

Provide Signature Page for Directional Survey

Schlumberger

Oxy Turkey Track 4-3 State 33H Gyro+MWD 0-19,061' MD Survey Geodetic Report (Def Survey)



Report Date: August 02, 2018 - 11:33 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Turkey Track 4-3 State 33H / Oxy Turkey Track 4-3 State 33H
Well: Oxy Turkey Track 4-3 State 33H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44411
Survey Name: Oxy Turkey Track 4-3 State 33H Gyro+MWD 0-19,061' MD
Survey Date: June 14, 2018
Tort / AHD / DDI / ERD Ratio: 271.290' / 11118.184 ft / 6.806 / 1.236
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 41' 11.40788", W 104° 5' 13.79648"
Location Grid N/E Y/X: N 613568.550 RUS, E 617072.590 RUS
CRS Grid Convergence Angle: 0.1329°
Grid Scale Factor: 0.99991566
Version / Patch: 2.10.740.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 87.543° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=28.5'
TVD Reference Elevation: 3432.900 ft above MSL
Seabed / Ground Elevation: 3406.400 ft above MSL
Magnetic Declination: 7.396°
Total Gravity Field Strength: 988.5144 mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48087.705 nT
Magnetic Dip Angle: 60.486°
Declination Date: June 14, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1329°
Total Corr Mag North->Grid North: 7.2630°
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 09 2018

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (RUS)	Easting (RUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	613568.55	617072.59	N 32 41 11.41	W 104 5 13.80
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	613568.55	617072.59	N 32 41 11.41	W 104 5 13.80
	99.00	0.10	350.97	99.00	-0.01	0.06	-0.01	0.14	613568.61	617072.58	N 32 41 11.41	W 104 5 13.80
	158.10	0.25	336.60	158.10	-0.06	0.23	-0.07	0.26	613568.78	617072.52	N 32 41 11.41	W 104 5 13.80
	216.30	0.50	205.49	216.30	-0.22	0.12	-0.23	1.19	613568.87	617072.36	N 32 41 11.41	W 104 5 13.80
Last Gyro	273.90	0.83	263.24	273.90	-0.66	-0.15	-0.85	0.97	613568.40	617071.94	N 32 41 11.41	W 104 5 13.80
	421.00	0.57	280.04	420.99	-2.18	-0.11	-2.18	0.13	613568.44	617070.42	N 32 41 11.41	W 104 5 13.82
	544.00	0.63	308.74	543.98	-3.28	0.42	-3.31	0.25	613568.97	617069.29	N 32 41 11.41	W 104 5 13.84
	669.00	0.54	308.90	668.98	-4.24	1.22	-4.30	0.07	613569.77	617068.29	N 32 41 11.42	W 104 5 13.85
	760.00	0.29	325.62	759.97	-4.69	1.68	-4.76	0.30	613570.23	617067.83	N 32 41 11.42	W 104 5 13.85
	853.00	0.27	349.60	852.97	-4.84	2.09	-4.94	0.13	613570.64	617067.65	N 32 41 11.43	W 104 5 13.85
	944.00	0.42	344.17	943.97	-4.95	2.62	-5.07	0.17	613571.17	617067.53	N 32 41 11.43	W 104 5 13.86
	1036.00	0.67	337.38	1035.97	-5.21	3.44	-5.36	0.28	613571.99	617067.23	N 32 41 11.44	W 104 5 13.86
	1128.00	0.91	324.49	1127.96	-5.80	4.53	-6.00	0.32	613573.08	617066.60	N 32 41 11.45	W 104 5 13.87
	1219.00	1.24	324.36	1218.94	-6.73	5.92	-6.99	0.36	613574.47	617066.00	N 32 41 11.47	W 104 5 13.88
	1310.00	1.33	319.76	1309.92	-7.91	7.52	-8.24	0.15	613575.07	617064.35	N 32 41 11.48	W 104 5 13.89
	1402.00	0.83	307.32	1401.90	-8.96	8.65	-9.34	0.79	613577.20	617063.25	N 32 41 11.49	W 104 5 13.91
	1493.00	0.53	306.41	1492.90	-9.87	9.20	-10.07	0.11	613577.75	617062.52	N 32 41 11.50	W 104 5 13.91
	1585.00	0.57	296.48	1584.90	-10.40	9.66	-10.83	0.11	613578.21	617061.77	N 32 41 11.50	W 104 5 13.92
	1677.00	0.67	299.55	1676.89	-11.26	10.13	-12.65	0.07	613578.67	617060.89	N 32 41 11.51	W 104 5 13.93
	1767.00	0.73	301.87	1766.88	-12.18	10.69	-13.64	0.14	613579.24	617059.94	N 32 41 11.51	W 104 5 13.94
	1860.00	0.65	293.35	1859.88	-13.14	11.21	-14.27	0.51	613579.78	617058.96	N 32 41 11.52	W 104 5 13.96
	1952.00	0.20	272.99	1951.87	-13.77	11.42	-14.54	0.17	613579.97	617058.32	N 32 41 11.52	W 104 5 13.96
	2044.00	0.20	318.84	2043.87	-14.03	11.55	-14.54	0.17	613580.10	617058.05	N 32 41 11.52	W 104 5 13.97
	2139.00	0.34	318.36	2138.87	-14.31	11.89	-14.84	0.15	613580.44	617057.75	N 32 41 11.53	W 104 5 13.97
	2233.00	0.39	321.31	2232.87	-14.68	12.35	-15.22	0.06	613580.90	617057.37	N 32 41 11.53	W 104 5 13.97
	2328.00	0.44	302.37	2327.87	-15.17	12.80	-15.73	0.15	613581.34	617056.86	N 32 41 11.53	W 104 5 13.98
	2423.00	0.45	285.04	2422.87	-15.82	13.09	-16.40	0.14	613581.64	617056.19	N 32 41 11.54	W 104 5 13.99
	2518.00	0.40	294.62	2517.86	-16.48	13.32	-17.06	0.09	613581.87	617055.53	N 32 41 11.54	W 104 5 14.00
	2612.00	0.50	271.37	2611.86	-17.18	13.47	-17.77	0.22	613582.02	617054.82	N 32 41 11.54	W 104 5 14.00
	2707.00	0.45	258.62	2706.86	-17.96	13.41	-18.55	0.12	613581.95	617054.04	N 32 41 11.54	W 104 5 14.01
	2802.00	0.40	255.59	2801.85	-18.65	13.25	-19.24	0.06	613581.80	617053.35	N 32 41 11.54	W 104 5 14.02
	2896.00	0.35	222.23	2895.85	-19.18	12.85	-19.75	0.23	613581.50	617052.84	N 32 41 11.54	W 104 5 14.03
	2990.00	0.48	216.38	2989.85	-19.62	12.43	-20.18	0.15	613580.97	617052.42	N 32 41 11.53	W 104 5 14.03
	3037.00	0.40	192.81	3036.85	-19.79	12.11	-20.33	0.42	613580.66	617052.26	N 32 41 11.53	W 104 5 14.03
	3189.00	0.32	332.13	3188.85	-20.11	11.96	-20.64	0.44	613580.51	617051.95	N 32 41 11.53	W 104 5 14.04
	3379.00	0.61	297.84	3378.84	-21.21	12.91	-21.79	0.21	613581.46	617050.81	N 32 41 11.54	W 104 5 14.05
	3473.00	0.93	287.90	3472.83	-22.36	13.37	-22.96	0.37	613581.92	617049.64	N 32 41 11.54	W 104 5 14.06
	3568.00	0.88	292.99	3567.82	-23.74	13.90	-24.36	0.10	613582.44	617048.23	N 32 41 11.55	W 104 5 14.08
	3663.00	0.77	336.45	3662.81	-24.63	14.77	-25.29	0.65	613583.31	617047.31	N 32 41 11.55	W 104 5 14.09
	3757.00	0.87	26.67	3756.80	-24.51	15.88	-25.22	0.75	613584.53	617047.37	N 32 41 11.57	W 104 5 14.09
	3852.00	1.42	143.07	3851.79	-23.49	15.69	-24.19	2.07	613584.24	617046.40	N 32 41 11.56	W 104 5 14.08
	3947.00	1.78	211.43	3946.76	-23.65	13.49	-24.25	1.92	613582.04	617046.34	N 32 41 11.54	W 104 5 14.08
	4042.00	1.57	335.71	4041.74	-24.96	13.41	-25.56	3.12	613581.96	617047.04	N 32 41 11.54	W 104 5 14.10
	4137.00	1.55	113.92	4136.73	-24.29	14.08	-24.92	3.07	613582.63	617047.68	N 32 41 11.55	W 104 5 14.09
	4231.00	1.31	275.40	4230.72	-24.22	13.66	-24.82	3.00	613582.21	617047.77	N 32 41 11.54	W 104 5 14.09
	4326.00	0.41	201.58	4325.71	-24.36	14.04	-24.98	2.55	613582.58	617047.61	N 32 41 11.55	W 104 5 14.09
	4421.00	0.41	201.58	4420.70	-23.56	13.99	-24.18	1.52	613582.54	617048.41	N 32 41 11.55	W 104 5 14.08
	4516.00	0.08	177.08	4515.70	-23.70	13.81	-24.30	0.36	613582.16	617048.29	N 32 41 11.54	W 104 5 14.08
	4610.00	2.71	244.20	4609.67	-25.74	12.57	-26.30	2.85	613581.12	617048.29	N 32 41 11.53	W 104 5 14.10
	4705.00	5.79	244.99	4704.40	-32.23	9.57	-32.67	3.24	613578.12	617039.92	N 32 41 11.50	W 104 5 14.18
	4800.00	8.92	244.71	4798.60	-43.44	4.40	-43.67	3.29	613572.95	617028.92	N 32 41 11.45	W 104 5 14.31
	4894.00	11.39	247.37	4891.12	-58.88	-2.29	-58.83	2.67	613566.26	617013.76	N 32 41 11.39	W 104 5 14.48
	4988.00	11.79	262.97	4983.23	-77.17	-7.04	-76.93	3.35	613561.51	616995.66	N 32 41 11.34	W 104 5 14.70
	5083.00	12.75	274.58	5078.07	-97.25	-7.39	-97.02	3.21	613561.18	616975.58	N 32 41 11.34	W 104 5 14.93
	5177.00	14.58	284.76	5167.42	-118.85	-3.55	-118.81	2.78	613561.01	616953.79	N 32 41 11.38	W 104 5 15.19
	5272.00	16.63	291.66	5258.92	-142.68	4.52	-143.01	2.91	613573.07	616929.59	N 32 41 11.46	W 104 5 15.47
	5367.00	16.82	298.83	5349.91	-168.84	16.17	-167.69	2.18	613564.72	616904.92	N 32 41 11.57	W 104 5 15.76
	5462.00	17.58	309.41	5450.50	-211.47	47.48	-213.71	1.70	613616.03	616858.90	N 32 41 11.68	W 104 5 16.30
	5556.00	18.36	312.21	5520.87	-232.80	66.64	-235.87	1.22	613635.19	616836.74	N 32 41 12.07	W 104 5 16.55
	5651.00	18.62	317.93	5710.03	-252.90	87.73	-256.80	1.95	613656.27	616815.72	N 32 41 12.28	W 104 5 16.80
	5745.00	18.02	330.21	5800.24	-269.32	111.75	-274.37	4.10	613680.29	616798.25	N 32 41 12.52	W 104 5 17.00
	5840.00	17.83	343.34	5890.72	-279.60	138.30	-285.79	4.24	613706.83	616786.82	N 32 41 12.78	W 104 5 17.14
	5935.00	15.33	352.35	5980.87	-284.22	164.26	-291.53	3.65	613732.79	616781.08	N 32 41 13.04	W 104 5 17.20
	6029.00	9.24	352.23	6072.67	-286.05	184.07	-294.21	6.48	613752.60	616778.41	N 32 41 13.24	W 104 5 17.23
	6123.00	3.94	336.38	6167.02	-287.93	194.62	-296.55	5.85	613763.16	616776.07	N 32 41 13.34	W 104 5 17.26
	6218.00	2.31	330.24	6260.87	-289.97	199.23	-298.78	1.77	613767.78	616773.83	N 32 41 13.39	W 104 5 17.29
	6312.00	2.00	309.29	6355.81	-292.08	201.94	-301.02	0.88	613770.47	616771.60	N 32 41 13.41	W 104 5 17.31
	6407.00	1.87	272.78	6449.76	-294.84	203.05	-303.82	1.30	613771.59	616768.80	N 32 41 13.42	W 104 5 17.35
	6501.00	1.55	256.33	6544.72	-297.64	202.82	-306.62	0.61	613771.36	616766.00	N 32 41 13.42	W 104 5 17.38
	6596.00	1.58	250.34	6638.68	-300.12	202.09	-309.07	0.18	613770.62	616763.55	N 32 41 13.41	W 104 5 17.41
	6690.00	4.28	238.12	6733.55	-304.46	199.77	-313.32	2.90	613766.31	616759.30	N 32 41 13.39	W 104 5 17.46
	6785.00	5.12	222.90	6828.23	-310.57	194.60	-319.21	1.58	613763.33	616753.41	N 32 41 13.34	W 104 5 17.53
	6880.00	4.86	224.03	6921.88	-316.44	188.86	-324.83	0.30	613757.39	616747.78	N 32 41 13.28	W 104 5 17.59
	6974.00	4.00	222.69	7016								

Comments	MD	Incl	Adm Gnd	TVD	VSEC	NS	EW	DLS	Nothing	Eating	Latitude	Longitude
	(m)	(°)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	(N/S)	(E/W)
	7541.00	6.71	68.34	7407.76	-304.93	177.63	-312.83	2.94	613746.17	618750.78	N 32 41 13.17 W 104	5 17 45
	7636.00	6.69	60.20	7561.90	-263.31	183.24	-301.44	2.37	613751.77	618771.18	N 32 41 13.23 W 104	5 17 32
	7720.00	11.64	55.04	7674.42	-279.00	192.20	-287.50	3.29	613760.73	618785.12	N 32 41 13.32 W 104	5 17 16
	7825.00	13.34	44.61	7767.18	-262.89	205.49	-276.94	2.97	613774.42	618800.67	N 32 41 13.45 W 104	5 16 57
	7920.00	14.52	27.46	7859.42	-246.92	223.87	-258.75	4.50	613782.40	618813.86	N 32 41 13.63 W 104	5 16 42
	8014.00	15.26	14.72	7960.29	-233.50	246.30	-250.17	3.56	613814.33	618822.44	N 32 41 13.85 W 104	5 16 12
	8109.00	16.48	5.60	8041.68	-233.80	271.80	-245.68	2.92	613846.33	618828.93	N 32 41 14.10 W 104	5 16 06
	8203.00	16.91	7.02	8131.77	-229.73	298.47	-242.75	0.46	613867.40	618838.68	N 32 41 14.37 W 104	5 16 03
	8309.00	16.91	29.80	8231.25	-224.71	326.68	-239.03	0.21	613897.40	618844.07	N 32 41 14.61 W 104	5 16 06
	8404.00	17.56	57.70	8324.50	-214.77	355.06	-230.74	7.09	613923.56	618848.38	N 32 41 15.14 W 104	5 16 22
	8488.00	22.73	74.99	8417.50	-191.39	377.14	-207.11	11.46	613946.65	618854.67	N 32 41 15.22 W 104	5 16 37
	8592.00	27.20	78.73	8516.25	-155.60	392.43	-171.57	9.05	613968.85	618861.03	N 32 41 15.24 W 104	5 16 42
	8687.00	36.87	78.35	8578.42	-144.18	419.74	-162.22	10.22	613993.14	618868.28	N 32 41 15.26 W 104	5 16 42
	8781.00	46.41	78.41	8670.65	-127.67	451.60	-145.82	9.63	614008.28	618876.19	N 32 41 15.28 W 104	5 16 42
	8876.00	54.61	84.96	8759.17	-106.29	483.26	-127.09	8.80	614018.74	618884.37	N 32 41 15.32 W 104	5 16 42
	8970.00	67.19	86.36	8850.23	-81.37	493.29	-102.27	17.09	614028.10	618892.54	N 32 41 15.36 W 104	5 16 42
	9065.00	80.28	80.32	8934.20	-37.46	450.87	-78.22	14.80	614038.45	618900.65	N 32 41 15.48 W 104	5 16 42
	9161.00	90.46	80.36	9013.50	454.78	450.29	435.88	0.69	614048.80	618908.19	N 32 41 15.65 W 104	5 9 61
	9258.00	90.41	90.34	9093.13	549.66	449.80	530.87	0.08	614058.31	618916.31	N 32 41 15.85 W 104	5 9 61
	9357.00	90.35	90.54	9172.42	643.55	449.32	624.87	0.12	614067.83	618924.42	N 32 41 15.84 W 104	5 9 67
	9457.00	90.46	90.24	9251.75	738.43	449.67	719.86	0.32	614077.18	618932.39	N 32 41 15.82 W 104	5 9 67
	9556.00	90.46	90.39	9330.38	832.32	447.62	811.86	0.36	614086.56	618940.16	N 32 41 15.82 W 104	5 9 66
	9655.00	90.46	90.39	9409.61	927.21	447.30	900.86	0.08	614095.81	618947.97	N 32 41 15.82 W 104	5 9 66
	9754.00	90.41	90.32	9488.89	1021.10	447.20	989.86	0.22	614104.15	618955.47	N 32 41 15.82 W 104	5 9 66
	9853.00	89.86	90.38	9568.25	1116.00	446.96	1097.85	0.25	614015.47	618963.38	N 32 41 15.80 W 104	5 9 64
	9952.00	89.86	90.36	9647.56	1210.88	446.40	1192.85	0.46	614014.38	618971.37	N 32 41 15.82 W 104	5 9 63
	10050.00	89.86	90.36	9726.85	1309.68	445.87	1286.84	0.14	614014.38	618979.36	N 32 41 15.79 W 104	5 9 63
	10148.00	89.57	90.28	9806.56	1403.56	445.57	1381.94	0.62	614014.38	618987.28	N 32 41 15.78 W 104	5 9 62
	10247.00	88.84	90.17	9886.24	1493.56	445.09	1475.94	0.33	614013.60	618995.40	N 32 41 15.76 W 104	5 9 62
	10346.00	88.78	90.15	9966.34	1587.46	444.65	1569.83	0.59	614013.60	619003.32	N 32 41 15.76 W 104	5 9 62
	10445.00	88.80	90.29	10046.32	1681.78	444.26	1664.80	0.28	614013.14	619011.25	N 32 41 15.74 W 104	5 9 60
	10544.00	88.80	90.56	10126.59	1776.21	444.78	1758.78	0.19	614012.18	619019.13	N 32 41 15.73 W 104	5 9 58
	10643.00	88.84	90.17	10206.84	1874.93	442.78	1853.76	0.20	614012.18	619027.06	N 32 41 15.72 W 104	5 9 58
	10742.00	88.84	90.17	10287.00	1969.35	441.36	1947.74	0.17	614011.25	619034.97	N 32 41 15.73 W 104	5 9 58
	10841.00	88.84	90.17	10367.25	2063.78	441.86	2042.72	0.06	614009.87	619042.89	N 32 41 15.73 W 104	5 9 58
	10940.00	88.84	90.17	10447.50	2158.65	441.36	2134.70	0.57	614009.87	619050.81	N 32 41 15.73 W 104	5 9 58
	11039.00	88.84	90.17	10527.84	2253.54	442.26	2228.68	0.18	614009.87	619058.73	N 32 41 15.72 W 104	5 9 58
	11138.00	88.84	90.17	10608.00	2348.45	442.26	2317.65	0.63	614010.77	619066.65	N 32 41 15.72 W 104	5 9 58
	11237.00	88.80	88.72	10688.20	2443.36	444.19	2409.58	0.63	614013.67	619074.57	N 32 41 15.76 W 104	5 9 58
	11336.00	88.80	88.80	10768.40	2538.29	445.19	2500.51	0.11	614016.80	619082.49	N 32 41 15.76 W 104	5 9 58
	11435.00	88.80	88.80	10848.60	2633.22	451.55	2591.42	0.63	614023.06	619090.41	N 32 41 15.82 W 104	5 9 58
	11534.00	88.80	88.80	10928.80	2728.15	454.62	2683.33	0.25	614023.06	619098.33	N 32 41 15.82 W 104	5 9 58
	11633.00	88.80	88.80	11009.00	2823.08	454.62	2775.25	0.43	614023.06	619106.25	N 32 41 15.82 W 104	5 9 58
	11732.00	88.80	88.80	11089.20	2918.01	454.62	2866.18	1.62	614023.06	619114.17	N 32 41 15.82 W 104	5 9 58
	11831.00	88.80	88.80	11169.40	3012.94	454.62	2957.11	0.99	614023.06	619122.09	N 32 41 15.82 W 104	5 9 58
	11930.00	88.80	88.80	11249.60	3107.87	454.62	3048.00	0.92	614023.06	619130.01	N 32 41 15.82 W 104	5 9 58
	12029.00	88.80	88.80	11329.80	3202.80	454.62	3138.91	0.25	614023.06	619137.93	N 32 41 15.82 W 104	5 9 58
	12128.00	88.80	88.80	11409.90	3297.73	454.62	3229.82	0.67	614023.06	619145.85	N 32 41 15.82 W 104	5 9 58
	12227.00	88.80	88.80	11490.10	3392.66	454.62	3320.73	1.58	614023.06	619153.77	N 32 41 15.82 W 104	5 9 58
	12326.00	88.80	88.80	11570.30	3487.59	454.62	3411.64	0.31	614023.06	619161.69	N 32 41 15.82 W 104	5 9 58
	12425.00	88.80	88.80	11650.50	3582.52	454.62	3502.55	0.69	614023.06	619169.61	N 32 41 15.82 W 104	5 9 58
	12524.00	88.80	88.80	11730.70	3677.45	454.62	3593.46	0.04	614023.06	619177.53	N 32 41 15.82 W 104	5 9 58
	12623.00	88.80	88.80	11810.90	3772.38	454.62	3684.37	0.45	614023.06	619185.45	N 32 41 15.82 W 104	5 9 58
	12722.00	88.80	88.80	11891.10	3867.31	454.62	3775.28	0.18	614023.06	619193.37	N 32 41 15.82 W 104	5 9 58
	12821.00	88.80	88.80	11971.30	3962.24	454.62	3866.19	0.92	614023.06	619201.29	N 32 41 15.82 W 104	5 9 58
	12920.00	88.80	88.80	12051.50	4057.17	454.62	3957.10	0.31	614023.06	619209.21	N 32 41 15.82 W 104	5 9 58
	13019.00	88.80	88.80	12131.70	4152.10	454.62	4048.01	0.25	614023.06	619217.13	N 32 41 15.82 W 104	5 9 58
	13118.00	88.80	88.80	12211.90	4247.03	454.62	4138.91	0.67	614023.06	619225.05	N 32 41 15.82 W 104	5 9 58
	13217.00	88.80	88.80	12292.10	4341.96	454.62	4229.82	1.58	614023.06	619232.97	N 32 41 15.82 W 104	5 9 58
	13316.00	88.80	88.80	12372.30	4436.89	454.62	4320.73	0.31	614023.06	619240.89	N 32 41 15.82 W 104	5 9 58
	13415.00	88.80	88.80	12452.50	4531.82	454.62	4411.64	0.92	614023.06	619248.81	N 32 41 15.82 W 104	5 9 58
	13514.00	88.80	88.80	12532.70	4626.75	454.62	4502.55	0.45	614023.06	619256.73	N 32 41 15.82 W 104	5 9 58
	13613.00	88.80	88.80	12612.90	4721.68	454.62	4593.46	0.31	614023.06	619264.65	N 32 41 15.82 W 104	5 9 58
	13712.00	88.80	88.80	12693.10	4816.61	454.62	4684.37	0.67	614023.06	619272.57	N 32 41 15.82 W 104	5 9 58
	13811.00	88.80	88.80	12773.30	4911.54	454.62	4775.28	1.58	614023.06	619280.49	N 32 41 15.82 W 104	5 9 58
	13910.00	88.80	88.80	12853.50	5006.47	454.62	4866.19	0.92	614023.06	619288.41	N 32 41 15.82 W 104	5 9 58
	14009.00	88.80	88.80	12933.70	5101.40	454.62	4957.10	0.45	614023.06	619296.33	N 32 41 15.82 W 104	5 9 58
	14108.00	88.80	88.80	13013.90	5196.33	454.62	5048.01	0.31	614023.06	619304.25	N 32 41 15.82 W 104	5 9 58
	14207.00	88.80	88.80	13094.10	5291.26	454.62	5138.92	0.67	614023.06	619312.17	N 32 41 15.82 W 104	5 9 58
	14306.00	88.80	88.80	13174.30	5386.19	454.62	5229.83	1.58	614023.06	619320.09	N 32 41 15.82 W 104	5 9 58
	14405.00	88.80	88.80	13254.50	5481.12	454.62	5320.74	0.31	614023.06	619328.01	N 32 41 15.82 W 104	5 9 58
	14504.00	88.80	88.80	13334.70	5576.05	454.62	5411.65	0.92	614023.06	619335.93	N 32 41 15.82 W 104	5 9 58
	14603.00	88.80	88.80	13414.90	5670.98	454.62	5502.56	0.67	614023.06	619343.85	N 32 41 15.82 W 104	5 9 58
	14702.00	88.80	88.80	13495.10	5765.91	454.62	5593.47	1.58	614023.06	619351.77	N 32 41 15.82 W 104	5 9 58
	14801.00	88.80	88.80	13575.30	5860.84	454.62	5684.38	0.31	614023.06	619359.69	N 32 41 15.82 W 104	5 9 58
	14900.00	88.80	88.80	13655.50	5955.77	454.62	5775.29	0.92	614023.06	619367.61	N 32 41 15.82 W 104	5 9 58
	15000.00	88.80	88.80</									

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 ° ' ")
	17328.00	88.92	90.61	8959.75	8439.83	453.47	8428.14	0.59	614021.98	625500.00	N 32 41 15.69 W 104 3 35.17	
	17516.00	88.82	91.61	8963.45	8527.42	449.83	8616.06	0.53	614018.34	625687.91	N 32 41 15.65 W 104 3 32.97	
	17811.00	88.77	91.22	8965.45	8722.19	447.48	8711.01	0.41	614015.99	625782.85	N 32 41 15.62 W 104 3 31.88	
	17705.00	88.66	91.43	8967.56	8815.96	445.31	8804.96	0.25	614013.82	625876.79	N 32 41 15.60 W 104 3 30.78	
Final SLB MWD	17895.00	88.82	90.54	8971.74	9005.57	442.04	8994.89	0.48	614010.56	626068.70	N 32 41 15.56 W 104 3 28.54	
	18031.00	88.86	86.21	8974.49	9141.49	445.90	9130.77	3.18	614014.41	626202.57	N 32 41 15.60 W 104 3 26.95	
	18125.00	88.58	86.05	8976.59	9235.44	452.24	9224.53	0.34	614020.75	626296.33	N 32 41 15.66 W 104 3 25.85	
	18219.00	88.64	87.01	8978.87	9329.40	457.93	9318.33	1.02	614026.44	626390.12	N 32 41 15.71 W 104 3 24.76	
	18314.00	88.58	87.23	8981.18	9424.37	462.70	9413.18	0.24	614031.21	626484.96	N 32 41 15.76 W 104 3 23.65	
	18409.00	88.55	87.34	8983.55	9519.34	467.20	9508.05	0.12	614035.71	626579.82	N 32 41 15.80 W 104 3 22.54	
	18504.00	88.52	88.89	8985.98	9614.30	470.32	9602.96	1.63	614038.83	626674.72	N 32 41 15.83 W 104 3 21.43	
	18598.00	88.55	89.14	8988.39	9708.24	471.94	9696.92	0.27	614040.45	626768.67	N 32 41 15.84 W 104 3 20.33	
	18788.00	89.20	90.43	8992.12	9898.05	472.65	9886.88	0.78	614041.16	626958.61	N 32 41 15.84 W 104 3 18.10	
	18882.00	90.10	92.24	8992.69	9991.84	470.46	9980.84	2.15	614038.97	627052.57	N 32 41 15.82 W 104 3 17.00	
Final MWD	18978.00	89.28	90.69	8993.21	10087.61	468.01	10076.81	1.83	614036.52	627148.53	N 32 41 15.79 W 104 3 15.88	
Survey Proj. to Bit	19061.00	89.28	90.69	8994.25	10170.47	467.01	10159.79	0.00	614035.52	627231.51	N 32 41 15.78 W 104 3 14.91	

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_NSQ+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 4-3 State 33H Gyro+MWD 0-19,061' MD
	1	26.500	26.500	Act Stns	30.000	30.000 NAL_NSQ+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 4-3 State 33H Gyro+MWD 0-19,061' MD
	1	26.500	273.900	Act Stns	30.000	30.000 NAL_NSQ+MSHOT	Original Borehole / Oxy Turkey Track 4-3 State 33H Gyro+MWD
	1	273.900	19061.000	Act Stns	30.000	30.000 NAL_MWD_IFR1	Original Borehole / Oxy Turkey Track 4-3 State 33H Gyro+MWD

...Original Borehole\Oxy Turkey Track 4-3 State 33H Gyro+MWD 0-19,061' MD

Schlumberger

OXY



Borehole: Original Borehole Well: Oxy Turkey Track 4-3 State 33H Field: NM Eddy County (NAD 83) Structure: Oxy Turkey Track 4-3 State 33H

Gravity & Magnetic Parameters

Model: HOGM 2018 Op: 60.438° Date: 14-Jun-2018
MagDec: 7.39° FS: 43027.70mT Gravity FS: 988.514mgn (0.8065 Based)

Surface Location NAD83 New Mexico State Plane, Eastern Zone, US Feet

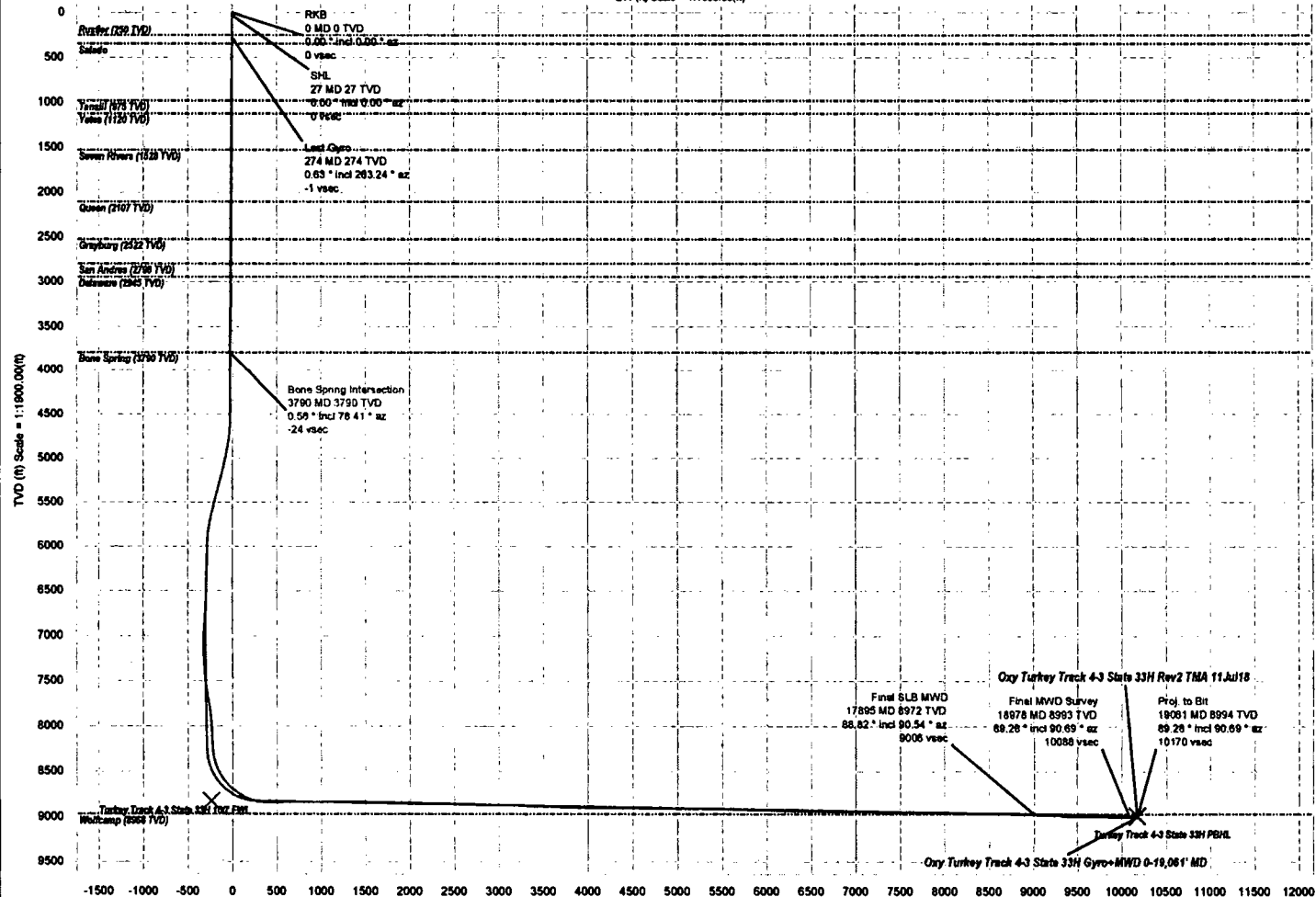
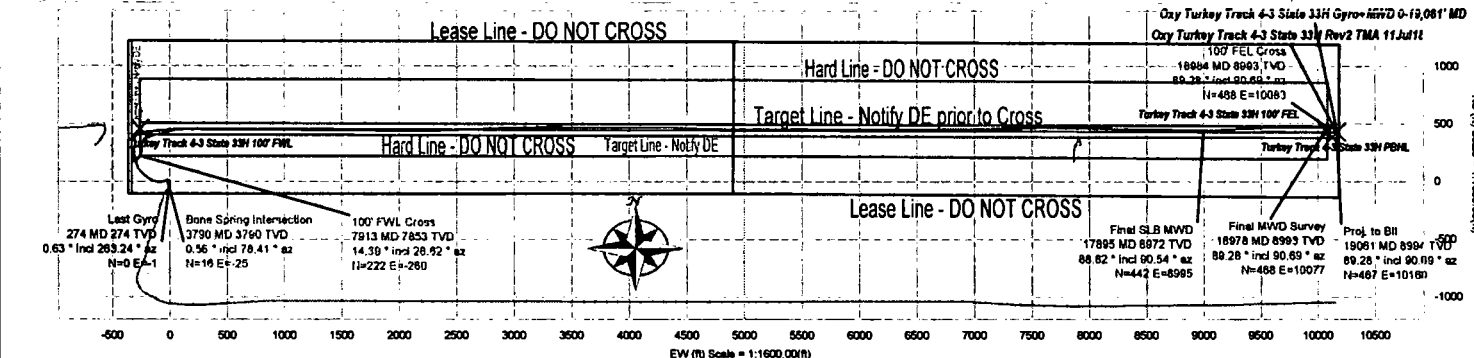
Lat: N 32 41 11.41 Northing: 61588.589US Grid Conv: 0.1329°
Lon: W 106 5 13.80 Easting: 617072.589US Scale Fact: 0.99991685

Miscellaneous

Oxy Turkey Track 4-3 State 33H TVD Ref: RKB=26.5' (3432.81' above MSL)
Plan: Oxy Turkey Track 4-3 State 33H Rev2 TMA 11Jul18

Critical Points							
	MD	INCL	AZIM	TVD	VSEC	N(+)S(-)	E(+)W(-)
Rustler	250.00	0.51	243.14	250.00	-0.43	-0.08	-0.43
Salado	345.01	0.59	270.92	345.00	-1.42	-0.19	-1.41
Tansil	975.03	0.50	341.16	975.00	-5.01	2.88	-5.14
Yates	1120.04	0.89	325.35	1120.00	-5.73	4.43	-5.82
Seven Rivers	1528.10	0.54	302.44	1528.00	-9.93	9.38	-10.34
Queen	2107.13	0.29	318.49	2107.00	-14.20	11.78	-14.72
Grayburg	2522.14	0.40	293.38	2522.00	-18.50	13.33	-17.09
San Andres	2788.15	0.40	255.73	2788.00	-18.83	13.26	-19.21
Delaware	2945.15	0.42	218.72	2945.00	-19.40	12.70	-19.98
Bone Spring	3790.20	0.55	83.27	3790.00	-24.08	16.17	-24.80
Tie-In	6596.00	1.51	256.89	6544.79	-297.82	201.94	-308.55
PTB, Build & Turn 2°/100'	6730.00	1.51	256.89	6678.75	-301.09	201.13	-309.99
Hold Tangent	7143.62	7.73	2.69	7091.13	-303.95	227.74	-314.00
Turn 2°/100'	8235.75	7.73	2.69	8173.33	-290.78	374.54	-307.12
Build/Turn 10°/100'	8338.47	7.73	18.00	8275.12	-287.75	388.02	-304.96
Landing Point	9205.55	89.06	90.16	8820.00	278.00	455.74	258.70
Wolfcamp	18131.80	89.06	90.16	8966.00	9193.99	431.48	9183.93
Turkey Track 4-3 State 33H PBHL	19111.23	89.06	90.16	8982.00	10172.06	428.72	10163.02

Grid
True
Mag
Grid North
Tot Corr (M>G 7.263°)
Mag Dec (7.396°)
Grid Conv (0.133°)



Vertical Section (ft) Azim = 87.54° Scale = 1:1900.00(ft) Origin = 0N/S, 0E/W