

Oxy Turkey Track 9-10 State 34H Gyro+MWD 0-19,245' Survey Geodetic Report (Def Survey)



30-015-44195

Report Date: June 14, 2018 - 09:18 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Turkey Track 9-10 State 34H / Oxy Turkey Track 9-10 State 34H
Well: Oxy Turkey Track 9-10 State 34H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44195
Survey Name: Oxy Turkey Track 9-10 State 34H Gyro+MWD 0-19,245'
Survey Date: June 01, 2018
Tort / AHD / DDI / ERD Ratio: 165.860 * / 11061.008 ft / 6.597 / 1.239
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 40' 12.91893", W 104° 5' 24.68940"
Location Grid N/E Y/X: N 607655.830 RUS, E 616155.220 RUS
CRS Grid Convergence Angle: 0.1312 *
Grid Scale Factor: 0.9999155
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 92.235 * (Grid North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB=26.5'
TVD Reference Elevation: 3406.200 ft above MSL
Seabed / Ground Elevation: 3379.700 ft above MSL
Magnetic Declination: 7.389 *
Total Gravity Field Strength: 998.5131mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48090.708 nT
Magnetic Dip Angle: 60.474 *
Declination Date: June 01, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1312 *
Total Corr Mag North->Grid: 7.2573 *
North: Well Head
Local Coord Referenced To: Well Head

**NM OIL CONSERVATION
ARTESIA DISTRICT**

JUL 03 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	607655.63	616155.22	N 32 40 12.92 W 104	5 24.69
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	607655.63	616155.22	N 32 40 12.92 W 104	5 24.69
	79.72	0.36	102.12	79.72	0.16	-0.04	0.16	0.68	607655.59	616155.38	N 32 40 12.92 W 104	5 24.69
	172.44	0.22	95.15	172.44	0.63	-0.11	0.63	0.16	607655.52	616155.85	N 32 40 12.92 W 104	5 24.68
	263.38	0.30	38.44	263.38	0.94	0.06	0.95	0.28	607655.69	616156.17	N 32 40 12.92 W 104	5 24.68
	354.83	0.38	25.04	354.83	1.20	0.52	1.22	0.12	607656.15	616156.44	N 32 40 12.92 W 104	5 24.68
	446.43	0.21	37.82	446.42	1.42	0.93	1.46	0.20	607656.56	616156.68	N 32 40 12.93 W 104	5 24.67
	536.51	0.21	31.17	536.50	1.59	1.20	1.64	0.03	607656.83	616156.86	N 32 40 12.93 W 104	5 24.67
	627.62	0.23	44.87	627.61	1.80	1.47	1.86	0.06	607657.10	616157.08	N 32 40 12.93 W 104	5 24.67
	719.50	0.38	93.17	719.49	2.23	1.59	2.29	0.31	607657.22	616157.51	N 32 40 12.93 W 104	5 24.66
	811.42	0.63	100.39	811.41	3.03	1.48	3.09	0.28	607657.11	616158.31	N 32 40 12.93 W 104	5 24.65
	902.21	0.84	94.27	902.19	4.19	1.34	4.25	0.25	607656.97	616158.47	N 32 40 12.93 W 104	5 24.65
	993.97	0.89	87.58	993.94	5.58	1.32	5.63	0.12	607656.95	616160.85	N 32 40 12.93 W 104	5 24.62
	1088.51	0.85	83.89	1088.47	6.97	1.42	7.03	0.07	607657.05	616162.25	N 32 40 12.93 W 104	5 24.61
	1178.64	0.78	81.29	1178.59	8.26	1.59	8.33	0.09	607657.22	616163.55	N 32 40 12.93 W 104	5 24.59
	1271.53	0.88	73.19	1271.47	9.56	1.89	9.64	0.17	607657.52	616164.86	N 32 40 12.94 W 104	5 24.58
	1362.21	1.13	69.79	1362.14	11.04	2.40	11.14	0.28	607658.03	616166.36	N 32 40 12.94 W 104	5 24.56
	1456.68	1.36	63.05	1456.58	12.88	3.23	13.02	0.29	607658.86	616168.24	N 32 40 12.95 W 104	5 24.54
	1551.31	0.56	34.28	1551.20	14.11	4.12	14.28	0.96	607659.75	616169.50	N 32 40 12.96 W 104	5 24.52
	1645.81	0.42	322.35	1645.70	14.13	4.78	14.33	0.62	607660.41	616169.55	N 32 40 12.97 W 104	5 24.52
	1740.31	0.45	287.19	1740.20	13.55	5.16	13.76	0.28	607660.79	616168.98	N 32 40 12.97 W 104	5 24.53
	1834.77	0.40	224.87	1834.65	12.97	5.04	13.18	0.47	607660.87	616168.39	N 32 40 12.97 W 104	5 24.54
	1929.21	0.33	195.21	1929.09	12.68	4.54	12.87	0.21	607660.17	616168.09	N 32 40 12.96 W 104	5 24.54
	2023.56	0.25	125.15	2023.44	12.80	4.16	12.97	0.36	607659.79	616168.19	N 32 40 12.96 W 104	5 24.54
	2118.05	0.25	68.64	2117.93	13.16	4.12	13.33	0.25	607659.75	616168.55	N 32 40 12.96 W 104	5 24.53
	2212.42	0.26	357.04	2212.30	13.33	4.41	13.51	0.32	607660.04	616168.73	N 32 40 12.96 W 104	5 24.53
	2308.79	0.39	307.33	2308.67	13.05	4.81	13.24	0.32	607660.44	616168.46	N 32 40 12.97 W 104	5 24.53
	2401.50	0.35	284.69	2401.38	12.50	4.98	12.70	0.29	607660.81	616167.92	N 32 40 12.97 W 104	5 24.54
	2495.95	0.32	200.15	2495.82	12.13	4.71	12.32	0.38	607660.34	616167.54	N 32 40 12.97 W 104	5 24.55
	2590.44	0.29	153.92	2590.31	12.16	4.25	12.34	0.26	607659.88	616167.55	N 32 40 12.96 W 104	5 24.54
	2684.96	0.21	150.93	2684.83	12.36	3.88	12.52	0.09	607659.51	616167.74	N 32 40 12.96 W 104	5 24.54
	2779.55	0.18	133.12	2779.42	12.57	3.83	12.72	0.07	607659.26	616167.94	N 32 40 12.95 W 104	5 24.54
	2874.04	0.14	87.06	2873.91	12.79	3.53	12.94	0.14	607659.16	616168.16	N 32 40 12.95 W 104	5 24.54
	2968.69	0.12	34.67	2968.56	12.96	3.62	13.11	0.12	607659.25	616168.33	N 32 40 12.95 W 104	5 24.54
	3063.32	0.09	343.32	3063.19	12.99	3.77	13.15	0.10	607659.40	616168.37	N 32 40 12.96 W 104	5 24.54
	3157.78	0.26	3.00	3157.65	12.97	4.06	13.14	0.19	607659.69	616168.38	N 32 40 12.96 W 104	5 24.54
	3252.47	1.90	147.36	3252.33	13.87	2.95	14.00	2.24	607658.58	616169.21	N 32 40 12.95 W 104	5 24.53
	3346.85	4.69	43.14	3346.59	17.29	4.45	17.48	5.80	607660.08	616172.70	N 32 40 12.96 W 104	5 24.48
	3441.33	3.79	42.08	3440.81	21.82	9.58	22.21	0.96	607665.21	616177.43	N 32 40 13.01 W 104	5 24.43
	3535.63	1.38	44.96	3535.01	24.59	12.70	25.11	2.56	607668.33	616180.32	N 32 40 13.04 W 104	5 24.40
	3630.15	0.06	15.68	3629.52	25.38	13.56	25.92	1.40	607669.18	616181.14	N 32 40 13.05 W 104	5 24.39
	3724.33	0.05	257.80	3723.70	25.35	13.59	25.90	0.10	607669.22	616181.11	N 32 40 13.05 W 104	5 24.39
	3818.83	0.05	89.76	3818.20	25.35	13.59	25.90	0.11	607669.21	616181.12	N 32 40 13.05 W 104	5 24.39
	3913.19	0.05	134.18	3912.56	25.42	13.56	25.97	0.04	607669.19	616181.19	N 32 40 13.05 W 104	5 24.39
	4007.59	0.03	96.68	4006.96	25.48	13.53	26.02	0.03	607669.15	616181.24	N 32 40 13.05 W 104	5 24.38
	4102.10	0.02	99.88	4101.47	25.52	13.52	26.06	0.01	607669.15	616181.28	N 32 40 13.05 W 104	5 24.38
	4196.59	0.01	5.01	4195.96	25.53	13.53	26.08	0.02	607669.15	616181.30	N 32 40 13.05 W 104	5 24.38
	4291.24	0.04	307.65	4290.81	25.51	13.55	26.05	0.04	607669.18	616181.27	N 32 40 13.05 W 104	5 24.38
	4385.75	0.05	315.31	4385.12	25.45	13.60	26.00	0.01	607669.23	616181.22	N 32 40 13.05 W 104	5 24.38
	4480.27	0.02	304.73	4479.64	25.41	13.64	25.96	0.03	607669.27	616181.18	N 32 40 13.05 W 104	5 24.39
	4574.68	0.02	291.90	4574.05	25.38	13.66	25.93	0.00	607669.29	616181.15	N 32 40 13.05 W 104	5 24.39
	4669.16	0.02	293.20	4668.53	25.35	13.67	25.90	0.00	607669.30	616181.12	N 32 40 13.05 W 104	5 24.39
	4763.63	0.00	29.87	4763.00	25.33	13.68	25.88	0.02	607669.31	616181.10	N 32 40 13.05 W 104	5 24.39
	4858.26	0.03	94.49	4857.63	25.35	13.67	25.91	0.03	607669.30	616181.13	N 32 40 13.05 W 104	5 24.39
	4952.85	0.03	39.37	4952.22	25.39	13.69	25.95	0.03	607669.32	616181.17	N 32 40 13.05 W 104	5 24.39
	5047.59	0.02	48.91	5046.96	25.42	13.72	25.98	0.01	607669.35	616181.19	N 32 40 13.05 W 104	5 24.39
	5142.19	0.03	19.89	5141.56	25.44	13.76	26.00	0.02	607669.39	616181.21	N 32 40 13.05 W 104	5 24.38
	5236.71	0.04	18.09	5236.08	25.46	13.81	26.01	0.01	607669.44	616181.23	N 32 40 13.05 W 104	5 24.38
	5331.23	0.02	47.66	5330.60	25.48	13.85	26.04	0.03	607669.48	616181.26	N 32 40 13.06 W 104	5 24.38
	5425.93	0.02	49.25	5425.30	25.50	13.88	26.06	0.00	607669.50	616181.28	N 32 40 13.06 W 104	5 24.38
	5520.45	0.02	54.43	5519.82	25.53	13.90	26.09	0.00	607669.52	616181.31	N 32 40 13.06 W 104	5 24.38
	5615.17	0.03	58.52	5614.54	25.56	13.92	26.12	0.01	607669.55	616181.34	N 32 40 13.06 W 104	5 24.38
	5709.77	0.02	66.81	5709.14	25.60	13.94	26.16	0.01	607669.57	616181.38	N 32 40 13.06 W 104	5 24.38
	5804.29	0.02	79.78	5803.66	25.63	13.95	26.19	0.00	607669.58	616181.41	N 32 40 13.06 W 104	5 24.38
	5898.83	0.03	12.21	5898.20	25.65	13.97	26.21	0.03	607669.60	616181.43	N 32 40 13.06 W 104	5 24.38
	5993.45	0.02	24.13	5992.82	25.66	14.01	26.22	0.01	607669.64	616181.44	N 32 40 13.06 W 104	5 24.38
	6087.97	0.06	20.91	6087.34	25.68	14.08	26.25	0.04	607669.70	616181.47	N 32 40 13.06 W 104	5 24.38
	6182.51	0.79	108.38	6181.88	26.32	13.92	26.88	0.84	607669.54	616182.10	N 32 40 13.07 W 104	5 24.37
	6277.03	2.26	119.78	6276.38	26.60	12.78	29.12	1.58	607668.41	616184.34	N 32 40 13.04 W 104	5 24.35
	6371.71	4.14	122.73	6370.89	31.20	10.01	33.62	1.99	607665.64	616188.83	N 32 40 13.02 W 104	5 24.30
	6466.22	4.96	132.26	6465.10	39.27	5.42	39.51	1.18	607661.05	616194.73	N 32 40 12.97 W 104	5 24.23
	6560.77	5.42	135.75	6559.27	45.64	-0.53	45.65	0.59	607655.10	616200.87	N 32 40 12.91 W 104	5 24.16
	6655.37	5.90	137.11	6653.40	52.32	-7.29	52.08	0.53	607648.34	616207.29	N 32 40 12.85 W 104	5 24.08
	6749.63	6.48	139.71	6747.11	59.35	-14.90	58.81	0.68	607640.73	616214.03	N 32 40 12.77 W 104	5 24.00
	6844.22	7.28	140.68	6841.02	66.93	-23.61	66.06	0.85	607632.02	616221.28	N 32 40 12.68 W 104	5 23.92
	6936.44	8.21	145.97	6934.38	74.87	-33.80	73.61	1.24	607621.83	616228.83	N 32 40 12.58 W 104	5 23.83

Comments	MD	Incl	Azim	TVD	VSEC	NS	EW	DLS	Northing	Easting	Latitude	Longitude
(°)	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(1/1000)	(ft)	(ft)	(N 32.0 W 104.0)	(E 92.0 W 104.0)
	7222.31	8.65		7214.99	59.64	-72.13	96.50	0.60	607583.51	616252.11	N 32.0 W 104.0	E 92.0 W 104.0
	7316.82	10.45		7400.55	100.06	-86.25	105.77	0.76	607569.38	616270.90	N 32.0 W 104.0	E 92.0 W 104.0
	7411.56	11.99		7460.55	120.54	-101.09	116.69	2.02	607554.35	616271.98	N 32.0 W 104.0	E 92.0 W 104.0
	7506.07	13.21		7482.57	135.06	-116.22	130.63	2.04	607539.42	616255.83	N 32.0 W 104.0	E 92.0 W 104.0
	7600.71	14.32		7564.79	152.47	-131.14	147.47	1.70	607524.50	616302.68	N 32.0 W 104.0	E 92.0 W 104.0
	7695.11	15.76		7676.09	171.93	-145.33	166.37	1.05	607509.71	616321.41	N 32.0 W 104.0	E 92.0 W 104.0
	7789.82	17.14		7787.60	192.31	-160.18	186.21	0.83	607495.47	616350.31	N 32.0 W 104.0	E 92.0 W 104.0
	7884.44	18.66		7859.28	211.94	-173.53	205.11	1.32	607481.72	616380.05	N 32.0 W 104.0	E 92.0 W 104.0
	7978.88	19.86		7951.14	229.99	-187.54	222.84	0.42	607468.10	616394.11	N 32.0 W 104.0	E 92.0 W 104.0
	8073.82	20.86		8043.40	246.57	-201.15	238.91	2.02	607459.98	616394.11	N 32.0 W 104.0	E 92.0 W 104.0
	8168.28	21.35		8135.80	261.07	-215.67	252.85	1.11	607442.29	616408.05	N 32.0 W 104.0	E 92.0 W 104.0
	8262.66	22.35		8228.30	274.37	-231.36	265.55	1.08	607424.29	616420.75	N 32.0 W 104.0	E 92.0 W 104.0
	8357.56	23.38		8320.59	290.04	-246.10	280.65	4.34	607409.55	616435.85	N 32.0 W 104.0	E 92.0 W 104.0
	8452.11	24.38		8410.54	317.27	-263.45	307.52	12.33	607392.77	616462.42	N 32.0 W 104.0	E 92.0 W 104.0
	8546.33	25.31		8495.12	337.28	-285.89	327.52	6.33	607379.00	616492.18	N 32.0 W 104.0	E 92.0 W 104.0
	8641.37	26.31		8575.66	357.28	-305.77	347.27	8.55	607379.00	616515.83	N 32.0 W 104.0	E 92.0 W 104.0
	8735.73	27.31		8654.55	377.28	-325.57	366.66	10.64	607360.09	616541.63	N 32.0 W 104.0	E 92.0 W 104.0
	8830.19	28.31		8730.16	397.28	-346.22	386.13	15.17	607342.50	616567.30	N 32.0 W 104.0	E 92.0 W 104.0
	8924.79	29.31		8804.50	417.28	-367.33	406.13	11.04	607322.50	616594.39	N 32.0 W 104.0	E 92.0 W 104.0
	9019.31	30.31		8876.67	437.28	-387.44	426.13	13.07	607302.50	616624.39	N 32.0 W 104.0	E 92.0 W 104.0
	9113.82	31.31		8948.06	457.28	-407.55	446.13	15.17	607282.50	616654.39	N 32.0 W 104.0	E 92.0 W 104.0
	9208.00	32.31		9019.31	477.28	-427.66	466.13	17.17	607262.50	616684.39	N 32.0 W 104.0	E 92.0 W 104.0
	9302.00	33.31		9090.59	497.28	-447.77	486.13	19.17	607242.50	616714.39	N 32.0 W 104.0	E 92.0 W 104.0
	9406.00	34.31		9161.80	517.28	-467.88	506.13	21.17	607222.50	616744.39	N 32.0 W 104.0	E 92.0 W 104.0
	9510.00	35.31		9233.01	537.28	-487.99	526.13	23.17	607202.50	616774.39	N 32.0 W 104.0	E 92.0 W 104.0
	9614.00	36.31		9304.22	557.28	-508.10	546.13	25.17	607182.50	616804.39	N 32.0 W 104.0	E 92.0 W 104.0
	9718.00	37.31		9375.43	577.28	-528.21	566.13	27.17	607162.50	616834.39	N 32.0 W 104.0	E 92.0 W 104.0
	9822.00	38.31		9446.64	597.28	-548.32	586.13	29.17	607142.50	616864.39	N 32.0 W 104.0	E 92.0 W 104.0
	9926.00	39.31		9517.85	617.28	-568.43	606.13	31.17	607122.50	616894.39	N 32.0 W 104.0	E 92.0 W 104.0
	10070.00	40.31		9589.06	637.28	-588.54	626.13	33.17	607102.50	616924.39	N 32.0 W 104.0	E 92.0 W 104.0
	10174.00	41.31		9660.27	657.28	-608.65	646.13	35.17	607082.50	616954.39	N 32.0 W 104.0	E 92.0 W 104.0
	10278.00	42.31		9731.48	677.28	-628.76	666.13	37.17	607062.50	616984.39	N 32.0 W 104.0	E 92.0 W 104.0
	10382.00	43.31		9802.69	697.28	-648.87	686.13	39.17	607042.50	617014.39	N 32.0 W 104.0	E 92.0 W 104.0
	10486.00	44.31		9873.90	717.28	-668.98	706.13	41.17	607022.50	617044.39	N 32.0 W 104.0	E 92.0 W 104.0
	10590.00	45.31		9945.11	737.28	-689.09	726.13	43.17	607002.50	617074.39	N 32.0 W 104.0	E 92.0 W 104.0
	10694.00	46.31		10016.32	757.28	-709.20	746.13	45.17	606982.50	617104.39	N 32.0 W 104.0	E 92.0 W 104.0
	10798.00	47.31		10087.53	777.28	-729.31	766.13	47.17	606962.50	617134.39	N 32.0 W 104.0	E 92.0 W 104.0
	10902.00	48.31		10158.74	797.28	-749.42	786.13	49.17	606942.50	617164.39	N 32.0 W 104.0	E 92.0 W 104.0
	11006.00	49.31		10229.95	817.28	-769.53	806.13	51.17	606922.50	617194.39	N 32.0 W 104.0	E 92.0 W 104.0
	11110.00	50.31		10301.16	837.28	-789.64	826.13	53.17	606902.50	617224.39	N 32.0 W 104.0	E 92.0 W 104.0
	11214.00	51.31		10372.37	857.28	-809.75	846.13	55.17	606882.50	617254.39	N 32.0 W 104.0	E 92.0 W 104.0
	11318.00	52.31		10443.58	877.28	-829.86	866.13	57.17	606862.50	617284.39	N 32.0 W 104.0	E 92.0 W 104.0
	11422.00	53.31		10514.79	897.28	-849.97	886.13	59.17	606842.50	617314.39	N 32.0 W 104.0	E 92.0 W 104.0
	11526.00	54.31		10586.00	917.28	-870.08	906.13	61.17	606822.50	617344.39	N 32.0 W 104.0	E 92.0 W 104.0
	11630.00	55.31		10657.21	937.28	-890.19	926.13	63.17	606802.50	617374.39	N 32.0 W 104.0	E 92.0 W 104.0
	11734.00	56.31		10728.42	957.28	-910.30	946.13	65.17	606782.50	617404.39	N 32.0 W 104.0	E 92.0 W 104.0
	11838.00	57.31		10800.00	977.28	-930.41	966.13	67.17	606762.50	617434.39	N 32.0 W 104.0	E 92.0 W 104.0
	11942.00	58.31		10871.21	997.28	-950.52	986.13	69.17	606742.50	617464.39	N 32.0 W 104.0	E 92.0 W 104.0
	12046.00	59.31		10942.42	1017.28	-970.63	1006.13	71.17	606722.50	617494.39	N 32.0 W 104.0	E 92.0 W 104.0
	12150.00	60.31		11013.63	1037.28	-990.74	1026.13	73.17	606702.50	617524.39	N 32.0 W 104.0	E 92.0 W 104.0
	12254.00	61.31		11084.84	1057.28	-1010.85	1046.13	75.17	606682.50	617554.39	N 32.0 W 104.0	E 92.0 W 104.0
	12358.00	62.31		11156.05	1077.28	-1030.96	1066.13	77.17	606662.50	617584.39	N 32.0 W 104.0	E 92.0 W 104.0
	12462.00	63.31		11227.26	1097.28	-1051.07	1086.13	79.17	606642.50	617614.39	N 32.0 W 104.0	E 92.0 W 104.0
	12566.00	64.31		11298.47	1117.28	-1071.18	1106.13	81.17	606622.50	617644.39	N 32.0 W 104.0	E 92.0 W 104.0
	12670.00	65.31		11369.68	1137.28	-1091.29	1126.13	83.17	606602.50	617674.39	N 32.0 W 104.0	E 92.0 W 104.0
	12774.00	66.31		11440.89	1157.28	-1111.40	1146.13	85.17	606582.50	617704.39	N 32.0 W 104.0	E 92.0 W 104.0
	12878.00	67.31		11512.10	1177.28	-1131.51	1166.13	87.17	606562.50	617734.39	N 32.0 W 104.0	E 92.0 W 104.0
	12982.00	68.31		11583.31	1197.28	-1151.62	1186.13	89.17	606542.50	617764.39	N 32.0 W 104.0	E 92.0 W 104.0
	13086.00	69.31		11654.52	1217.28	-1171.73	1206.13	91.17	606522.50	617794.39	N 32.0 W 104.0	E 92.0 W 104.0
	13190.00	70.31		11725.73	1237.28	-1191.84	1226.13	93.17	606502.50	617824.39	N 32.0 W 104.0	E 92.0 W 104.0
	13294.00	71.31		11796.94	1257.28	-1211.95	1246.13	95.17	606482.50	617854.39	N 32.0 W 104.0	E 92.0 W 104.0
	13398.00	72.31		11868.15	1277.28	-1232.06	1266.13	97.17	606462.50	617884.39	N 32.0 W 104.0	E 92.0 W 104.0
	13502.00	73.31		11939.36	1297.28	-1252.17	1286.13	99.17	606442.50	617914.39	N 32.0 W 104.0	E 92.0 W 104.0
	13606.00	74.31		12010.57	1317.28	-1272.28	1306.13	101.17	606422.50	617944.39	N 32.0 W 104.0	E 92.0 W 104.0
	13710.00	75.31		12081.78	1337.28	-1292.39	1326.13	103.17	606402.50	617974.39	N 32.0 W 104.0	E 92.0 W 104.0
	13814.00	76.31		12152.99	1357.28	-1312.50	1346.13	105.17	606382.50	618004.39	N 32.0 W 104.0	E 92.0 W 104.0
	13918.00	77.31		12224.20	1377.28	-1332.61	1366.13	107.17	606362.50	618034.39	N 32.0 W 104.0	E 92.0 W 104.0
	14022.00	78.31		12295.41	1397.28	-1352.72	1386.13	109.17	606342.50	618064.39	N 32.0 W 104.0	E 92.0 W 104.0
	14126.00	79.31		12366.62	1417.28	-1372.83	1406.13	111.17	606322.50	618094.39	N 32.0 W 104.0	E 92.0 W 104.0
	14230.00	80.31		12437.83	1437.28	-1392.94	1426.13	113.17	606302.50	618124.39	N 32.0 W 104.0	E 92.0 W 104.0
	14334.00	81.31		12509.04	1457.28	-1413.05	1446.13	115.17	606282.50	618154.39	N 32.0 W 104.0	E 92.0 W 104.0
	14438.00	82.31		12580.25	1477.28	-1433.16	1466.13	117.17	606262.50	618184.39	N 32.0 W 104.0	E 92.0 W 104.0
	14542.00	83.31		12651.46	1497.28	-1453.27	1486.13	119.17	606242.50	618214.39	N 32.0 W 104.0	E 92.0 W 104.0
	14646.00	84.31		12722.67	1517.28	-1473.38	1506.13	121.17	606222.50	618244.39	N 32.0 W 104.0	E 92.0 W 104.0
	14750.00	85.31		12793.88	1537.28	-1493.49	1526.13	123.17	606202.50	618274.39	N 32.0 W 104.0	E 92.0 W 104.0
	14854.00	86.31		12865.09	1557.28	-1513.60	1546.13	125.17	606182.50	618304.39	N 32.0 W 104.0	E 92.0 W 104.0
	14958.00	87.31		12936.30	1577.28	-1533.71	1566.13	127.17	606162.50	618334.39	N 32.0 W 104.0	E 92.0 W 104.0
	15062.00	88.31		13007.51	1597.28	-1553.82	1586.13	129.17	606142.50	618364.39	N 32.0 W 104.0	E 92.0 W 104.0
	15166.00	89.31		13078.72								

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 ° ' ")
	18455.00	90.14	89.67	8923.98	10134.27	-412.73	10125.88	0.26	607242.94	626280.22	N 32 40 8.59 W 104 3 26.25	
	18549.00	90.10	89.85	8923.78	10228.18	-412.33	10219.88	0.20	607243.33	626374.21	N 32 40 8.59 W 104 3 25.15	
	18644.00	90.24	89.49	8923.50	10323.09	-411.78	10314.88	0.41	607243.88	626469.20	N 32 40 8.59 W 104 3 24.04	
	18738.00	89.93	89.48	8923.36	10416.98	-410.94	10408.87	0.33	607244.73	626563.19	N 32 40 8.60 W 104 3 22.94	
	18833.00	90.00	89.56	8923.42	10511.87	-410.14	10503.87	0.11	607245.52	626658.18	N 32 40 8.61 W 104 3 21.83	
	18928.00	90.10	89.63	8923.33	10606.77	-409.47	10598.87	0.13	607246.19	626753.17	N 32 40 8.61 W 104 3 20.72	
	19022.00	90.38	89.84	8922.94	10700.68	-409.04	10692.86	0.37	607246.63	626847.16	N 32 40 8.61 W 104 3 19.62	
	19116.00	90.00	89.57	8922.63	10794.59	-408.55	10786.86	0.50	607247.11	626941.15	N 32 40 8.61 W 104 3 18.52	
Final MWD	19204.00	89.76	89.41	8922.81	10882.49	-407.77	10874.86	0.33	607247.89	627029.14	N 32 40 8.62 W 104 3 17.49	
Survey	19245.00	89.76	89.41	8922.98	10923.44	-407.35	10915.86	0.00	607248.32	627070.13	N 32 40 8.62 W 104 3 17.01	
Proj. to Bit												

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 Turkey Track 9-10 State 34H Gyro+MWD 0-19.245'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 9-10 State 34H Gyro+MWD 0-19.245'
	1	26.500	9211.460	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 9-10 State 34H Gyro+MWD
	1	9211.460	19245.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Turkey Track 9-10 State 34H Gyro+MWD