
I, Christopher Fili certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of December 18, 2012 through December 22, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 114.00 feet to a depth of 4823.00 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 State #17 Well (Original Hole) API No. 30-015-40721 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.

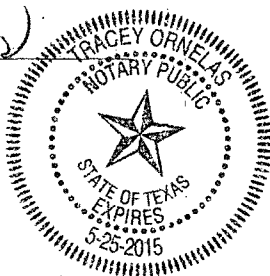

Christopher Fili
FST-1



Before me, Tracey Ornelas, on this day personally appeared Christopher Fili, 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 3 day of Jan, (year) 2013


Notary Public

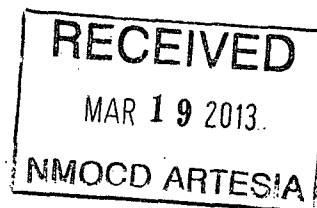


Piglet 21 State # 17 MWD 0' to 4823' Survey Report

(Def Survey)

Report Date: December 22, 2012 - 03:49 PM
 Client: OXY
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: OXY (Piglet 21 State # 17) Savanna 415 / Piglet 21 State # 17
 Well: Piglet 21 State # 17
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-40721
 Survey Name: Piglet 21 State # 17 MWD 0' to 4823'
 Survey Date: December 22, 2012
 Tort / AHD / DDJ / ERD Ratio: 7.699 * / 94.669 ft / 2.863 / 0.020
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 49' 1.56000", W 104° 11' 1.32000"
 Location Grid N/E Y/D: N 661004.585 ftUS, E 545969.511 ftUS
 CRS Grid Convergence Angle: 0.08109527 *
 Grid Scale Factor: 0.99991151

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: 3626.000 ft above MSL
 Seabed / Ground Elevation: 3612.000 ft above MSL
 Magnetic Declination: 7.895 *
 Total Field Strength: 48731.025 nT
 Magnetic Dip Angle: 60.555 *
 Declination Date: December 22, 2012
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.001 *
 Total Corr Mag North->Grid North: 7.814 *
 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	661004.58	545969.51	N 32 49 1.56	W 104 11 1.32
Begin MWD Surveys	114.00	1.01	274.82	113.99	0.08	0.08	-1.00	0.89	661004.67	545968.51	N 32 49 1.56	W 104 11 1.33
	217.00	2.42	242.83	216.95	-0.83	-0.83	-3.84	1.60	661003.75	545965.67	N 32 49 1.55	W 104 11 1.37
	277.00	2.29	260.89	276.90	-1.60	-1.60	-6.15	1.25	661002.98	545963.36	N 32 49 1.54	W 104 11 1.39
	608.00	2.11	262.91	607.65	-3.40	-3.40	-18.73	0.06	661001.19	545950.79	N 32 49 1.53	W 104 11 1.54
	611.00	2.02	266.12	610.65	-3.41	-3.41	-18.84	4.88	661001.17	545950.68	N 32 49 1.53	W 104 11 1.54
	640.00	1.89	265.11	639.63	-3.49	-3.49	-19.82	0.46	661001.10	545949.69	N 32 49 1.53	W 104 11 1.55
	671.00	1.80	261.42	670.62	-3.60	-3.60	-20.81	0.48	661000.98	545948.70	N 32 49 1.52	W 104 11 1.56
	823.00	1.41	254.83	822.56	-4.45	-4.45	-24.98	-0.28	661000.14	545944.54	N 32 49 1.52	W 104 11 1.61
	1082.00	1.10	254.83	1081.50	-5.93	-5.93	-30.45	0.12	660998.65	545939.06	N 32 49 1.50	W 104 11 1.68
	1155.00	1.01	243.93	1154.48	-6.40	-6.40	-31.71	0.50	660998.19	545937.81	N 32 49 1.50	W 104 11 1.69
	1371.00	1.01	221.52	1370.45	-8.66	-8.66	-34.68	0.18	660995.93	545934.84	N 32 49 1.47	W 104 11 1.73
	1719.00	1.19	218.53	1718.39	-13.78	-13.78	-38.96	0.05	660990.80	545930.55	N 32 49 1.42	W 104 11 1.78
	1977.00	1.19	212.90	1976.33	-18.13	-18.13	-42.09	0.05	660986.46	545927.43	N 32 49 1.38	W 104 11 1.81
	2625.00	1.32	200.99	2624.16	-30.75	-30.75	-48.42	0.04	660973.84	545921.10	N 32 49 1.26	W 104 11 1.89
	2799.00	1.19	215.01	2798.14	-34.10	-34.10	-50.17	0.19	660970.49	545919.35	N 32 49 1.22	W 104 11 1.91
	3491.00	0.70	229.12	3490.04	-42.75	-42.75	-57.49	0.08	660961.84	545912.03	N 32 49 1.14	W 104 11 1.99
	4184.00	0.70	230.92	4182.99	-48.19	-48.19	-63.98	0.00	660956.40	545905.54	N 32 49 1.08	W 104 11 2.07
	4227.00	0.79	228.50	4225.98	-48.55	-48.55	-64.40	0.22	660956.04	545905.12	N 32 49 1.08	W 104 11 2.08
	4270.00	0.88	234.00	4268.98	-48.94	-48.94	-64.89	0.28	660955.65	545904.63	N 32 49 1.08	W 104 11 2.08
	4439.00	0.79	242.70	4437.96	-50.24	-50.24	-66.98	0.09	660954.35	545902.54	N 32 49 1.06	W 104 11 2.11
	4656.00	0.70	231.93	4654.94	-51.74	-51.74	-69.35	0.08	660952.85	545900.17	N 32 49 1.05	W 104 11 2.13
	4700.00	0.70	244.32	4698.94	-52.02	-52.02	-69.80	0.34	660952.57	545899.72	N 32 49 1.05	W 104 11 2.14
Begin MWD Surveys	4823.00	0.79	237.12	4821.93	-52.81	-52.81	-71.19	0.11	660951.78	545898.33	N 32 49 1.04	W 104 11 2.16

Survey Type: Def Survey

Survey Error Model: ISWISA 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	1/14.000	ZERO	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	14.000	114.000	1/100.000	ZERO	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	114.000	277.000	1/163.000	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	277.000	608.000	1/68.425	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	608.000	1371.000	1/763.000	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	1371.000	1719.000	1/68.425	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	1719.000	1977.000	1/258.000	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	1977.000	2625.000	1/68.425	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	2625.000	2799.000	1/174.000	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	2799.000	3491.000	1/68.425	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	3491.000	3491.000	Act Sins	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	3491.000	4184.000	1/98.425	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'
	4184.000	4823.000	1/639.000	SLB_MWD-STD	Original Hole / Piglet 21 State # 17 MWD 0' to 4823'