

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

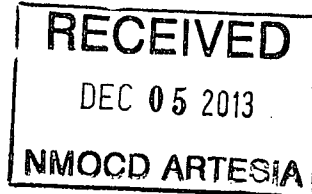
Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

October 24, 2013

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



Attention: Kacie Cruz

CLIENT: OXY
WELL: Piglet 21 State 22
FIELD: Glorieta Yeso
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-41169
JOB NO: NM-OXY-0086

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>
David Cook FST-2	0 Original Hole	0.00 Ft to 4640.00 Ft	October 16, 2013 to October 23, 2013	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,

Joseph Stewart
Field Service Manager

Joseph Stewart

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

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I, David Cook 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 16, 2013 through October 23, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 0.00 feet to a depth of 4640.00 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 22 Well (Original Hole) API No. 30-015-41169 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.

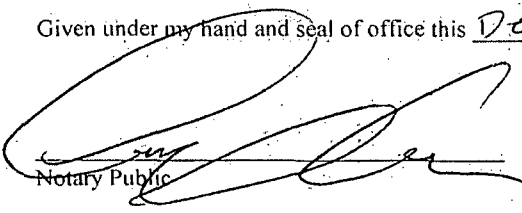
David Cook

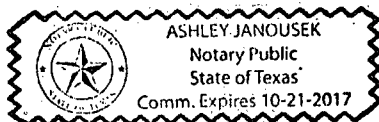
FST-2

David Cook

Before me, _____, on this day personally appeared _____, 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 DEC day of 2013, (year).


Notary Public



Piglet 21 State 22 MWD 0' to 4640' Survey Geodetic Report

(Def Survey)

Report Date: October 27, 2013 - 05:28 PM
 Client: Oxy
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: OXY (Piglet 21 State 22) Savanna 415 / Piglet 21 State 22
 Well: Piglet 21 State 22
 Borehole: Original Hole
 UWI / API#: NM-OXY-0086 / 30-015-41169
 Survey Name: Piglet 21 State 22 MWD 0' to 4640'
 Survey Date: October 27, 2013
 Tort / AHD / DDI / ERD Ratio: 10.193 * / 85.805 ft / 2.942 / 0.018
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 48' 50.39280", W 104° 10' 43.73400"
 Location Grid N/E Y/X: N 659878.222 ftUS, E 547471.904 ftUS
 CRS Grid Convergence Angle: 0.0837 *
 Grid Scale Factor: 0.99991167
 Version / Patch: 2.7.998.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 180.000 * (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3637.000 ft above MSL
 Seabed / Ground Elevation: 3623.000 ft above MSL
 Magnetic Declination: 7.806 *
 Total Gravity Field Strength: 998.5231mgN (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48645.252 nT
 Magnetic Dip Angle: 60.557 *
 Declination Date: October 27, 2013
 Magnetic Declination Model: BGM 2013
 North Reference: Grid North
 Grid Convergence Used: 0.0837 *
 Total Corr Mag North->Grid: 7.7223 *
 North:
 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	659878.22	547471.90	N 32 48 50.39	W 104 10 43.73
First MWD Survey	125.00	2.65	129.99	124.96	1.86	-1.86	2.21	2.12	659876.35	547474.12	N 32 48 50.37	W 104 10 43.71
	246.00	2.77	129.90	245.82	5.53	-5.53	6.60	0.10	659872.69	547478.50	N 32 48 50.34	W 104 10 43.66
	426.00	2.81	129.93	425.61	11.15	-11.15	13.32	0.02	659867.07	547485.22	N 32 48 50.28	W 104 10 43.58
	589.00	2.59	127.82	588.43	15.98	-15.98	19.29	0.15	659862.25	547481.20	N 32 48 50.23	W 104 10 43.51
	667.00	2.11	123.12	666.36	17.84	-17.84	21.89	0.66	659860.38	547493.79	N 32 48 50.22	W 104 10 43.48
	738.00	1.71	125.63	737.32	19.17	-19.17	23.84	0.58	659859.05	547495.75	N 32 48 50.20	W 104 10 43.45
	840.00	1.51	130.77	839.28	20.94	-20.94	26.10	0.24	659857.29	547498.00	N 32 48 50.19	W 104 10 43.43
	940.00	1.32	137.54	939.25	22.65	-22.65	27.87	0.25	659855.58	547499.78	N 32 48 50.17	W 104 10 43.41
	1088.00	1.49	151.34	1087.21	25.59	-25.59	29.95	0.25	659852.63	547501.85	N 32 48 50.14	W 104 10 43.38
	1180.00	1.26	148.98	1179.18	27.51	-27.51	31.04	0.26	659850.72	547502.94	N 32 48 50.12	W 104 10 43.37
	1296.00	1.19	142.64	1285.15	29.56	-29.56	32.43	0.13	659848.67	547504.33	N 32 48 50.10	W 104 10 43.35
	1333.00	1.19	152.83	1332.14	30.21	-30.21	32.84	0.57	659848.02	547504.74	N 32 48 50.09	W 104 10 43.35
	1427.00	0.85	160.73	1426.13	31.73	-31.73	33.52	0.39	659846.49	547505.42	N 32 48 50.08	W 104 10 43.34
	1592.00	0.79	168.74	1591.11	34.00	-34.00	34.14	0.08	659844.22	547506.04	N 32 48 50.06	W 104 10 43.33
	1736.00	0.88	179.11	1735.10	36.08	-36.08	34.35	0.12	659842.14	547506.25	N 32 48 50.04	W 104 10 43.33
	1830.00	0.88	182.45	1829.09	37.53	-37.53	34.33	0.05	659840.70	547506.23	N 32 48 50.02	W 104 10 43.33
	1952.00	0.88	189.52	1951.07	39.39	-39.39	34.14	0.09	659838.84	547506.04	N 32 48 50.00	W 104 10 43.33
	2120.00	0.48	177.31	2119.06	41.36	-41.36	33.96	0.25	659836.86	547505.86	N 32 48 49.98	W 104 10 43.34
	2168.00	0.62	200.56	2167.06	41.80	-41.80	33.88	0.54	659836.42	547505.78	N 32 48 49.98	W 104 10 43.34
	2276.00	0.52	196.52	2275.05	42.82	-42.82	33.53	0.10	659835.40	547505.43	N 32 48 49.97	W 104 10 43.34
	2382.00	0.31	191.00	2381.05	43.56	-43.56	33.34	0.20	659834.66	547505.24	N 32 48 49.96	W 104 10 43.34
	2490.00	0.52	200.56	2489.05	44.31	-44.31	33.11	0.20	659833.92	547505.01	N 32 48 49.95	W 104 10 43.35
	2517.00	0.61	214.08	2516.05	44.54	-44.54	32.99	0.59	659833.68	547504.89	N 32 48 49.95	W 104 10 43.35
	2622.00	0.74	219.89	2621.04	45.53	-45.53	32.24	0.14	659832.70	547504.14	N 32 48 49.94	W 104 10 43.36
	2729.00	0.88	225.73	2728.03	46.63	-46.63	31.21	0.15	659831.60	547503.11	N 32 48 49.93	W 104 10 43.37
	2884.00	0.64	219.53	2883.01	48.13	-48.13	29.81	0.16	659830.10	547501.71	N 32 48 49.92	W 104 10 43.39
	3060.00	0.48	215.63	3059.01	49.49	-49.49	28.75	0.09	659828.74	547500.65	N 32 48 49.90	W 104 10 43.40
	3169.00	0.48	224.73	3168.00	50.18	-50.18	28.16	0.07	659828.04	547500.07	N 32 48 49.90	W 104 10 43.40
	3277.00	0.48	237.12	3276.00	50.75	-50.75	27.46	0.10	659827.48	547499.37	N 32 48 49.89	W 104 10 43.41
	3387.00	0.61	236.45	3385.99	51.32	-51.32	26.59	0.12	659826.90	547498.49	N 32 48 49.88	W 104 10 43.42
	3490.00	0.70	234.13	3488.99	51.99	-51.99	25.62	0.09	659826.23	547497.53	N 32 48 49.88	W 104 10 43.43
	3591.00	0.88	215.63	3589.98	52.99	-52.99	24.67	0.31	659825.24	547496.57	N 32 48 49.87	W 104 10 43.45
	3751.00	0.84	224.69	3749.96	54.82	-54.82	23.13	0.09	659823.41	547495.03	N 32 48 49.85	W 104 10 43.46
	3923.00	0.79	230.13	3921.94	56.48	-56.48	21.33	0.05	659821.75	547493.24	N 32 48 49.83	W 104 10 43.49
	4022.00	0.70	220.74	4020.93	57.37	-57.37	20.42	0.15	659820.86	547492.32	N 32 48 49.82	W 104 10 43.50
	4138.00	0.62	206.84	4136.93	58.47	-58.47	19.67	0.15	659819.76	547491.57	N 32 48 49.81	W 104 10 43.50
	4282.00	0.70	212.72	4280.92	59.90	-59.90	18.84	0.07	659818.32	547490.75	N 32 48 49.80	W 104 10 43.51
	4388.00	0.76	208.51	4386.91	61.07	-61.07	18.16	0.08	659817.16	547490.06	N 32 48 49.79	W 104 10 43.52
	4498.00	0.88	201.92	4496.90	62.49	-62.49	17.49	0.14	659815.74	547489.40	N 32 48 49.77	W 104 10 43.53
Final MWD Survey	4640.00	0.79	212.64	4638.88	64.33	-64.33	15.56	0.13	659813.90	547488.46	N 32 48 49.76	W 104 10 43.54

Survey Type: Def Survey

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14.000	Act Stns	30.000	30.000	SLB_MWD-STD-Depth Only
	1	14.000	4640.000	Act Stns	30.000	30.000	SLB_MWD-STD