

Schlumberger

Reservoir Development

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

30-015-40072

November 20, 2012

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



Attention: Anthony T Tschacher

Re:

CLIENT: Occidental Permian Ltd
WELL: Tigger 9 State #1
FIELD: Permian Basin
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-40072
JOB NO: NM-OXY-0016

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>
John McDonough FST-2	Tigger 9 State #1 Original Hole	568.00 Ft to 5200.00 Ft	July 23, 2012 to October 9, 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: Occidental Permian Ltd
Enclosures: [2]
County of Eddy
State of New Mexico

Reservoir Development

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

I, John McDonough certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of July 23, 2012 through October 09, 2012, conduct or supervise the taking of the SlimPulse surveys from a depth of 568.00 feet to a depth of 5200.00 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 Tigger 9 State #1 Well (Original Hole) API No. 30-015-40072 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.



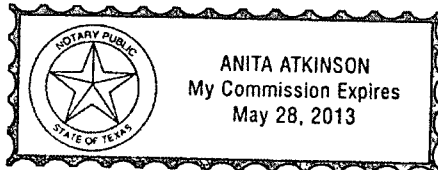
John McDonough
FST-2

Before me, Anita Atkinson, on this day personally appeared John McDonough, 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 20th day of NOV., 2012 (year).



Notary Public



NM-OXY-0016 Tigger 9 State #1 MWD 0' to 5200' Survey Report

(Def Survey)

Report Date: November 20, 2012 - 03:04 PM
 Client: Oxy Permian
 Field: NM, Eddy (NAD27) 2011
 Structure / Slot: Oxy Permian (Tigger 9 State #1) Savanna 415 / Tigger 9 State #1
 Well: Tigger 9 State #1
 Borehole: Original Hole
 UWI / API#: NM-OXY-0016 / 30-015-40072
 Survey Name: Tigger 9 State #1 MWD 0' to 5200'
 Survey Date: October 10, 2012
 Tort / AHD / DDI / ERD Ratio: 12.821' / 70.198 ft / 2.947 / 0.013
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 50' 52.82088", W 104° 4' 53.57964"
 Location Grid N/E Y/X: N 672307.890 RUS, E 577324.788 RUS
 CRS Grid Convergence Angle: 0.13657106 °
 Grid Scale Factor: 0.99991594

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: 3595.000 ft above MSL
 Seabed / Ground Elevation: 3581.000 ft above MSL
 Magnetic Declination: 8.018 °
 Total Field Strength: 48787.817 nT
 Magnetic Dip Angle: 60.609 °
 Declination Date: October 10, 2012
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.096 °
 Total Corr Mag North→Grid North: 7.922 °
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azin Grid (ft)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	672307.89	577324.77	32 50 52.82 W 104	4 53.58
Assumed Vertical	463.00	0.00	0.00	463.00	0.00	0.00	0.00	0.00	672307.89	577324.77	32 50 52.82 W 104	4 53.58
Begin MWD Survey	568.57	1.58	358.39	568.56	1.45	1.45	-0.04	1.50	672309.34	577324.73	32 50 52.84 W 104	4 53.58
	667.27	1.49	599	667.22	4.09	4.09	0.05	0.23	672311.98	577324.82	32 50 52.86 W 104	4 53.58
	759.57	1.49	797	759.49	6.47	6.47	0.35	0.06	672314.36	577325.11	32 50 52.88 W 104	4 53.58
	834.79	1.32	1249	834.69	8.29	8.29	0.67	0.27	672316.18	577325.44	32 50 52.90 W 104	4 53.57
	1006.37	1.32	230	1006.22	12.19	12.19	1.18	0.14	672320.08	577325.94	32 50 52.94 W 104	4 53.57
	1094.60	0.88	4.76	1094.44	13.88	13.88	1.27	0.50	672321.77	577326.04	32 50 52.96 W 104	4 53.56
	1118.13	1.10	6.08	1117.96	14.29	14.29	1.31	0.94	672322.18	577326.08	32 50 52.96 W 104	4 53.56
	1247.21	1.01	352.76	1247.02	16.65	16.65	1.30	0.20	672324.54	577326.07	32 50 52.99 W 104	4 53.58
	1422.00	0.80	352.98	1421.79	19.39	19.39	0.96	0.12	672327.28	577326.72	32 50 53.01 W 104	4 53.57
	1508.96	0.79	351.49	1508.74	20.58	20.58	0.79	0.03	672328.47	577326.54	32 50 53.02 W 104	4 53.57
	1596.00	1.00	343.28	1595.77	21.90	21.90	0.49	0.28	672328.79	577326.25	32 50 53.04 W 104	4 53.57
	1726.17	0.79	342.08	1725.92	23.85	23.85	-0.12	0.16	672331.73	577326.65	32 50 53.06 W 104	4 53.58
	1856.08	0.62	352.19	1855.82	25.39	25.39	-0.49	0.16	672333.28	577324.28	32 50 53.07 W 104	4 53.58
	1982.47	0.62	332.46	1982.21	26.68	26.68	-0.80	0.17	672334.57	577323.87	32 50 53.08 W 104	4 53.59
	2111.23	0.62	311.89	2110.96	27.76	27.76	-1.74	0.17	672335.65	577323.03	32 50 53.10 W 104	4 53.60
	2201.00	0.40	298.97	2200.73	28.24	28.24	-2.37	0.28	672336.12	577322.40	32 50 53.10 W 104	4 53.61
	2283.00	0.48	314.88	2282.72	28.62	28.62	-2.87	0.18	672336.50	577321.90	32 50 53.10 W 104	4 53.61
	2457.68	0.31	317.39	2457.40	29.48	29.48	-3.71	0.10	672337.37	577321.08	32 50 53.11 W 104	4 53.62
	2502.84	0.31	279.90	2502.56	29.59	29.59	-3.91	0.44	672337.48	577320.88	32 50 53.11 W 104	4 53.62
	2562.74	0.31	277.00	2562.46	29.64	29.64	-4.23	0.03	672337.53	577320.54	32 50 53.11 W 104	4 53.63
	2569.97	0.40	277.48	2569.69	29.65	29.65	-4.27	1.25	672337.53	577320.50	32 50 53.11 W 104	4 53.63
	2586.83	0.48	280.38	2586.55	29.67	29.67	-4.40	0.49	672337.55	577320.37	32 50 53.11 W 104	4 53.63
	2675.36	0.48	298.58	2675.07	29.91	29.91	-5.09	0.17	672337.80	577319.68	32 50 53.12 W 104	4 53.64
	2723.22	0.48	300.29	2722.93	30.11	30.11	-5.44	0.03	672337.99	577319.33	32 50 53.12 W 104	4 53.64
	2758.16	0.48	316.77	2758.87	30.29	30.29	-5.67	0.38	672338.18	577318.09	32 50 53.12 W 104	4 53.65
	2803.83	0.48	308.99	2803.54	30.55	30.55	-5.95	0.15	672338.43	577318.82	32 50 53.12 W 104	4 53.65
	2845.99	0.48	318.49	2845.70	30.79	30.79	-6.20	0.19	672338.68	577318.57	32 50 53.13 W 104	4 53.65
	2889.07	0.40	319.28	2888.78	31.04	31.04	-6.42	0.19	672338.93	577318.35	32 50 53.13 W 104	4 53.65
	2932.68	0.40	321.56	2932.39	31.27	31.27	-6.61	0.04	672339.16	577318.16	32 50 53.13 W 104	4 53.66
	2975.93	0.40	316.29	2975.63	31.50	31.50	-6.81	0.09	672339.39	577317.96	32 50 53.13 W 104	4 53.66
	3018.42	0.62	305.57	3018.12	31.75	31.75	-7.11	0.55	672339.64	577317.66	32 50 53.14 W 104	4 53.66
	3062.41	0.70	311.98	3062.11	32.06	32.06	-7.49	0.25	672339.95	577317.28	32 50 53.14 W 104	4 53.67
	3105.67	0.70	320.99	3105.37	32.44	32.44	-7.85	0.25	672340.33	577316.81	32 50 53.14 W 104	4 53.67
	3149.72	0.62	325.56	3149.41	32.85	32.85	-8.16	0.22	672340.73	577316.61	32 50 53.15 W 104	4 53.67
	3192.97	0.70	320.29	3192.66	33.24	33.24	-8.46	0.23	672341.13	577316.31	32 50 53.15 W 104	4 53.68
	3237.45	0.70	321.69	3237.14	33.66	33.66	-8.80	0.04	672341.55	577315.97	32 50 53.15 W 104	4 53.68
	3280.47	0.79	328.90	3280.15	34.13	34.13	-9.12	0.30	672342.01	577315.65	32 50 53.16 W 104	4 53.69
	3323.94	0.79	327.99	3323.62	34.64	34.64	-9.43	0.03	672342.52	577315.34	32 50 53.16 W 104	4 53.69
	3367.77	0.79	331.80	3367.45	35.16	35.16	-9.74	0.12	672343.05	577315.03	32 50 53.17 W 104	4 53.69
	3453.00	0.60	341.08	3452.67	35.10	35.10	-10.16	0.26	672343.89	577314.81	32 50 53.18 W 104	4 53.70
	3539.00	0.70	353.38	3538.66	37.05	37.05	-10.36	0.20	672344.93	577314.41	32 50 53.19 W 104	4 53.70
	3582.86	0.62	340.19	3582.52	37.54	37.54	-10.48	0.39	672345.42	577314.29	32 50 53.19 W 104	4 53.70
	3627.58	0.70	336.59	3627.24	38.01	38.01	-10.67	0.20	672345.90	577314.10	32 50 53.20 W 104	4 53.70
	3715.00	0.60	338.18	3714.65	38.93	38.93	-11.05	0.12	672346.82	577313.72	32 50 53.21 W 104	4 53.71
	3885.00	0.60	346.78	3884.64	40.62	40.62	-11.58	0.05	672348.51	577313.19	32 50 53.22 W 104	4 53.71
	3971.00	0.90	5.48	3970.64	41.73	41.73	-11.62	0.45	672349.82	577313.15	32 50 53.23 W 104	4 53.71
	4013.04	0.88	5.46	4012.67	42.38	42.38	-11.56	0.05	672350.27	577313.21	32 50 53.24 W 104	4 53.71
	4143.46	0.79	1.99	4143.08	44.28	44.28	-11.43	0.08	672352.16	577313.34	32 50 53.26 W 104	4 53.71
	4318.62	1.48	327.80	4318.20	47.41	47.41	-12.60	0.54	672355.30	577312.17	32 50 53.29 W 104	4 53.73
	4492.87	1.89	324.07	4492.38	51.66	51.66	-15.50	0.24	672359.54	577309.27	32 50 53.33 W 104	4 53.76
	4662.55	0.88	320.86	4662.00	54.93	54.93	-17.96	0.60	672362.82	577306.81	32 50 53.36 W 104	4 53.79
	4831.02	1.01	320.29	4830.45	57.08	57.08	-19.73	0.08	672364.96	577305.04	32 50 53.39 W 104	4 53.81
	4863.01	0.88	326.48	4862.42	58.82	58.82	-21.03	0.13	672366.70	577303.74	32 50 53.40 W 104	4 53.82
	5048.64	1.01	17.86	5048.04	60.08	60.08	-21.16	0.97	672367.67	577303.61	32 50 53.42 W 104	4 53.83
End MWD Survey	5200.97	0.79	324.90	5200.38	62.22	62.22	-21.35	0.54	672370.11	577303.42	32 50 53.44 W 104	4 53.83

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	1/14.000	SLB_BLIND+TREND-Depth Only	Original Hole / Tigger 9 State #1 MWD 0' to 5200'

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (*100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (NS****)	Longitude (EW****)
	14.000	463.000	463.000	1/58.425	SLB_BLIND+TREND				Original Hole / Tigger 9 State #1 MWD 0' to 5200'			
	463.000	463.000	463.000	Act Sbs	SLB_BLIND+TREND				Original Hole / Tigger 9 State #1 MWD 0' to 5200'			
	463.000		5200.970	14737.970	SLB_MWD-STD				Original Hole / Tigger 9 State #1 MWD 0' to 5200'			