

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

January 6, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Anthony T Tschacher

Re:

CLIENT: OXY
WELL: CHRIS ROBIN 20 FED #7
FIELD: YESO
RIG: SAVANNA 415
COUNTY: EDDY
API NO: 30-015-40794
JOB NO: NM-OXY-0034

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).

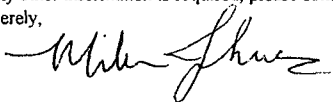
Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
TY MCFARLIN FST-T	CHRIS ROBIN 20 FED #7 Original Hole	200.00 Ft to 4802.00 Ft	December 31, 2012 to January 5, 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,



MIKE JOHNS
Field Service Manager

CC: OXY

Enclosures: [2]

County of EDDY

State of New Mexico

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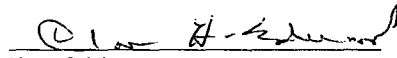
I, TY MCFARLIN certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of December 31, 2012 through January 05, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 200.00 feet to a depth of 4802.00 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 CHRIS ROBIN 20 FED #7 Well (Original Hole) API No. 30-015-40794 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.

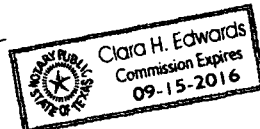


TY MCFARLIN
FST-T

Before me, CLARA H. EDWARDS, on this day personally appeared Ty McFarlin, 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 7th day of Jan, (year) 2013


Notary Public



CHRIS ROBIN FED #7 MWD 0' to 4802' Survey Report

(Def Survey)

Report Date: January 05, 2013 - 11:44 PM
 Client: OXY
 Field: NM, Eddy (INAD27) 2011
 Structure / Slot: OXY (CHRIS ROBIN FED #7) SAVANNA 415 / CHRIS ROBIN FED #7
 Well: CHRIS ROBIN FED #7
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-40794
 Survey Name: CHRIS ROBIN FED #7 MWD 0' to 4802'
 Survey Date: January 05, 2013
 Tort / AHD / DDI / ERD Ratio: 6.698' / 19.803' / 2.135' / 0.004
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 49' 20.29000", W 104° 11' 42.72000"
 Location Grid N/E Y/X: N 662891.560 HUS, E 542434.071 HUS
 CRS Grid Convergence Angle: 0.07487325 °
 Grid Scale Factor: 0.99991115
 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: 3647.000 ft above MSL
 Seabed / Ground Elevation: 3633.000 ft above MSL
 Magnetic Declination: 7.883 °
 Total Field Strength: 48727.696 nT
 Magnetic Dip Angle: 80.567 °
 Declination Date: January 05, 2013
 Magnetic Declination Model: IGRF 2012
 North Reference: Grid North
 Grid Convergence Used: 0.075 °
 Total Corr Mag North->Grid North: 7.808 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	662891.56	542434.07	N 32 49 20.28	W 104 11 42.72
Assumed Vertical	80.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	662891.56	542434.07	N 32 49 20.28	W 104 11 42.72
Begin MWD	200.00	0.48	225.21	200.00	-0.35	-0.35	-0.36	0.40	662891.21	542433.71	N 32 49 20.28	W 104 11 42.72
Surveys	284.10	0.70	215.89	284.09	-1.02	-1.02	-0.91	0.28	662890.54	542433.16	N 32 49 20.27	W 104 11 42.73
	314.02	0.48	210.00	314.01	-1.28	-1.28	-1.08	0.78	662890.29	542432.99	N 32 49 20.27	W 104 11 42.73
	345.49	0.62	210.00	345.48	-1.54	-1.54	-1.23	0.44	662890.02	542432.84	N 32 49 20.26	W 104 11 42.73
	376.04	0.40	249.82	376.03	-1.72	-1.72	-1.41	1.32	662889.84	542432.66	N 32 49 20.26	W 104 11 42.74
	411.19	0.22	220.59	411.18	-1.81	-1.81	-1.57	0.67	662889.75	542432.50	N 32 49 20.26	W 104 11 42.74
	578.00	0.22	217.50	577.99	-2.31	-2.31	-1.87	0.01	662889.25	542432.10	N 32 49 20.26	W 104 11 42.74
	788.00	0.40	237.80	788.99	-2.95	-2.95	-2.78	0.11	662888.51	542431.31	N 32 49 20.25	W 104 11 42.75
	951.00	0.40	259.99	950.98	-3.40	-3.40	-3.92	0.08	662888.16	542430.15	N 32 49 20.25	W 104 11 42.77
	1115.00	0.31	209.19	1114.98	-3.89	-3.89	-4.70	0.19	662887.67	542429.37	N 32 49 20.24	W 104 11 42.78
	1247.17	0.22	219.39	1247.15	-4.40	-4.40	-5.04	0.08	662887.18	542428.03	N 32 49 20.24	W 104 11 42.78
	1285.75	0.09	254.28	1285.71	-4.47	-4.47	-5.12	0.39	662887.09	542428.95	N 32 49 20.24	W 104 11 42.78
	1332.36	0.09	7.64	1332.34	-4.45	-4.45	-5.15	0.35	662887.11	542428.92	N 32 49 20.24	W 104 11 42.78
	1378.15	0.09	322.88	1378.13	-4.38	-4.38	-5.17	0.16	662887.18	542428.90	N 32 49 20.24	W 104 11 42.78
	1418.22	0.09	285.18	1418.20	-4.36	-4.36	-5.22	0.22	662887.20	542428.85	N 32 49 20.24	W 104 11 42.78
	1459.61	0.09	273.88	1459.59	-4.36	-4.36	-5.29	0.03	662887.20	542428.79	N 32 49 20.24	W 104 11 42.78
	1633.92	0.22	258.54	1633.90	-4.42	-4.42	-5.75	0.08	662887.14	542428.32	N 32 49 20.24	W 104 11 42.78
	1804.00	0.31	244.88	1803.97	-4.88	-4.88	-6.49	0.06	662886.88	542427.58	N 32 49 20.23	W 104 11 42.80
	2002.00	0.09	199.88	2001.97	-5.05	-5.05	-7.03	0.13	662886.51	542427.05	N 32 49 20.23	W 104 11 42.80
	2047.11	0.09	212.27	2047.08	-5.14	-5.14	-7.07	0.03	662886.42	542427.00	N 32 49 20.23	W 104 11 42.80
	2110.98	0.31	207.57	2110.95	-5.28	-5.28	-7.14	0.50	662886.26	542426.93	N 32 49 20.23	W 104 11 42.80
	2154.28	0.48	199.70	2154.25	-5.55	-5.55	-7.28	0.41	662886.01	542426.81	N 32 49 20.23	W 104 11 42.81
	2240.89	0.48	210.78	2240.86	-6.21	-6.21	-7.57	0.11	662885.35	542426.51	N 32 49 20.22	W 104 11 42.81
	2327.62	0.40	217.59	2327.59	-6.76	-6.76	-7.94	0.11	662884.80	542426.13	N 32 49 20.21	W 104 11 42.81
	2379.92	0.40	211.17	2379.88	-7.01	-7.01	-8.11	0.10	662884.55	542425.98	N 32 49 20.21	W 104 11 42.82
	2414.44	0.31	202.38	2414.40	-7.25	-7.25	-8.23	0.24	662884.31	542425.84	N 32 49 20.21	W 104 11 42.82
	2448.03	0.31	225.98	2448.99	-7.38	-7.38	-8.31	0.50	662884.20	542425.76	N 32 49 20.21	W 104 11 42.82
	2638.00	0.22	181.16	2637.98	-8.09	-8.09	-8.57	0.15	662883.47	542425.50	N 32 49 20.20	W 104 11 42.82
	2785.95	0.09	164.06	2785.91	-8.47	-8.47	-8.45	0.09	662883.09	542425.63	N 32 49 20.20	W 104 11 42.82
	2828.64	0.09	152.77	2828.60	-8.53	-8.53	-8.41	0.11	662883.03	542425.66	N 32 49 20.20	W 104 11 42.82
	2972.00	0.09	202.38	2971.98	-8.71	-8.71	-8.37	0.07	662882.85	542425.70	N 32 49 20.19	W 104 11 42.82
	3132.06	0.31	202.43	3132.01	-9.22	-9.22	-8.59	0.14	662882.34	542425.49	N 32 49 20.19	W 104 11 42.82
	3319.00	0.31	198.41	3318.96	-10.17	-10.17	-8.94	0.01	662881.39	542425.13	N 32 49 20.18	W 104 11 42.82
	3479.58	0.48	358.87	3479.52	-9.91	-9.91	-9.09	0.49	662881.65	542424.98	N 32 49 20.18	W 104 11 42.83
	3605.00	0.22	17.19	3604.95	-8.79	-8.79	-9.00	0.15	662882.77	542425.07	N 32 49 20.19	W 104 11 42.83
	3836.00	0.09	3.68	3836.95	-8.34	-8.34	-8.89	0.08	662883.22	542425.18	N 32 49 20.20	W 104 11 42.82
	4012.00	0.09	342.79	4011.95	-8.07	-8.07	-8.92	0.02	662883.48	542425.15	N 32 49 20.20	W 104 11 42.82
	4186.00	0.09	322.29	4185.95	-7.83	-7.83	-9.05	0.02	662883.73	542425.03	N 32 49 20.20	W 104 11 42.83
	4316.00	0.22	351.49	4315.95	-7.51	-7.51	-9.14	0.11	662884.05	542424.93	N 32 49 20.21	W 104 11 42.83
	4514.58	0.22	312.86	4514.51	-8.87	-8.87	-9.48	0.07	662884.09	542424.59	N 32 49 20.21	W 104 11 42.83
	4655.00	0.22	333.65	4654.95	-8.44	-8.44	-9.80	0.08	662885.12	542424.27	N 32 49 20.22	W 104 11 42.83
End MWD Surveys	4802.49	0.22	353.32	4802.44	-5.91	-5.91	-9.98	0.05	662885.65	542424.11	N 32 49 20.22	W 104 11 42.84

Survey Type: Def Survey

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

Description	MD From (ft)	MD To (ft)	EDU Freq (ft)	Survey Tool Type	Borehole / Survey
	0.000	14.000	Act Stns	SLB_BLIND+TREND-Depth Only	Original Hole / CHRIS ROBIN FED #7 MWD 0' to 4802'
	14.000	14.000	Act Stns	SLB_BLIND+TREND-Depth Only	Original Hole / CHRIS ROBIN FED #7 MWD 0' to 4802'
	14.000	80.000	Act Stns	SLB_BLIND+TREND	Original Hole / CHRIS ROBIN FED #7 MWD 0' to 4802'
	80.000	4802.490	Act Stns	SLB_MWD-STO	Original Hole / CHRIS ROBIN FED #7 MWD 0' to 4802'