

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

February 19, 2019

Oxy USA Inc.

Re:

35, 23S, 31E, Eddy NM
N 32.26787 W 103.74192

CLIENT: Oxy USA Inc.
WELL: Cal-Mon 35 Federal 176H
FIELD: Wolfcamp

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-45525
JOB NO: 19MLD4180

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, 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>
Maria Zapata FE	Cal-Mon 35 Federal 176H Original Hole	1008.00 Ft to 13018.00 Ft	January 24, 2019 to February 4, 2019	SlimPulse Third Party Corrected

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Andrew Saloman
Field Service Manager

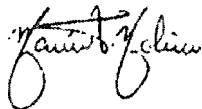
Schlumberger-Private

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Well Reference:
35, 23S, 31E, Eddy NM
N 32.26787 W 103.74192

I, Maria Zapata certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of January 24, 2019 through February 04, 2019, conduct or supervise the taking of the SlimPulse & Third Party Corrected surveys from a depth of 1008.00 feet to a depth of 13018.00 feet referenced to driller's depth; 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 USA Inc. for the Cal-Mon 35 Federal 176H Well (Original Hole) API No. 30-015-45525 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.



By
Maria Zapata
FE

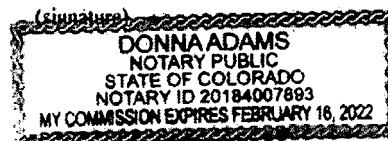
Subscribed and Sworn to before me this 19th day of February (month) 2019 (yr)

My Commission expires:

2-16-2022

Donna Adams
Notary Public

Adams County Colorado
(County State)



Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-13071' Survey Geodetic Report

(Def Survey)



Report Date: February 13, 2019 - 08:14 AM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Cal-Mon 35 Federal 176H / Oxy Cal-Mon 35 Federal 176H
 Well: Cal-Mon 35 Federal 176H
 Borehole: Original Hole
 UWI / API#: Unknown / 30-015-45525
 Survey Name: Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-13071'
 Survey Date: January 15, 2019
 Tort / AHD / DDI / ERD Ratio: 159.865' / 1860.025 ft / 5.517 / 0.157
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 16' 4.34028", W 103° 44' 30.93314"
 Location Grid N/E Y/X: N 461688.660 ftUS, E 724133.160 ftUS
 CRS Grid Convergence Angle: 0.3157°
 Grid Scale Factor: 0.99994736
 Version / Patch: 2.10.753.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 176.920° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 3497.500 ft above MSL
 Seabed / Ground Elevation: 3471.000 ft above MSL
 Magnetic Declination: 6.791°
 Total Gravity Field Strength: 998.4458mgn (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48015.100 nT
 Magnetic Dip Angle: 59.985°
 Declination Date: January 15, 2019
 Magnetic Declination Model: IFR1
 North Reference: Grid North
 Grid Convergence Used: 0.3157°
 Total Corr Mag North->Grid: 6.4753°
 North: 6.4753°
 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 ° ° ' ")
WRP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	461688.66	724133.16	N 32 16 4.34	W 103 44 30.93
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	461688.66	724133.16	N 32 16 4.34	W 103 44 30.93
	97.76	0.57	177.63	97.76	0.35	-0.35	0.01	0.80	461688.31	724133.17	N 32 16 4.34	W 103 44 30.93
	184.64	0.95	174.64	184.63	1.51	-1.50	0.10	0.44	461687.16	724133.26	N 32 16 4.33	W 103 44 30.93
	272.31	0.93	174.14	272.29	2.94	-2.93	0.24	0.02	461685.73	724133.40	N 32 16 4.31	W 103 44 30.93
	366.28	0.90	171.53	366.25	4.44	-4.42	0.43	0.05	461684.24	724133.59	N 32 16 4.30	W 103 44 30.93
	462.05	0.96	168.47	462.00	5.98	-5.95	0.70	0.08	461682.71	724133.86	N 32 16 4.28	W 103 44 30.93
	556.08	0.96	167.72	556.02	7.54	-7.49	1.02	0.01	461681.17	724134.18	N 32 16 4.27	W 103 44 30.92
	650.81	0.91	162.74	650.74	9.05	-8.99	1.42	0.10	461679.67	724134.57	N 32 16 4.25	W 103 44 30.92
	745.63	0.92	159.59	745.55	10.51	-10.42	1.90	0.05	461678.24	724135.06	N 32 16 4.24	W 103 44 30.91
Last Gyro	838.31	0.84	166.68	838.22	11.89	-11.78	2.32	0.15	461676.88	724135.48	N 32 16 4.22	W 103 44 30.91
	1008.00	0.72	163.72	1007.89	14.15	-14.01	2.91	0.07	461674.65	724136.07	N 32 16 4.20	W 103 44 30.90
	1100.00	0.17	178.72	1099.89	14.85	-14.70	3.07	0.61	461673.96	724136.23	N 32 16 4.19	W 103 44 30.90
	1192.00	0.13	213.73	1191.89	15.07	-14.93	3.02	0.11	461673.73	724136.18	N 32 16 4.19	W 103 44 30.90
	1392.00	0.29	217.89	1391.89	15.63	-15.52	2.58	0.08	461673.15	724135.74	N 32 16 4.19	W 103 44 30.90
	1561.00	0.28	235.28	1560.88	16.17	-16.09	1.98	0.05	461672.57	724135.14	N 32 16 4.18	W 103 44 30.91
	1656.00	0.09	288.99	1655.88	16.27	-16.20	1.72	0.25	461672.46	724134.88	N 32 16 4.18	W 103 44 30.91
	1750.00	0.13	351.64	1749.88	16.13	-16.07	1.63	0.13	461672.59	724134.79	N 32 16 4.18	W 103 44 30.92
	1845.00	0.22	8.15	1844.88	15.84	-15.78	1.64	0.11	461672.88	724134.80	N 32 16 4.18	W 103 44 30.92
	1939.00	0.33	352.70	1938.88	15.40	-15.33	1.63	0.14	461673.33	724134.79	N 32 16 4.19	W 103 44 30.92
	2034.00	0.42	2.79	2033.88	14.78	-14.71	1.61	0.12	461673.95	724134.77	N 32 16 4.19	W 103 44 30.92
	2128.00	0.46	357.50	2127.88	14.06	-13.99	1.61	0.06	461674.67	724134.77	N 32 16 4.20	W 103 44 30.92
	2222.00	0.61	355.18	2221.87	13.18	-13.12	1.56	0.16	461675.54	724134.72	N 32 16 4.21	W 103 44 30.92
	2317.00	0.66	349.89	2316.87	12.13	-12.07	1.42	0.08	461676.59	724134.58	N 32 16 4.22	W 103 44 30.92
	2506.00	0.95	347.43	2505.85	9.51	-9.47	0.88	0.15	461679.19	724134.04	N 32 16 4.25	W 103 44 30.92
	2601.00	1.17	349.97	2600.83	7.77	-7.75	0.54	0.24	461680.91	724133.70	N 32 16 4.26	W 103 44 30.93
	2696.00	1.39	349.91	2695.81	5.66	-5.66	0.17	0.23	461683.00	724133.33	N 32 16 4.28	W 103 44 30.93
	2791.00	1.65	352.09	2790.77	3.15	-3.17	-0.22	0.28	461685.49	724132.94	N 32 16 4.31	W 103 44 30.94
	2885.00	1.87	348.73	2884.73	0.29	-0.33	-0.70	0.26	461688.33	724132.46	N 32 16 4.34	W 103 44 30.94
	2980.00	2.06	347.49	2979.67	-2.93	2.86	-1.38	0.20	461691.52	724131.78	N 32 16 4.37	W 103 44 30.95
	3074.00	1.77	345.15	3073.62	-6.02	5.91	-2.11	0.32	461694.57	724131.05	N 32 16 4.40	W 103 44 30.96
	3168.00	1.56	338.40	3167.58	-8.65	8.51	-2.96	0.31	461697.17	724130.20	N 32 16 4.42	W 103 44 30.97
	3357.00	0.77	339.21	3356.54	-12.30	12.09	-4.35	0.42	461700.74	724128.81	N 32 16 4.46	W 103 44 30.98
	3451.00	0.53	346.92	3450.53	-13.33	13.10	-4.68	0.27	461701.76	724128.48	N 32 16 4.47	W 103 44 30.99
	3546.00	0.40	331.88	3545.53	-14.06	13.82	-4.93	0.19	461702.48	724128.23	N 32 16 4.48	W 103 44 30.99
	3640.00	0.29	57.56	3639.53	-14.48	14.24	-4.89	0.51	461702.90	724128.27	N 32 16 4.48	W 103 44 30.99
	3735.00	0.98	126.52	3734.52	-14.08	13.88	-4.03	0.96	461702.54	724129.13	N 32 16 4.48	W 103 44 30.98
	3829.00	1.89	134.44	3828.49	-12.42	12.32	-2.28	0.99	461700.98	724130.88	N 32 16 4.46	W 103 44 30.96
	3924.00	2.25	133.78	3923.43	-9.91	9.93	0.19	0.38	461698.59	724133.35	N 32 16 4.44	W 103 44 30.93
	4018.00	2.93	139.46	4017.34	-6.65	6.83	3.08	0.77	461695.49	724136.24	N 32 16 4.41	W 103 44 30.90
	4112.00	3.47	141.52	4111.19	-2.43	2.78	6.41	0.59	461691.44	724139.57	N 32 16 4.37	W 103 44 30.86
	4207.00	4.05	142.96	4205.98	2.70	-2.15	10.22	0.62	461686.51	724143.38	N 32 16 4.32	W 103 44 30.81
	4301.00	4.05	141.90	4299.75	8.17	-7.41	14.27	0.08	461681.25	724147.43	N 32 16 4.27	W 103 44 30.77
	4396.00	2.91	154.92	4394.57	13.15	-12.24	17.36	1.45	461676.42	724150.52	N 32 16 4.22	W 103 44 30.73
	4491.00	1.97	169.39	4489.49	17.01	-16.03	18.69	1.18	461672.63	724151.84	N 32 16 4.18	W 103 44 30.72
	4586.00	0.18	181.83	4584.47	18.78	-17.78	18.98	1.89	461670.88	724152.14	N 32 16 4.16	W 103 44 30.71
	4680.00	0.11	133.43	4678.47	18.99	-17.99	19.04	0.14	461670.67	724152.20	N 32 16 4.16	W 103 44 30.71
	4869.00	0.21	198.62	4867.47	19.44	-18.44	19.06	0.10	461670.22	724152.22	N 32 16 4.16	W 103 44 30.71
	4963.00	0.16	212.87	4961.47	19.71	-18.72	18.94	0.07	461669.94	724152.10	N 32 16 4.15	W 103 44 30.71
	5057.00	0.16	40.26	5055.47	19.72	-18.73	18.95	0.34	461669.93	724152.11	N 32 16 4.15	W 103 44 30.71
	5152.00	0.32	288.15	5150.47	19.53	-18.54	18.78	0.43	461670.12	724151.94	N 32 16 4.16	W 103 44 30.72
	5340.00	1.98	50.00	5338.43	17.39	-16.29	20.77	1.15	461672.37	724153.93	N 32 16 4.18	W 103 44 30.69
	5528.00	4.69	61.60	5526.10	12.15	-10.55	30.02	1.48	461678.11	724163.18	N 32 16 4.23	W 103 44 30.58
	5623.00	5.74	64.89	5620.70	8.70	-6.58	37.74	1.15	461681.98	724170.90	N 32 16 4.27	W 103 44 30.49
	5717.00	6.44	68.08	5714.17	5.32	-2.81	46.92	0.88	461685.85	724180.08	N 32 16 4.31	W 103 44 30.39
	5811.00	6.89	70.81	5807.54	2.15	0.93	57.17	0.52	461689.59	724190.33	N 32 16 4.35	W 103 44 30.27
	5905.00	6.77	70.56	5900.87	-0.98	4.63	67.72	0.13	461693.29	724206.88	N 32 16 4.38	W 103 44 30.14
	5999.00	6.61	71.23	5994.23	-4.00	8.21	78.07	0.19	461696.87	724211.23	N 32 16 4.42	W 103 44 30.02
	6094.00	6.46	69.93	6088.61	-7.04	11.80	88.27	0.22	461700.46	724221.42	N 32 16 4.45	W 103 44 29.90
	6188.00	6.32	72.74	6182.03	-9.86	15.15	98.17	0.36	461703.81	724231.33	N 32 16 4.48	W 103 44 29.79
6282.00	6.14	75.38	6275.47	-12.13	17.96	107.98	0.36	461706.62	724241.13	N 32 16 4.51	W 103 44 29.67	
6377.00	6.34	75.88	6369.91	-14.15	20.52	117.98	0.22	461709.18	724251.14	N 32 16 4.54	W 103 44 29.56	
6471.00	6.75	79.06	6463.30	-15.90	22.83	128.44	0.58	461711.49	724261.59	N 32 16 4.56	W 103 44 29.44	
6566.00	6.73	77.41	6557.64	-17.58	25.11	139.35	0.20	461713.77	724272.51	N 32 16 4.58	W 103 44 29.31	
6660.00	6.58	71.67	6651.01	-19.91	28.00	149.84	0.73	461716.66	724282.99	N 32 16 4.61	W 103 44 29.19	
6755.00	6.16	67.36	6745.42	-23.05	31.67	159.71	0.67	461720.33	724292.86	N 32 16 4.64	W 103 44 29.07	
6844.00	5.77	69.21	6833.40	-29.33	38.95	177.95	0.23	461727.61	724311.10	N 32 16 4.72	W 103 44 28.86	
7038.00	6.33	62.76	7026.88	-32.89	43.00	186.98	0.94	461731.66	724320.13	N 32 16 4.76	W 103 44 28.75	
7132.00	5.68	61.04	7120.36	-37.04	47.62	195.66	0.72	461736.28	724328.81	N 32 16 4.80	W 103 44 28.65	
7227.00	3.78	60.72	7215.03	-40.48	51.43	202.50	2.00	461740.09	724335.65	N 32 16 4.84	W 103 44 28.57	
7415.00	0.66	49.70	7402.87	-43.87	55.16	208.73	1.67	461743.82	724341.88	N 32 16 4.87	W 103 44 28.50	
7510.00	0.13	305.91	7497.87	-44.27	55.58	209.06	0.74	461744.24	724342.21	N 32 16 4.88	W 103 44 28.49	
7604.00	0.05	230.15	7591.87	-44.31	55.62	209.95	0.14	461744.27	724342.09	N 32 16 4.88	W 103 44 28.50	
7698.00	0.73	285.73	7685.86	-44.48	55.75	208.34	0.75	461744.41	724341.49	N 32 16 4.88	W 103 44 28.50	
7793.00	0.57	258.45	7780.86	-44.60	55.82	207.29	0.36	461744.48	724340.44	N 32 16 4.88	W 103 44 28.52	
7887.00	0.61	9.16	7874.85	-45.02	56.22	206.91	1.03					

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 ° ° °)
	8548.00	0.03	240.21	8535.84	-43.95	55.15	206.90	0.29	461743.81	724340.05	N 32 16	4.87 W 103 44 28.52
	8737.00	0.41	247.73	8724.84	-43.71	54.87	206.23	0.20	461743.53	724339.38	N 32 16	4.87 W 103 44 28.53
	8926.00	0.67	149.22	8913.84	-42.51	53.66	206.17	0.44	461742.32	724339.32	N 32 16	4.86 W 103 44 28.53
	9114.00	0.20	327.87	9101.83	-41.82	53.00	206.56	0.46	461741.65	724339.71	N 32 16	4.85 W 103 44 28.52
	9303.00	0.17	265.77	9290.83	-42.10	53.26	206.11	0.10	461741.91	724339.26	N 32 16	4.86 W 103 44 28.53
	9492.00	1.15	232.20	9479.82	-41.02	52.07	204.33	0.54	461740.73	724337.48	N 32 16	4.84 W 103 44 28.55
	9586.00	0.14	29.53	9573.81	-40.58	51.59	203.64	1.36	461740.25	724336.79	N 32 16	4.84 W 103 44 28.56
	9775.00	0.16	206.87	9762.81	-40.54	51.56	203.63	0.16	461740.22	724336.78	N 32 16	4.84 W 103 44 28.56
	9964.00	0.40	110.76	9951.81	-40.05	51.09	204.13	0.24	461739.75	724337.28	N 32 16	4.83 W 103 44 28.55
	10058.00	0.21	100.55	10045.81	-39.88	50.94	204.61	0.21	461739.60	724337.76	N 32 16	4.83 W 103 44 28.55
	10247.00	0.31	170.73	10234.81	-39.29	50.38	205.03	0.16	461739.03	724338.18	N 32 16	4.83 W 103 44 28.54
	10341.00	0.90	155.14	10328.80	-38.35	49.45	205.38	0.65	461738.11	724338.53	N 32 16	4.82 W 103 44 28.54
	10436.00	0.25	112.17	10423.80	-37.57	48.70	205.89	0.78	461737.36	724338.04	N 32 16	4.81 W 103 44 28.53
	10530.00	0.36	328.27	10517.80	-37.74	48.68	205.93	0.62	461737.53	724338.08	N 32 16	4.81 W 103 44 28.53
KOP Actual	10631.00	0.62	196.62	10618.79	-37.51	48.62	205.61	0.89	461737.28	724338.76	N 32 16	4.81 W 103 44 28.54
	10725.00	0.52	216.43	10712.79	-36.70	47.79	205.21	0.23	461736.45	724338.36	N 32 16	4.80 W 103 44 28.54
	10819.00	0.85	205.48	10806.78	-35.76	46.82	204.66	0.38	461735.48	724337.81	N 32 16	4.79 W 103 44 28.55
	10914.00	1.19	187.84	10901.77	-34.17	45.21	204.22	0.48	461733.87	724337.37	N 32 16	4.78 W 103 44 28.55
	11009.00	2.68	192.10	10996.71	-31.06	42.06	203.62	1.57	461730.72	724336.77	N 32 16	4.75 W 103 44 28.56
	11104.00	3.25	190.99	11091.58	-28.30	37.24	202.64	0.60	461725.90	724335.79	N 32 16	4.70 W 103 44 28.57
	11198.00	3.11	184.99	11185.44	-21.19	32.09	201.91	0.38	461720.75	724335.06	N 32 16	4.65 W 103 44 28.58
	11259.00	3.14	185.83	11246.35	-17.90	28.78	201.60	0.09	461717.44	724334.75	N 32 16	4.61 W 103 44 28.58
	11288.00	3.04	187.15	11275.31	-16.36	27.22	201.42	0.42	461715.88	724334.57	N 32 16	4.60 W 103 44 28.59
100' FNL	11383.00	14.08	179.91	11369.10	-2.30	13.13	201.12	11.65	461701.78	724334.27	N 32 16	4.46 W 103 44 28.59
	11392.00	15.54	179.58	11377.81	0.00	10.82	201.13	16.27	461699.48	724334.28	N 32 16	4.46 W 103 44 28.59
	11478.00	29.52	178.05	11457.04	32.85	-22.03	201.94	16.27	461666.63	724335.09	N 32 16	4.11 W 103 44 28.58
	11573.00	39.93	181.25	11535.02	86.81	-76.06	202.07	11.12	461612.60	724335.22	N 32 16	3.58 W 103 44 28.58
Exit Target Box	11636.00	47.65	181.93	11580.47	130.23	-119.61	200.85	12.28	461569.06	724333.99	N 32 16	3.15 W 103 44 28.60
	11668.00	51.58	182.22	11601.19	154.50	-143.96	199.96	12.28	461544.71	724333.11	N 32 16	2.90 W 103 44 28.61
	11762.00	56.95	181.24	11656.08	230.50	-220.20	197.68	5.77	461468.47	724330.83	N 32 16	2.15 W 103 44 28.65
Wolfcamp Intersection	11816.55	59.01	179.75	11685.00	276.66	-266.44	197.29	4.43	461422.23	724330.44	N 32 16	1.69 W 103 44 28.65
	11857.00	60.54	178.68	11705.36	311.58	-301.39	197.77	4.43	461387.29	724330.92	N 32 16	1.35 W 103 44 28.65
	11953.00	64.83	180.40	11749.41	396.76	-386.66	198.43	4.74	461302.02	724331.58	N 32 16	0.50 W 103 44 28.65
	12049.00	75.71	179.90	11781.77	486.85	-476.89	198.21	11.34	461211.80	724331.36	N 32 15 59.61	W 103 44 28.66
	12144.00	84.14	178.03	11798.37	580.23	-570.32	199.92	9.08	461118.37	724333.07	N 32 15 58.69	W 103 44 28.64
	12208.00	87.52	176.61	11803.03	644.05	-634.07	202.90	5.73	461054.63	724336.05	N 32 15 58.06	W 103 44 28.61
Enter Target Box	12220.00	87.47	177.25	11803.55	656.04	-646.04	203.54	5.38	461042.66	724336.69	N 32 15 57.94	W 103 44 28.60
	12243.00	87.38	178.49	11804.58	679.01	-669.00	204.40	5.38	461019.70	724337.55	N 32 15 57.71	W 103 44 28.60
	12337.00	87.28	176.25	11808.96	772.90	-762.79	208.70	2.38	460925.91	724341.85	N 32 15 56.78	W 103 44 28.55
	12432.00	89.75	176.48	11811.43	867.86	-857.56	214.73	2.61	460831.15	724347.87	N 32 15 55.84	W 103 44 28.49
	12527.00	88.62	176.83	11812.78	962.85	-952.39	220.27	1.25	460736.32	724353.42	N 32 15 54.90	W 103 44 28.43
	12717.00	89.96	178.18	11815.13	1152.81	-1142.18	228.54	1.00	460546.54	724361.68	N 32 15 53.03	W 103 44 28.34
	12907.00	88.10	170.15	11818.35	1342.40	-1331.01	247.83	4.34	460357.72	724380.98	N 32 15 51.16	W 103 44 28.13
	12932.00	88.48	170.27	11819.10	1367.22	-1355.64	252.08	1.59	460333.10	724385.23	N 32 15 50.91	W 103 44 28.08
	13001.00	90.99	171.85	11819.42	1435.85	-1423.79	262.80	4.30	460264.95	724395.95	N 32 15 50.24	W 103 44 27.96
Final Survey	13018.00	91.00	172.45	11819.12	1452.79	-1440.63	265.12	3.53	460248.11	724398.27	N 32 15 50.07	W 103 44 27.94
Proj. to Bit	13071.00	91.00	172.45	11818.20	1505.62	-1493.16	272.08	0.00	460195.58	724405.23	N 32 15 49.55	W 103 44 27.86

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	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	26.500	1/98.425	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-13071'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-13071'
	1	26.500	838.310	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-
	1	838.310	10530.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-
	1	10530.000	11198.000	Act Stns	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-
	1	11198.000	13071.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Hole / Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-

...Cal-Mon 35 Federal 176H\Original Hole\Oxy Cal-Mon 35 Federal 176H Gyro + MWD 0-13071'

Oilfield Services, Central U.S. Land
Schlumberger Drilling and Measurements
Drilling Group
Geo Market Area: South West Texas Basin
7220 W I-H 20
Midland, Texas 79706
Phone : (432) 742-5400 (Main)
Fax : (432) 742-5606 (Shared)

Schlumberger

February 19, 2019

Oxy USA Inc.

Re:

35, 23S, 31E, Eddy NM
N 32.26787 W 103.74192

CLIENT: Oxy USA Inc.
WELL: Cal-Mon 35 Federal 176H ST01
FIELD: Wolfcamp

RIG: H&P 657
COUNTY: Eddy
API NO: 30-015-45525
JOB NO: 19MLD4180

Enclosed, please find the original copy of the survey performed on the referenced well by Drilling & Measurements, 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>
Maria Zapata FE	Cal-Mon 35 Federal 176H ST01 Side Track	12527.00 Ft to 16680.00 Ft	February 7, 2019 to February 13, 2019	SlimPulse Third Party Corrected

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Andrew Saloman
Field Service Manager

Schlumberger-Private