

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 15, 2018

OXY USA INC.
5 Greenway Plaza Suite 110
Houston, Texas 77046-0521

30-015-44444

**NM OIL CONSERVATION
ARTESIA DISTRICT**

MAR 14 2018

RECEIVED

Re:

8, 24S, 31E, NM
-32.22689 -103.79643

CLIENT: OXY USA INC.
WELL: Patten MDP1 17 Federal 5H
FIELD: Cotton Draw Bone Spring

RIG: H&P 656
COUNTY: Eddy
API NO: 30-015-44444
JOB NO: 17MLD2555

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>
Leslie Bullard FS	Patten MDP1 17 Federal 5H Original Hole	10423.00 Ft to 15265.00 Ft	February 2, 2018 to February 8, 2018	SlimPulse

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

Les Foster
Field Service Manager

Schlumberger Drilling and Measurements
Drilling Group

Geo Market Area: South West Texas Basin
7220 W I-H 20

Midland, Texas 79706

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Well Reference:

8, 24S, 31E, NM

-32.22689 -103.79643

I, Leslie Bullard certify that; I am employed by Drilling & Measurements, a division of Schlumberger Technology Corporation; that I did on the day(s) of February 02, 2018 through February 08, 2018, conduct or supervise the taking of the SlimPulse surveys from a depth of 10423.00 feet to a depth of 15265.00 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 Patten MDP1 17 Federal 5H Well (Original Hole) API No. 30-015-44444 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
Leslie Bullard
FS

Leslie Bullard

Subscribed and Sworn to before me this 02nd day of February (month) 2018 (yr)

My Commission expires:

12-20-2020

J. Allemand

Notary Public

Adams County Colorado
(County State)

JENNIFER ALLEMAND
(signature) Notary Public
State of Colorado
Notary ID # 20164047962
My Commission Expires 12-20-2020

Oxy Patton MDP1 17 Federal 5H Gyro+MWD 0-15,310' Survey Geodetic Report

(Def Survey)



Report Date: February 09, 2018 - 09:09 PM Client: OXY Field: NM Eddy County (NAD 83) Structure / Slot: Oxy Patton MDP1 17 Federal 5H / Oxy Patton MDP1 17 Federal 5H Well: Oxy Patton MDP1 17 Federal 5H Borehole: Original Borehole UWI / APH: Unknown / Unknown Survey Name: Oxy Patton MDP1 17 Federal 5H Gyro+MWD 0-15,310' Survey Date: January 30, 2018 Tort / AHD / DDI / ERD Ratio: 173.784 ° / 6109.817 ft / 6.208 / 0.607 Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet Location Lat / Long: N 32° 13' 36.79707", W 103° 47' 47.14372" Location Grid N/E Y/X: N 446890.480 RUS, E 707361.400 RUS CRS Grid Convergence Angle: 0.2863 ° Grid Scale Factor: 0.99994068 Version / Patch: 2.10.706.0	Survey / DLS Computation: Minimum Curvature / Lubinski Vertical Section Azimuth: 176.543 ° (Grid North) Vertical Section Origin: 0.000 ft, 0.000 ft TVD Reference Datum: RKB=26.5' TVD Reference Elevation: 3570.100 ft above MSL Seabed / Ground Elevation: 3543.600 ft above MSL Magnetic Declination: 6.923 ° Total Gravity Field Strength: 998.4280mgn (9.80665 Based) Gravity Model: GARM Total Magnetic Field Strength: 48051.731 nT Magnetic Dip Angle: 59.980 ° Declination Date: January 30, 2018 Magnetic Declination Model: HDGM 2017 North Reference: Grid North Grid Convergence Used: 0.2863 ° Total Corr Mag North->Grid North: 6.6364 ° Local Coord Referenced To: Well Head
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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	446690.48	707361.40	N 32 13 36.80	W 103 47 47.14
	78.85	0.28	107.69	78.85	0.07	-0.06	0.18	0.36	446690.42	707361.58	N 32 13 36.80	W 103 47 47.14
	171.27	0.57	105.35	171.27	0.30	-0.25	0.84	0.31	446690.23	707362.24	N 32 13 36.79	W 103 47 47.13
	262.95	0.58	101.17	262.94	0.56	-0.46	1.74	0.05	446690.02	707363.14	N 32 13 36.79	W 103 47 47.12
	354.62	0.74	98.12	354.61	0.80	-0.63	2.78	0.18	446689.85	707364.18	N 32 13 36.79	W 103 47 47.11
	445.20	0.99	105.05	445.18	1.17	-0.92	4.11	0.30	446689.56	707365.51	N 32 13 36.79	W 103 47 47.10
	536.52	1.23	108.31	536.48	1.78	-1.43	5.81	0.27	446689.05	707367.20	N 32 13 36.78	W 103 47 47.08
	629.30	1.29	102.22	629.24	2.43	-1.97	7.77	0.16	446688.51	707369.17	N 32 13 36.78	W 103 47 47.05
	721.20	1.64	99.92	721.11	3.01	-2.41	10.08	0.39	446688.07	707371.48	N 32 13 36.77	W 103 47 47.03
	811.98	0.85	115.49	811.86	3.64	-2.92	11.97	0.94	446687.56	707373.36	N 32 13 36.77	W 103 47 47.00
	903.52	0.26	240.79	903.40	4.06	-3.32	12.40	1.12	446687.16	707373.80	N 32 13 36.76	W 103 47 47.00
	995.04	0.29	247.56	994.92	4.23	-3.51	12.00	0.05	446686.97	707373.40	N 32 13 36.76	W 103 47 47.00
	1087.38	0.29	267.82	1087.26	4.30	-3.61	11.55	0.11	446686.87	707372.95	N 32 13 36.76	W 103 47 47.01
	1179.38	0.29	282.14	1179.26	4.23	-3.57	11.09	0.08	446686.91	707372.49	N 32 13 36.76	W 103 47 47.01
	1273.99	0.26	288.70	1273.87	4.08	-3.45	10.65	0.05	446687.03	707372.05	N 32 13 36.76	W 103 47 47.02
	1368.50	0.25	306.29	1368.38	3.87	-3.26	10.29	0.08	446687.22	707371.68	N 32 13 36.76	W 103 47 47.02
	1463.08	0.22	316.97	1462.96	3.60	-3.00	9.99	0.06	446687.48	707371.39	N 32 13 36.77	W 103 47 47.03
	1557.67	0.07	313.36	1557.54	3.42	-2.83	9.83	0.16	446687.65	707371.23	N 32 13 36.77	W 103 47 47.03
	1652.36	0.04	273.25	1652.23	3.37	-2.79	9.75	0.05	446687.69	707371.15	N 32 13 36.77	W 103 47 47.03
	1747.04	0.11	220.24	1746.91	3.43	-2.85	9.66	0.10	446687.63	707371.06	N 32 13 36.77	W 103 47 47.03
	1841.72	0.14	217.07	1841.59	3.59	-3.02	9.53	0.03	446687.46	707370.93	N 32 13 36.77	W 103 47 47.03
	1936.49	0.16	223.77	1936.36	3.76	-3.20	9.37	0.03	446687.28	707370.77	N 32 13 36.76	W 103 47 47.03
	2031.24	0.17	211.20	2031.11	3.97	-3.42	9.21	0.04	446687.06	707370.61	N 32 13 36.76	W 103 47 47.04
	2125.91	0.22	224.07	2125.78	4.21	-3.67	9.01	0.07	446686.81	707370.41	N 32 13 36.76	W 103 47 47.04
	2220.76	0.21	229.50	2220.63	4.43	-3.91	8.75	0.02	446686.57	707370.15	N 32 13 36.76	W 103 47 47.04
	2315.40	0.23	249.72	2315.27	4.59	-4.09	8.44	0.08	446686.39	707369.84	N 32 13 36.76	W 103 47 47.05
	2409.99	0.06	116.50	2409.86	4.67	-4.18	8.31	0.29	446686.30	707369.71	N 32 13 36.76	W 103 47 47.05
	2504.74	0.10	119.43	2504.61	4.74	-4.24	8.42	0.04	446686.24	707369.82	N 32 13 36.75	W 103 47 47.05
	2599.42	0.11	118.01	2599.29	4.84	-4.33	8.57	0.01	446686.15	707369.97	N 32 13 36.75	W 103 47 47.04
	2694.13	0.14	120.25	2694.00	4.95	-4.43	8.76	0.03	446686.05	707370.15	N 32 13 36.75	W 103 47 47.04
	2788.84	0.19	114.71	2788.71	5.09	-4.55	9.00	0.06	446685.93	707370.40	N 32 13 36.75	W 103 47 47.04
	2883.43	0.17	104.08	2883.30	5.20	-4.65	9.28	0.04	446685.83	707370.88	N 32 13 36.75	W 103 47 47.04
	2978.23	0.25	150.21	2978.10	5.43	-4.87	9.52	0.19	446685.62	707370.91	N 32 13 36.75	W 103 47 47.03
	3073.06	0.24	130.61	3072.93	5.75	-5.17	9.77	0.09	446685.31	707371.17	N 32 13 36.75	W 103 47 47.03
	3167.51	0.37	72.22	3167.38	5.82	-5.21	10.21	0.34	446685.27	707371.61	N 32 13 36.75	W 103 47 47.03
	3262.27	0.37	72.33	3262.14	5.66	-5.02	10.79	0.00	446685.46	707372.19	N 32 13 36.75	W 103 47 47.02
	3357.10	0.34	79.24	3356.96	5.55	-4.88	11.36	0.06	446685.60	707372.76	N 32 13 36.75	W 103 47 47.01
	3451.81	0.33	67.52	3451.67	5.43	-4.72	11.89	0.07	446685.76	707373.29	N 32 13 36.75	W 103 47 47.01
	3546.66	0.36	353.01	3546.52	5.04	-4.32	12.10	0.44	446686.16	707373.50	N 32 13 36.75	W 103 47 47.00
	3641.32	0.35	341.06	3641.18	4.47	-3.75	11.97	0.08	446686.73	707373.37	N 32 13 36.76	W 103 47 47.00
	3735.94	0.28	25.50	3735.80	3.99	-3.27	11.98	0.26	446687.21	707373.38	N 32 13 36.76	W 103 47 47.00
	3830.54	0.31	307.63	3830.40	3.62	-2.91	11.88	0.39	446687.57	707373.28	N 32 13 36.77	W 103 47 47.01
	3925.18	0.13	10.55	3925.04	3.34	-2.64	11.69	0.29	446687.84	707373.09	N 32 13 36.77	W 103 47 47.01
	4019.76	0.21	224.62	4019.62	3.36	-2.66	11.59	0.34	446687.82	707372.99	N 32 13 36.77	W 103 47 47.01
	4114.36	0.34	253.79	4114.21	3.53	-2.86	11.20	0.20	446687.62	707372.60	N 32 13 36.77	W 103 47 47.01
	4209.06	0.25	299.84	4208.91	3.48	-2.84	10.75	0.26	446687.64	707372.15	N 32 13 36.77	W 103 47 47.02
	4303.91	0.28	318.41	4303.76	3.19	-2.56	10.42	0.10	446687.92	707371.82	N 32 13 36.77	W 103 47 47.02
	4398.57	0.17	271.52	4398.42	2.99	-2.39	10.12	0.22	446688.09	707371.52	N 32 13 36.77	W 103 47 47.03
	4493.28	0.19	262.47	4493.13	2.99	-2.40	9.83	0.04	446688.08	707371.23	N 32 13 36.77	W 103 47 47.03
	4587.81	0.22	204.40	4587.66	3.16	-2.59	9.60	0.21	446687.89	707371.00	N 32 13 36.77	W 103 47 47.03
	4682.29	0.20	245.63	4682.14	3.38	-2.82	9.37	0.16	446687.66	707370.77	N 32 13 36.77	W 103 47 47.03
	4776.82	0.25	224.26	4776.67	3.58	-3.04	9.08	0.10	446687.44	707370.48	N 32 13 36.77	W 103 47 47.04
	4870.91	0.21	250.80	4870.76	3.76	-3.24	8.77	0.12	446687.24	707370.17	N 32 13 36.76	W 103 47 47.04
	4965.73	0.20	242.34	4965.58	3.88	-3.38	8.46	0.03	446687.10	707369.88	N 32 13 36.76	W 103 47 47.05
	5060.37	0.20	229.92	5060.22	4.05	-3.56	8.19	0.05	446686.92	707369.59	N 32 13 36.76	W 103 47 47.05
	5154.80	0.22	210.24	5154.75	4.30	-3.82	7.97	0.08	446686.66	707369.37	N 32 13 36.76	W 103 47 47.05
	5249.49	0.22	204.88	5249.34	4.61	-4.14	7.80	0.02	446686.34	707369.20	N 32 13 36.76	W 103 47 47.05
	5344.28	0.23	217.03	5344.13	4.91	-4.46	7.61	0.05	446686.02	707369.01	N 32 13 36.75	W 103 47 47.06
	5439.02	0.25	103.52	5438.87	5.12	-4.66	7.70	0.42	446685.82	707369.10	N 32 13 36.75	W 103 47 47.05
	5533.76	0.23	104.47	5533.60	5.24	-4.76	8.08	0.02	446685.72	707369.48	N 32 13 36.75	W 103 47 47.05
	5628.34	0.23	103.17	5628.18	5.35	-4.85	8.45	0.01	446685.63	707369.85	N 32 13 36.75	W 103 47 47.05
	5723.01	0.23	94.56	5722.85	5.43	-4.91	8.83	0.04	446685.57	707370.23	N 32 13 36.75	W 103 47 47.04
	5817.77	0.23	88.54	5817.61	5.46	-4.92	9.21	0.03	446685.56	707370.61	N 32 13 36.75	W 103 47 47.04
	5912.55	0.23	109.25	5912.39	5.54	-4.97	9.58	0.09	446685.51	707370.98	N 32 13 36.75	W 103 47 47.03
	6007.25	0.21	96.74	6007.09	5.65	-5.06	9.93	0.05	446685.42	707371.33	N 32 13 36.75	W 103 47 47.03
	6101.96	0.22	76.65	6101.80	5.65	-5.04	10.28	0.08	446685.44	707371.68	N 32 13 36.75	W 103 47 47.02
	6196.69	2.01	158.98	6196.51	7.20	-6.54	11.05	2.10	446683.94	707372.45	N 32 13 36.73	W 103 47 47.02
	6291.45	4.30	185.06	6291.12	12.27	-11.53	12.56	2.44	446678.95	707373.96	N 32 13 36.68	W 103 47 47.00
	6386.25	6.92	170.74	6386.16	21.43	-20.60	14.40	2.82	446669.88	707375.80	N 32 13 36.59	W 103 47 46.98
	6480.90	9.42	172.42	6479.14	34.83	-33.91	16.34	2.65	446656.57	707377.74	N 32 13 36.46	W 103 47 46.96
	6575.64	10.77	169.56	6572.41	51.35	-50.30	18.97	1.52	446640.18	707380.36	N 32 13 36.30	W 103 47 46.93
	6670.37	10.88	170.62	6665.46	69.03	-67.83	22.03	0.24	446622.66	707383.42	N 32 13 36.12	W 103 47 46.89
	6764.99	10.98	162.43	6758.37	86.65	-85.23	26.20	1.64	446605.26	707387.60	N 32 13 35.95	W 103 47 46.84
	6859.72	10.95	148.61	6851.38	103.35	-101.51	33.61	2.77	446588.98	707395.01	N 32 13 35.79	W 103 47 46.76
	6954.40	11.08	137.17	6944.33	118.33	-115.86	44.48	2.31	446574.63	707405.88	N 32 13 35.65	W 103 47 46.63
	7049.14	10.99	128.52	7037.32	131.41	-128.1						

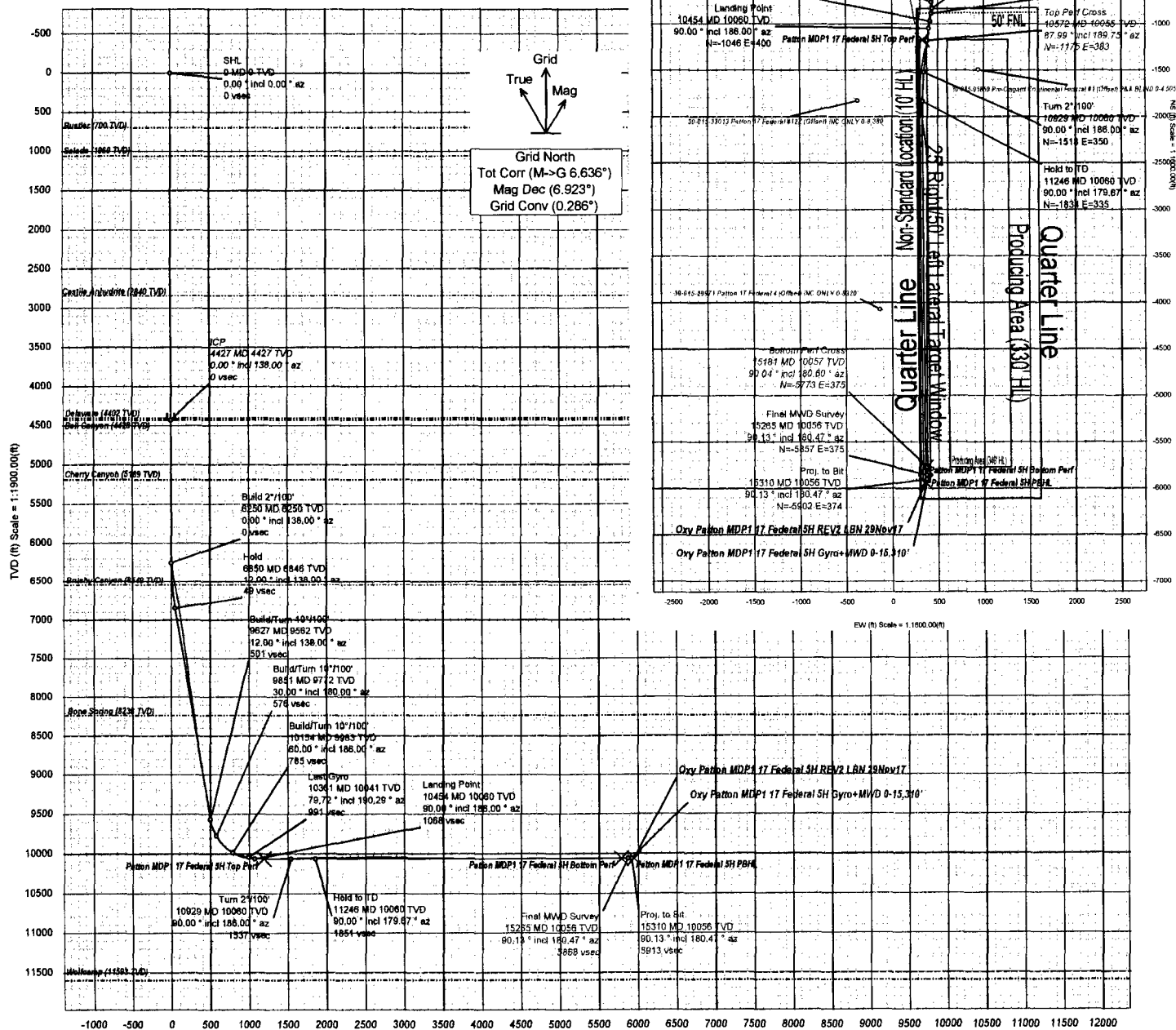
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ° ')	Longitude (E/W ° ° ')
	7332.99	10.77	130.93	7316.07	167.70	-161.98	98.72	0.45	446528.51	707481.11	N 32 13 35.19 W 103 47 45.99	
	7427.89	10.77	131.32	7409.18	180.02	-173.53	112.94	0.22	446516.96	707474.34	N 32 13 35.07 W 103 47 45.84	
	7522.40	10.81	132.39	7502.14	192.50	-185.24	126.01	0.33	446505.26	707487.40	N 32 13 34.96 W 103 47 45.69	
	7617.18	10.34	134.79	7595.31	205.22	-197.22	138.61	0.68	446493.27	707500.01	N 32 13 34.84 W 103 47 45.54	
	7711.82	10.82	133.36	7688.34	218.03	-209.30	151.10	0.58	446481.19	707512.49	N 32 13 34.72 W 103 47 45.40	
	7806.56	10.45	135.04	7781.45	230.95	-221.49	163.64	0.51	446469.00	707525.03	N 32 13 34.60 W 103 47 45.25	
	7901.21	10.54	135.00	7874.52	243.86	-233.68	175.82	0.10	446456.81	707537.21	N 32 13 34.48 W 103 47 45.11	
	7995.89	10.39	135.70	7967.62	256.80	-245.92	187.91	0.21	446444.58	707549.30	N 32 13 34.35 W 103 47 44.97	
	8090.51	10.55	134.24	8060.67	269.66	-258.07	200.07	0.33	446432.43	707561.46	N 32 13 34.23 W 103 47 44.83	
	8185.14	10.51	134.14	8153.70	282.44	-270.12	212.47	0.05	446420.37	707573.86	N 32 13 34.11 W 103 47 44.69	
	8279.72	10.38	136.06	8246.72	295.29	-282.26	224.58	0.39	446408.23	707585.96	N 32 13 33.99 W 103 47 44.55	
	8374.34	10.59	135.15	8339.76	308.30	-294.57	236.62	0.28	446395.93	707598.01	N 32 13 33.87 W 103 47 44.41	
	8468.95	10.33	135.12	8432.79	321.18	-306.74	248.74	0.27	446383.76	707610.13	N 32 13 33.75 W 103 47 44.27	
	8563.27	11.01	137.50	8525.48	334.52	-319.37	260.79	0.86	446371.13	707622.18	N 32 13 33.62 W 103 47 44.13	
	8657.95	11.06	137.40	8618.41	348.58	-332.72	273.05	0.36	446357.78	707634.43	N 32 13 33.49 W 103 47 43.98	
	8752.55	11.42	137.61	8711.20	362.91	-346.32	285.50	0.08	446344.18	707646.89	N 32 13 33.36 W 103 47 43.84	
	8847.13	11.10	135.74	8803.96	377.08	-359.76	298.17	0.51	446330.75	707659.55	N 32 13 33.22 W 103 47 43.69	
	8941.89	11.94	134.67	8896.81	391.29	-373.18	311.51	0.91	446317.32	707672.89	N 32 13 33.09 W 103 47 43.54	
	9036.53	11.28	135.29	8989.51	405.54	-386.64	324.98	0.71	446303.86	707686.36	N 32 13 32.96 W 103 47 43.38	
	9131.25	11.80	135.69	9082.32	419.83	-400.16	338.26	0.56	446290.35	707699.64	N 32 13 32.82 W 103 47 43.23	
	9225.80	11.57	135.28	9175.00	434.28	-413.82	351.70	0.26	446276.88	707713.08	N 32 13 32.68 W 103 47 43.07	
	9320.52	11.94	134.24	9267.64	448.65	-427.40	365.39	0.45	446263.11	707726.77	N 32 13 32.55 W 103 47 42.92	
	9415.11	11.79	134.04	9360.21	463.01	-440.94	379.35	0.16	446249.57	707740.73	N 32 13 32.42 W 103 47 42.76	
	9509.72	11.76	140.42	9452.83	477.93	-455.09	392.44	1.38	446235.42	707753.82	N 32 13 32.27 W 103 47 42.60	
	9604.34	12.15	141.98	9545.40	493.92	-470.37	404.72	0.54	446220.14	707766.09	N 32 13 32.12 W 103 47 42.46	
	9699.04	21.43	162.28	9638.04	518.97	-494.77	416.16	11.45	446195.74	707777.53	N 32 13 31.88 W 103 47 42.33	
	9793.83	27.89	160.50	9721.96	557.02	-532.12	428.81	6.87	446158.39	707790.19	N 32 13 31.51 W 103 47 42.18	
	9888.24	32.86	172.82	9803.83	603.96	-578.51	439.51	8.32	446112.00	707802.89	N 32 13 31.05 W 103 47 42.06	
	9982.35	41.56	177.45	9878.53	660.77	-635.14	444.19	9.75	446055.38	707805.57	N 32 13 30.49 W 103 47 42.01	
	10077.03	55.03	178.56	9941.37	731.26	-705.62	446.58	14.25	445984.90	707807.95	N 32 13 29.79 W 103 47 41.99	
Last Gyro	10171.67	67.03	186.30	9987.18	813.35	-788.08	442.75	14.55	445902.44	707804.12	N 32 13 28.98 W 103 47 42.04	
	10361.03	79.72	190.29	10041.27	990.54	-967.19	415.43	7.00	445723.35	707777.80	N 32 13 27.21 W 103 47 42.35	
	10423.00	87.01	189.20	10048.42	1050.43	-1027.82	406.02	11.89	445662.73	707767.39	N 32 13 26.81 W 103 47 42.48	
	10483.00	87.59	188.50	10051.25	1108.99	-1087.04	396.80	1.51	445603.51	707758.17	N 32 13 26.02 W 103 47 42.59	
	10568.00	87.92	189.66	10054.58	1191.90	-1170.81	383.40	1.42	445519.65	707744.77	N 32 13 25.19 W 103 47 42.75	
	10663.00	89.65	191.79	10056.59	1283.97	-1264.22	365.72	2.89	445426.34	707727.10	N 32 13 24.27 W 103 47 42.96	
	10758.00	90.75	191.50	10056.26	1375.69	-1357.26	346.55	1.20	445333.30	707707.92	N 32 13 23.35 W 103 47 43.19	
	10852.00	90.71	189.65	10055.06	1466.87	-1449.85	329.30	1.97	445240.92	707690.88	N 32 13 22.44 W 103 47 43.39	
	11041.00	91.26	183.73	10051.81	1652.80	-1637.25	307.29	3.15	445053.33	707668.87	N 32 13 20.58 W 103 47 43.66	
	11135.00	90.95	179.13	10050.00	1746.42	-1731.16	304.95	4.90	444959.41	707666.33	N 32 13 19.65 W 103 47 43.69	
	11230.00	90.75	174.46	10048.59	1841.38	-1825.99	310.26	4.92	444864.60	707671.64	N 32 13 18.71 W 103 47 43.64	
	11324.00	90.61	171.26	10047.47	1935.17	-1919.25	321.94	3.41	444771.35	707683.32	N 32 13 17.79 W 103 47 43.51	
	11419.00	90.85	171.40	10046.26	2029.77	-2013.15	336.26	0.29	444677.45	707697.64	N 32 13 16.86 W 103 47 43.35	
	11513.00	90.61	173.68	10045.06	2123.52	-2106.34	348.46	2.44	444584.27	707709.84	N 32 13 15.94 W 103 47 43.21	
	11636.00	90.68	173.35	10043.68	2246.34	-2228.55	362.35	0.27	444462.07	707723.73	N 32 13 14.73 W 103 47 43.06	
	11703.00	90.64	174.00	10042.91	2313.26	-2295.14	369.73	0.97	444395.48	707731.11	N 32 13 14.07 W 103 47 42.97	
	11797.00	90.61	177.21	10041.88	2407.23	-2388.84	376.93	3.41	444301.78	707738.31	N 32 13 13.14 W 103 47 42.90	
	11892.00	91.23	178.87	10040.36	2502.18	-2483.77	380.18	1.87	444206.86	707741.56	N 32 13 12.20 W 103 47 42.86	
	11987.00	89.78	180.01	10039.52	2597.05	-2578.76	381.11	1.94	444111.88	707742.49	N 32 13 11.26 W 103 47 42.86	
	12081.00	89.03	179.93	10040.50	2690.87	-2672.75	381.16	0.80	444017.89	707742.54	N 32 13 10.33 W 103 47 42.86	
	12176.00	89.10	179.81	10042.05	2785.70	-2767.74	381.38	0.15	443922.91	707742.75	N 32 13 9.39 W 103 47 42.87	
	12270.00	89.06	179.92	10043.56	2879.53	-2861.73	381.60	0.12	443828.93	707742.97	N 32 13 8.46 W 103 47 42.87	
	12364.00	89.03	179.89	10045.12	2973.36	-2955.71	381.75	0.05	443734.95	707743.13	N 32 13 7.53 W 103 47 42.87	
	12458.00	88.92	180.13	10046.80	3067.17	-3049.70	381.74	0.28	443640.97	707743.11	N 32 13 6.60 W 103 47 42.88	
	12552.00	88.79	180.08	10048.68	3160.97	-3143.68	381.58	0.15	443546.99	707742.94	N 32 13 5.67 W 103 47 42.89	
	12646.00	89.20	180.39	10050.33	3254.76	-3237.66	381.18	0.55	443453.01	707742.56	N 32 13 4.74 W 103 47 42.90	
	12741.00	89.16	180.45	10051.69	3348.53	-3332.65	380.48	0.08	443358.03	707741.86	N 32 13 3.80 W 103 47 42.91	
	12835.00	89.16	180.68	10053.07	3442.29	-3426.64	379.56	0.24	443264.05	707740.93	N 32 13 2.87 W 103 47 42.93	
	12929.00	89.75	180.49	10053.96	3537.05	-3520.83	378.60	0.66	443170.07	707739.97	N 32 13 1.94 W 103 47 42.94	
	13023.00	88.92	180.14	10055.05	3630.84	-3614.62	378.08	0.96	443076.08	707739.46	N 32 13 1.01 W 103 47 42.95	
	13117.00	89.20	180.60	10056.14	3724.63	-3708.59	376.86	0.29	442982.12	707738.24	N 32 13 0.09 W 103 47 42.98	
	13211.00	89.58	180.42	10059.15	3818.40	-3802.59	376.02	0.44	442888.12	707737.40	N 32 13 58.21 W 103 47 42.99	
	13306.00	89.75	180.55	10060.25	3912.16	-3897.58	374.43	0.11	442793.14	707737.40	N 32 13 58.21 W 103 47 42.99	
	13494.00	89.75	180.55	10060.25	4005.91	-4085.57	374.43	0.11	442695.16	707735.81	N 32 13 56.35 W 103 47 43.02	
	13588.00	90.27	179.84	10060.23	4194.52	-4179.57	374.11	0.94	442511.17	707735.49	N 32 13 55.42 W 103 47 43.03	
	13682.00	90.16	179.59	10059.88	4382.38	-4273.57	374.58	0.29	442417.18	707735.95	N 32 13 54.49 W 103 47 43.03	
	13776.00	89.99	180.19	10059.76	4570.22	-4367.57	374.76	0.66	442323.18	707736.13	N 32 13 53.56 W 103 47 43.04	
	13870.00	90.13	180.65	10059.66	4758.06	-4461.56	374.07	0.51	442229.19	707735.44	N 32 13 52.63 W 103 47 43.05	
	13964.00	90.51	179.26	10059.13	4945.90	-4555.56	374.14	1.53	442135.20	707735.52	N 32 13 51.70 W 103 47 43.05	
	14058.00	89.72	179.29	10058.94	5133.74	-4649.55	375.33	0.84	442041.21	707736.71	N 32 13 50.77 W 103 47 43.05	
	14152.00	90.13	180.03	10059.07	5321.58	-4743.55	375.89	0.90	441947.22	707737.27	N 32 13 49.84 W 103 47 43.05	
	14246.00	90.10	180.14	10058.88	5509.42	-4837.55	375.75	0.12	441853.23	707737.13	N 32 13 48.91 W 103 47 43.05	
	14340.00	90.27	180.57	10058.57	5697.26	-4931.54	375.17	0.49	441759.24	707736.54	N 32 13 47.98 W 103 47 43.06	
	14435.00	90.10	179.31	10058.27	5885.10	-5025.54	375.27	1.34	441664.25	707736.64	N 32 13 47.04 W 103 47 43.07	
	14539.00	90.23	179.40	10057.97	6072.94	-5119.54	376.44	1.15	441569.26	707737.81	N 32 13 46.01 W 103 47 43.06	
	14633.00	90.06	179.69	10057.76	6260.78	-5213.53	377.10	0.40				

Schlumberger

OXY



Borehole:	Well:	Field:	Structure:
Original Borehole	Oxy Patton MDP1 17 Federal 5H	NM Eddy County (NAD 83)	Oxy Patton MDP1 17 Federal 5H
Gravity & Magnetic Parameters			
Model: HDGM 2017	Dip: 59.98°	Date: 30-Jan-2018	Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet
MagDec: 6.923°	FS: 49081.731nT	Gravity FS: 988.428mg (9.80885 Based)	Lat: N 32 13 36.80 Northing: 446890.48RUS Grid Conv: 0.2863°
			Lon: W 103 47 47.14 Easting: 707361.4RUS Scale Fact: 0.99994066
Miscellaneous			
			Stot: Oxy Patton MDP1 17 Federal 5H TVD Ref: RKB=26.5'(3570.1ft above MSL)
			Plan: Oxy Patton MDP1 17 Federal 5H REV2 LBN 29Nov17



Vertical Section (ft) Azim = 176.54° Scale = 1:1900.00(ft) Origin = 0N-S, 0E-W