

30-015-44510

Schumberger

Oxy Corral Fly 02-01 State 24H Gyro+MWD 0-18,922' Survey Geodetic Report (Def Survey)



Report Date February 19 2018 09 07 AM
 Client OXY
 Field NM Eddy County (NAD 83)
 Structure / Slot: Oxy Corral Fly 02-01 State 24H / Oxy Corral Fly 02 01 State 24H
 Well Oxy Corral Fly 02 01 State 24H
 Borehole Original Borehole
 UWI / API# Unknown / Unknown
 Survey Name Oxy Corral Fly 02 01 State 24H Gyro+MWD 0-18 922
 Survey Date January 31 2018
 Tort / AHD / DDI / ERD Ratio 251 966 / 11370 112 ft / 6 777 / 1.254
 Coordinate Reference System NAD83 New Mexico State Plane Eastern Zone US Feet
 Location Lat / Long N 32° 9' 19.69604 W 103° 57' 44.53203
 Location Grid N/E Y/X N 420493 450 RUS E 656137 590 RUS
 CRS Grid Convergence Angle 0 1974
 Grid Scale Factor 0.99992419
 Version / Patch 2 10 706 0

Survey / DLS Computation Minimum Curvature / Lubinski
 Vertical Section Azimuth 84 026 (Grid North)
 Vertical Section Origin 0 000 ft 0 000 ft
 TVD Reference Datum RKB=26 5
 TVD Reference Elevation 3052 900 ft above MSL
 Seabed / Ground Elevation 3026 400 ft above MSL
 Magnetic Declination 7 031
 Total Gravity Field Strength 998 4552mgn (9 80665 Based)
 Gravity Model GARM
 Total Magnetic Field Strength 48025 132 nT
 Magnetic Dip Angle 59 924
 Declination Date January 31 2018
 Magnetic Declination Model HDGM 2017
 North Reference Grid North
 Grid Convergence Used 0 1974
 Total Corr Mag North->Grid 6 8333
 North Well Head
 Local Coord Referenced To

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 16 2018

RECEIVED

Comments	MD (ft)	Incl (°)	Azim Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S)	Longitude (E/W)
SHL	0 00	0 00	0 00	0 00	0 00	0 00	0 00	N/A	420493 45	656137 59	N 32° 9' 19.70	W 103° 57' 44.53
	100 74	0 66	181 09	100 74	-0 07	-0 58	-0 01	0 66	420492 87	656137 58	N 32° 9' 19.69	W 103° 57' 44.53
	189 42	1 17	179 16	189 41	-0 22	-2 00	-0 01	0 58	420491 45	656137 58	N 32° 9' 19.68	W 103° 57' 44.53
	278 24	1 59	203 19	278 20	-0 90	-4 04	-0 48	0 80	420489 41	656137 11	N 32° 9' 19.66	W 103° 57' 44.54
Last Gyro	369 65	2 60	219 46	369 55	2 99	-6 80	2 30	0 27	420486 65	656135 29	N 32° 9' 19.63	W 103° 57' 44.56
	512 00	2 70	223 20	511 75	7 83	11 74	-6 84	0 14	420481 71	656130 95	N 32° 9' 19.58	W 103° 57' 44.61
	607 00	2 11	229 36	606 66	10 96	14 51	9 50	0 68	420478 94	656128 09	N 32° 9' 19.55	W 103° 57' 44.64
	702 00	1 05	222 48	701 63	13 05	18 29	11 42	1 13	420477 16	656126 17	N 32° 9' 19.54	W 103° 57' 44.67
	797 00	0 23	150 80	796 62	13 63	17 10	11 91	1 05	420476 35	656125 68	N 32° 9' 19.53	W 103° 57' 44.67
	892 00	0 55	103 58	891 62	13 12	17 37	11 38	0 45	420476 08	656126 21	N 32° 9' 19.52	W 103° 57' 44.67
	987 00	0 48	78 20	986 61	12 30	17 40	10 54	0 25	420476 05	656127 05	N 32° 9' 19.52	W 103° 57' 44.66
	1082 00	0 78	2 89	1081 61	11 80	16 67	10 12	0 85	420476 78	656127 47	N 32° 9' 19.53	W 103° 57' 44.66
	1177 00	1 46	3 16	1176 59	11 51	14 82	10 02	0 72	420478 63	656127 57	N 32° 9' 19.55	W 103° 57' 44.65
	1272 00	1 85	7 42	1271 55	10 96	12 09	9 76	0 43	420481 36	656127 83	N 32° 9' 19.58	W 103° 57' 44.65
	1386 00	2 97	358 82	1385 45	10 29	7 31	9 58	1 03	420486 14	656126 01	N 32° 9' 19.62	W 103° 57' 44.64
	1480 00	3 85	5 13	1479 29	9 51	1 89	9 36	0 82	420491 56	656128 23	N 32° 9' 19.68	W 103° 57' 44.64
	1575 00	4 08	6 78	1574 08	-8 18	4 47	-6 69	0 47	420497 92	656128 90	N 32° 9' 19.74	W 103° 57' 44.63
	1765 00	4 70	349 12	1763 53	7 35	18 83	9 36	0 78	420512 28	656128 23	N 32° 9' 19.88	W 103° 57' 44.64
	1860 00	4 30	342 60	1858 23	8 39	26 05	11 16	0 68	420519 50	656126 43	N 32° 9' 19.95	W 103° 57' 44.66
	1931 00	4 01	341 36	1929 05	9 46	30 94	12 75	0 43	420524 39	656124 84	N 32° 9' 20.00	W 103° 57' 44.68
	2025 00	3 81	342 73	2022 83	10 80	37 04	14 73	0 23	420530 49	656122 86	N 32° 9' 20.06	W 103° 57' 44.70
	2120 00	3 71	340 06	2117 62	12 16	42 94	16 72	0 21	420536 39	656120 87	N 32° 9' 20.12	W 103° 57' 44.72
	2215 00	3 85	339 37	2212 42	13 71	48 82	18 89	0 15	420542 26	656118 70	N 32° 9' 20.18	W 103° 57' 44.75
	2310 00	4 30	337 13	2307 18	15 55	55 08	21 40	0 50	420548 53	656116 20	N 32° 9' 20.24	W 103° 57' 44.78
	2405 00	3 39	343 31	2401 96	17 11	61 06	23 59	1 05	420554 50	656114 00	N 32° 9' 20.30	W 103° 57' 44.80
	2500 00	2 96	13 26	2496 82	16 82	66 13	23 83	1 78	420559 58	656113 76	N 32° 9' 20.35	W 103° 57' 44.81
	2595 00	4 08	38 99	2591 65	13 62	71 15	21 14	2 01	420564 59	656116 45	N 32° 9' 20.40	W 103° 57' 44.78
	2689 00	5 03	47 07	2685 35	7 97	76 55	16 02	1 22	420570 00	656121 57	N 32° 9' 20.45	W 103° 57' 44.72
	2784 00	5 00	59 78	2779 99	-0 86	81 47	9 39	1 17	420574 92	656128 20	N 32° 9' 20.50	W 103° 57' 44.64
	2903 00	4 16	62 72	2898 61	7 89	86 06	1 08	0 73	420579 51	656136 51	N 32° 9' 20.55	W 103° 57' 44.54
	2973 00	3 54	57 06	2968 45	12 18	88 40	2 99	1 04	420581 85	656140 58	N 32° 9' 20.57	W 103° 57' 44.49
	3068 00	2 47	31 04	3063 32	16 02	91 75	6 51	1 80	420585 19	656144 10	N 32° 9' 20.60	W 103° 57' 44.45
	3163 00	2 28	6 38	3158 24	17 66	95 38	7 78	1 09	420588 83	656145 37	N 32° 9' 20.64	W 103° 57' 44.44
	3258 00	3 23	340 86	3253 14	17 46	99 79	7 11	1 61	420593 23	656144 70	N 32° 9' 20.68	W 103° 57' 44.45
	3353 00	4 28	334 22	3347 93	15 64	105 51	4 69	1 19	420598 95	656142 28	N 32° 9' 20.74	W 103° 57' 44.47
	3448 00	5 37	328 49	3442 59	12 53	112 49	0 82	1 25	420605 93	656138 41	N 32° 9' 20.81	W 103° 57' 44.52
	3543 00	6 67	331 51	3537 07	8 50	121 13	-4 13	1 41	420614 57	656133 46	N 32° 9' 20.89	W 103° 57' 44.58
	3638 00	7 27	333 02	3631 37	4 23	131 34	9 49	0 66	420624 78	656128 10	N 32° 9' 21.00	W 103° 57' 44.64
	3733 00	8 13	333 51	3725 51	-0 28	142 71	15 21	0 91	420636 15	656122 38	N 32° 9' 21.11	W 103° 57' 44.70
	3828 00	9 19	335 19	3819 42	5 08	155 61	21 39	1 15	420649 04	656118 20	N 32° 9' 21.24	W 103° 57' 44.77
	4018 00	10 29	334 09	4006 68	15 77	184 64	35 18	0 59	420678 08	656102 42	N 32° 9' 21.52	W 103° 57' 44.93
	4113 00	10 15	333 25	4100 18	21 63	199 75	-42 65	0 22	420693 18	656094 94	N 32° 9' 21.67	W 103° 57' 45.02
	4207 00	10 95	333 12	4192 59	27 75	215 11	50 41	0 85	420708 54	656087 18	N 32° 9' 21.83	W 103° 57' 45.11
	4302 00	11 78	333 18	4285 72	-34 43	231 81	58 87	0 87	420725 24	656078 72	N 32° 9' 21.99	W 103° 57' 45.21
	4397 00	12 80	333 72	4378 54	-41 53	249 90	-67 80	1 08	420743 33	656069 89	N 32° 9' 22.17	W 103° 57' 45.31
	4492 00	13 59	334 39	4471 04	-48 93	269 40	77 39	0 85	420762 83	656060 21	N 32° 9' 22.36	W 103° 57' 45.42
	4587 00	14 24	333 44	4563 25	-56 79	289 92	-87 44	0 73	420783 35	656050 16	N 32° 9' 22.57	W 103° 57' 45.54
	4682 00	13 95	333 19	4655 39	-64 97	310 59	97 83	0 31	420804 02	656039 77	N 32° 9' 22.77	W 103° 57' 45.66
	4776 00	13 54	333 39	4746 69	-72 68	330 54	107 87	0 44	420823 97	656029 73	N 32° 9' 22.97	W 103° 57' 45.77
	4871 00	14 06	333 23	4838 95	-80 90	350 79	118 04	0 55	420844 21	656019 55	N 32° 9' 23.17	W 103° 57' 45.89
	4966 00	14 16	333 75	4931 09	-89 02	371 51	128 38	0 17	420864 93	656009 22	N 32° 9' 23.38	W 103° 57' 46.01
	5061 00	14 49	333 38	5023 13	97 24	392 58	138 85	0 36	420885 98	655998 75	N 32° 9' 23.59	W 103° 57' 46.13
	5250 00	14 23	334 12	5206 23	113 49	434 60	159 58	0 17	420928 01	655978 02	N 32° 9' 24.00	W 103° 57' 46.37
	5441 00	13 78	333 10	5391 55	129 80	476 00	180 12	0 27	420969 42	655957 48	N 32° 9' 24.41	W 103° 57' 46.61
	5535 00	14 29	333 48	5482 74	137 67	496 37	190 36	0 55	420989 78	655947 24	N 32° 9' 24.61	W 103° 57' 46.73
	5630 00	13 67	332 83	5574 93	145 85	516 85	200 73	0 67	421010 26	655936 88	N 32° 9' 24.82	W 103° 57' 46.85
	5725 00	13 47	333 43	5667 28	153 80	536 73	210 80	0 26	421030 14	655926 81	N 32° 9' 25.01	W 103° 57' 46.96
	5915 00	13 89	336 11	5851 89	168 60	577 37	229 93	0 40	421070 78	655907 67	N 32° 9' 25.42	W 103° 57' 47.18
	6010 00	13 91	334 68	5944 11	175 89	598 12	239 44	0 36	421091 53	655898 17	N 32° 9' 25.62	W 103° 57' 47.29
	6105 00	13 90	335 44	6036 32	183 31	618 82	249 06	0 19	421112 22	655888 55	N 32° 9' 25.83	W 103° 57' 47.40
	6295 00	13 98	335 93	6220 73	197 71	660 53	267 91	0 08	421153 93	655869 70	N 32° 9' 26.24	W 103° 57' 47.62
	6390 00	13 97	336 92	6312 91	204 65	681 58	277 08	0 25	421174 96	655860 53	N 32° 9' 26.45	W 103° 57' 47.73
	6579 00	13 54	340 11	6496 50	216 68	723 35	293 56	0 46	421216 75	655844 06	N 32° 9' 26.86	W 103° 57' 47.92
	6674 00	13 94	342 03	6588 78	221 74	744 70	-300 87	0 64	421238 09	655836 74	N 32° 9' 27.08	W 103° 57' 48.00
	6769 00	13 31	343 68	6681 11	226 08	766 08	-307 47	0 78	421259 47	655830 14	N 32° 9' 27.29	W 103° 57' 48.08
	6960 00	12 15	343 37	6867 41	233 74	806 44	-319 40	0 61	421299 82	655818 21	N 32° 9' 27.69	W 103° 57' 48.22
	7054 00	12 09	339 53	6959 31	238 04	825 14	-325 68	0 88	421318 52	655811 94	N 32° 9' 27.87	W 103° 57' 48.29
	7149 00	9 71	327 35	7052 61	244 13	841 21	-333 48	3 47	421334 59	655804 14	N 32° 9' 28.03	W 103° 57' 48.38
	7244 00	7 24	322 91	7146 56	250 82	852 73	-341 41	2 69	421346 11	655796 20	N 32° 9' 28.15	W 103° 57' 48.47
	7307 00	6 35	330 52	7209 12	254 26	858 93	-345 52	2 01	421352 31	655792 09	N 32° 9' 28.21	W 103° 57' 48.52
	7339 00	6 17	338 96	7240 93	255 41	862 08	-347 01	2 93	421355 46	655790 61	N 32° 9' 28.24	W 103° 57' 48.53
	7433 00	5 12	0 78	7334 48	256 23	870 99	-348 77	2 52	421364 37	655788 85	N 32° 9' 28.33	W 103° 57' 48.55
	7528 00	4 68	18 49									

Comments	MD	Incl	Azim Grd	TVD	VSEC	NS	EW	DLS	Northing	Eastng	Latitude	Longitude
	8098.00	8.5	70.1	7098.00	211.86	912.43	314.36	1.43	421406.21	65523.23	N 32° 28' 27" W 103° 57' 48.15"	
	8193.00	7.96	70.66	8091.12	201.66	915.43	301.63	1.39	421413.06	65523.23	N 32° 28' 27" W 103° 57' 48.15"	
	8301.00	7.80	70.66	8091.12	191.00	919.07	298.22	1.39	421413.06	65549.20	N 32° 28' 27" W 103° 57' 48.15"	
	8501.00	21.06	73.62	8391.36	142.03	919.07	240.42	0.23	421426.11	65549.20	N 32° 28' 27" W 103° 57' 48.15"	
	8599.00	36.84	69.53	8476.95	96.24	948.50	196.02	16.08	421426.11	65594.15	N 32° 28' 27" W 103° 57' 48.15"	
	8694.00	40.49	71.49	8551.22	38.79	968.67	140.36	4.48	421462.05	65597.24	N 32° 28' 27" W 103° 57' 48.15"	
	8789.00	37.57	82.89	8625.11	20.36	982.07	92.22	8.95	421475.44	65605.31	N 32° 28' 27" W 103° 57' 48.15"	
	8884.00	46.03	83.50	8695.89	83.50	988.05	19.29	10.66	421475.44	65611.37	N 32° 28' 27" W 103° 57' 48.15"	
	8979.00	68.40	90.31	8755.50	156.93	988.22	54.59	13.05	421475.44	65617.18	N 32° 28' 27" W 103° 57' 48.15"	
	9073.00	68.40	90.31	8755.50	239.47	985.77	137.63	10.66	421475.44	65627.21	N 32° 28' 27" W 103° 57' 48.15"	
	9168.00	84.12	88.64	8821.67	331.09	987.09	229.61	16.69	421480.46	65637.18	N 32° 28' 27" W 103° 57' 48.15"	
	9222.00	84.28	88.64	8821.67	331.09	988.00	283.31	1.01	421484.97	65640.88	N 32° 28' 27" W 103° 57' 48.15"	
	9301.00	83.83	87.00	8835.31	463.05	991.56	361.92	1.57	421484.97	65649.39	N 32° 28' 27" W 103° 57' 48.15"	
	9396.00	82.41	87.00	8835.31	556.23	996.16	455.03	1.14	421484.97	65659.52	N 32° 28' 27" W 103° 57' 48.15"	
	9488.00	81.86	86.54	8859.33	648.13	999.43	547.09	1.38	421484.97	65664.64	N 32° 28' 27" W 103° 57' 48.15"	
	9581.00	81.86	86.54	8859.33	739.67	999.43	639.14	3.26	421484.97	65677.68	N 32° 28' 27" W 103° 57' 48.15"	
	9675.00	83.86	92.69	8864.38	831.98	995.83	732.32	2.23	421484.97	65686.85	N 32° 28' 27" W 103° 57' 48.15"	
	9769.00	86.59	94.30	8892.28	923.37	990.18	824.80	3.59	421484.97	65696.32	N 32° 28' 27" W 103° 57' 48.15"	
	9861.00	88.38	94.41	8896.36	1014.77	983.12	917.44	1.93	421484.97	65705.94	N 32° 28' 27" W 103° 57' 48.15"	
	9954.00	89.07	94.26	8898.43	1106.24	976.09	1010.15	0.76	421484.97	65714.66	N 32° 28' 27" W 103° 57' 48.15"	
	10048.00	89.07	92.13	8899.86	1199.03	970.86	1103.98	2.27	421484.97	65724.49	N 32° 28' 27" W 103° 57' 48.15"	
	10141.00	89.10	91.01	8902.19	1261.19	968.31	1186.82	1.54	421484.97	65734.42	N 32° 28' 27" W 103° 57' 48.15"	
	10234.00	89.28	91.65	8904.25	1363.41	966.15	1269.87	1.37	421484.97	65742.36	N 32° 28' 27" W 103° 57' 48.15"	
	10328.00	89.28	91.65	8904.25	1476.60	963.63	1383.83	0.24	421484.97	65752.31	N 32° 28' 27" W 103° 57' 48.15"	
	10421.00	89.21	91.43	8906.66	1568.82	961.32	1476.79	0.08	421484.97	65761.27	N 32° 28' 27" W 103° 57' 48.15"	
	10514.00	89.10	91.43	8906.66	1661.04	959.05	1569.75	0.13	421484.97	65770.22	N 32° 28' 27" W 103° 57' 48.15"	
	10607.00	89.00	91.21	8909.57	1753.28	956.95	1662.72	0.20	421484.97	65780.18	N 32° 28' 27" W 103° 57' 48.15"	
	10702.00	89.14	91.23	8911.11	1847.52	954.93	1757.68	0.15	421484.97	65790.12	N 32° 28' 27" W 103° 57' 48.15"	
	10797.00	89.38	89.30	8912.34	1941.94	954.49	1852.67	2.05	421484.97	65800.10	N 32° 28' 27" W 103° 57' 48.15"	
	10892.00	88.90	89.37	8913.40	2038.53	955.60	1947.66	0.47	421484.97	65810.07	N 32° 28' 27" W 103° 57' 48.15"	
	10987.00	88.80	89.46	8914.86	2131.10	956.57	2042.84	0.79	421484.97	65820.03	N 32° 28' 27" W 103° 57' 48.15"	
	11082.00	88.48	88.83	8917.02	2225.69	957.98	2137.61	0.84	421484.97	65830.00	N 32° 28' 27" W 103° 57' 48.15"	
	11177.00	89.14	89.30	8918.99	2320.31	959.33	2232.57	0.84	421484.97	65840.00	N 32° 28' 27" W 103° 57' 48.15"	
	11272.00	90.48	89.74	8919.30	2414.87	960.33	2327.57	1.48	421484.97	65850.00	N 32° 28' 27" W 103° 57' 48.15"	
	11366.00	89.59	89.21	8919.25	2508.44	961.19	2421.96	1.10	421484.97	65860.00	N 32° 28' 27" W 103° 57' 48.15"	
	11461.00	89.35	89.03	8920.13	2603.06	962.65	2516.54	0.32	421484.97	65870.00	N 32° 28' 27" W 103° 57' 48.15"	
	11556.00	89.24	89.10	8921.29	2697.69	964.20	2611.52	0.14	421484.97	65880.00	N 32° 28' 27" W 103° 57' 48.15"	
	11651.00	89.70	89.13	8922.95	2792.30	965.67	2706.50	0.51	421484.97	65890.00	N 32° 28' 27" W 103° 57' 48.15"	
	11746.00	89.94	89.47	8924.78	2886.66	967.83	2801.47	0.48	421484.97	65900.00	N 32° 28' 27" W 103° 57' 48.15"	
	11841.00	89.74	89.54	8926.06	2981.42	969.45	2896.46	0.96	421484.97	65910.00	N 32° 28' 27" W 103° 57' 48.15"	
	11936.00	89.24	89.54	8927.37	3076.07	971.23	2991.45	1.96	421484.97	65920.00	N 32° 28' 27" W 103° 57' 48.15"	
	12031.00	88.65	89.03	8928.10	3170.77	973.45	3086.48	2.11	421484.97	65930.00	N 32° 28' 27" W 103° 57' 48.15"	
	12126.00	90.00	89.68	8929.21	3264.87	975.84	3181.42	1.82	421484.97	65940.00	N 32° 28' 27" W 103° 57' 48.15"	
	12221.00	88.52	89.32	8930.33	3359.30	978.42	3276.41	1.04	421484.97	65950.00	N 32° 28' 27" W 103° 57' 48.15"	
	12315.00	87.90	89.05	8931.43	3453.83	980.37	3370.36	0.57	421484.97	65960.00	N 32° 28' 27" W 103° 57' 48.15"	
	12410.00	88.24	89.47	8932.60	3547.38	982.69	3465.24	0.12	421484.97	65970.00	N 32° 28' 27" W 103° 57' 48.15"	
	12504.00	88.52	89.36	8934.08	3640.82	970.56	3559.20	0.34	421484.97	65980.00	N 32° 28' 27" W 103° 57' 48.15"	
	12598.00	88.55	89.43	8935.17	3735.46	971.48	3644.14	0.07	421484.97	65990.00	N 32° 28' 27" W 103° 57' 48.15"	
	12692.00	88.55	89.43	8936.26	3830.00	972.31	3749.17	0.19	421484.97	66000.00	N 32° 28' 27" W 103° 57' 48.15"	
	12786.00	88.25	90.04	8937.02	3924.45	971.85	3844.14	0.11	421484.97	66010.00	N 32° 28' 27" W 103° 57' 48.15"	
	12879.00	88.21	88.25	8938.02	4018.86	972.44	3939.11	0.81	421484.97	66020.00	N 32° 28' 27" W 103° 57' 48.15"	
	12973.00	88.11	88.25	8939.02	4113.40	972.82	4034.06	1.37	421484.97	66030.00	N 32° 28' 27" W 103° 57' 48.15"	
	13069.00	89.04	88.25	8940.02	4208.07	975.44	4128.67	0.50	421484.97	66040.00	N 32° 28' 27" W 103° 57' 48.15"	
	13165.00	88.11	88.59	8941.02	4302.69	977.23	4223.93	1.66	421484.97	66050.00	N 32° 28' 27" W 103° 57' 48.15"	
	13261.00	88.21	88.59	8942.02	4397.29	978.73	4318.88	1.44	421484.97	66060.00	N 32° 28' 27" W 103° 57' 48.15"	
	13357.00	88.21	88.59	8943.02	4491.93	981.00	4413.81	0.13	421484.97	66070.00	N 32° 28' 27" W 103° 57' 48.15"	
	13453.00	89.35	90.34	8944.02	4586.47	981.00	4508.78	2.13	421484.97	66080.00	N 32° 28' 27" W 103° 57' 48.15"	
	13549.00	88.69	89.53	8945.02	4680.92	981.60	4603.76	0.82	421484.97	66090.00	N 32° 28' 27" W 103° 57' 48.15"	
	13645.00	88.45	88.55	8946.02	4775.49	982.66	4698.72	1.47	421484.97	66100.00	N 32° 28' 27" W 103° 57' 48.15"	
	13739.00	88.31	88.68	8947.02	4870.15	985.16	4793.65	0.20	421484.97	66110.00	N 32° 28' 27" W 103° 57' 48.15"	
	13834.00	88.35	88.71	8948.02	4964.85	988.06	4888.57	0.92	421484.97	66120.00	N 32° 28' 27" W 103° 57' 48.15"	
	13929.00	88.66	88.30	8949.02	5059.56	990.87	4983.50	1.19	421484.97	66130.00	N 32° 28' 27" W 103° 57' 48.15"	
	14024.00	88.80	88.30	8950.02	5154.24	993.28	5078.45	0.58	421484.97	66140.00	N 32° 28' 27" W 103° 57' 48.15"	
	14119.00	88.59	88.19	8951.02	5248.96	996.19	5173.37	2.01	421484.97	66150.00	N 32° 28' 27" W 103° 57' 48.15"	
	14213.00	89.62	89.77	8952.02	5342.59	997.86	5267.34	0.24	421484.97	66160.00	N 32° 28' 27" W 103° 57' 48.15"	
	14308.00	89.31	88.93	8953.02	5437.17	998.94	5362.33	0.94	421484.97	66170.00	N 32° 28' 27" W 103° 57' 48.15"	
	14403.00	89.55	88.85	8954.02	5531.83	1000.78	5457.31	0.04	421484.97	66180.00	N 32° 28' 27" W 103° 57' 48.15"	
	14498.00	89.52	88.87	8955.02	5626.49	1002.67	5552.29	0.26	421484.97	66190.00	N 32° 28' 27" W 103° 57' 48.15"	
	14592.00	89.36	88.67	8956.02	5720.16	1004.68	5646.26	0.07	421484.97	66200.00	N 32° 28' 27" W 103° 57' 48.15"	
	14687.00	89.45	88.68	8957.02	5814.84	1006.90	5741.23	0.33	421484.97	66210.00	N 32° 28' 27" W 103° 57' 48.15"	
	14782.00	89.24	88.43	8958.02	5909.54	1009.31	5836.18	0.33	421484.97	66220.00	N 32° 28' 27" W 103° 57' 48.15"	
	14877.00	89.28	88.54	8959.02	6004.25	1011.82	5931.15	0.12	421484.97	66230.00	N 32° 28' 27" W 103° 57' 48.15"	
	14972.00	89.38	88.61	8960.02	6098.94	1014.18	6026.12	0.13	421484.97	66240.00	N 32° 28' 27" W 103° 57' 48.15"	
	15067.00	88.86	88.51	8961.02	6193.63	1016.97	6121.08	0.36	421484.97	66250.00	N 32° 28' 27" W 103° 57' 48.15"	
	15162.00	89.21	88.60	8962.02	6288.32	1018.57	6216.03	0.96	421484.97	66260.00	N 32° 28' 27" W 103° 57' 48.15"	
	15257.00	89.21	88.44	8963.02	6382.99	1021.09	6311.00	0.25				

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 °)
	18487 00	88 45	88 35	9055 64	9596 12	1041 58	9539 52	1 50	421534 95	665676 37	N 32 9 29 66	W 103 55 53 52
	18582 00	88 66	88 68	9058 04	9690 79	1044 04	9634 46	0 41	421537 41	665771 30	N 32 9 29 68	W 103 55 52 42
	18677 00	89 21	89 00	9059 80	9785 44	1045 96	9729 42	0 67	421539 33	665866 25	N 32 9 29 70	W 103 55 51 32
	18772 00	88 76	88 50	9061 49	9880 10	1048 04	9824 38	0 71	421541 40	665961 21	N 32 9 29 72	W 103 55 50 21
Final MWD	18867 00	89 00	88 43	9063 34	9974 80	1050 58	9919 33	0 26	421543 95	666056 15	N 32 9 29 74	W 103 55 49 11
Survey	18922 00	89 00	88 43	9064 30	10029 63	1052 09	9974 30	0 00	421545 45	666111 11	N 32 9 29 75	W 103 55 48 47
Proj to Bht												

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 Borehole / Oxy Corral Fly 02-01 State 24H Gyro+MWD 0- 18 922
	1	26 500	26 500	Act Stns	30 000	30 000	NAL_NSG+MSHOT Depth Only	Original Borehole / Oxy Corral Fly 02-01 State 24H Gyro+MWD 0- 18 922
	1	26 500	369 650	Act Stns	30 000	30 000	NAL_NSG+MSHOT	Original Borehole / Oxy Corral Fly 02-01 State 24H Gyro+MWD 0-
	1	369 650	9222 000	Act Stns	30 000	30 000	NAL_MWD_PLUS_0 5 DEG	Original Borehole / Oxy Corral Fly 02-01 State 24H Gyro+MWD 0-
	1	9222 000	18922 000	Act Stns	30 000	30 000	NAL_MWD_HDGM+MS	Original Borehole / Oxy Corral Fly 02-01 State 24H Gyro+MWD 0-

Schlumberger

OXY



Borehole	Well	Field	Structure
Original Borehole	Oxy Corral Fly 02-01 State 24H	NM Eddy County (NAD 83)	Oxy Corral Fly 02-01 State 24H
Gravity & Magnetic Parameters			
Model: HGM 2017	Dip: 88.934°	Date: 31-Jan-2018	Surface Location: NAD83 New Mexico State Plane, Eastern Zone, US Feet
MagDec: 7.551	FS: 45025.125m	Gravity FS: 988.485mg (9.80665 Based)	Grid Conv: 0.1874
		Lon: W 103 07 44.63	Scale Fact: 0.88982418
		Easting: 688157.339m	Miscellaneous: Oxy Corral Fly 02-01 State 24H
			TVD Ref: RKB=26.5' (3062.9ft above MSL)
			Plan: Oxy Corral Fly 02-01 State 24H Rev1 APS 31-Jan-18

