

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

January 18, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Anthony T Tschacher

Re:

CLIENT: Occidental Permian Ltd

WELL: Chris Robin Fed #8

FIELD: YESO (NAD27 New Mexico Eastern)

RIG: Savanna 415

COUNTY: Eddy

API NO: 30-015-40673

JOB NO: NM-OXY-0036

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>
Michael Putnam FST-T	Chris Robin Fed #8 Original Hole	91.05 Ft to 4803.98 Ft	January 11, 2013 to January 18, 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: Occidental Permian Ltd

Enclosures: [2]

County of Eddy

State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

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I, Michael Putnam certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of January 11, 2013 through January 18, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 91.05.00 feet to a depth of 4803.98.00 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 Chris Robin Fed #8 Well (Original Hole) API No. 30-015-40673 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.



Michael Putnam
FST-T

Before me, Brittany N. Peck, on this day personally appeared Michael Putnam 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 18 Jan day of 2013, (year).

Brittany N. Peck
Notary Public



OFFICIAL SEAL
BRITTANY N. PECK
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 10/12/16

CHRIS ROBIN FED #8 MWD 0' to 4803.98' Survey Report

(Def Survey)

Report Date: January 18, 2013 - 10:17 PM
 Client: OXY
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: OXY (CHRIS ROBIN FED #8) SAVANNA 415 / CHRIS ROBIN FED #8
 Well: CHRIS ROBIN FED #8
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-40673
 Survey Name: CHRIS ROBIN FED #8 MWD 0' to 4803.98'
 Survey Date: January 18, 2013
 Tort / AHD / DDI / ERD Ratio: 24.021' / 55.049 ft / 3.121 / 0.011

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: 3640.000 ft above MSL
 Seabed / Ground Elevation: 3626.000 ft above MSL
 Magnetic Declination: 7.883 °
 Total Field Strength: 48725.148 nT
 Magnetic Dip Angle: 80.559 °
 Declination Date: January 18, 2013

Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet

Magnetic Declination Model: BGGM 2012

Location Lat / Long: N 32° 49' 32.52000", W 104° 11' 44.88000"
 Location Grid N/E Y/X: N 664128.256 ftUS, E 542248.144 ftUS

North Reference: Grid North
 Grid Convergence Used: 0.075 °

CRS Grid Convergence Angle: 0.07455489 °

Total Corr Mag North->Grid North: 7.809 °

Grid Scale Factor: 0.99991113

Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Eastings (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	664128.26	542248.14	N 32 49 32.52	W 104 11 44.88
Assumed Vertical	80.00	0.00	0.00	80.00	0.00	0.00	0.00	0.00	664128.26	542248.14	N 32 49 32.52	W 104 11 44.88
Begin MWD Surveys	91.05	0.79	326.18	91.05	0.06	0.06	-0.04	7.15	664128.32	542248.10	N 32 49 32.52	W 104 11 44.88
	199.41	2.02	326.18	199.37	2.27	2.27	-1.52	1.14	664130.53	542246.62	N 32 49 32.54	W 104 11 44.90
	259.08	1.71	86.90	259.04	3.19	3.19	-1.22	5.44	664131.45	542246.93	N 32 49 32.55	W 104 11 44.89
	271.01	1.89	210.08	270.95	3.03	3.03	-1.14	26.58	664131.29	542247.01	N 32 49 32.55	W 104 11 44.89
	292.34	1.89	245.10	292.27	2.58	2.58	-1.63	5.33	664130.84	542246.51	N 32 49 32.55	W 104 11 44.90
	321.38	1.89	230.69	321.30	2.07	2.07	-2.44	1.63	664130.33	542245.71	N 32 49 32.54	W 104 11 44.91
	427.58	1.89	211.40	427.45	-0.53	-0.53	-4.71	0.60	664127.73	542243.44	N 32 49 32.51	W 104 11 44.94
	489.38	1.80	190.83	489.21	-2.35	-2.35	-5.42	1.08	664125.00	542242.72	N 32 49 32.50	W 104 11 44.94
	549.85	1.71	188.63	549.66	-4.18	-4.18	-5.73	0.19	664124.08	542242.41	N 32 49 32.48	W 104 11 44.95
	639.19	1.58	234.60	638.96	-6.21	-6.21	-6.94	1.44	664122.05	542241.21	N 32 49 32.46	W 104 11 44.96
	669.47	1.49	237.81	669.23	-6.66	-6.66	-7.61	0.41	664121.60	542240.53	N 32 49 32.45	W 104 11 44.97
	760.53	1.58	237.68	760.25	-7.96	-7.96	-9.67	0.10	664120.29	542238.47	N 32 49 32.44	W 104 11 44.99
	822.64	1.32	243.70	822.35	-8.74	-8.74	-11.04	0.48	664119.52	542237.11	N 32 49 32.43	W 104 11 45.01
	853.36	1.32	243.00	853.06	-9.05	-9.05	-11.67	0.05	664119.20	542236.47	N 32 49 32.43	W 104 11 45.02
	884.26	1.19	236.49	883.95	-9.39	-9.39	-12.26	0.62	664118.86	542235.89	N 32 49 32.43	W 104 11 45.02
	946.54	1.01	235.39	946.22	-10.06	-10.06	-13.25	0.29	664118.20	542234.90	N 32 49 32.42	W 104 11 45.04
	977.44	1.01	233.11	977.11	-10.38	-10.38	-13.69	0.13	664117.88	542234.48	N 32 49 32.41	W 104 11 45.04
	1052.26	0.79	231.48	1051.92	-11.10	-11.10	-14.62	0.30	664117.16	542233.53	N 32 49 32.41	W 104 11 45.05
	1220.00	0.70	255.70	1219.65	-12.07	-12.07	-16.52	0.19	664116.19	542231.63	N 32 49 32.40	W 104 11 45.07
	1404.59	0.50	257.81	1404.23	-12.52	-12.52	-18.40	0.11	664115.74	542229.75	N 32 49 32.40	W 104 11 45.10
	1522.25	0.79	188.63	1521.89	-13.43	-13.43	-19.02	0.55	664114.83	542229.12	N 32 49 32.39	W 104 11 45.10
	1652.64	0.79	213.33	1652.27	-15.07	-15.07	-19.65	0.26	664113.19	542228.50	N 32 49 32.37	W 104 11 45.11
	1739.95	0.88	290.50	1739.57	-15.34	-15.34	-20.61	1.20	664112.92	542227.54	N 32 49 32.37	W 104 11 45.12
	1782.99	0.79	287.12	1782.60	-15.13	-15.13	-21.20	0.24	664113.12	542226.94	N 32 49 32.37	W 104 11 45.13
	1957.87	0.70	243.00	1957.47	-15.26	-15.26	-23.31	0.32	664112.99	542224.84	N 32 49 32.37	W 104 11 45.15
	2131.61	0.62	304.52	2131.20	-15.21	-15.21	-25.03	0.39	664113.04	542223.12	N 32 49 32.37	W 104 11 45.17
	2218.08	0.62	296.78	2217.66	-14.74	-14.74	-25.83	0.10	664113.52	542222.32	N 32 49 32.37	W 104 11 45.18
	2262.22	0.48	301.62	2261.80	-14.53	-14.53	-26.20	0.33	664113.72	542221.95	N 32 49 32.38	W 104 11 45.19
	2305.30	0.62	300.70	2304.88	-14.32	-14.32	-26.55	0.33	664113.94	542221.59	N 32 49 32.38	W 104 11 45.19
	2348.91	0.62	292.79	2348.49	-14.11	-14.11	-26.97	0.20	664114.15	542221.17	N 32 49 32.38	W 104 11 45.20
	2478.64	0.62	214.91	2478.21	-14.41	-14.41	-28.02	0.60	664113.85	542220.12	N 32 49 32.38	W 104 11 45.21
	2648.42	0.62	236.10	2647.98	-15.68	-15.68	-29.31	0.13	664112.58	542218.84	N 32 49 32.37	W 104 11 45.22
	2822.68	0.62	321.61	2822.24	-15.46	-15.46	-30.68	0.48	664112.79	542217.47	N 32 49 32.37	W 104 11 45.24
	2996.02	0.48	310.10	2995.57	-14.26	-14.26	-31.82	0.10	664114.00	542216.33	N 32 49 32.38	W 104 11 45.25
	3083.20	0.40	188.63	3082.74	-14.33	-14.33	-32.14	0.88	664113.93	542216.01	N 32 49 32.38	W 104 11 45.26
	3168.65	0.40	213.33	3168.20	-14.87	-14.87	-32.35	0.20	664113.39	542215.80	N 32 49 32.37	W 104 11 45.26
	3351.05	0.31	290.50	3350.59	-15.23	-15.23	-33.16	0.25	664113.03	542214.98	N 32 49 32.37	W 104 11 45.27
	3379.71	0.22	294.10	3379.25	-15.18	-15.18	-33.28	0.32	664113.08	542214.86	N 32 49 32.37	W 104 11 45.27
	3509.60	0.31	213.46	3509.14	-15.37	-15.37	-33.71	0.27	664112.89	542214.44	N 32 49 32.37	W 104 11 45.28
	3597.04	0.40	306.50	3596.57	-15.39	-15.39	-34.08	0.59	664112.87	542214.06	N 32 49 32.37	W 104 11 45.28
	3815.44	0.40	304.52	3814.97	-14.50	-14.50	-35.32	0.01	664113.78	542212.82	N 32 49 32.38	W 104 11 45.29
	3945.72	0.40	301.62	3945.25	-14.01	-14.01	-36.09	0.02	664114.25	542212.06	N 32 49 32.38	W 104 11 45.30
	4089.99	0.40	292.79	4089.52	-13.55	-13.55	-36.98	0.04	664114.71	542211.17	N 32 49 32.39	W 104 11 45.31
	4276.45	0.10	325.80	4275.97	-13.16	-13.16	-37.67	0.17	664115.10	542210.48	N 32 49 32.39	W 104 11 45.32
	4483.72	0.09	314.41	4483.24	-12.92	-12.92	-37.87	0.01	664115.34	542210.28	N 32 49 32.39	W 104 11 45.32
	4590.74	0.40	261.80	4590.26	-12.92	-12.92	-38.38	0.28	664115.34	542209.77	N 32 49 32.39	W 104 11 45.33
	4634.34	0.22	266.99	4633.86	-12.94	-12.94	-38.61	0.42	664115.32	542209.54	N 32 49 32.39	W 104 11 45.33
	4670.82	0.22	267.30	4670.34	-12.95	-12.95	-38.75	0.00	664115.31	542209.40	N 32 49 32.39	W 104 11 45.33
	4677.88	0.22	256.62	4677.40	-12.95	-12.95	-38.78	0.58	664115.31	542209.37	N 32 49 32.39	W 104 11 45.33
	4800.12	0.22	278.90	4799.64	-12.97	-12.97	-39.24	0.07	664115.29	542208.91	N 32 49 32.39	W 104 11 45.34
End MWD Surveys	4803.98	0.09	311.99	4803.50	-12.97	-12.97	-39.25	3.96	664115.29	542208.90	N 32 49 32.39	W 104 11 45.34

Survey Type: Def Survey

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

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