

Schlumberger

Oxy Patton MDP1 17 Federal 4H Gyro+MWD 0-15,379' Survey Geodetic Report

(Def Survey)

30-015-44497



Report Date: January 14, 2018 - 03:05 PM
 Client: OXY
 Field: NM Eddy County (NAD 83)
 Structure / Slot: Oxy Patton MDP1 17 Federal 4H / Oxy Patton MDP1 17 Federal 4H
 Well: Oxy Patton MDP1 17 Federal 4H
 Borehole: Original Borehole
 UWI / API#: Unknown / Unknown
 Survey Name: Oxy Patton MDP1 17 Federal 4H Gyro+MWD 0-15,379'
 Survey Date: January 02, 2018
 Tort / AHD / DDI / ERD Ratio: 207.445' / 6188.099 ft / 6.293 / 0.615
 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
 Location Lat / Long: N 32° 13' 32.81021", W 103° 48' 3.51063"
 Location Grid N/E Y/X: N 446280.600 RUS, E 705956.760 RUS
 CRS Grid Convergence Angle: 0.2839°
 Grid Scale Factor: 0.99994013
 Version / Patch: 2.10.696.0

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 171.630° (Grid North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB=26.5'
 TVD Reference Elevation: 3567.200 ft above MSL
 Seabed / Ground Elevation: 3540.700 ft above MSL
 Magnetic Declination: 6.932°
 Total Gravity Field Strength: 998.4279mg (9.80665 Based)
 Gravity Model: GARM
 Total Magnetic Field Strength: 48059.686 nT
 Magnetic Dip Angle: 59.963°
 Declination Date: January 02, 2018
 Magnetic Declination Model: HDGM 2017
 North Reference: Grid North
 Grid Convergence Used: 0.2839°
 Total Corr Mag North->Grid North: 6.6480°
 Local Coord Reference To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 02 2018

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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 ° ' ")
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	446280.60	705956.76	N 32 13 32.81	W 103 48 3.52
	26.60	0.00	0.00	26.60	0.00	0.00	0.00		446280.60	705956.76	N 32 13 32.81	W 103 48 3.52
	84.67	0.83	52.29	84.67	-0.23	0.29	0.37	1.60	446280.89	705957.13	N 32 13 32.81	W 103 48 3.52
	179.04	0.48	203.64	179.03	-0.27	0.39	0.82	1.45	446280.99	705957.58	N 32 13 32.81	W 103 48 3.51
	273.16	1.76	213.89	273.13	1.13	-1.17	-0.14	1.37	446279.43	705956.62	N 32 13 32.80	W 103 48 3.52
	367.63	2.28	210.26	367.55	3.67	-3.99	-1.90	0.57	446276.61	705954.86	N 32 13 32.77	W 103 48 3.54
	462.11	2.43	207.92	461.95	6.76	-7.39	-3.78	0.19	446273.21	705952.98	N 32 13 32.74	W 103 48 3.56
	554.63	2.40	204.87	554.38	9.96	-10.88	-5.52	0.14	446269.72	705951.24	N 32 13 32.70	W 103 48 3.58
	647.09	2.56	200.49	646.76	13.39	-14.57	-7.05	0.27	446266.03	705949.71	N 32 13 32.67	W 103 48 3.60
	739.61	2.46	191.00	739.19	17.07	-18.45	-8.16	0.46	446262.15	705948.60	N 32 13 32.63	W 103 48 3.62
	832.09	1.11	173.48	831.62	19.84	-21.29	-8.43	1.56	446259.31	705948.33	N 32 13 32.60	W 103 48 3.62
	924.63	0.36	131.82	924.15	20.96	-22.38	-8.12	0.94	446256.23	705948.65	N 32 13 32.59	W 103 48 3.62
	1017.13	0.30	105.40	1016.65	21.28	-22.63	-7.67	0.17	446257.97	705949.10	N 32 13 32.59	W 103 48 3.61
	1109.66	0.29	105.46	1109.18	21.47	-22.76	-7.21	0.01	446257.84	705949.55	N 32 13 32.59	W 103 48 3.60
	1202.16	0.31	130.80	1201.68	21.75	-22.99	-6.79	0.14	446257.62	705949.97	N 32 13 32.58	W 103 48 3.60
	1294.66	0.28	102.07	1294.18	22.02	-23.20	-6.38	0.16	446257.40	705950.38	N 32 13 32.58	W 103 48 3.60
	1387.09	0.29	106.80	1386.61	22.21	-23.32	-5.94	0.04	446257.28	705950.82	N 32 13 32.58	W 103 48 3.59
	1481.65	0.31	134.54	1481.17	22.52	-23.58	-5.53	0.14	446257.03	705951.23	N 32 13 32.58	W 103 48 3.59
	1576.09	0.32	136.96	1575.61	22.94	-23.95	-5.17	0.02	446256.65	705951.59	N 32 13 32.57	W 103 48 3.58
	1670.86	0.28	346.94	1670.17	22.93	-23.92	-5.04	0.61	446256.69	705951.72	N 32 13 32.57	W 103 48 3.58
	1765.09	0.19	113.14	1764.60	22.78	-23.75	-4.95	0.45	446256.85	705951.81	N 32 13 32.58	W 103 48 3.58
	1859.43	0.19	112.24	1858.94	22.94	-23.87	-4.66	0.00	446256.73	705952.10	N 32 13 32.57	W 103 48 3.58
	1953.93	0.28	349.01	1953.44	22.79	-23.71	-4.56	0.46	446256.90	705952.20	N 32 13 32.58	W 103 48 3.57
	2048.54	0.20	117.18	2048.05	22.66	-23.55	-4.46	0.46	446257.05	705952.31	N 32 13 32.58	W 103 48 3.57
	2142.99	0.13	134.59	2142.50	22.84	-23.71	-4.23	0.09	446256.90	705952.53	N 32 13 32.58	W 103 48 3.57
	2237.34	0.19	120.02	2236.85	23.02	-23.86	-4.02	0.08	446256.74	705952.74	N 32 13 32.57	W 103 48 3.57
	2331.62	0.19	121.37	2331.13	23.22	-24.02	-3.75	0.00	446256.58	705953.01	N 32 13 32.57	W 103 48 3.56
	2425.89	0.18	131.50	2425.40	23.43	-24.20	-3.51	0.04	446256.40	705953.25	N 32 13 32.57	W 103 48 3.56
	2520.35	0.19	122.28	2519.86	23.64	-24.38	-3.26	0.03	446256.22	705953.50	N 32 13 32.57	W 103 48 3.56
	2614.73	0.19	359.46	2614.24	23.59	-24.31	-3.13	0.35	446256.29	705953.83	N 32 13 32.57	W 103 48 3.56
	2709.03	0.20	1.69	2708.54	23.27	-23.99	-3.13	0.01	446256.62	705953.63	N 32 13 32.57	W 103 48 3.56
	2803.41	0.09	68.35	2802.92	23.10	-23.79	-3.06	0.19	446256.81	705953.70	N 32 13 32.57	W 103 48 3.56
	2897.82	0.36	240.64	2897.33	23.18	-23.91	-3.25	0.48	446256.69	705953.51	N 32 13 32.57	W 103 48 3.56
	2992.36	0.43	202.26	2991.87	23.60	-24.39	-3.64	0.28	446256.22	705953.12	N 32 13 32.57	W 103 48 3.56
	3086.83	0.25	16.50	3086.34	23.71	-24.52	-3.71	0.72	446256.09	705953.05	N 32 13 32.57	W 103 48 3.56
	3181.11	0.28	9.04	3180.62	23.31	-24.09	-3.62	0.05	446256.51	705953.14	N 32 13 32.57	W 103 48 3.56
	3275.64	0.44	292.50	3275.14	22.90	-23.72	-3.92	0.49	446256.88	705952.84	N 32 13 32.58	W 103 48 3.57
	3369.99	0.46	251.98	3369.49	22.78	-23.70	-4.61	0.33	446256.90	705952.15	N 32 13 32.58	W 103 48 3.57
	3464.48	0.28	233.65	3463.98	22.95	-23.96	-5.16	0.23	446256.64	705951.60	N 32 13 32.57	W 103 48 3.58
	3558.87	0.30	239.79	3558.37	23.15	-24.22	-5.56	0.04	446256.38	705951.20	N 32 13 32.57	W 103 48 3.59
	3653.31	0.34	148.56	3652.81	23.50	-24.58	-5.63	0.49	446256.02	705951.13	N 32 13 32.57	W 103 48 3.59
	3747.61	0.29	106.57	3747.11	23.86	-24.89	-5.25	0.24	446255.71	705951.51	N 32 13 32.56	W 103 48 3.58
	3842.08	0.31	119.00	3841.57	24.11	-25.08	-4.80	0.07	446255.52	705951.96	N 32 13 32.56	W 103 48 3.58
	3936.33	0.34	145.93	3935.82	24.52	-25.44	-4.42	0.16	446255.17	705952.34	N 32 13 32.56	W 103 48 3.57
	4030.51	0.34	145.00	4030.00	25.02	-25.90	-4.10	0.01	446254.71	705952.66	N 32 13 32.55	W 103 48 3.57
	4124.86	0.33	152.52	4124.35	25.53	-26.37	-3.82	0.05	446254.24	705952.94	N 32 13 32.55	W 103 48 3.57
	4219.12	0.40	149.81	4218.61	26.09	-26.89	-3.53	0.08	446253.71	705953.23	N 32 13 32.54	W 103 48 3.56
	4313.49	0.26	127.17	4312.98	26.55	-27.31	-3.19	0.20	446253.30	705953.57	N 32 13 32.54	W 103 48 3.56
	4407.84	0.24	110.31	4407.33	26.80	-27.50	-2.83	0.08	446253.10	705953.93	N 32 13 32.54	W 103 48 3.55
	4502.26	0.23	39.89	4501.74	26.75	-27.42	-2.54	0.31	446253.19	705954.22	N 32 13 32.54	W 103 48 3.55
	4596.79	0.28	8.64	4596.27	26.39	-27.03	-2.40	0.13	446253.57	705954.36	N 32 13 32.54	W 103 48 3.55
	4691.12	0.17	29.23	4690.60	26.06	-26.68	-2.30	0.14	446253.92	705954.46	N 32 13 32.55	W 103 48 3.55
	4785.68	0.34	298.69	4785.16	25.78	-26.42	-2.48	0.40	446254.18	705954.28	N 32 13 32.55	W 103 48 3.55
	4880.12	0.46	296.79	4879.60	25.39	-26.12	-3.06	0.13	446254.48	705953.70	N 32 13 32.55	W 103 48 3.56
	4974.42	0.32	316.32	4973.90	24.96	-25.76	-3.58	0.20	446254.85	705953.18	N 32 13 32.56	W 103 48 3.56
	5068.82	0.36	294.81	5068.30	24.58	-25.44	-4.03	0.14	446255.16	705952.73	N 32 13 32.56	W 103 48 3.57
	5163.20	0.35	295.77	5162.67	24.26	-25.19	-4.56	0.01	446255.41	705952.20	N 32 13 32.56	W 103 48 3.57
	5257.78	0.36	290.82	5257.25	23.95	-24.96	-5.10	0.03	446255.64	705951.66	N 32 13 32.56	W 103 48 3.58
	5351.98	0.37	292.69	5351.45	23.65	-24.74	-5.66	0.02	446255.86	705951.10	N 32 13 32.57	W 103 48 3.59
	5446.53	0.35	134.34	5446.00	23.72	-24.82	-5.73	0.75	446255.78	705951.03	N 32 13 32.56	W 103 48 3.59
	5541.03	0.36	132.05	5540.50	24.18	-25.22	-5.30	0.02	446255.38	705951.46	N 32 13 32.56	W 103 48 3.58
	5635.52	0.36	136.78	5634.99	24.66	-25.64	-4.89	0.04	446254.96	705951.87	N 32 13 32.56	W 103 48 3.58
	5729.80	0.35	132.19	5729.26	25.13	-26.06	-4.48	0.04	446254.54	705952.28	N 32 13 32.55	W 103 48 3.57
	5824.37	0.34	102.13	5823.83	25.45	-26.31	-3.99	0.19	446254.29	705952.77	N 32 13 32.55	W 103 48 3.57
	5918.54	0.35	122.81	5918.00	25.74	-26.53	-3.48	0.13	446254.07	705953.28	N 32 13 32.55	W 103 48 3.56
	6013.00	1.68	104.07	6012.44	26.46	-27.02	-1.89	1.43	446253.58	705954.87	N 32 13 32.54	W 103 48 3.54
	6107.47	3.49	104.75	6106.81	28.12	-28.09	2.23	1.92	446252.51	705958.99	N 32 13 32.53	W 103 48 3.50
	6201.80	5.49	104.79	6200.85	31.02	-29.97	9.37	2.12	446250.63	705966.13	N 32 13 32.51	W 103 48 3.41
	6296.23	7.21	102.93	6294.70	34.95	-32.45	18.52	1.83	446248.15	705976.28	N 32 13 32.49	W 103 48 3.29
	6390.56	9.07	101.75	6388.07	39.66	-35.29	32.57	1.98	446245.31	705989.32	N 32 13 32.46	W 103 48 3.14
	6484.90	10.49	96.99	6481.04	44.49	-37.85	48.37	1.73	446242.75	706005.13	N 32 13 32.43	W 103 48 2.96
	6579.40	10.80	93.75	6573.92	48.63	-39.48	65.75	0.71	446241.13	706022.50	N 32 13 32.42	W 103 48 2.76
	6673.92	10.79	93.80	6666.76	52.35	-40.64	83.41	0.01	446239.96	706040.17	N 32 13 32.40	W 103 48 2.55
	6768.22	10.77	88.64	6759.40	55.29	-41.02	101.03	1.02	446239.58	706057.29	N 32 13 32.40	W 103 48 2.35
	6862.69	10.68	83.00	6852.22	56.57	-39.74	118.54	1.11	446240.86	706075.78	N 32 13 32.41	W 103 48 2.14
	6957.08	10.76	83.41	6944.97	57.06	-37.66	135.97	0.12	446242.94	706092.73	N 32 13 3	

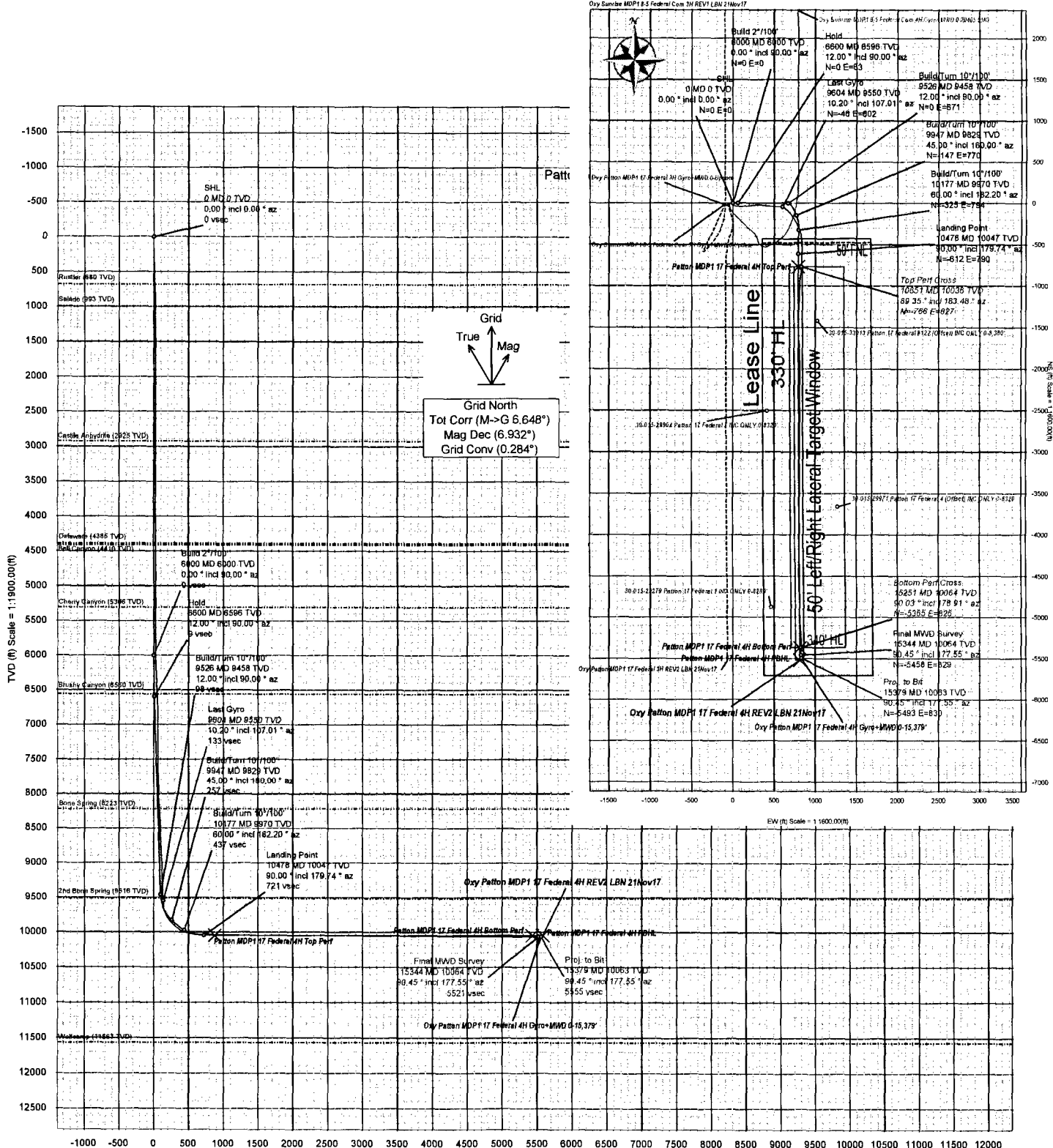
Comments	MD (ft)	Incl (°)	Azlm Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7146.02	10.56	83.79	7130.64	58.30	-33.81	170.74	0.13	446246.79	706127.49	N 32 13 32.47	W 103 48 1.53
	7240.52	10.55	83.56	7223.54	58.92	-31.90	187.95	0.05	446248.70	706144.70	N 32 13 32.49	W 103 48 1.33
	7334.84	10.67	83.44	7316.25	59.49	-29.94	205.20	0.13	446250.67	706161.95	N 32 13 32.50	W 103 48 1.13
	7429.13	10.62	83.06	7408.91	60.12	-28.03	222.52	0.12	446252.57	706179.26	N 32 13 32.52	W 103 48 0.93
	7523.45	10.59	84.92	7501.62	60.97	-26.35	239.79	0.19	446254.54	706196.54	N 32 13 32.54	W 103 48 0.73
	7617.98	10.69	84.98	7594.53	61.99	-24.81	257.18	0.11	446255.79	706213.92	N 32 13 32.55	W 103 48 0.53
	7712.44	10.25	85.61	7687.42	63.06	-23.40	274.29	0.48	446257.20	706231.03	N 32 13 32.57	W 103 48 0.33
	7806.85	10.47	88.27	7780.29	64.66	-22.50	291.23	0.56	446258.10	706247.98	N 32 13 32.57	W 103 48 0.13
	7901.37	10.69	88.15	7873.20	66.64	-21.96	308.58	0.23	446258.64	706265.32	N 32 13 32.58	W 103 47 59.93
	7995.92	9.78	91.46	7966.25	69.01	-21.88	325.37	1.15	446258.72	706282.11	N 32 13 32.58	W 103 47 59.73
	8090.37	9.95	97.14	8059.30	72.56	-23.10	341.49	1.05	446257.50	706298.23	N 32 13 32.56	W 103 47 59.55
	8184.77	10.34	96.26	8152.23	76.88	-25.04	358.00	0.44	446255.57	706314.74	N 32 13 32.54	W 103 47 59.35
	8279.31	10.29	94.75	8245.24	80.94	-26.66	374.85	0.29	446253.94	706331.59	N 32 13 32.53	W 103 47 59.16
	8373.84	9.96	95.56	8338.30	84.83	-28.15	391.40	0.38	446252.45	706348.14	N 32 13 32.51	W 103 47 58.97
	8468.25	9.19	95.39	8431.39	88.59	-29.65	407.04	0.82	446250.95	706363.77	N 32 13 32.50	W 103 47 58.78
	8562.71	9.79	95.76	8524.56	92.34	-31.17	422.54	0.64	446249.44	706379.27	N 32 13 32.48	W 103 47 58.60
	8657.23	10.56	95.46	8617.59	96.37	-32.80	439.15	0.82	446247.81	706395.89	N 32 13 32.46	W 103 47 58.41
	8751.57	10.51	98.73	8710.34	100.97	-34.92	456.26	0.64	446245.68	706413.00	N 32 13 32.44	W 103 47 58.21
	8846.09	10.54	97.01	8803.27	105.80	-37.29	473.36	0.33	446243.31	706430.10	N 32 13 32.42	W 103 47 58.01
	8940.41	10.48	96.22	8896.01	110.25	-39.27	490.45	0.17	446241.33	706447.18	N 32 13 32.40	W 103 47 57.81
	9034.93	10.32	95.78	8988.97	114.48	-41.05	507.42	0.19	446239.55	706464.15	N 32 13 32.38	W 103 47 57.62
	9129.42	10.21	93.96	9081.95	118.34	-42.49	524.20	0.36	446238.12	706480.93	N 32 13 32.36	W 103 47 57.42
	9223.79	8.19	91.40	9175.10	121.27	-43.23	539.26	2.18	446237.38	706496.99	N 32 13 32.36	W 103 47 57.24
	9318.12	11.00	91.78	9268.10	123.99	-43.67	554.98	2.98	446236.93	706511.70	N 32 13 32.35	W 103 47 57.06
	9412.64	9.93	89.84	9361.05	126.75	-43.93	572.14	1.19	446236.67	706528.87	N 32 13 32.35	W 103 47 56.86
	9507.20	8.22	87.00	9454.42	128.54	-43.55	587.05	1.87	446232.05	706543.77	N 32 13 32.35	W 103 47 56.69
	9603.81	10.20	107.01	9549.81	132.86	-45.69	602.13	3.87	446234.91	706558.85	N 32 13 32.33	W 103 47 56.51
	9690.00	13.30	108.20	9604.81	137.88	-49.17	613.03	5.53	446231.43	706569.75	N 32 13 32.29	W 103 47 56.39
	9755.00	23.73	128.94	9694.86	156.89	-64.65	638.37	12.82	446215.95	706595.09	N 32 13 32.14	W 103 47 56.09
	9849.00	33.96	138.22	9777.13	192.82	-96.22	706.68	11.85	446184.39	706627.01	N 32 13 31.83	W 103 47 55.72
	9943.00	43.33	142.05	9850.48	242.91	-141.34	708.10	10.28	446139.27	706664.91	N 32 13 31.38	W 103 47 55.29
	10038.00	50.75	148.91	9915.22	305.31	-198.66	747.21	9.42	446081.96	706703.93	N 32 13 30.81	W 103 47 54.83
	10132.00	60.21	155.58	9968.47	378.30	-267.17	782.98	11.63	446013.44	706739.89	N 32 13 30.13	W 103 47 54.42
	10227.00	75.43	160.85	10004.25	463.63	-348.66	815.31	16.82	445931.96	706772.02	N 32 13 29.32	W 103 47 54.05
	10321.00	80.94	175.48	10023.59	555.18	-438.44	834.01	16.32	445842.19	706790.71	N 32 13 28.43	W 103 47 53.84
	10416.00	88.09	182.17	10032.67	648.88	-532.87	835.91	10.28	445747.76	706792.62	N 32 13 27.50	W 103 47 53.82
	10470.00	88.88	181.26	10034.10	702.02	-586.83	834.29	2.23	445693.81	706791.00	N 32 13 26.96	W 103 47 53.84
	10569.00	89.50	182.38	10035.50	799.45	-685.77	831.15	1.29	445594.88	706787.86	N 32 13 25.98	W 103 47 53.88
	10758.00	89.16	184.91	10037.71	964.28	-874.35	819.14	1.35	445406.30	706775.85	N 32 13 24.12	W 103 47 54.03
	10852.00	89.21	183.11	10039.05	1076.08	-968.11	812.56	1.92	445312.55	706769.27	N 32 13 23.19	W 103 47 54.12
	10946.00	89.16	182.50	10040.38	1168.29	-1061.99	807.96	0.65	445218.68	706764.67	N 32 13 22.26	W 103 47 54.18
	11135.00	89.05	182.67	10043.33	1353.82	-1250.77	799.44	0.11	445029.90	706756.15	N 32 13 20.39	W 103 47 54.29
	11324.00	89.61	179.98	10045.55	1540.09	-1439.69	795.07	1.45	444841.00	706751.78	N 32 13 18.53	W 103 47 54.35
	11418.00	89.55	180.11	10046.23	1633.08	-1533.69	795.00	0.15	444747.01	706751.71	N 32 13 17.60	W 103 47 54.35
	11607.00	89.27	173.66	10048.18	1821.17	-1722.30	805.26	3.42	444558.41	706761.97	N 32 13 15.73	W 103 47 54.25
	11702.00	89.38	179.86	10049.30	1915.74	-1817.10	810.63	6.53	444463.62	706767.34	N 32 13 14.79	W 103 47 54.19
	11796.00	90.06	179.07	10049.76	2008.86	-1911.09	811.51	1.11	444369.63	706768.22	N 32 13 13.86	W 103 47 54.18
	11985.00	89.89	180.06	10049.84	2196.05	-2100.08	812.94	0.53	444180.65	706769.65	N 32 13 11.99	W 103 47 54.18
	12079.00	89.89	179.99	10050.03	2289.04	-2194.08	812.90	0.07	444086.65	706769.61	N 32 13 11.06	W 103 47 54.18
	12268.00	91.12	180.63	10048.36	2475.87	-2383.07	811.88	0.73	443897.68	706768.59	N 32 13 9.19	W 103 47 54.21
	12457.00	79.96	180.46	10046.88	2662.70	-2572.05	810.90	0.79	443708.71	706767.61	N 32 13 7.32	W 103 47 54.23
	12646.00	89.38	180.14	10048.26	2849.65	-2761.05	810.74	0.23	443519.72	706767.45	N 32 13 5.45	W 103 47 54.24
	12740.00	88.94	180.08	10049.64	2942.62	-2855.04	810.56	0.47	443425.74	706767.27	N 32 13 4.52	W 103 47 54.25
	12835.00	89.10	180.29	10051.26	3036.55	-2950.02	810.25	0.28	443330.76	706766.98	N 32 13 3.58	W 103 47 54.26
	13024.00	90.62	179.42	10051.73	3223.59	-3139.01	810.73	0.93	443141.78	706767.44	N 32 13 1.71	W 103 47 54.26
	13118.00	89.27	180.46	10051.82	3316.60	-3233.01	810.83	1.81	443047.79	706767.54	N 32 13 0.78	W 103 47 54.27
	13213.00	89.94	180.96	10052.47	3410.41	-3328.00	809.65	0.88	442952.81	706766.38	N 32 12 59.84	W 103 47 54.29
	13307.00	90.17	180.42	10052.38	3503.24	-3421.99	808.52	0.62	442858.82	706765.23	N 32 12 58.91	W 103 47 54.31
	13401.00	89.16	180.14	10052.93	3596.16	-3515.99	808.06	1.11	442764.83	706764.77	N 32 12 57.98	W 103 47 54.32
	13495.00	89.10	179.98	10054.36	3689.14	-3609.98	807.96	0.18	442670.85	706764.67	N 32 12 57.05	W 103 47 54.32
	13590.00	90.84	180.36	10054.41	3783.08	-3704.97	807.68	1.87	442575.86	706764.39	N 32 12 56.11	W 103 47 54.33
	13684.00	89.61	179.63	10054.04	3876.08	-3798.97	807.69	1.52	442481.87	706764.40	N 32 12 55.18	W 103 47 54.34
	13779.00	89.55	179.22	10054.73	3970.20	-3893.96	808.64	0.44	442386.88	706765.35	N 32 12 54.24	W 103 47 54.33
	13875.00	89.16	180.35	10055.81	4065.22	-3989.95	809.00	1.25	442290.89	706765.71	N 32 12 53.29	W 103 47 54.33
	13970.00	89.66	181.43	10056.79	4158.97	-4084.94	807.53	1.25	442195.92	706764.24	N 32 12 52.35	W 103 47 54.36
	14064.00	89.50	181.19	10057.48	4251.63	-4178.91	805.38	0.31	442101.95	706762.09	N 32 12 51.42	W 103 47 54.39
	14159.00	89.61	181.49	10058.22	4345.27	-4273.88	803.16	0.34	442006.99	706759.87	N 32 12 50.48	W 103 47 54.42
	14253.00	89.50	181.46	10058.95	4437.88	-4367.85	800.74	0.12	441913.03	706757.45	N 32 12 49.55	W 103 47 54.45
	14347.00	89.22	181.24	10060.00	4530.53	-4461.81	798.52	0.38	441819.06	706755.23	N 32 12 48.62	W 103 47 54.48
	14442.00	89.61	179.39	10060.97	4624.43	-4556.80	798.00	1.99	441724.08	706754.71	N 32 12 47.68	W 103 47 54.49
	14536.00	89.05	176.61	10062.07	4717.83	-4650.73	801.28	3.02	441630.16	706757.99	N 32 12 46.75	W 103 47 54.46
	14725.00	89.66	179.06	10064.20	4905.70	-4839.57	808.42	1.34	441441.33	706765.13	N 32 12 44.88	W 103 47 54.39
	14819.00	90.17	179.00	10064.34	4998.91	-4933.55	810.01	0.55	441347.35	706766.72	N 32 12 43.95	W 103 47 54.38
	15009.00	89.94	175.75	10064.15	5187.93	-5123.33	818.71	1.71	441157.59	706775.42	N 32 12 42.07	W 103 47 54.29
	15103.00	90.22	178.29	10064.02	5281.51	-5217.19	823.60	2.72	441063.73	706780.31	N 32 12 41.15	W 103 47 54.23
	15197.00	89.78	179.70	10064.02	5374.73	-5311.18	825.24	1.57	440969.75	706781.95	N 32 12 40.	

Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Patton MDP1 17 Federal 4H	NM Eddy County (NAD 83)	Oxy Patton MDP1 17 Federal 4H
Gravity & Magnetic Parameters			
Model: HDM 2017	Dip: 59.963°	Date: 03-Jan-2018	Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
MagDec: 8.332°	FS: 48659.686nT	Gravity FS: 996.428mgm (9.80665 Based)	Lat: N 32 13 32.81
			North: 448260.8RU5
			Lon: W 103 48 3.82
			Easting: 768988.761U5
			Scale Fact: 0.99994013
			Miscellaneous
			Oxy Patton MDP1 17 Federal 4H
			TVD Ref: RKB=26.5'(3547.2ft above MSL)
			Plan: Oxy Patton MDP1 17 Federal 4H REV2 LBN 21Nov17



Vertical Section (ft) Azim = 171.63° Scale = 1:1900.00(ft) Origin = 0N/-S, 0E/-W