

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

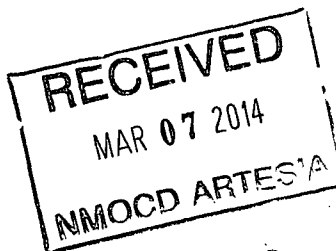
Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

January 20, 2014

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



Attention: Kacie Cruz

Re:

CLIENT: Oxy
WELL: Yeso Viking Fed 8
FIELD: Glorieta Yeso
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-41468
JOB NO: NM-CIM-0090

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>
Troy Miller FST2	Yeso Viking Fed 8 Original Hole	457.00 Ft to 4481.00 Ft	January 5, 2014 to January 9, 2014	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,

Thomas Barker
Field Service Manager

CC: Oxy
Enclosures: [2]
County of Eddy
State of New Mexico

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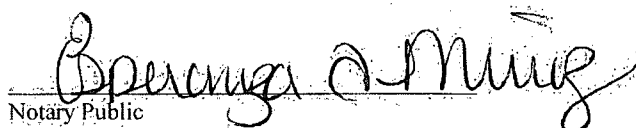
I, Troy Miller certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of January 05, 2014 through January 09, 2014, conduct or supervise the taking of the SlimPulse surveys from a depth of 457.00 feet to a depth of 4481.00 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 Yeso Viking Fed 8 Well (Original Hole) API No. 30-015-41468 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.



Troy Miller
FST2

Before me, January 23rd 2014, on this day personally appeared Troy Deane Miller 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 23rd day of January 2014 (year).


Notary Public

OFFICIAL SEAL
ESPERANZA A MUNOZ
NOTARY PUBLIC - STATE OF NEW MEXICO

My Commission Expires: July 12, 2017

Yeso Viking Fed 8 MWD 0' to 4481' Survey Geodetic Report

(Def Survey)

Report Date: January 09, 2014 - 01:34 PM
 Client: OXY
 Field: NM, Eddy (NAD83 EZ) 2014
 Structure / Slot: OXY (Yeso Viking Fed 8) Savanna 415 / Yeso Viking Fed 8
 Well: Yeso Viking Fed 8
 Borehole: Original Hole
 UWI / API#: NM-OXY-0090 / 30-015-41468
 Survey Name: Yeso Viking Fed 8 MWD 0' to 4481'
 Survey Date: January 09, 2014
 Tort / AHD / DDI / ERD Ratio: 10.115' / 62.770 ft / 2.803 / 0.014
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 48' 54.72000", W 104° 14' 50.28000"
 Location Grid N/E Y/X: N 660313.178 NUS, E 567768.155 NUS
 CRS Grid Convergence Angle: 0.0466°
 Grid Scale Factor: 0.99990989
 Version / Patch: 2.7.998.0

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: 3588.000 ft above Unknown
 Seabed / Ground Elevation: 3572.000 ft above Unknown
 Magnetic Declination: 7.729°
 Total Gravity Field Strength: 988.5200mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48814.053 nT
 Magnetic Dip Angle: 60.540°
 Declination Date: January 09, 2014
 Magnetic Declination Model: BGGM 2013
 North Reference: Grid North
 Total Corr Mag North -> Grid North: 0.0466°
 North: 7.6824°
 Total Corr Mag -> Grid North: 7.6824°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	660313.18	567768.15	N 32 48 54.72	W 104 14 50.28
Begin MWD Surveys	457.00	1.32	128.78	456.96	-3.30	-3.30	4.10	0.29	660309.88	567772.26	N 32 48 54.69	W 104 14 50.23
	700.00	0.70	138.50	699.92	-6.16	-6.16	7.27	0.26	660307.92	567775.42	N 32 48 54.69	W 104 14 50.19
	901.00	0.62	109.97	900.91	-7.45	-7.45	9.10	0.17	660305.73	567777.26	N 32 48 54.65	W 104 14 50.17
	1112.00	0.40	63.70	1111.90	-7.52	-7.52	10.84	0.21	660305.66	567778.99	N 32 48 54.65	W 104 14 50.15
	1285.00	0.22	12.28	1284.90	-6.92	-6.92	11.45	0.18	660306.25	567779.60	N 32 48 54.65	W 104 14 50.15
	1479.00	0.31	347.10	1478.90	-6.05	-6.05	11.41	0.07	660307.13	567779.57	N 32 48 54.66	W 104 14 50.15
	1660.00	0.40	358.09	1659.89	-4.94	-4.94	11.28	0.06	660308.24	567779.44	N 32 48 54.67	W 104 14 50.15
	1786.00	0.70	334.89	1785.89	-3.80	-3.80	10.94	0.29	660309.38	567779.09	N 32 48 54.69	W 104 14 50.15
	1954.00	0.83	342.58	1953.87	-1.64	-1.64	10.12	0.12	660311.53	567778.27	N 32 48 54.70	W 104 14 50.16
	2127.00	1.10	283.73	2126.85	0.02	0.02	8.11	0.57	660313.20	567776.26	N 32 48 54.72	W 104 14 50.18
	2300.00	0.70	339.59	2299.83	1.40	1.40	6.13	0.53	660314.58	567774.28	N 32 48 54.73	W 104 14 50.21
	2495.00	1.10	340.78	2494.81	4.29	4.29	5.09	0.21	660317.46	567773.25	N 32 48 54.76	W 104 14 50.22
	2668.00	1.10	340.29	2667.77	7.42	7.42	3.99	0.01	660320.60	567772.14	N 32 48 54.98	W 104 14 50.23
	2840.00	1.01	349.70	2839.74	10.46	10.46	3.16	0.11	660323.64	567771.31	N 32 48 54.82	W 104 14 50.24
	3033.00	1.19	2.00	3032.71	14.14	14.14	2.93	0.15	660327.32	567771.08	N 32 48 54.86	W 104 14 50.25
	3186.00	2.00	9.47	3185.65	18.36	18.36	3.42	0.55	660331.54	567771.57	N 32 48 54.90	W 104 14 50.24
	3402.00	0.68	10.39	3401.58	23.71	23.71	4.34	0.52	660336.86	567772.49	N 32 48 54.95	W 104 14 50.23
	3531.00	1.01	4.66	3530.56	25.82	25.82	4.61	0.12	660338.99	567772.77	N 32 48 54.98	W 104 14 50.23
	3704.00	0.88	340.91	3703.54	28.59	28.59	4.30	0.24	660341.77	567772.46	N 32 48 55.00	W 104 14 50.23
	3877.00	0.70	347.81	3876.52	30.88	30.88	3.64	0.12	660344.06	567771.80	N 32 48 55.03	W 104 14 50.24
	4050.00	0.62	321.18	4049.51	32.64	32.64	2.83	0.18	660345.82	567770.99	N 32 48 55.04	W 104 14 50.25
	4222.00	0.70	317.57	4221.50	34.14	34.14	1.54	0.05	660347.32	567769.70	N 32 48 55.06	W 104 14 50.26
	4438.00	0.79	313.71	4437.48	36.15	36.15	0.43	0.05	660349.32	567767.73	N 32 48 55.08	W 104 14 50.28
End MWD Surveys	4481.00	0.70	301.49	4480.48	36.49	36.49	-0.86	0.42	660349.66	567767.29	N 32 48 55.08	W 104 14 50.29

Survey Type: Def Survey

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	16.000	Act Stns	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / Yeso Viking Fed 8 MWD 0' to 4481'
	1	16.000	457.000	1/88.425	30.000	30.000	SLB_MWD-STD	Original Hole / Yeso Viking Fed 8 MWD 0' to 4481'
	1	457.000	4481.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Hole / Yeso Viking Fed 8 MWD 0' to 4481'

Occidental Oil & Gas Corp – Permian Primary – North NM/Terrell RMT

Well: Yeso Viking Federal #8		API: 30-015-41468	
State: New Mexico	County: Eddy	T17S R27E, Sec 23	1046' FSL & 2160' FEL
Field: Empire	TD: 4,513'	PBTD: 4,4470'	KB: 3,579' ASL
Casing Size:	Grade/Weight:	Depth:	Cement:
8-5/8"	J-55 STC/ 24#	405'	210 sx, 54 sx circ'd to surf
5-1/2"	L-80 BTC/ 17#	4,520'	760 sx, 138 sx circ'd to surf

