

Reservoir Development

Drilling & Measurements (Extreme Engineering)

6724 Corporation Pkwy Suite 100

Fort Worth, TX 76126

Phone: (817) 717-1820

Fax: (817) 546-7551

July 18, 2013

Occidental Permian Ltd

5 Greenway Plaza Suite 110

Houston, Texas 77046

Attention: Anthony Tschacher

Re:

CLIENT: OXY Permian
WELL: ROO 22 State #10
FIELD: Permian Basin
RIG: Savanna 415
COUNTY: Eddy
API NO: 30-015-40532
JOB NO: NM-OXY-0066

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.

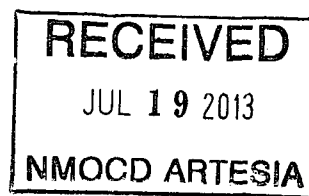
<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Braden Forsberg FST-2	ROO 22 State #10 Original Hole	61.00 Ft to 4862.00 Ft	May 3, 2012 to May 10, 2013	SlimPulse

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
Monahans District Coordinator

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



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I, Braden Forsberg certify that; I am employed by Drilling & Measurements (formerly Extreme), a division of Schlumberger Technology Corporation; that I did on the day(s) of May 03, 2012 through May 10, 2013, conduct or supervise the taking of the SlimPulse surveys from a depth of 61.00 feet to a depth of 4862.00 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 Permian for the ROO 22 State #10 Well (Original Hole) API No. 30-015-40532 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.

Braden Forsberg
FST-2

Before me, _____, on this day personally appeared _____, 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 _____ day of _____, (year).

Notary Public

ROO-22ST #10 MWD 0' to 4862' Survey Report (Def Survey)

Report Date: May 12, 2013 3:03 PM
Client: Oxy
Field: NM, EDDY (NAD27 CZ) 2011
Structure / Slot: OXY (ROO-22ST #10) SAVANNA 415 / ROO-22ST #10
Well: ROO-22ST #10
Borehole: Original Hole
UWI / API#: Unknown / 30-015-40532
Survey Name: ROO-22ST #10 MWD 0' to 4862'
Survey Date: May 12, 2013
Tort / AHD / DDI / ERD Ratio: 7.745 / 32,709 ft / 2.404 / 0.007
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 32° 13' 50.31000", W 104° 5' 58.25520"
Location Grid N/E Y/X: 1140253 845 HUG
CRS Grid Convergence Angle: -1.2965538°
Grid Scale Factor: 1.00039947

Survey: DLS Computations: Maximum Curvature - Unknown
Vertical Section Azimuth: 0.000 (Grid North)
Vertical Section Origin: 0.000 ft 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 3394.000 ft above unknown
Sealed / Ground Elevation: 3362.000 ft above unknown
Magnetic Declination: 7.867°
Total Field Strength: 48083.505 nT
Magnetic Dip Angle: 65.543°
Declination Date: May 12, 2013
Magnetic Declination Model: IGGM 2012
North Reference: Grid North
Grid Convergence Used: 0.09°
Total Curr Mag North-Grid North: 7.778°
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	555140.78	1140253.84	N 32° 13' 50.31"	W 104° 5' 58.26"
First MWD Survey	61.00	0.08	354.76	61.00	0.91	0.04	0.00	0.13	555140.32	1140253.84	N 32° 13' 50.31"	W 104° 5' 58.26"
	251.00	0.22	2.35	251.00	0.54	0.54	0.00	0.07	555140.87	1140253.84	N 32° 13' 50.32"	W 104° 5' 58.26"
	441.00	0.40	6.73	441.00	1.50	1.55	0.05	0.10	555141.64	1140253.84	N 32° 13' 50.32"	W 104° 5' 58.26"
	618.00	0.09	105.07	618.00	2.11	2.14	0.00	0.24	555112.42	1140254.14	N 32° 13' 50.33"	W 104° 5' 58.27"
	769.00	0.22	114.17	769.00	1.59	1.99	0.68	0.09	555142.27	1140254.52	N 32° 13' 50.33"	W 104° 5' 58.27"
	918.00	0.22	214.37	918.00	1.54	1.64	0.78	0.23	555141.91	1140254.62	N 32° 13' 50.33"	W 104° 5' 58.27"
	1166.00	0.40	171.56	1166.00	0.36	0.38	0.53	0.11	555140.65	1140254.48	N 32° 13' 50.31"	W 104° 5' 58.25"
	1387.00	0.40	206.37	1386.00	1.05	1.05	0.41	0.11	555135.21	1140254.25	N 32° 13' 50.31"	W 104° 5' 58.25"
	1469.00	0.30	164.85	1468.00	1.53	-1.53	0.34	0.37	555138.75	1140254.16	N 32° 13' 50.29"	W 104° 5' 58.25"
	1659.00	0.08	147.03	1658.00	2.12	2.12	0.54	0.12	555138.16	1140254.04	N 32° 13' 50.29"	W 104° 5' 58.24"
	1849.00	0.40	219.29	1848.00	2.74	-2.74	0.16	0.30	555131.53	1140254.03	N 32° 13' 50.27"	W 104° 5' 58.24"
	2039.00	0.70	212.13	2038.00	4.23	-4.23	0.86	0.16	555135.04	1140253.99	N 32° 13' 50.47"	W 104° 5' 58.24"
	2212.00	0.40	135.24	2211.00	5.59	5.60	1.62	0.16	555134.68	1140253.27	N 32° 13' 50.25"	W 104° 5' 58.28"
	2389.00	0.31	206.30	2388.00	6.08	-6.08	2.00	0.08	555132.68	1140251.85	N 32° 13' 50.25"	W 104° 5' 58.28"
	2429.00	0.40	166.56	2428.00	6.94	6.94	-2.03	0.41	555133.32	1140251.81	N 32° 13' 50.24"	W 104° 5' 58.28"
	2574.00	0.48	204.87	2573.00	-7.99	-7.99	-2.19	0.20	555132.25	1140251.65	N 32° 13' 50.23"	W 104° 5' 58.28"
	2634.00	0.48	155.65	2633.00	8.45	-8.45	-2.33	0.21	555131.81	1140251.51	N 32° 13' 50.23"	W 104° 5' 58.28"
	2874.00	0.40	215.23	2873.00	9.79	-9.79	2.35	0.11	555132.45	1140250.69	N 32° 13' 50.21"	W 104° 5' 58.25"
	3014.00	0.62	186.95	3013.00	11.35	11.35	3.34	0.15	555122.92	1140250.90	N 32° 13' 50.26"	W 104° 5' 58.30"
	3204.00	0.62	187.48	3203.00	13.35	13.35	3.67	0.04	555126.95	1140250.17	N 32° 13' 50.18"	W 104° 5' 58.30"
	3329.00	0.48	186.17	3328.00	14.54	14.54	3.36	0.12	555125.71	1140249.85	N 32° 13' 50.17"	W 104° 5' 58.30"
	3519.00	0.48	219.05	3518.00	-15.93	-15.93	-4.69	0.16	555124.34	1140249.16	N 32° 13' 50.15"	W 104° 5' 58.31"
	3709.00	0.45	241.47	3708.00	-16.90	-16.90	-5.39	0.10	555123.25	1140249.90	N 32° 13' 50.14"	W 104° 5' 58.33"
	3899.00	0.80	220.13	3898.00	18.37	-18.37	-7.44	0.21	555121.85	1140249.40	N 32° 13' 50.13"	W 104° 5' 58.35"
	4089.00	0.40	227.67	4088.00	19.78	19.78	2.79	0.21	555120.49	1140249.05	N 32° 13' 50.12"	W 104° 5' 58.34"
	4296.00	0.40	197.19	4295.00	-20.90	-20.90	-9.59	0.11	555119.27	1140248.34	N 32° 13' 50.11"	W 104° 5' 58.32"
	4322.00	0.48	196.75	4321.00	21.16	21.16	9.58	0.22	555119.11	1140248.26	N 32° 13' 50.10"	W 104° 5' 58.31"
	4456.00	0.62	225.10	4455.00	-22.71	-22.71	-10.25	0.23	555117.05	1140247.55	N 32° 13' 50.09"	W 104° 5' 58.34"
	4652.00	0.22	177.97	4651.00	-23.19	-23.19	-10.71	0.15	555117.02	1140247.13	N 32° 13' 50.08"	W 104° 5' 58.39"
	4716.00	0.31	12.17	4715.00	-23.05	-23.05	-10.58	0.21	555117.17	1140243.25	N 32° 13' 50.08"	W 104° 5' 58.38"
Final MWD Survey	4862.00	0.31	12.17	4861.00	-23.37	-23.37	-10.41	0.00	555117.85	1140243.43	N 32° 13' 50.03"	W 104° 5' 58.35"

Survey Type: Def Survey

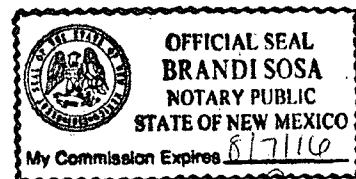
Survey Error Model: ISC/WSA Rev 0.000 3-D ES 000% Confidence 7 / 955 errors

Survey Program:

Description	MD From (ft)	MD To (ft)	EOU From (ft)	Survey Tool Type
	0.000	14.000		SLB MWD STD-Depth Only
	14.000	14.000		SLB MWD STD-Depth Only
	14.000	4862.000		SLB MWD STD

Borehole / Survey
Original Hole: ROO-22ST #10 MWD 0' to 4862'
Original Hole: ROO-22ST #10 MWD 0' to 4862'
Original Hole: ROO-22ST #10 MWD 0' to 4862'

Brandi Sosa



Brandi Sosa