

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

September 18, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Anthony Tschacher

Re:

CLIENT: OXY
WELL: Artesia YesoFed Unit #21
FIELD: Glorieta
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-41333
JOB NO: NM-OXY-0083

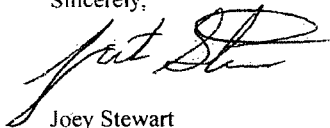
Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation (P-5-No. 754900).
Other information required by your office is as follows.

<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-2	Artesia YesoFed Unit #21 Original Hole	240.00 Ft to 4801.00 Ft	August 29, 2013 to September 2, 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

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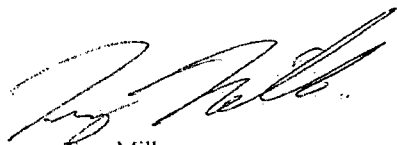
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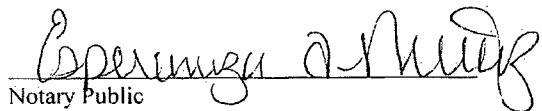
I, Troy Miller certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of August 29, 2013 through September 02, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 240.00 feet to a depth of 4801.00 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 Artesia YesoFed Unit #21 Well (Original Hole) API No. 30-015-41333 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-2

Before me, Esperanza A Munoz, on this day personally appeared Troy Dore 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 19th day of September, ²⁰¹³(year).



Notary Public



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

My Commission Expires:

July 12, 2017

Artesia Yeso Fed Unit #21 MWD 0' to 4801' Survey Report

(Non-Def Survey)

Report Date: September 02, 2013 - 07:22 PM
 Client: OXY
 Field: NM, Eddy (NAD83 EZ) 2012
 Structure / Slot: OXY (Artesia Yeso Fed Unit #21) Savanna 415 / Artesia Yeso Fed Unit #21
 Well: Artesia Yeso Fed Unit #21
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-41333
 Survey Name: Artesia Yeso Fed Unit #21 MWD 0' to 4801'
 Survey Date: September 02, 2013
 Tort / AHD / DDI / ERD Ratio: 8.435' / 39.727 ft / 2.525' / 0.008
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 49' 31.44000", W 104° 10' 32.16000"
 Location Grid N/E Y/X: N 664049.496 RUS, E 589789.888 RUS
 CRS Grid Convergence Angle: 0.08550436°
 Grid Scale Factor: 0.99991178

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: 3507.000 ft above Unknown
 Seabed / Ground Elevation: 3593.000 ft above Unknown
 Magnetic Declination: 7.825°
 Total Field Strength: 49688.755 nT
 Magnetic Dip Angle: 60.584°
 Declination Date: September 02, 2013
 Magnetic Declination Model: IGRF2010/IGRF11
 North Reference: Grid North
 Grid Convergence Used: 0.086°
 Total Corr Mag North→Grid North: 7.740°
 Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/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	664049.50	589789.89	N 32 49 31.44	W 104 10 32.16
Begin MWD Surveys	240.00	1.01	298.49	239.99	1.01	1.01	-1.86	0.42	664050.50	589788.03	N 32 49 31.45	W 104 10 32.18
	480.00	1.49	316.80	479.93	4.37	4.37	-5.77	0.27	664053.86	589784.11	N 32 49 31.48	W 104 10 32.23
	660.00	1.01	309.22	659.89	7.13	7.13	-8.54	0.29	664056.62	589781.34	N 32 49 31.51	W 104 10 32.26
	840.00	0.62	283.60	839.87	8.36	8.36	-10.72	0.29	664057.26	589779.17	N 32 49 31.52	W 104 10 32.29
	1020.00	0.88	283.12	1019.85	8.90	8.90	-13.01	0.14	664058.40	589776.88	N 32 49 31.53	W 104 10 32.31
	1202.00	0.48	258.80	1201.84	9.07	9.07	-15.12	0.27	664058.57	589774.77	N 32 49 31.53	W 104 10 32.34
	1382.00	0.40	273.19	1381.84	8.96	8.96	-16.49	0.08	664058.46	589773.40	N 32 49 31.53	W 104 10 32.35
	1562.00	0.31	250.29	1561.83	8.83	8.83	-17.57	0.09	664058.33	589772.32	N 32 49 31.53	W 104 10 32.37
	1742.00	0.09	115.29	1741.83	8.61	8.61	-17.90	0.21	664058.10	589771.98	N 32 49 31.53	W 104 10 32.37
	1922.00	0.22	234.21	1921.83	8.35	8.35	-18.06	0.15	664057.84	589771.83	N 32 49 31.52	W 104 10 32.37
	2101.00	0.40	249.50	2100.83	7.93	7.93	-18.92	0.11	664057.42	589770.97	N 32 49 31.52	W 104 10 32.38
	2285.00	0.31	262.29	2284.83	7.63	7.63	-20.02	0.06	664057.13	589769.87	N 32 49 31.52	W 104 10 32.39
	2462.00	0.09	189.39	2461.82	7.43	7.43	-20.51	0.17	664056.93	589769.38	N 32 49 31.51	W 104 10 32.40
	2642.00	0.09	237.81	2641.82	7.22	7.22	-20.66	0.04	664056.71	589769.23	N 32 49 31.51	W 104 10 32.40
	2822.00	0.40	286.72	2821.82	7.32	7.32	-21.38	0.19	664056.82	589768.51	N 32 49 31.51	W 104 10 32.41
	3003.00	0.20	241.12	3002.82	7.35	7.35	-22.26	0.16	664056.85	589767.63	N 32 49 31.51	W 104 10 32.42
	3183.00	0.42	256.37	3182.82	7.05	7.05	-23.18	0.13	664056.54	589766.71	N 32 49 31.51	W 104 10 32.43
	3363.00	0.31	270.51	3362.81	6.89	6.89	-24.30	0.08	664056.39	589765.59	N 32 49 31.51	W 104 10 32.44
	3543.00	0.20	219.56	3542.81	6.66	6.66	-24.99	0.13	664056.15	589764.80	N 32 49 31.51	W 104 10 32.45
	3723.00	0.40	223.00	3722.81	5.95	5.95	-25.62	0.11	664055.45	589764.27	N 32 49 31.50	W 104 10 32.46
	3903.00	0.31	255.52	3902.81	5.37	5.37	-26.52	0.12	664054.87	589763.37	N 32 49 31.49	W 104 10 32.47
	4085.00	0.40	264.79	4084.80	5.19	5.19	-27.63	0.06	664054.69	589762.28	N 32 49 31.49	W 104 10 32.48
	4263.00	0.68	253.81	4262.79	4.76	4.76	-29.56	0.28	664054.25	589760.33	N 32 49 31.49	W 104 10 32.51
	4443.00	0.62	244.80	4442.78	3.96	3.96	-31.77	0.16	664053.45	589758.12	N 32 49 31.48	W 104 10 32.53
	4623.00	0.70	258.20	4622.76	3.32	3.32	-33.73	0.10	664052.81	589756.16	N 32 49 31.47	W 104 10 32.56
End MWD Survey	4801.00	0.09	253.34	4800.76	3.05	3.05	-34.92	0.34	664052.55	589754.97	N 32 49 31.47	W 104 10 32.57

Survey Type: Non-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	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Artesia Yeso Fed Unit #21 MWD 0' to 4801'
	14.000	14.000	Act Stns	SLB_MWD-STD-Depth Only	Original Hole / Artesia Yeso Fed Unit #21 MWD 0' to 4801'
	14.000	4801.000	Act Stns	SLB_MWD-STD	Original Hole / Artesia Yeso Fed Unit #21 MWD 0' to 4801'