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Schlumberger

Oxy Turkey Track 4-3 State 34H Gyro+MWD(IFR1) 0-18,968' Survey

Geodetic Report (Def Survey)

30-015-44432



Report Date: July 10, 2018 - 12:01 AM
Client: OXY
Field: NM Eddy County (NAD 83)
Structure / Slot: Oxy Turkey Track 4-3 State 34H / Oxy Turkey Track 4-3 State 34H
Well: Oxy Turkey Track 4-3 State 34H
Borehole: Original Borehole
UWI / API#: Unknown / 30-015-44432
Survey Name: Oxy Turkey Track 4-3 State 34H Gyro+MWD(IFR1) 0-18,968'
Survey Date: June 21, 2018
Tort / AHD / DDI / ERD Ratio: 184.705' / 11415.483 R / 6.652 / 1.281
Coordinate Reference System: NAD83 New Mexico State Plane, Eastern Zone, US Feet
Location Lat / Long: N 32° 41' 11.06155", W 104° 5' 13.79802"
Location Grid N/E Y/X: N 613533.550 RUS, E 617072.540 RUS
CRS Grid Convergence Angle: 0.1329°
Grid Scale Factor: 0.99991566
Version / Patch: 2.10.720.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 95.995° (Grid North)
Vertical Section Origin: 0.000 R, 0.000 R
TVD Reference Datum: RKB-26.5'
TVD Reference Elevation: 3434.600 ft above MSL
Seabed / Ground Elevation: 3408.100 ft above MSL
Magnetic Declination: 7.394°
Total Gravity Field Strength: 998.5142mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 48085.456 nT
Magnetic Dip Angle: 60.485°
Declination Date: June 21, 2018
Magnetic Declination Model: HDGM 2018
North Reference: Grid North
Grid Convergence Used: 0.1329°
Total Corr Mag North→Grid: 7.2612°
North: 7.2612°
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSE (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ft)	Easting (ft)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
RKB	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	613533.55	617072.54	N 32° 41' 11.06" W 104° 5' 13.80"	5 13.80
SHL	26.50	0.00	0.00	26.50	0.00	0.00	0.00	0.00	613533.55	617072.54	N 32° 41' 11.06" W 104° 5' 13.80"	5 13.80
	99.00	0.10	350.97	99.00	-0.02	0.06	-0.01	0.14	613533.61	617072.53	N 32° 41' 11.06" W 104° 5' 13.80"	5 13.80
	158.10	0.25	336.60	158.10	-0.09	0.23	-0.07	0.28	613533.78	617072.47	N 32° 41' 11.06" W 104° 5' 13.80"	5 13.80
	216.30	0.50	205.49	216.30	-0.24	0.12	-0.23	1.19	613533.67	617072.31	N 32° 41' 11.06" W 104° 5' 13.80"	5 13.80
Last Gyro	273.90	0.63	263.24	273.90	-0.63	-0.15	-0.65	0.97	613533.40	617071.89	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	421.00	0.13	325.68	420.99	-1.53	-0.10	-1.55	0.40	613533.45	617070.99	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	483.00	0.07	180.27	482.99	-1.57	-0.08	-1.59	0.31	613533.47	617070.95	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	607.00	0.07	242.30	606.99	-1.63	-0.19	-1.66	0.06	613533.36	617070.88	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	760.00	0.07	85.84	759.99	-1.61	-0.23	-1.65	0.09	613533.32	617070.89	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	853.00	0.07	344.48	852.99	-1.58	-0.17	-1.60	0.12	613533.38	617070.94	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	944.00	0.09	20.35	943.99	-1.58	-0.05	-1.59	0.06	613533.50	617070.95	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1036.00	0.07	224.43	1035.99	-1.60	-0.02	-1.61	0.17	613533.53	617070.93	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1128.00	0.07	173.02	1127.99	-1.62	-0.12	-1.64	0.07	613533.43	617070.90	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1219.00	0.13	68.20	1218.99	-1.52	-0.14	-1.54	0.18	613533.41	617071.00	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1402.00	0.07	239.69	1401.99	-1.42	-0.11	-1.44	0.11	613533.44	617071.10	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	1493.00	0.09	142.98	1492.99	-1.42	-0.20	-1.45	0.13	613533.35	617071.09	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	1585.00	0.07	205.30	1584.99	-1.39	-0.31	-1.43	0.09	613533.24	617071.11	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	1677.00	0.07	33.12	1676.99	-1.38	-0.31	-1.42	0.15	613533.24	617071.12	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	1767.00	0.13	259.31	1766.99	-1.45	-0.29	-1.49	0.21	613533.26	617071.05	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1860.00	0.07	64.15	1859.99	-1.51	-0.28	-1.54	0.21	613533.27	617071.00	N 32° 41' 11.06" W 104° 5' 13.82"	5 13.82
	1952.00	0.09	64.96	1951.99	-1.40	-0.22	-1.43	0.02	613533.33	617071.11	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2044.00	0.07	158.91	2043.99	-1.31	-0.25	-1.34	0.13	613533.30	617071.20	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2139.00	0.13	80.58	2138.99	-1.18	-0.28	-1.21	0.14	613533.27	617071.33	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2423.00	0.09	194.16	2422.99	-0.90	-0.45	-0.95	0.07	613533.10	617071.59	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2518.00	0.07	94.30	2517.99	-0.85	-0.52	-0.91	0.13	613533.03	617071.63	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2612.00	0.07	277.52	2611.99	-0.85	-0.52	-0.91	0.15	613533.03	617071.63	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2707.00	0.07	207.88	2706.99	-0.93	-0.56	-1.00	0.08	613532.99	617071.54	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2802.00	0.13	37.13	2801.99	-0.90	-0.53	-0.96	0.21	613533.02	617071.58	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2896.00	0.13	245.71	2895.99	-0.93	-0.49	-0.99	0.27	613533.06	617071.55	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	2907.00	0.07	116.25	2906.99	-0.94	-0.50	-1.00	1.66	613533.05	617071.54	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	3102.00	0.09	102.01	3101.99	-0.68	-0.58	-0.74	0.01	613532.97	617071.80	N 32° 41' 11.06" W 104° 5' 13.81"	5 13.81
	3198.00	1.18	223.19	3197.98	-1.20	-1.32	-1.34	1.28	613532.23	617071.20	N 32° 41' 11.05" W 104° 5' 13.81"	5 13.81
	3292.00	3.92	222.55	3291.88	-3.70	-4.39	-4.18	2.92	613529.16	617068.38	N 32° 41' 11.02" W 104° 5' 13.85"	5 13.85
	3387.00	6.05	221.72	3386.52	-8.55	-10.52	-9.71	2.24	613523.03	617066.83	N 32° 41' 10.96" W 104° 5' 13.91"	5 13.91
	3482.00	8.29	216.49	3480.77	-14.95	-19.76	-17.11	2.45	613513.79	617055.43	N 32° 41' 10.87" W 104° 5' 14.00"	5 14.00
	3671.00	12.87	203.72	3668.53	-28.29	-50.01	-33.69	2.71	613483.54	617038.85	N 32° 41' 10.57" W 104° 5' 14.19"	5 14.19
	3765.00	13.77	200.94	3758.00	-34.36	-70.04	-41.90	1.17	613463.51	617030.64	N 32° 41' 10.37" W 104° 5' 14.29"	5 14.29
	3860.00	13.47	202.24	3850.33	-40.37	-90.84	-50.13	0.45	613442.71	617022.41	N 32° 41' 10.16" W 104° 5' 14.39"	5 14.39
	3955.00	13.41	202.38	3942.73	-46.57	-111.27	-58.51	0.07	613422.29	617014.03	N 32° 41' 9.96" W 104° 5' 14.49"	5 14.49
	4049.00	13.40	202.31	4034.17	-52.71	-131.43	-66.80	0.02	613402.13	617005.75	N 32° 41' 9.76" W 104° 5' 14.58"	5 14.58
	4144.00	13.38	200.93	4128.59	-58.63	-151.88	-74.90	0.34	613381.69	617005.75	N 32° 41' 9.56" W 104° 5' 14.68"	5 14.68
	4238.00	13.38	198.59	4218.04	-63.81	-172.35	-82.28	0.58	613361.22	616997.64	N 32° 41' 9.36" W 104° 5' 14.77"	5 14.77
	4333.00	12.78	194.75	4310.57	-67.80	-192.93	-88.44	1.11	613340.64	616984.11	N 32° 41' 9.15" W 104° 5' 14.84"	5 14.84
	4427.00	13.23	191.97	4402.16	-70.50	-213.51	-97.69	0.82	613320.07	616979.23	N 32° 41' 8.95" W 104° 5' 14.90"	5 14.90
	4521.00	13.16	191.58	4493.68	-72.66	-234.51	-102.25	0.12	613299.06	616974.86	N 32° 41' 8.74" W 104° 5' 14.95"	5 14.95
	4618.00	12.84	183.06	4586.25	-75.02	-255.39	-107.16	0.49	613278.19	616970.30	N 32° 41' 8.54" W 104° 5' 15.00"	5 15.00
	4711.00	12.52	194.18	4678.93	-77.78	-275.65	-107.16	0.42	613257.92	616965.39	N 32° 41' 8.34" W 104° 5' 15.06"	5 15.06
	4805.00	12.55	195.86	4770.69	-80.98	-295.35	-112.44	0.39	613238.22	616960.11	N 32° 41' 8.14" W 104° 5' 15.12"	5 15.12
	4900.00	12.62	198.52	4863.41	-85.00	-315.12	-118.56	0.61	613218.45	616953.99	N 32° 41' 7.95" W 104° 5' 15.19"	5 15.19
	4994.00	12.30	200.70	4955.19	-89.77	-334.23	-125.36	0.61	613199.35	616947.19	N 32° 41' 7.76" W 104° 5' 15.27"	5 15.27
	5089.00	11.91	202.47	5048.08	-95.12	-352.75	-132.69	0.57	613180.83	616939.87	N 32° 41' 7.57" W 104° 5' 15.36"	5 15.36
	5183.00	11.91	204.53	5140.06	-100.95	-370.54	-140.42	0.45	613163.04	616932.13	N 32° 41' 7.40" W 104° 5' 15.45"	5 15.45
	5278.00	12.03	205.43	5232.89	-107.36	-388.40	-148.74	0.23	613145.19	616923.81	N 32° 41' 7.22" W 104° 5' 15.55"	5 15.55
	5373.00	12.03	204.67	5325.91	-113.82	-406.33	-157.12	0.17	613127.25	616915.43	N 32° 41' 7.04" W 104° 5' 15.65"	5 15.65
	5467.00	11.85	201.59	5417.87	-119.56	-424.21	-164.76	0.70	613109.38	616907.79	N 32° 41' 6.87" W 104° 5' 15.74"	5 15.74
	5562.00	11.88	201.03	5510.84	-124.71	-442.41	-171.86	0.13	613091.18	616900.69	N 32° 41' 6.69" W 104° 5' 15.82"	5 15.82
	5656.00	11.80	198.76	5602.84	-129.35	-460.54	-178.43	0.50	613073.05	616894.13	N 32° 41' 6.51" W 104° 5' 15.90"	5 15.90
	5751.00	11.65	197.59	5695.86	-133.42	-478.88	-184.45	0.30	613054.71	616888.11	N 32° 41' 6.33" W 104° 5' 15.97"	5 15.97
	5845.00	11.67	195.86	5787.92	-136.96	-497.07	-189.91	0.37	613036.52	616882.64	N 32° 41' 6.15" W 104° 5' 16.03"	5 16.03
	5940.00	11.75	193.90	5880.95	-139.93	-515.70	-194.86	0.43	613017.89	616877.69	N 32° 41' 5.96" W 104° 5' 16.09"	5 16.09
	6035.00	11.78	191.98	5973.95	-142.28	-534.58	-199.20	0.41	612999.02	616873.38	N 32° 41' 5.78" W 104° 5' 16.14"	5 16.14
	6129.00	11.56	190.69	6066.01	-144.05	-553.22	-202.94	0.36	612980.38	616869.62	N 32° 41' 5.59" W 104° 5' 16.19"	5 16.19
	6223.00	11.12	189.97	6158.17	-145.45	-571.40	-206.26	0.49	612962.19	616866.30	N 32° 41' 5.41" W 104° 5' 16.23"	5 16.23
	6318.00	11.01	189.92	6251.41	-146.70	-589.36	-212.89	0.65	612944.24	616863.15	N 32° 41' 5.23" W 104° 5' 16.26"	5 16.26
	6412.00	11.46	192.01	6343.61	-148.30	-607.34	-217.36	0.12	612926.26	616859.66	N 32° 41' 5.06" W 104° 5' 16.31"	5 16.31
	6507.00	11.27	195.63	6436.74	-150.84	-625.51	-222.98	0.78	612908.09	616855.20	N 32° 41' 4.88" W 104° 5' 16.36"	5 16.36
	6601.00	11.25	200.08	6528.94	-154.86	-643.67	-227.70	0.92	612890.64	616849.58	N 32° 41' 4.70" W 104° 5' 16.42"	5 16.42
	6696.00	11.51	204.25	6622.11	-159.87	-661.11	-230.07	0.98	612873.50	616842.49	N 32° 41' 4.54" W 104° 5' 16.51"	5 16.51
	6885.00	11.										

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S + °)	Longitude (E/W + °)
	7735.00	10.57	161.06	7641.94	-193.54	-845.14	-283.36	1.71	612688.48	616789.20	N 32 41	2.71 W 104 5 17.1
	7830.00	10.96	153.96	7735.28	-185.08	-861.50	-278.57	1.45	612672.12	616795.99	N 32 41	2.54 W 104 5 17.06
	7924.00	11.27	150.04	7827.51	-174.94	-877.49	-268.06	0.87	612656.14	616804.50	N 32 41	2.39 W 104 5 16.96
	8019.00	10.88	142.56	7920.75	-163.33	-892.65	-257.97	1.57	612640.98	616814.59	N 32 41	2.24 W 104 5 16.84
	8120.00	9.78	140.78	8020.11	-150.69	-906.86	-246.75	1.13	612626.76	616825.81	N 32 41	2.09 W 104 5 16.71
	8214.00	9.44	139.18	8112.79	-139.40	-918.88	-236.67	0.46	612614.75	616835.89	N 32 41	1.98 W 104 5 16.59
	8309.00	15.12	120.07	8205.62	-122.39	-931.00	-220.83	7.28	612602.63	616851.73	N 32 41	1.85 W 104 5 16.41
	8403.00	22.52	113.62	8294.54	-93.89	-944.38	-193.69	8.17	612589.25	616878.87	N 32 41	1.72 W 104 5 16.09
	8498.00	31.91	121.33	8378.95	-53.66	-964.77	-155.48	10.54	612568.86	616917.08	N 32 41	1.52 W 104 5 15.64
	8593.00	34.76	118.49	8458.32	-6.13	-980.75	-110.22	3.42	612542.88	616962.33	N 32 41	1.26 W 104 5 15.11
	8687.00	38.27	105.88	8533.96	47.40	-1011.54	-58.58	8.80	612522.10	617013.97	N 32 41	1.05 W 104 5 14.51
	8782.00	48.64	96.68	8602.78	112.39	-1023.79	5.49	12.95	612509.84	617078.03	N 32 41	0.93 W 104 5 13.76
	8876.00	60.58	93.57	8657.00	188.95	-1030.48	81.77	12.78	612503.16	617154.30	N 32 41	0.86 W 104 5 12.87
	8971.00	74.15	90.83	8693.49	276.22	-1033.74	169.18	14.53	612499.90	617241.70	N 32 41	0.83 W 104 5 11.85
	9065.00	77.61	89.35	8716.41	366.88	-1033.87	260.32	3.98	612498.77	617332.84	N 32 41	0.83 W 104 5 10.78
	9160.00	83.07	86.15	8732.35	459.52	-1030.18	353.85	6.64	612503.46	617426.36	N 32 41	0.86 W 104 5 9.69
	9254.00	88.18	85.87	8739.52	551.79	-1023.68	447.32	5.44	612509.98	617519.82	N 32 41	0.92 W 104 5 8.59
	9349.00	89.36	87.85	8741.56	645.56	-1018.45	542.15	2.43	612515.18	617614.64	N 32 41	0.97 W 104 5 7.48
	9517.00	89.61	85.49	8743.07	811.32	-1008.70	709.85	1.41	612524.94	617782.33	N 32 41	1.06 W 104 5 5.52
	9612.00	89.81	86.48	8743.55	904.87	-1002.04	804.61	1.06	612531.59	617877.08	N 32 41	1.13 W 104 5 4.41
	9708.00	89.48	89.26	8744.14	997.92	-998.55	888.53	2.98	612535.08	617971.00	N 32 41	1.16 W 104 5 3.31
	9803.00	89.53	90.24	8744.96	1092.35	-998.14	993.53	1.03	612535.50	618065.98	N 32 41	1.16 W 104 5 2.20
	9895.00	89.92	90.21	8745.41	1185.87	-998.51	1087.53	0.42	612535.13	618159.97	N 32 41	1.16 W 104 5 1.10
	9990.00	89.64	90.16	8745.77	1280.38	-998.81	1182.53	0.30	612534.82	618254.96	N 32 41	1.15 W 104 5 0.99
	10085.00	89.59	90.13	8746.41	1374.88	-999.05	1277.52	0.06	612534.58	618349.95	N 32 41	1.15 W 104 5 0.88
	10274.00	88.52	90.16	8749.53	1562.87	-999.53	1466.49	0.57	612534.10	618538.91	N 32 41	1.14 W 104 5 0.67
	10368.00	88.80	90.51	8751.73	1656.39	-1000.08	1560.47	0.48	612533.56	618632.87	N 32 41	1.13 W 104 5 0.57
	10462.00	88.52	90.13	8753.92	1749.90	-1000.61	1654.44	0.50	612533.03	618726.84	N 32 41	1.12 W 104 5 0.47
	10551.00	88.36	90.34	8759.07	1937.88	-1001.38	1843.37	0.14	612532.26	618915.75	N 32 41	1.11 W 104 5 0.28
	10746.00	87.51	90.40	8762.49	2032.36	-1001.99	1938.30	0.90	612531.64	619010.68	N 32 41	1.10 W 104 5 0.15
	10838.00	87.62	90.35	8766.40	2123.63	-1002.60	2030.22	0.13	612531.04	619102.58	N 32 41	1.09 W 104 5 0.07
	10930.00	87.46	90.36	8770.35	2215.30	-1003.16	2122.13	0.17	612530.47	619194.49	N 32 41	1.09 W 104 5 0.00
	11021.00	87.51	90.28	8774.34	2305.77	-1003.87	2213.04	0.10	612529.96	619285.39	N 32 41	1.08 W 104 5 0.93
	11113.00	87.51	90.21	8778.34	2397.22	-1004.07	2304.95	0.08	612529.57	619377.30	N 32 41	1.07 W 104 5 0.86
	11204.00	87.96	90.56	8781.94	2487.71	-1004.68	2395.88	0.63	612528.96	619468.21	N 32 41	1.07 W 104 5 0.79
	11295.00	88.24	90.03	8784.95	2578.21	-1005.14	2486.83	0.66	612528.49	619559.15	N 32 41	1.06 W 104 5 0.72
	11387.00	88.47	89.88	8787.59	2669.66	-1005.07	2578.79	0.30	612528.56	619651.11	N 32 41	1.06 W 104 5 0.65
	11479.00	89.03	90.07	8789.60	2761.13	-1005.03	2670.77	0.64	612528.60	619743.08	N 32 41	1.05 W 104 5 0.58
	11570.00	89.03	90.08	8791.14	2851.64	-1005.15	2761.76	0.01	612528.49	619834.06	N 32 41	1.05 W 104 5 0.51
	11662.00	89.03	90.08	8792.70	2943.13	-1005.28	2853.74	0.00	612528.36	619926.04	N 32 41	1.05 W 104 5 0.44
	11753.00	89.59	90.09	8793.80	3033.64	-1005.41	2944.74	0.62	612528.22	620017.02	N 32 41	1.04 W 104 5 0.37
	11845.00	89.48	89.97	8794.54	3125.14	-1005.46	3036.73	0.18	612528.17	620109.01	N 32 41	1.04 W 104 5 0.30
	11937.00	89.70	90.04	8795.20	3216.64	-1005.47	3128.73	0.25	612528.17	620201.00	N 32 41	1.04 W 104 5 0.23
	12029.00	89.20	90.12	8796.08	3308.14	-1005.60	3220.73	0.55	612528.04	620292.99	N 32 41	1.04 W 104 5 0.16
	12122.00	89.31	90.14	8797.29	3400.65	-1005.81	3313.72	0.12	612527.83	620385.97	N 32 41	1.03 W 104 5 0.09
	12208.00	88.52	90.25	8800.81	3585.66	-1006.44	3499.68	0.43	612527.19	620571.92	N 32 41	1.02 W 104 5 0.02
	12401.00	88.58	90.07	8803.17	3678.15	-1006.70	3592.65	0.20	612526.93	620664.88	N 32 41	1.02 W 104 5 0.95
	12501.00	88.47	90.27	8805.74	3777.60	-1007.00	3682.62	0.23	612526.84	620764.84	N 32 41	1.01 W 104 5 0.88
	12596.00	88.52	90.06	8808.24	3872.07	-1007.27	3787.58	0.23	612526.36	620859.80	N 32 41	1.01 W 104 5 0.81
	12690.00	88.52	90.19	8810.67	3965.55	-1007.48	3881.55	0.14	612526.16	620953.78	N 32 41	1.00 W 104 5 0.74
	12785.00	88.64	90.09	8813.02	4060.03	-1007.71	3976.52	0.16	612525.93	621048.72	N 32 41	0.99 W 104 5 0.67
	12974.00	88.69	90.06	8817.42	4247.97	-1007.96	4165.47	0.03	612525.68	621237.65	N 32 41	0.99 W 104 5 0.60
	13081.00	88.92	90.02	8819.65	4354.37	-1008.03	4272.45	0.22	612525.60	621344.62	N 32 41	0.99 W 104 5 0.53
	13163.00	88.58	89.91	8821.44	4435.89	-1007.98	4354.43	0.44	612525.65	621426.59	N 32 41	0.99 W 104 5 0.46
	13257.00	88.52	90.05	8823.82	4529.35	-1007.95	4448.40	0.16	612525.63	621520.55	N 32 41	0.98 W 104 5 0.39
	13352.00	88.58	90.02	8826.23	4623.80	-1008.01	4543.37	0.07	612525.76	621615.52	N 32 41	0.98 W 104 5 0.32
	13446.00	88.30	89.82	8828.78	4717.24	-1007.88	4637.33	0.37	612525.76	621709.47	N 32 41	0.98 W 104 5 0.25
	13635.00	88.07	89.49	8834.77	4904.99	-1006.74	4826.23	0.21	612526.00	621898.36	N 32 41	0.99 W 104 5 0.18
	13729.00	89.03	90.07	8837.15	4998.40	-1006.38	4920.20	1.19	612527.26	621992.32	N 32 41	0.99 W 104 5 0.11
	13919.00	89.08	90.05	8840.28	5187.36	-1006.58	5110.18	0.03	612527.06	622182.27	N 32 41	0.98 W 104 5 0.04
	14013.00	89.14	90.06	8841.74	5280.84	-1006.67	5204.16	0.06	612526.97	622276.26	N 32 41	0.98 W 104 5 0.97
	14108.00	89.59	89.98	8842.80	5373.32	-1006.70	5299.16	0.48	612526.94	622371.24	N 32 41	0.97 W 104 5 0.90
	14203.00	89.59	89.90	8843.48	5469.79	-1006.60	5394.16	0.08	612527.04	622466.23	N 32 41	0.97 W 104 5 0.83
	14297.00	89.70	89.74	8844.06	5563.24	-1006.31	5488.15	0.21	612527.33	622560.22	N 32 41	0.97 W 104 5 0.76
	14391.00	89.59	89.69	8844.64	5656.69	-1006.00	5582.15	0.20	612527.63	622654.21	N 32 41	0.97 W 104 5 0.69
	14486.00	89.53	90.05	8845.37	5751.17	-1005.95	5677.15	0.18	612527.68	622749.20	N 32 41	0.97 W 104 5 0.62
	14580.00	89.64	89.86	8846.05	5844.64	-1005.88	5771.15	0.23	612527.76	622843.19	N 32 41	0.97 W 104 5 0.55
	14675.00	89.53	89.88	8846.74	5939.09	-1005.65	5866.14	0.12	612527.99	622938.18	N 32 41	0.97 W 104 5 0.48
	14770.00	89.59	89.82	8847.47	6033.54	-1005.38	5961.14	0.08	612528.26	623033.17	N 32 41	0.97 W 104 5 0.41
	14864.00	89.53	89.87	8848.19	6127.00	-1005.13	6055.14	0.08	612528.51	623127.15	N 32 41	0.97 W 104 5 0.34
	14959.00	89.76	89.59	8848.78	6221.43	-1004.68	6150.13	0.38	612528.96	623222.14	N 32 41	0.97 W 104 5 0.27
	15053.00	89.53	89.74	8849.36	6314.86	-1004.13	6244.13	0.29	612529.51	623316.13	N 32 41	0.98 W 104 5 0.20
	15148.00	89.48	89.75	8850.18	6409.29	-1003.71	6339.13	0.05	612529.93	623411.12	N 32 41	0.98 W 104 5 0.13
	15243.00	89.59	89.68	8850.95	6503.71	-1003.23	6434.12	0.14	612530.40	623506.11	N 32 41	0.98 W 104 5 0.06
	15337.00	89.70	89.58	8851.54	6597.13	-1002.83	6528.12	0.16	612531.01	623600.09	N 32 41	0.98 W 104 5 0.99
	15432.00	89.59	89.87	8852.12	6691.56	-1002.17	6623.11	0.33	612531.47	623695.08	N 32 41	0.99 W 104 5 0.92
	15527.00	89.72	90.10	8852.70	6786.04	-1002.15	6718.11	0.28	612531.49	623790.07	N 32 41	0.98 W 104 5 0.85
	15621.00	88.71										

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 ° ' ")
	18838.00	89.33	89.56	8911.73	10078.44	-1015.12	10027.25	0.51	612518.51	627098.93	N 32 41 0.77	W 104 3 16.51
Final MWD	18932.00	89.38	89.81	8912.79	10171.84	-1014.44	10121.25	0.08	612519.20	627192.91	N 32 41 0.78	W 104 3 15.41
Proj. to Bit	18968.00	89.38	89.81	8913.18	10207.62	-1014.20	10157.24	0.00	612519.44	627228.91	N 32 41 0.78	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 4-3 State 34H Gyro+MWD(IFR1) 0-18,968'
	1	26.500	26.500	Act Stns	30.000	30.000	NAL_NSG+MSHOT-Depth Only	Original Borehole / Oxy Turkey Track 4-3 State 34H Gyro+MWD(IFR1) 0-18,968'
	1	26.500	273.900	Act Stns	30.000	30.000	NAL_NSG+MSHOT	Original Borehole / Oxy Turkey Track 4-3 State 34H
	1	273.900	18968.000	Act Stns	30.000	30.000	NAL_MWD_IFR1+MS	Original Borehole / Oxy Turkey Track 4-3 State 34H

...Original Borehole\Oxy Turkey Track 4-3 State 34H Gyro+MWD(IFR1) 0-18,968'

Schlumberger

OXY

