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, Texas77046

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.

Name & Title of Surveyor	Drainhole Number	Surveyed Depths	Dates Performed	Type of Survey
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

Schlumberger

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Drilling & Measurements (Extreme Engineering)
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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

Clara H. Edwards
Commission Expires
09-15-2016

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

(Def Survey)

Report Date:	January 05, 2013 - 11:44 PM	**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 (CHRIS ROBIN FED #7) SAVANNA 415 / CHRIS ROBIN FED #7	**TVD Reference Datum:**	RKB
Well:	CHRIS ROBIN FED #7	**TVD Reference Elevation:**	3647.000 ft above MSL
Borehole:	Original Hole	**Seabed / Ground Elevation:**	3633.000 ft above MSL
UWI / APIs:	Unknown / 30-015-40794	**Magnetic Declination:**	7.883 °
Survey Name:	CHRIS ROBIN FED #7 MWD 0' to 4802'	**Total Field Strength:**	48727.698 nT
Survey Date:	January 05, 2013	**Magnetic Dip Angle:**	60.557 °
Tort / AHD / DDI / ERD Ratio:	6.898 ° / 19.803 ft / 2.135 / 0.004	**Declination Date:**	January 05, 2013
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Declination Model:**	BGGM 2012
Location Lat / Long:	N 32° 49' 20.28000", W 104° 11' 42.72000"	**North Reference:**	Grid North
Location Grid N/E Y/X:	N 662891.560 ftUS, E 542434.071 ftUS	**Grid Convergence Used:**	0.075 °
CRS Grid Convergence Angle:	0.07487325 °	**Total Corr Mag North->Grid North:**	7.808 °
Grid Scale Factor:	0.99991115	**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	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 Surveys	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
	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	0.76	662890.29	542432.99	N 32 49 20.27	W 104 11 42.73
	345.48	0.62	210.00	345.48	-1.54	-1.54	-1.23	0.44	662890.02	542432.84	N 32 49 20.28	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 20.28	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 20.28	W 104 11 42.74
	578.00	0.22	217.50	577.99	-2.31	-2.31	-1.97	0.01	662889.25	542432.10	N 32 49 20.28	W 104 11 42.74
	769.00	0.40	237.80	768.99	-2.95	-2.95	-2.76	0.11	662888.61	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	662887.16	542429.03	N 32 49 20.24	W 104 11 42.78
	1289.73	0.09	254.28	1289.71	-4.47	-4.47	-5.12	0.38	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 42.79
	1804.00	0.31	244.68	1803.97	-4.68	-4.68	-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
	2067.11	0.09	212.27	2067.08	-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	662886.28	542426.93	N 32 49 20.23	W 104 11 42.80
	2154.26	0.48	199.70	2154.25	-5.55	-5.55	-7.26	0.41	662886.01	542426.81	N 32 49 20.23	W 104 11 42.81
	2240.89	0.48	210.78	2240.88	-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
	2370.92	0.40	211.17	2370.88	-7.01	-7.01	-8.11	0.10	662884.55	542425.96	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
	2440.03	0.31	225.98	2439.99	-7.36	-7.36	-8.31	0.50	662884.20	542425.76	N 32 49 20.21	W 104 11 42.82
	2638.00	0.22	161.16	2637.96	-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	184.06	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	132.77	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	2971.96	-8.71	-8.71	-8.37	0.07	662882.85	542425.70	N 32 49 20.19	W 104 11 42.82
	3132.05	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
	3318.00	0.31	198.41	3318.96	-10.17	-10.17	-8.84	0.01	662881.39	542425.13	N 32 49 20.18	W 104 11 42.82
	3479.56	0.48	358.87	3479.52	-9.91	-9.91	-9.09	0.49	662881.65	542424.88	N 32 49 20.18	W 104 11 42.83
	3665.00	0.22	17.19	3664.95	-9.79	-9.79	-9.00	0.15	662882.77	542425.07	N 32 49 20.19	W 104 11 42.83
	3839.00	0.09	3.68	3838.95	-9.34	-9.34	-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	-9.07	-9.07	-8.92	0.02	662883.49	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
	4514.56	0.22	312.86	4514.51	-6.87	-6.87	-9.48	0.07	662884.69	542424.59	N 32 49 20.21	W 104 11 42.83
	4658.00	0.22	333.65	4657.95	-6.44	-6.44	-9.80	0.06	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 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_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-STD	Original Hole / CHRIS ROBIN FED #7 MWD 0' to 4802'