Schlumberger

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

30-015-40937

April 5, 2013

Occidental Permian Ltd
5 Greenway Plaza Suite 110
Houston, Texas77046

Attention: Anthony T Tschacher

Re:

CLIENT:	Occidental
WELL:	Tigger 9 State 6
FIELD:	Yeso
RIG:	Savanna 415
COUNTY:	Eddy
API NO:	30-015-40937
JOB NO:	NM-OXY-0054

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
Landis Taylor FST1	Tigger 9 State 6 Original Hole	0' 5180'	to	March 30, 2013 April 4, 2013	to	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
Enclosures: [2]
County of Eddy
State of New Mexico

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I, Landis Taylor certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of March 30, 2013 through April 04, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 0'.00 feet to a depth of 5180'.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 for the Tigger 9 State 6 Well (Original Hole) API No. 30-015-40937 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.

Landis Taylor
FST1

Before me, Rosemary R Leyva, on this day personally appeared Landis Taylor, 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 5th day of April (year) 2013

Rosemary R Leyva
Notary Public

OFFICIAL SEAL
ROSEMARY R. LEYVA
NOTARY PUBLIC-STATE OF NEW MEXICO
My commission expires: 4-5-13

TIGGER 9 STATE 6 MWD 0' to 5180''' Survey Report

(Def Survey)

Report Date:	April 17, 2013 - 02:46 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 (TIGGER 9 STATE 6) Savanna 415 / TIGGER 9 STATE 6	**TVD Reference Datum:**	RKB
Well:	TIGGER 9 STATE 6	**TVD Reference Elevation:**	3592.000 ft above MSL
Borehole:	Original Hole	**Seabed / Ground Elevation:**	3578.000 ft above MSL
UWI / API#:	Unknown / 30-015-40937	**Magnetic Declination:**	7.982 °
Survey Name:	TIGGER 9 STATE 6 MWD 0' to 5180'''	**Total Field Strength:**	48726.128 nT
Survey Date:	April 04, 2013	**Magnetic Dip Angle:**	60.593 °
Tort / AHD / DDI / ERD Ratio:	6.847 ° / 50.817 ft / 2.542 / 0.010	**Declination Date:**	April 04, 2013
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	**Magnetic Declination Model:**	BGGM 2012
Location Lat / Long:	N 32° 50' 49.20000", W 104° 4' 44.40000"	**North Reference:**	Grid North
Location Grid N/E Y/X:	N 671943.849 ftUS, E 578108.747 ftUS	**Grid Convergence Used:**	0.137 °
CRS Grid Convergence Angle:	0.13795043 °	**Total Corr Mag North->Grid North:**	7.845 °
Grid Scale Factor:	0.99991608	**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	671943.85	578108.75	N 32 50 49.20	W 104 4 44.40
Assumed Vertical	545.00	0.00	0.00	545.00	0.00	0.00	0.00	0.00	671943.85	578108.75	N 32 50 49.20	W 104 4 44.40
Begin MWD Surveys	679.00	1.01	66.71	678.99	0.47	0.47	1.08	0.75	671944.32	578109.83	N 32 50 49.20	W 104 4 44.39
	891.00	1.01	60.73	890.96	2.12	2.12	4.43	0.05	671945.97	578113.18	N 32 50 49.22	W 104 4 44.35
	1057.00	0.70	49.61	1056.94	3.49	3.49	6.48	0.21	671947.34	578115.23	N 32 50 49.23	W 104 4 44.32
	1226.00	0.40	38.63	1225.93	4.62	4.62	7.63	0.19	671948.47	578116.38	N 32 50 49.25	W 104 4 44.31
	1443.00	0.40	8.10	1442.93	5.96	5.96	8.21	0.10	671949.81	578116.96	N 32 50 49.26	W 104 4 44.30
	1658.00	0.48	358.11	1657.92	7.61	7.61	8.29	0.05	671951.45	578117.04	N 32 50 49.28	W 104 4 44.30
	1940.00	0.70	340.93	1939.91	10.41	10.41	7.69	0.10	671954.26	578116.43	N 32 50 49.30	W 104 4 44.31
	2179.00	0.40	311.92	2178.90	12.35	12.35	6.59	0.17	671956.20	578115.34	N 32 50 49.32	W 104 4 44.32
	2396.00	0.48	274.52	2395.89	12.93	12.93	5.12	0.13	671956.78	578113.87	N 32 50 49.33	W 104 4 44.34
	2610.00	0.48	265.74	2609.88	12.93	12.93	3.33	0.03	671956.78	578112.08	N 32 50 49.33	W 104 4 44.36
	2783.00	0.48	268.81	2782.88	12.86	12.86	1.89	0.01	671956.71	578110.63	N 32 50 49.33	W 104 4 44.38
	2957.00	0.40	288.24	2956.87	13.04	13.04	0.58	0.10	671956.89	578109.33	N 32 50 49.33	W 104 4 44.39
	3172.00	0.48	278.13	3171.87	13.40	13.40	-1.02	0.05	671957.25	578107.72	N 32 50 49.33	W 104 4 44.41
	3345.00	0.31	256.90	3344.86	13.40	13.40	-2.20	0.13	671957.25	578106.55	N 32 50 49.33	W 104 4 44.43
	3517.00	0.22	204.30	3516.86	12.99	12.99	-2.79	0.14	671956.84	578105.96	N 32 50 49.33	W 104 4 44.43
	3691.00	0.48	235.81	3690.86	12.28	12.28	-3.53	0.18	671956.13	578105.22	N 32 50 49.32	W 104 4 44.44
	3952.00	0.70	232.20	3951.84	10.69	10.69	-5.69	0.09	671954.53	578103.06	N 32 50 49.31	W 104 4 44.47
	4166.00	1.32	225.31	4165.81	8.15	8.15	-8.48	0.29	671952.00	578100.27	N 32 50 49.28	W 104 4 44.50
	4341.00	1.10	217.22	4340.77	5.40	5.40	-10.93	0.16	671949.24	578097.82	N 32 50 49.25	W 104 4 44.53
	4384.00	1.01	224.91	4383.76	4.80	4.80	-11.44	0.39	671948.65	578097.31	N 32 50 49.25	W 104 4 44.53
	4598.00	0.88	249.61	4597.73	2.89	2.89	-14.31	0.20	671946.74	578094.43	N 32 50 49.23	W 104 4 44.57
	4684.00	0.88	239.72	4683.72	2.33	2.33	-15.50	0.18	671946.18	578093.24	N 32 50 49.22	W 104 4 44.58
	4814.00	0.70	236.34	4813.71	1.38	1.38	-17.03	0.14	671945.23	578091.72	N 32 50 49.21	W 104 4 44.60
	4903.00	0.88	243.32	4902.70	0.78	0.78	-18.09	0.23	671944.63	578090.66	N 32 50 49.21	W 104 4 44.61
	4946.00	0.79	238.40	4945.70	0.47	0.47	-18.64	0.27	671944.32	578090.11	N 32 50 49.21	W 104 4 44.62
	5074.00	0.88	237.74	5073.68	-0.51	-0.51	-20.22	0.07	671943.33	578088.53	N 32 50 49.20	W 104 4 44.64
End MWD Surveys	5180.00	0.79	245.04	5179.67	-1.26	-1.26	-21.57	0.13	671942.59	578087.18	N 32 50 49.19	W 104 4 44.65

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 6 MWD 0' to 5180'''
	14.000	545.000	1/98.425	SLB_BLIND+TREND	Original Hole / TIGGER 9 STATE 6 MWD 0' to 5180'''
	545.000	545.000	Act Stns	SLB_BLIND+TREND	Original Hole / TIGGER 9 STATE 6 MWD 0' to 5180'''
	545.000	5180.000	1/4635.000	SLB_MWD-STD	Original Hole / TIGGER 9 STATE 6 MWD 0' to 5180'''