

30-015-44193

Schlumberger

Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-19352' Survey Geodetic
Report
(Def Survey)

Report Date: July 23, 2018 - 12:14 PM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Turkey Track 9-10 State 31H / Oxy Turkey Track 9-10 State 31H
Well: Oxy Turkey Track 9-10 State 31H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44193
Survey Name: Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-19352'
Survey Date: June 29, 2018
Tort / AHD / DDI / ERD Ratio: 165.180' / 11374.121 ft / 6.607' / 1.265
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 51.74585", W 104° 5' 26.20897"
Location Grid N/E Y/X: N 811579.100 NUS, E 616016.360 NUS
CRS Grid Convergence Angle: 0.1311°
Grid Scale Factor: 0.99991548
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 92.119° (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3418.100 ft above MSL
Seabed / Ground Elevation: 3391.600 ft above MSL
Magnetic Declination: 7.387°
Total Gravity Field Strength: 998.5147mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48081.328 nT
Magnetic Dip Angle: 60.479°
Declination Date: June 29, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1311°
Total Corr Mag North->Grid: 7.2558°
North: Well Head
Local Coord Referenced To: Well Head

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 10 2018

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Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (NUS)	Easting (EUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	611579.10	616016.36	N 32° 40' 51.75" W 104° 5' 26.21"	5.26.21
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	611579.10	616016.36	N 32° 40' 51.75" W 104° 5' 26.21"	5.26.21
	98.98	0.18	89.56	98.98	0.11	0.04	0.11	0.25	611579.14	616016.47	N 32° 40' 51.75" W 104° 5' 26.21"	5.26.21
	158.10	0.39	17.13	158.10	0.24	0.26	0.25	0.53	611579.38	616016.58	N 32° 40' 51.75" W 104° 5' 26.21"	5.26.21
	216.32	0.38	8.07	216.32	0.31	0.64	0.34	0.11	611579.74	616016.70	N 32° 40' 51.75" W 104° 5' 26.20"	5.26.20
Last Gyro	273.86	0.30	11.60	273.86	0.36	0.98	0.40	0.14	611580.08	616016.76	N 32° 40' 51.76" W 104° 5' 26.20"	5.26.20
	411.00	0.37	307.32	410.99	0.06	1.60	0.12	0.26	611580.70	616016.48	N 32° 40' 51.76" W 104° 5' 26.21"	5.26.21
	527.00	0.09	300.55	526.99	-0.33	1.87	-0.26	0.24	611580.97	616016.10	N 32° 40' 51.76" W 104° 5' 26.21"	5.26.21
	620.00	0.04	354.25	619.99	-0.40	1.94	-0.33	0.08	611581.04	616016.03	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	770.00	0.09	87.42	769.99	-0.26	2.00	-0.21	0.07	611581.10	616016.15	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	859.00	0.04	83.64	858.99	-0.19	2.01	-0.11	0.06	611581.11	616016.25	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	949.00	0.07	291.06	948.99	-0.21	2.03	-0.13	0.12	611581.13	616016.23	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1129.00	0.11	82.23	1128.99	-0.14	2.09	-0.07	0.10	611581.19	616016.29	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1220.00	0.11	79.33	1219.99	0.03	2.12	0.11	0.01	611581.22	616016.47	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1311.00	0.02	20.88	1310.99	0.12	2.15	0.20	0.11	611581.25	616016.56	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1401.00	0.09	293.26	1400.99	0.06	2.20	0.14	0.10	611581.30	616016.50	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1492.00	0.13	9.02	1491.99	0.00	2.33	0.09	0.15	611581.43	616016.45	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1582.00	0.22	39.25	1581.99	0.12	2.56	0.22	0.14	611581.66	616016.58	N 32° 40' 51.77" W 104° 5' 26.21"	5.26.21
	1677.00	0.24	35.21	1676.99	0.34	2.86	0.45	0.03	611581.96	616016.81	N 32° 40' 51.77" W 104° 5' 26.20"	5.26.20
	1772.00	0.18	82.85	1771.99	0.59	3.05	0.71	0.19	611582.15	616017.07	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	1866.00	0.04	270.84	1865.99	0.71	3.06	0.82	0.23	611582.16	616017.18	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	1981.00	0.09	271.28	1980.99	0.60	3.07	0.71	0.05	611582.17	616017.07	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2149.00	0.09	105.70	2148.99	0.60	3.03	0.71	0.09	611582.13	616017.07	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2243.00	0.07	299.58	2242.99	0.62	3.04	0.73	0.17	611582.14	616017.09	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2337.00	0.11	99.63	2336.99	0.66	3.05	0.77	0.19	611582.15	616017.13	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2431.00	0.04	287.54	2430.99	0.71	3.05	0.83	0.16	611582.15	616017.19	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2619.00	0.11	38.11	2618.99	0.78	3.21	0.88	0.07	611582.31	616017.24	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2713.00	0.11	29.85	2712.99	0.85	3.36	0.98	0.02	611582.46	616017.34	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2808.00	0.09	229.54	2807.99	0.84	3.39	0.96	0.21	611582.49	616017.32	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2902.00	0.07	112.73	2901.99	0.84	3.32	0.96	0.15	611582.42	616017.32	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	2989.00	0.04	304.33	2988.99	0.86	3.31	0.99	0.13	611582.41	616017.35	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	3183.00	0.15	307.29	3182.99	0.60	3.51	0.73	0.06	611582.61	616017.09	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	3278.00	0.09	266.29	3277.99	0.42	3.58	0.55	0.11	611582.68	616016.91	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	3372.00	0.06	311.18	3371.99	0.31	3.81	0.44	0.07	611582.70	616016.80	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	3468.00	0.03	231.55	3465.99	0.25	3.62	0.39	0.07	611582.72	616016.75	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	3561.00	0.06	288.34	3560.99	0.19	3.62	0.32	0.05	611582.72	616016.68	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	3656.00	0.04	11.03	3655.99	0.14	3.67	0.28	0.07	611582.77	616016.64	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	3749.00	0.03	252.13	3748.99	0.13	3.69	0.26	0.07	611582.79	616016.62	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	3844.00	0.03	5.97	3843.99	0.10	3.71	0.24	0.05	611582.81	616016.60	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	3938.00	0.07	26.58	3937.99	0.13	3.79	0.27	0.05	611582.89	616016.63	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	4033.00	0.04	171.22	4032.99	0.16	3.81	0.30	0.11	611582.91	616016.66	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	4126.00	0.03	128.46	4125.99	0.19	3.76	0.32	0.03	611582.86	616016.68	N 32° 40' 51.78" W 104° 5' 26.21"	5.26.21
	4221.00	0.04	112.42	4220.99	0.24	3.73	0.37	0.01	611582.83	616016.73	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	4315.00	0.06	155.63	4314.99	0.29	3.67	0.43	0.04	611582.77	616016.79	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	4409.00	0.93	131.62	4408.99	0.60	3.12	1.02	0.93	611582.22	616017.38	N 32° 40' 51.78" W 104° 5' 26.20"	5.26.20
	4504.00	2.19	125.38	4503.95	3.01	1.56	3.07	1.34	611580.66	616019.43	N 32° 40' 51.76" W 104° 5' 26.17"	5.26.17
	4599.00	3.37	127.59	4598.93	6.80	-1.19	6.76	1.25	611577.91	616023.12	N 32° 40' 51.73" W 104° 5' 26.13"	5.26.13
	4693.00	4.95	129.66	4692.58	12.27	-5.47	12.08	1.69	611573.63	616028.44	N 32° 40' 51.69" W 104° 5' 26.07"	5.26.07
	4788.00	5.27	130.25	4787.21	18.95	-10.80	18.56	0.34	611568.20	616034.92	N 32° 40' 51.64" W 104° 5' 25.99"	5.25.99
	4883.00	4.97	130.07	4881.83	25.59	-16.42	25.00	0.32	611568.68	616041.36	N 32° 40' 51.68" W 104° 5' 25.92"	5.25.92
	4978.00	4.90	130.16	4976.48	31.99	-21.74	31.21	0.10	611557.37	616047.56	N 32° 40' 51.63" W 104° 5' 25.84"	5.25.84
	5072.00	4.31	130.25	5070.17	37.93	-26.61	36.97	0.63	611552.50	616053.33	N 32° 40' 51.48" W 104° 5' 25.78"	5.25.78
	5167.00	4.30	131.37	5164.90	43.50	-31.27	42.37	0.09	611547.84	616058.72	N 32° 40' 51.44" W 104° 5' 25.71"	5.25.71
	5261.00	4.15	131.66	5258.65	48.85	-35.86	47.55	0.18	611543.25	616063.91	N 32° 40' 51.39" W 104° 5' 25.65"	5.25.65
	5356.00	3.75	133.32	5353.42	53.84	-40.27	52.38	0.44	611538.83	616068.74	N 32° 40' 51.35" W 104° 5' 25.60"	5.25.60
	5451.00	3.75	132.59	5448.22	58.54	-44.51	56.93	0.05	611534.60	616073.28	N 32° 40' 51.30" W 104° 5' 25.54"	5.25.54
	5546.00	3.54	136.15	5543.03	63.01	-48.72	61.25	0.32	611530.38	616077.80	N 32° 40' 51.26" W 104° 5' 25.49"	5.25.49
	5640.00	3.30	139.49	5636.86	66.93	-52.87	65.02	0.33	611526.23	616081.37	N 32° 40' 51.22" W 104° 5' 25.45"	5.25.45
	5735.00	5.56	149.03	5731.57	71.29	-58.90	69.16	2.49	611520.20	616085.52	N 32° 40' 51.16" W 104° 5' 25.40"	5.25.40
	5830.00	8.78	152.44	5825.82	77.40	-69.28	74.89	3.42	611509.83	616091.24	N 32° 40' 51.06" W 104° 5' 25.33"	5.25.33
	5925.00	11.54	153.92	5919.32	85.48	-84.24	82.42	2.92	611494.86	616098.77	N 32° 40' 50.91" W 104° 5' 25.25"	5.25.25
	6019.00	11.73	152.62	6011.39	94.63	-101.17	90.95	0.34	611477.94	616107.30	N 32° 40' 50.74" W 104° 5' 25.15"	5.25.15
	6114.00	11.50	151.84	6104.44	104.14	-118.10	99.84	0.28	611461.01	616116.19	N 32° 40' 50.58" W 104° 5' 25.04"	5.25.04
	6209.00	10.65	147.96	6197.67	113.83	-133.90	108.95	1.20	611445.21	616125.31	N 32° 40' 50.42" W 104° 5' 24.94"	5.24.94
	6303.00	11.69	140.71	6289.89	125.01	-148.64	119.59	1.86	611430.48	616135.94	N 32° 40' 50.27" W 104° 5' 24.81"	5.24.81
	6398.00	11.83	136.05	6382.90	138.39	-163.10	132.45	1.01	611416.02	616148.80	N 32° 40' 50.13" W 104° 5' 24.66"	5.24.66
	6492.00	11.54	132.99	6474.96	152.44	-176.45	146.01	0.73	611402.67	616162.36	N 32° 40' 50.00" W 104° 5' 24.51"	5.24.51
	6586.00	11.44	131.09	6567.07	166.80	-188.98	159.92	0.42	611390.13	616176.26	N 32° 40' 49.78" W 104° 5' 24.34"	5.24.34
	6681.00	11.37	127.94	6660.20	181.71	-200.93	174.40	0.66	611378.18	616190.76	N 32° 40' 49.75" W 104° 5' 24.17"	5.24.17
	6775.00	11.79	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 ° ° ' ° '')
	7825.00	11.74	128.34	7584.49	350.92	-298.11	340.21	0.49	611283.01	616356.54	N 32 40 48.81 W 104	5 22.24
	7719.00	11.31	130.43	7676.59	385.87	-308.02	354.72	0.64	611271.11	616371.05	N 32 40 48.59 W 104	5 22.07
	7908.00	11.85	128.79	7981.74	398.37	-331.66	384.37	0.48	611247.47	616406.70	N 32 40 48.46 W 104	5 21.72
	8003.00	11.63	122.59	7954.76	412.65	-342.66	400.25	0.93	611236.47	616418.58	N 32 40 48.35 W 104	5 21.54
	8097.00	11.72	121.86	8046.81	429.11	-352.80	418.34	0.18	611226.33	616432.67	N 32 40 48.25 W 104	5 21.35
	8191.00	11.70	120.41	8138.86	445.79	-362.67	432.67	0.31	611216.48	616448.99	N 32 40 48.15 W 104	5 21.16
	8227.00	11.67	120.69	8174.11	452.20	-368.37	438.95	0.18	611212.78	616455.27	N 32 40 48.11 W 104	5 21.08
	8395.00	16.76	96.03	8337.07	491.38	-377.19	477.75	4.75	611201.94	616494.07	N 32 40 48.00 W 104	5 20.83
	8489.00	25.93	84.53	8424.58	525.37	-378.41	511.80	10.53	611202.72	616528.11	N 32 40 48.01 W 104	5 20.23
	8584.00	37.87	85.07	8505.16	575.00	-372.43	561.81	12.39	611206.70	616577.92	N 32 40 48.05 W 104	5 19.85
	8679.00	45.47	89.02	8578.19	637.78	-369.86	624.53	8.46	611209.27	616640.83	N 32 40 48.07 W 104	5 18.91
	8773.00	53.15	87.51	8637.43	708.83	-367.65	695.71	8.26	611211.48	616712.01	N 32 40 48.09 W 104	5 18.08
	8868.00	55.08	86.59	8693.11	785.49	-363.68	772.67	2.18	611215.45	616788.87	N 32 40 48.13 W 104	5 17.18
	9057.00	65.00	91.80	8787.43	948.76	-381.76	836.02	5.78	611217.38	616952.30	N 32 40 48.15 W 104	5 15.27
	9152.00	71.81	92.15	8822.37	1037.04	-384.80	1024.24	7.18	611214.33	617040.52	N 32 40 48.11 W 104	5 14.24
	9246.00	79.82	91.35	8845.31	1128.11	-387.57	1115.28	8.67	611211.58	617131.54	N 32 40 48.08 W 104	5 13.17
	9341.00	84.78	90.70	8857.95	1222.22	-389.25	1209.39	5.18	611209.88	617225.65	N 32 40 48.06 W 104	5 12.07
	9372.00	85.00	90.48	8860.71	1253.09	-389.57	1240.27	1.00	611209.68	617258.52	N 32 40 48.06 W 104	5 11.71
	9516.00	88.26	89.04	8869.12	1395.89	-388.97	1382.99	2.49	611210.18	617399.23	N 32 40 48.06 W 104	5 10.04
	9705.00	91.52	89.29	8869.48	1585.42	-386.20	1572.95	1.72	611212.93	617569.17	N 32 40 48.09 W 104	5 7.82
	9894.00	90.45	89.43	8866.23	1774.17	-384.09	1781.91	0.67	611215.04	617778.11	N 32 40 48.10 W 104	5 5.81
	10083.00	90.34	89.52	8864.93	1982.99	-382.36	1950.89	0.08	611216.77	617987.08	N 32 40 48.12 W 104	5 3.39
	10178.00	90.45	89.44	8864.28	2057.85	-381.50	2045.89	0.14	611217.63	618063.07	N 32 40 48.12 W 104	5 2.28
	10357.00	89.89	89.72	8863.74	2236.88	-380.19	2224.88	0.35	611218.94	618241.05	N 32 40 48.13 W 104	5 0.19
	10536.00	89.89	89.72	8864.09	2415.52	-359.31	2403.88	0.00	611219.82	618420.03	N 32 40 48.14 W 104	4 58.09
	10718.00	89.33	89.64	8865.33	2597.35	-358.30	2585.87	0.21	611220.84	618602.01	N 32 40 48.14 W 104	4 55.87
	10809.00	88.88	89.38	8866.75	2688.25	-357.52	2676.66	0.57	611221.81	618692.98	N 32 40 48.15 W 104	4 54.80
	10899.00	88.88	89.62	8868.51	2778.13	-356.73	2768.83	0.27	611222.04	618782.98	N 32 40 48.15 W 104	4 53.85
	10939.00	88.54	89.26	8870.58	2868.01	-355.84	2857.81	0.54	611223.29	618873.92	N 32 40 48.16 W 104	4 52.78
	11082.00	88.99	89.76	8872.54	2960.89	-355.06	2849.78	0.73	611224.07	618965.89	N 32 40 48.16 W 104	4 51.71
	11175.00	88.88	89.49	8874.27	3053.79	-354.45	3042.76	0.31	611224.68	619058.68	N 32 40 48.17 W 104	4 50.62
	11267.00	88.83	89.82	8876.11	3145.69	-353.89	3134.74	0.36	611225.24	619150.83	N 32 40 48.17 W 104	4 49.54
	11360.00	88.88	89.47	8877.96	3238.58	-353.32	3227.72	0.38	611225.81	619243.40	N 32 40 48.18 W 104	4 48.46
	11452.00	88.94	89.63	8879.71	3330.47	-352.60	3319.70	0.19	611226.53	619335.78	N 32 40 48.18 W 104	4 47.38
	11547.00	88.88	89.74	8881.52	3425.37	-352.07	3414.68	0.13	611227.06	619430.75	N 32 40 48.18 W 104	4 46.27
	11641.00	88.83	89.58	8883.40	3519.26	-351.52	3508.66	0.18	611227.61	619524.72	N 32 40 48.19 W 104	4 45.17
	11738.00	88.88	89.37	8885.30	3614.14	-350.65	3603.64	0.23	611228.49	619618.69	N 32 40 48.19 W 104	4 44.06
	11830.00	89.44	89.57	8886.68	3708.03	-349.78	3697.63	0.63	611229.35	619713.67	N 32 40 48.20 W 104	4 42.96
	11925.00	89.39	89.29	8887.65	3802.92	-348.83	3792.62	0.30	611230.30	619808.65	N 32 40 48.21 W 104	4 41.85
	12019.00	89.50	89.71	8888.66	3896.82	-348.01	3886.61	0.46	611231.12	619902.63	N 32 40 48.21 W 104	4 40.75
	12114.00	89.33	90.60	8889.63	3991.76	-348.27	3981.60	0.85	611230.88	619997.62	N 32 40 48.21 W 104	4 39.64
	12208.00	89.27	91.42	8890.66	4085.73	-349.92	4075.58	0.25	611229.21	620091.59	N 32 40 48.19 W 104	4 38.54
	12303.00	89.44	91.58	8891.74	4180.72	-352.41	4170.54	0.25	611226.72	620186.54	N 32 40 48.16 W 104	4 37.43
	12397.00	89.50	91.69	8892.61	4274.71	-355.01	4264.60	0.06	611224.12	620280.49	N 32 40 48.13 W 104	4 36.33
	12492.00	89.22	91.61	8893.68	4369.70	-357.58	4359.46	0.31	611221.55	620375.44	N 32 40 48.11 W 104	4 35.22
	12588.00	89.33	91.41	8894.86	4463.69	-359.88	4453.42	0.18	611219.18	620469.40	N 32 40 48.08 W 104	4 34.12
	12681.00	89.33	91.65	8895.98	4558.68	-362.51	4548.38	0.25	611216.62	620564.35	N 32 40 48.05 W 104	4 33.01
	12775.00	89.39	91.44	8897.03	4652.67	-365.05	4642.34	0.23	611214.09	620658.30	N 32 40 48.03 W 104	4 31.91
	12870.00	89.27	91.51	8898.14	4747.65	-367.49	4737.30	0.15	611211.64	620753.25	N 32 40 48.00 W 104	4 30.80
	12964.00	89.39	91.43	8899.24	4841.64	-369.90	4831.27	0.15	611209.23	620847.21	N 32 40 47.97 W 104	4 29.70
	13059.00	89.33	91.54	8900.30	4936.63	-372.38	4926.23	0.13	611206.77	620942.16	N 32 40 47.95 W 104	4 28.59
	13153.00	88.77	91.35	8901.86	5030.61	-374.73	5020.19	0.83	611204.40	621036.11	N 32 40 47.82 W 104	4 27.48
	13248.00	88.82	90.47	8904.27	5125.56	-378.24	5115.14	1.04	611202.89	621131.06	N 32 40 47.80 W 104	4 26.37
	13343.00	88.83	91.60	8906.63	5220.51	-377.88	5210.09	1.30	611201.17	621226.00	N 32 40 47.88 W 104	4 25.26
	13437.00	90.28	91.39	8907.36	5314.50	-380.41	5304.06	1.58	611198.72	621319.98	N 32 40 47.88 W 104	4 24.16
	13532.00	90.23	91.49	8908.04	5409.49	-382.80	5399.03	0.12	611196.34	621414.92	N 32 40 47.83 W 104	4 23.05
	13627.00	90.58	91.37	8908.28	5504.48	-385.17	5493.96	0.37	611193.96	621509.88	N 32 40 47.81 W 104	4 21.94
	13721.00	90.62	91.13	8905.31	5598.47	-387.22	5587.97	0.26	611191.91	621603.84	N 32 40 47.78 W 104	4 20.84
	13816.00	90.45	91.21	8904.43	5693.46	-389.16	5682.94	0.20	611189.97	621698.81	N 32 40 47.76 W 104	4 19.73
	13911.00	90.58	91.00	8903.59	5788.43	-390.99	5777.92	0.25	611188.14	621793.78	N 32 40 47.74 W 104	4 18.62
	14005.00	90.23	91.25	8902.94	5882.41	-392.84	5871.90	0.44	611186.30	621887.75	N 32 40 47.72 W 104	4 17.52
	14100.00	90.34	91.03	8902.47	5977.40	-394.73	5968.88	0.28	611184.41	621982.72	N 32 40 47.70 W 104	4 16.41
	14194.00	90.45	91.08	8901.82	6071.38	-396.48	6060.88	0.13	611182.68	622076.70	N 32 40 47.68 W 104	4 15.31
	14289.00	90.00	91.02	8901.45	6166.38	-398.20	6155.85	0.48	611180.94	622171.67	N 32 40 47.66 W 104	4 14.20
	14384.00	90.00	91.15	8901.45	6261.35	-400.00	6250.83	0.14	611179.14	622266.65	N 32 40 47.64 W 104	4 13.09
	14479.00	89.78	90.95	8901.63	6356.33	-401.74	6345.81	0.31	611177.40	622361.62	N 32 40 47.62 W 104	4 11.98
	14573.00	88.88	91.37	8902.73	6450.31	-403.64	6439.79	1.06	611175.49	622456.59	N 32 40 47.58 W 104	4 9.78
	14667.00	88.99	91.41	8904.48	6544.28	-405.92	6533.74	0.12	611173.21	622549.54	N 32 40 47.55 W 104	4 8.67
	14762.00	88.88	91.49	8906.24	6639.26	-408.32	6628.70	0.14	611170.81	622644.49	N 32 40 47.55 W 104	4 7.56
	14857.00	88.71	91.41	8908.24	6734.23	-410.73	6723.64	0.20	611168.41	622739.42	N 32 40 47.52 W 104	4 6.45
	15046.00	88.88	91.34	8912.22	6923.18	-415.26	6912.65	0.10	611166.01	622834.31	N 32 40 47.47 W 104	4 5.35
	15141.00	88.77	91.58	8914.18	7018.15	-417.68	7007.50	0.28	611163.67	622929.25	N 32 40 47.45 W 104	4 4.24
	15233.00	88.94	91.50	8917.94	7207.10	-422.78	7196.39	0.10	611161.45	623024.13	N 32 40 47.39 W 104	4 3.13
	15325.00	89.18	91.22	8919.52	7302.08	-425.06	7391.35	0.37	611159.12	623119.06	N 32 40 47.37 W 104	4 2.02
	15420.00	89.81	91.01	8920.64	7397.06	-428.35	7386.33	0.62	611156.78	623214.05	N 32 40 47.35 W 104	4 0.92
	15514.00	89.38	90.90	8921.77	7491.03	-428.43	7480.30	0.79	611154.27	623309.02	N 32 40 47.35 W 104	4 0.82
	15709.00	89.38	89.31	8923.52	7585.96	-428.60	7575.29	1.75	611			

Comments	MD (ft)	Incl (°)	Azlm Grd (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS ("/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	18818.00	89.94	88.38	8988.87	10690.19	-392.74	10682.98	0.09	811188.39	626698.41	N 32 40 47.60 W 104	3 21.24
	18913.00	90.06	88.31	8988.87	10784.99	-390.00	10777.94	0.15	811189.14	626793.37	N 32 40 47.83 W 104	3 20.12
	19007.00	90.06	88.29	8988.77	10878.78	-387.21	10871.80	0.02	811191.83	626887.32	N 32 40 47.85 W 104	3 19.02
	19102.00	90.00	88.08	8988.72	10973.55	-384.18	10966.85	0.25	811194.95	626982.26	N 32 40 47.88 W 104	3 17.81
	19198.00	90.00	88.16	8988.72	11067.32	-381.08	11060.80	0.11	811198.05	627076.20	N 32 40 47.71 W 104	3 16.81
	19291.00	90.00	88.14	8988.72	11162.10	-378.02	11155.75	0.02	811201.12	627171.14	N 32 40 47.73 W 104	3 15.70
Final MWD	19319.00	89.89	88.11	8988.75	11190.03	-377.10	11183.73	0.41	811202.03	627198.13	N 32 40 47.74 W 104	3 15.38
Surveys												
Proj. to Bit	19352.00	89.89	88.11	8988.81	11222.95	-378.01	11216.72	0.00	811203.12	627232.10	N 32 40 47.75 W 104	3 14.99

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 (in)	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 Turkey Track 9-10 State 31H Gyro+MWD 0-19352'
	1	26.500	26.500	Act Sins	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD 0-19352'
	1	26.500	273.850	Act Sins	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD
	1	273.850	19352.000	Act Sins	30.000	30.000	NAL_MWD_PLUS_0.5_DEG	Original Borehole / Oxy Turkey Track 9-10 State 31H Gyro+MWD

