

Schlumberger

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

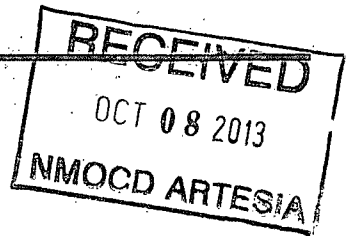
Fax: (817) 546-7551

July 29, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046



Attention: Anthony Tschacher

Re:

CLIENT: OXY
WELL: Yeso Viking Fed 3
FIELD: Glorieta
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-41340
JOB NO: NM-OXY-0078

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 FST-I	Yeso Viking Fed 3 Original Hole	315.00 Ft to 4471.00 Ft	July 22, 2013 to July 28, 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,

Joey Stewart
Field Service Manager

CC: OXY

Enclosures: [2]

County of Eddy

State of New Mexico

Reservoir Development

Drilling & Measurements (Extreme Engineering)

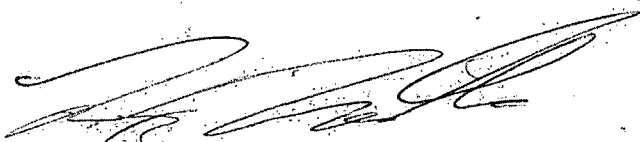
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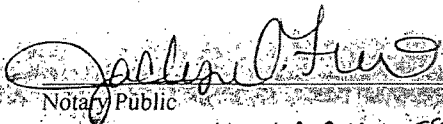
I, Troy Miller certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of July 22, 2013 through July 28, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 315.00 feet to a depth of 4471.00 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 3 Well (Original Hole) API No. 30-015-41340 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
FST-1

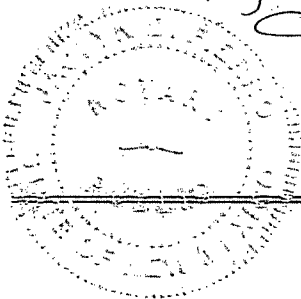
Before me, Jaclyn D. Fierro, on this day personally appeared Troy Duane Miller, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he/she executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this 2nd day of August, 2013 (year).



Notary Public

my commission expires
July 18, 2015



Yeso Viking Fed 3 MWD 0' to 4471' Survey Report

(Def Survey)

Report Date: July 28, 2013 - 11:01 AM
 Client: OXY
 Field: NM, Eddy (NAD 27 EZ) 2012
 Structure / Slot: OXY (Yeso Viking Fed 3) Savanna 415 / Yeso Viking Fed 3
 Well: Yeso Viking Fed 3
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-41340
 Survey Name: Yeso Viking Fed 3 MWD 0' to 4471'
 Survey Date: July 28, 2013
 Tilt / AHD / DDI / ERD Ratio: 9.803° / 27.946° / 2.438° / 0.006
 Coordinate Reference System: NAD27 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 49' 6.60000", W 104° 15' 7.20000"
 Location Grid N/E Y/X: N 661490.990 RUS, E 524986.369 RUS
 CRS Grid Convergence Angle: 0.04408103°
 Grid Scale Factor: 0.99990981

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: 3580.000 ft above Unknown
 Seabed / Ground Elevation: 3586.000 ft above Unknown
 Magnetic Declination: 7.775°
 Total Field Strength: 48647.130 nT
 Magnetic Dip Angle: 60.524°
 Declination Date: July 28, 2013
 Magnetic Declination Model: BGGM 2012
 North Reference: Grid North
 Grid Convergence Used: 0.044°
 Total Corr Mag North-Grid North: 7.731°
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	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	661490.99	524986.37	N 32 49 6.60	W 104 15 7.20
Begin MWD Surveys	315.00	0.48	22.23	315.00	1.22	1.22	0.50	0.15	661492.21	524986.87	N 32 49 6.61	W 104 15 7.19
	438.00	0.31	139.83	437.99	1.44	1.44	0.91	0.55	661492.43	524987.28	N 32 49 6.61	W 104 15 7.19
	556.00	0.31	174.63	555.99	0.88	0.88	1.14	0.16	661491.87	524987.51	N 32 49 6.61	W 104 15 7.19
	672.00	0.40	157.70	671.99	0.20	0.20	1.33	0.12	661491.19	524987.70	N 32 49 6.60	W 104 15 7.18
	861.00	0.31	266.61	860.99	-0.45	-0.45	1.07	0.31	661490.54	524987.44	N 32 49 6.60	W 104 15 7.19
	1057.00	0.40	358.81	1056.99	0.21	0.21	0.52	0.26	661491.20	524986.89	N 32 49 6.60	W 104 15 7.19
	1231.00	0.31	319.74	1230.98	1.17	1.17	0.21	0.14	661492.16	524986.58	N 32 49 6.61	W 104 15 7.20
	1351.00	0.40	358.11	1350.98	1.84	1.84	-0.02	0.21	661492.83	524986.35	N 32 49 6.62	W 104 15 7.20
	1489.00	0.22	284.23	1488.98	2.39	2.39	-0.29	0.29	661493.38	524986.08	N 32 49 6.62	W 104 15 7.20
	1685.00	0.22	40.12	1684.98	2.77	2.77	-0.41	0.19	661493.76	524985.96	N 32 49 6.63	W 104 15 7.20
	1787.00	0.31	326.33	1786.98	3.15	3.15	-0.44	0.32	661494.14	524985.93	N 32 49 6.63	W 104 15 7.21
	1872.00	0.48	326.42	1871.98	3.63	3.63	-0.76	0.20	661494.62	524985.61	N 32 49 6.64	W 104 15 7.21
	2045.00	-0.40	0.13	2044.97	4.84	4.84	-1.16	0.15	661495.83	524985.21	N 32 49 6.65	W 104 15 7.21
	2146.00	0.22	64.81	2145.97	5.28	5.28	-0.99	0.36	661496.27	524985.38	N 32 49 6.65	W 104 15 7.21
	2265.00	0.22	34.71	2264.97	5.58	5.56	-0.65	0.10	661496.55	524985.72	N 32 49 6.66	W 104 15 7.21
	2396.00	0.31	-77.03	2395.97	5.85	5.85	-0.16	0.16	661496.84	524986.21	N 32 49 6.66	W 104 15 7.20
	2482.00	0.40	99.75	2481.97	5.85	5.85	0.36	0.19	661496.84	524986.73	N 32 49 6.66	W 104 15 7.20
	2609.00	0.62	94.04	2608.96	5.73	5.73	1.48	0.18	661496.72	524987.85	N 32 49 6.66	W 104 15 7.18
	2738.00	0.48	113.11	2738.95	5.46	5.46	2.69	0.18	661496.45	524988.06	N 32 49 6.65	W 104 15 7.17
	2827.00	0.48	111.13	2826.95	5.19	5.19	3.37	0.02	661496.17	524989.74	N 32 49 6.65	W 104 15 7.16
	3001.00	0.22	115.22	3000.95	4.78	4.78	4.35	0.15	661495.77	524990.72	N 32 49 6.65	W 104 15 7.15
	3175.00	0.31	152.84	3174.95	4.22	4.22	4.87	0.11	661495.21	524991.24	N 32 49 6.64	W 104 15 7.14
	3343.00	0.31	137.32	3342.94	3.48	3.48	5.38	0.05	661494.47	524991.75	N 32 49 6.63	W 104 15 7.14
	3529.00	0.22	104.54	3528.94	3.02	3.02	6.07	0.09	661494.01	524992.44	N 32 49 6.63	W 104 15 7.13
	3646.00	0.62	170.02	3645.94	2.34	2.34	6.40	0.48	661493.33	524992.77	N 32 49 6.62	W 104 15 7.13
	3744.00	0.70	113.11	3743.93	1.58	1.58	7.04	0.65	661492.57	524993.41	N 32 49 6.62	W 104 15 7.12
	3906.00	1.01	186.94	3905.92	-0.22	-0.22	7.78	0.65	661490.77	524994.15	N 32 49 6.60	W 104 15 7.11
	3993.00	0.70	192.04	3992.81	-1.50	-1.50	7.58	0.37	661489.49	524993.94	N 32 49 6.59	W 104 15 7.11
	4167.00	0.48	199.11	4166.90	-3.23	-3.23	7.11	0.13	661487.76	524993.48	N 32 49 6.57	W 104 15 7.12
	4341.00	0.31	162.02	4340.90	-4.37	-4.37	7.02	0.17	661486.62	524993.39	N 32 49 6.58	W 104 15 7.12
End MWD Surveys	4471.00	0.31	152.44	4470.89	-5.01	-5.01	7.29	0.04	661485.98	524993.66	N 32 49 6.55	W 104 15 7.11

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_MWD-STD-Depth Only	Original Hole / Yeso Viking Fed 3 MWD 0' to 4471'
	14.000	315.000	1/301.000	SLB_MWD-STD	Original Hole / Yeso Viking Fed 3 MWD 0' to 4471'
	315.000	4471.000	1/4156.000	SLB_MWD-STD	Original Hole / Yeso Viking Fed 3 MWD 0' to 4471'