

Schlumberger

Navajo Lake 103 Final Survey Report

Report Date: November 19, 2007	Survey / DLS Computation Method: Minimum Curvature / Lubinski
Client: Energen Resources	Vertical Section Azimuth: 341.940°
Field: NM, Rio Arriba (NAD83)	Vertical Section Origin: N 0.000 ft, E 0.000 ft
Structure / Slot: Energen 24-32N-6W / Energen 24-32N-6W (Navajo Lake 103)	TVD Reference Datum:
Well: Navajo Lake 103	TVD Reference Elevation: 6667.0 ft relative to MSL
Borehole: Navajo Lake 103	Sea Bed / Ground Level Elevation: 6652.000 ft relative to MSL
UWI/API#:	Magnetic Declination: 10.261°
Survey Name / Date: Navajo Lake 103_Final Surveys_0' to 8155' / November 19, 2007	Total Field Strength: 51272.616 nT
Tort / AHD / DDI / ERD ratio: 316.877° / 5619.43 ft / 6.648 / 1.721	Magnetic Dip: 63.838°
Grid Coordinate System: NAD83 New Mexico State Planes, Central Zone, US Feet	Declination Date: November 19, 2007
Location Lat/Long: N 36 58 16.246, W 107 24 31.273	Magnetic Declination Model: BGGM 2007
Location Grid N/E Y/X: N 2174862.490 ftUS, E 1301942.210 ftUS	North Reference: True North
Grid Convergence Angle: -0.69691107°	Total Corr Mag North -> True North: +10.261°
Grid Scale Factor: 1.00003108	Local Coordinates Referenced To: Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2174862.49	1301942.21	N 36 58 16.246	W 107 24 31.273
Begin SLB MWD Surveys	352.00	0.59	207.41	351.99	-1.27	-1.61	-0.83	0.17	2174860.89	1301941.36	N 36 58 16.230	W 107 24 31.283
	826.00	0.79	216.35	825.96	-4.88	-6.41	-3.89	0.05	2174856.13	1301938.24	N 36 58 16.183	W 107 24 31.321
	1321.00	1.66	236.39	1320.84	-8.79	-13.12	-11.89	0.19	2174849.51	1301930.16	N 36 58 16.116	W 107 24 31.419
	1531.00	1.76	254.47	1530.75	-9.47	-15.67	-17.53	0.26	2174847.03	1301924.49	N 36 58 16.091	W 107 24 31.489
	1586.00	1.56	256.28	1585.73	-9.37	-16.08	-19.07	0.38	2174846.65	1301922.95	N 36 58 16.087	W 107 24 31.508
	1647.00	2.30	278.16	1646.69	-8.77	-16.10	-21.09	1.69	2174846.65	1301920.93	N 36 58 16.087	W 107 24 31.533
	1707.00	4.10	296.40	1706.60	-6.73	-14.97	-24.20	3.41	2174847.81	1301917.83	N 36 58 16.098	W 107 24 31.571
	1765.00	5.70	300.70	1764.39	-3.11	-12.58	-28.54	2.83	2174850.26	1301913.52	N 36 58 16.122	W 107 24 31.625
	1826.00	7.13	310.36	1825.00	2.39	-8.58	-34.03	2.93	2174854.32	1301908.08	N 36 58 16.161	W 107 24 31.692
	1886.00	8.64	318.71	1884.44	9.70	-2.78	-39.84	3.15	2174860.19	1301902.34	N 36 58 16.218	W 107 24 31.764
	1947.00	10.14	321.64	1944.62	18.95	4.87	-46.19	2.58	2174867.92	1301896.08	N 36 58 16.294	W 107 24 31.842
	2011.00	11.35	323.98	2007.50	30.22	14.38	-53.39	2.01	2174877.52	1301888.99	N 36 58 16.388	W 107 24 31.931
	2063.00	14.68	325.84	2058.15	41.43	23.97	-60.10	6.45	2174887.19	1301882.40	N 36 58 16.483	W 107 24 32.014
	2133.00	16.60	327.98	2125.56	59.65	39.79	-70.39	2.86	2174903.14	1301872.31	N 36 58 16.639	W 107 24 32.140
	2194.00	18.17	329.11	2183.77	77.38	55.34	-79.89	2.63	2174918.80	1301863.00	N 36 58 16.793	W 107 24 32.257
	2252.00	21.16	331.48	2238.38	96.50	72.31	-89.53	5.33	2174935.88	1301853.56	N 36 58 16.961	W 107 24 32.376
	2315.00	24.19	331.61	2296.51	120.39	93.66	-101.10	4.81	2174957.37	1301842.25	N 36 58 17.172	W 107 24 32.519
	2376.00	26.67	332.25	2351.59	146.18	116.77	-113.42	4.09	2174980.64	1301830.21	N 36 58 17.401	W 107 24 32.671
	2438.00	28.91	332.91	2406.44	174.70	142.43	-126.73	3.65	2175006.46	1301817.22	N 36 58 17.654	W 107 24 32.835
	2501.00	31.63	331.79	2460.84	206.01	170.55	-141.47	4.41	2175034.75	1301802.82	N 36 58 17.932	W 107 24 33.016
	2565.00	33.40	333.79	2514.81	239.97	201.15	-157.19	3.24	2175065.54	1301787.48	N 36 58 18.235	W 107 24 33.210
	2630.00	34.58	334.34	2568.70	275.96	233.83	-173.08	1.88	2175098.41	1301771.98	N 36 58 18.558	W 107 24 33.406
	2689.00	36.97	335.87	2616.57	310.21	265.11	-187.58	4.32	2175129.87	1301757.86	N 36 58 18.867	W 107 24 33.585
	2753.00	38.93	336.76	2667.03	349.37	301.16	-203.39	3.18	2175166.11	1301742.50	N 36 58 19.224	W 107 24 33.779
	2816.00	40.71	338.73	2715.42	389.60	338.50	-218.65	3.46	2175203.63	1301727.69	N 36 58 19.593	W 107 24 33.967
	2876.00	42.96	339.23	2760.12	429.57	375.85	-233.00	3.79	2175241.16	1301713.79	N 36 58 19.962	W 107 24 34.144
	2936.00	46.19	339.18	2802.86	471.62	415.21	-247.95	5.38	2175280.70	1301699.32	N 36 58 20.351	W 107 24 34.328
	2996.00	49.32	338.82	2843.19	515.98	456.67	-263.87	5.24	2175322.35	1301683.91	N 36 58 20.761	W 107 24 34.525
	3059.00	52.40	339.18	2882.95	564.77	502.29	-281.37	4.91	2175368.18	1301666.96	N 36 58 21.212	W 107 24 34.740
	3121.00	53.85	338.30	2920.16	614.29	548.50	-299.36	2.60	2175414.61	1301649.53	N 36 58 21.669	W 107 24 34.962
	3183.00	56.16	337.10	2955.71	664.93	595.49	-318.64	4.05	2175461.83	1301630.83	N 36 58 22.134	W 107 24 35.200
	3247.00	57.24	336.31	2990.85	718.20	644.62	-339.79	1.98	2175511.21	1301610.27	N 36 58 22.620	W 107 24 35.460
	3309.00	58.36	335.97	3023.89	770.39	692.60	-361.02	1.87	2175559.45	1301589.63	N 36 58 23.094	W 107 24 35.722
	3375.00	61.04	335.30	3057.18	827.03	744.50	-384.53	4.15	2175611.63	1301566.76	N 36 58 23.607	W 107 24 36.012
	3435.00	64.37	335.47	3084.69	879.99	792.97	-406.73	5.56	2175660.37	1301545.14	N 36 58 24.086	W 107 24 36.285
	3500.00	67.88	334.90	3111.00	939.01	846.90	-431.68	5.46	2175714.61	1301520.85	N 36 58 24.620	W 107 24 36.593
	3563.00	68.49	334.33	3134.41	997.02	899.75	-456.75	1.28	2175767.75	1301496.42	N 36 58 25.142	W 107 24 36.902
	3625.00	69.42	333.94	3156.67	1054.34	951.81	-481.99	1.61	2175820.12	1301471.81	N 36 58 25.657	W 107 24 37.213
	3686.00	72.30	333.79	3176.67	1111.39	1003.54	-507.38	4.73	2175872.16	1301447.06	N 36 58 26.168	W 107 24 37.525
	3746.00	74.05	334.17	3194.04	1168.27	1055.15	-532.57	2.98	2175924.07	1301422.50	N 36 58 26.679	W 107 24 37.836
	3809.00	75.64	334.96	3210.51	1228.57	1110.06	-558.68	2.80	2175979.30	1301397.05	N 36 58 27.222	W 107 24 38.158
	3871.00	79.25	334.73	3223.98	1288.62	1164.83	-584.40	5.83	2176034.38	1301372.00	N 36 58 27.763	W 107 24 38.475
	3933.00	82.59	334.82	3233.77	1349.35	1220.21	-610.49	5.39	2176090.07	1301346.59	N 36 58 28.311	W 107 24 38.796
	3997.00	82.59	334.63	3242.02	1412.32	1277.60	-637.59	0.29	2176147.79	1301320.19	N 36 58 28.878	W 107 24 39.130

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
7" Csg	4058.00	82.16	333.86	3250.11	1472.23	1332.05	-663.86	1.44	2176202.56	1301294.58	N 36 58 29.416	W 107 24 39.454
	4122.00	83.08	333.00	3258.34	1535.00	1388.82	-692.25	1.96	2176259.67	1301266.88	N 36 58 29.978	W 107 24 39.804
	4183.00	86.90	331.83	3263.66	1594.92	1442.67	-720.39	6.55	2176313.85	1301239.41	N 36 58 30.510	W 107 24 40.151
	4234.00	90.24	330.00	3264.93	1644.95	1487.21	-745.16	7.47	2176358.70	1301215.17	N 36 58 30.951	W 107 24 40.456
	4249.00	90.68	330.48	3264.81	1659.64	1500.23	-752.61	4.36	2176371.81	1301207.88	N 36 58 31.079	W 107 24 40.548
	4273.00	91.38	331.26	3264.38	1683.19	1521.20	-764.29	4.36	2176392.91	1301196.46	N 36 58 31.287	W 107 24 40.692
	4300.00	91.34	332.44	3263.74	1709.76	1545.00	-777.02	4.37	2176416.87	1301184.01	N 36 58 31.522	W 107 24 40.849
	4336.00	92.17	335.92	3262.64	1745.41	1577.38	-792.69	9.93	2176449.44	1301168.74	N 36 58 31.842	W 107 24 41.042
	4361.00	92.72	335.89	3261.57	1770.25	1600.18	-802.89	2.20	2176472.37	1301158.82	N 36 58 32.068	W 107 24 41.167
	4398.00	94.51	333.35	3259.24	1806.87	1633.54	-818.72	8.39	2176505.92	1301143.40	N 36 58 32.397	W 107 24 41.362
	4426.00	95.58	333.80	3256.78	1834.47	1658.52	-831.13	4.14	2176531.04	1301131.29	N 36 58 32.644	W 107 24 41.515
	4463.00	96.20	333.18	3252.98	1870.87	1691.45	-847.56	2.36	2176564.18	1301115.27	N 36 58 32.970	W 107 24 41.718
	4492.00	96.55	332.87	3249.76	1899.34	1717.14	-860.63	1.61	2176590.02	1301102.51	N 36 58 33.224	W 107 24 41.879
	4526.00	95.80	336.35	3246.10	1932.86	1747.67	-875.12	10.41	2176620.73	1301088.39	N 36 58 33.526	W 107 24 42.057
	4555.00	95.38	336.75	3243.28	1961.60	1774.15	-886.60	2.00	2176647.34	1301077.22	N 36 58 33.788	W 107 24 42.199
	4588.00	94.72	337.70	3240.37	1994.36	1804.46	-899.33	3.50	2176677.80	1301064.87	N 36 58 34.087	W 107 24 42.356
	4618.00	93.96	337.63	3238.10	2024.19	1832.13	-910.70	2.54	2176705.61	1301053.84	N 36 58 34.361	W 107 24 42.496
	4652.00	94.20	336.34	3235.68	2057.98	1863.34	-923.96	3.85	2176736.98	1301040.96	N 36 58 34.669	W 107 24 42.659
	4682.00	93.34	335.38	3233.71	2087.74	1890.66	-936.20	4.29	2176764.45	1301029.05	N 36 58 34.940	W 107 24 42.810
	4716.00	92.86	337.60	3231.87	2121.54	1921.79	-949.74	6.67	2176795.74	1301015.89	N 36 58 35.247	W 107 24 42.977
	4743.00	92.99	336.71	3230.49	2148.41	1946.64	-960.21	3.33	2176820.72	1301005.72	N 36 58 35.493	W 107 24 43.106
	4778.00	92.72	339.80	3228.75	2183.29	1979.10	-973.16	8.85	2176853.34	1300993.17	N 36 58 35.814	W 107 24 43.266
	4809.00	92.65	336.30	3227.30	2214.18	2007.82	-984.73	11.28	2176882.20	1300981.94	N 36 58 36.098	W 107 24 43.408
	4841.00	92.93	339.71	3225.74	2246.06	2037.45	-996.70	10.68	2176911.97	1300970.34	N 36 58 36.391	W 107 24 43.556
	4871.00	93.03	339.62	3224.18	2275.99	2065.54	-1007.11	0.45	2176940.19	1300960.27	N 36 58 36.669	W 107 24 43.684
	4904.00	91.45	337.89	3222.89	2308.92	2096.27	-1019.06	7.10	2176971.06	1300948.69	N 36 58 36.973	W 107 24 43.832
	4934.00	90.58	335.99	3222.36	2338.80	2123.87	-1030.81	6.96	2176998.80	1300937.28	N 36 58 37.245	W 107 24 43.976
	4967.00	89.55	335.01	3222.32	2371.59	2153.90	-1044.49	4.31	2177029.00	1300923.96	N 36 58 37.542	W 107 24 44.145
	4997.00	89.31	337.42	3222.62	2401.43	2181.35	-1056.59	8.07	2177056.59	1300912.20	N 36 58 37.814	W 107 24 44.294
	5029.00	91.27	337.09	3222.46	2433.32	2210.86	-1068.96	6.21	2177086.25	1300900.19	N 36 58 38.105	W 107 24 44.447
	5060.00	91.79	335.29	3221.63	2464.16	2239.21	-1081.47	6.04	2177114.75	1300888.02	N 36 58 38.386	W 107 24 44.601
	5095.00	91.34	339.16	3220.67	2499.02	2271.46	-1095.01	11.13	2177147.17	1300874.88	N 36 58 38.705	W 107 24 44.768
	5123.00	90.38	340.51	3220.25	2526.99	2297.74	-1104.66	5.92	2177173.56	1300865.54	N 36 58 38.964	W 107 24 44.887
	5158.00	89.35	341.88	3220.34	2561.99	2330.87	-1115.95	4.90	2177206.83	1300854.67	N 36 58 39.292	W 107 24 45.026
	5190.00	88.35	338.37	3220.98	2593.96	2360.95	-1126.82	11.40	2177237.04	1300844.16	N 36 58 39.590	W 107 24 45.160
	5224.00	88.07	340.11	3222.04	2627.91	2392.73	-1138.87	5.18	2177268.96	1300832.50	N 36 58 39.904	W 107 24 45.308
	5253.00	88.86	339.90	3222.82	2656.88	2419.97	-1148.78	2.82	2177296.32	1300822.92	N 36 58 40.173	W 107 24 45.430
	5287.00	89.11	341.62	3223.42	2690.87	2452.06	-1159.98	5.11	2177328.55	1300812.11	N 36 58 40.490	W 107 24 45.568
	5313.00	88.76	343.56	3223.90	2716.86	2476.87	-1167.76	7.58	2177353.45	1300804.63	N 36 58 40.736	W 107 24 45.664
	5349.00	88.83	341.40	3224.66	2752.85	2511.19	-1178.59	6.00	2177387.90	1300794.22	N 36 58 41.075	W 107 24 45.798
	5379.00	89.30	341.22	3225.15	2782.84	2539.60	-1188.20	1.68	2177416.43	1300784.95	N 36 58 41.356	W 107 24 45.916
	5415.00	90.45	343.38	3225.23	2818.84	2573.90	-1199.15	6.80	2177450.86	1300774.42	N 36 58 41.695	W 107 24 46.051
	5441.00	90.65	342.43	3224.98	2844.83	2598.75	-1206.79	3.73	2177475.80	1300767.08	N 36 58 41.941	W 107 24 46.145
	5480.00	91.03	341.37	3224.41	2883.83	2635.81	-1218.91	2.89	2177513.01	1300755.42	N 36 58 42.307	W 107 24 46.295
	5505.00	91.82	343.88	3223.78	2908.82	2659.66	-1226.37	10.52	2177536.95	1300748.25	N 36 58 42.543	W 107 24 46.387
	5542.00	92.99	341.51	3222.23	2945.78	2694.95	-1237.36	7.14	2177572.37	1300737.68	N 36 58 42.892	W 107 24 46.522
	5569.00	92.86	343.55	3220.85	2972.74	2720.67	-1245.46	7.56	2177598.19	1300729.90	N 36 58 43.146	W 107 24 46.622
	5604.00	92.41	340.20	3219.24	3007.70	2753.89	-1256.33	9.65	2177631.54	1300719.43	N 36 58 43.475	W 107 24 46.756
	5632.00	92.03	340.39	3218.16	3035.66	2780.24	-1265.77	1.52	2177658.00	1300710.32	N 36 58 43.735	W 107 24 46.872
	5665.00	91.27	339.90	3217.21	3068.63	2811.26	-1276.97	2.74	2177689.16	1300699.49	N 36 58 44.042	W 107 24 47.010
	5693.00	89.52	341.45	3217.02	3096.62	2837.68	-1286.24	8.35	2177715.69	1300690.55	N 36 58 44.303	W 107 24 47.125
	5732.00	87.73	339.52	3217.95	3135.60	2874.43	-1299.26	6.75	2177752.59	1300677.97	N 36 58 44.666	W 107 24 47.285
	5759.00	87.97	341.48	3218.97	3162.57	2899.86	-1308.26	7.31	2177778.13	1300669.28	N 36 58 44.918	W 107 24 47.396
	5795.00	88.93	337.78	3219.94	3198.52	2933.59	-1320.79	10.61	2177812.01	1300657.16	N 36 58 45.251	W 107 24 47.550
	5822.00	88.66	338.44	3220.51	3225.45	2958.64	-1330.85	2.64	2177837.18	1300647.40	N 36 58 45.499	W 107 24 47.674
	5857.00	89.00	339.46	3221.22	3260.40	2991.29	-1343.42	3.07	2177869.99	1300635.23	N 36 58 45.822	W 107 24 47.829
	5886.00	88.59	338.79	3221.83	3289.36	3018.38	-1353.75	2.71	2177897.20	1300625.23	N 36 58 46.090	W 107 24 47.957
	5920.00	89.55	336.87	3222.38	3323.26	3049.86	-1366.58	6.31	2177928.84	1300612.79	N 36 58 46.401	W 107 24 48.115
	5949.00	89.52	336.60	3222.62	3352.14	3076.50	-1378.03	0.94	2177955.62	1300601.66	N 36 58 46.664	W 107 24 48.256
	5985.00	89.52	340.30	3222.92	3388.07	3109.98	-1391.25	10.28	2177989.25	1300588.85	N 36 58 46.995	W 107 24 48.419
	6013.00	89.38	336.09	3223.19	3416.00	3135.97	-1401.65	15.04	2178015.37	1300578.76	N 36 58 47.252	W 107 24 48.547
	6048.00	88.73	336.34	3223.77	3450.82	3167.99	-1415.77	1.99	2178047.56	1300565.04	N 36 58 47.569	W 107 24 48.721
	6076.00	87.42	338.43	3224.71	3478.71	3193.82	-1426.53	8.81	2178073.52	1300554.60	N 36 58 47.824	W 107 24 48.854
	6109.00	88.35	339.08	3225.93	3511.64	3224.56	-1438.48	3.44	2178104.40	1300543.02	N 36 58 48.128	W 107 24 49.001
	6141.00	88.18	336.60	3226.89	3543.54	3254.18	-1450.54	7.76	2178134.17	1300531.32	N 36 58 48.421	W 107 24 49.150

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
	6172.00	88.18	339.22	3227.88	3574.45	3282.89	-1462.19	8.45	2178163.02	1300520.02	N 36 58 48.705	W 107 24 49.293
	6203.00	88.80	340.69	3228.70	3605.41	3312.00	-1472.81	5.14	2178192.25	1300509.75	N 36 58 48.993	W 107 24 49.424
	6236.00	88.76	339.20	3229.40	3638.39	3342.99	-1484.13	4.52	2178223.38	1300498.81	N 36 58 49.299	W 107 24 49.564
	6266.00	88.00	338.26	3230.25	3668.33	3370.93	-1495.00	4.03	2178251.46	1300488.28	N 36 58 49.575	W 107 24 49.698
	6299.00	87.00	340.33	3231.69	3701.26	3401.77	-1506.66	6.96	2178282.44	1300477.00	N 36 58 49.880	W 107 24 49.841
	6330.00	86.94	340.65	3233.33	3732.20	3430.95	-1517.00	1.05	2178311.74	1300467.01	N 36 58 50.169	W 107 24 49.969
	6362.00	87.28	341.04	3234.94	3764.16	3461.14	-1527.48	1.62	2178342.05	1300456.89	N 36 58 50.467	W 107 24 50.098
	6392.00	88.00	344.43	3236.17	3794.13	3489.76	-1536.38	11.54	2178370.78	1300448.35	N 36 58 50.750	W 107 24 50.208
	6425.00	89.72	341.01	3236.83	3827.11	3521.26	-1546.18	11.60	2178402.40	1300438.93	N 36 58 51.062	W 107 24 50.329
	6456.00	91.17	341.31	3236.59	3858.10	3550.60	-1556.19	4.78	2178431.86	1300429.28	N 36 58 51.352	W 107 24 50.452
	6489.00	92.13	345.83	3235.64	3891.07	3582.23	-1565.52	14.00	2178463.60	1300420.34	N 36 58 51.665	W 107 24 50.567
	6518.00	91.27	345.28	3234.78	3920.00	3610.30	-1572.75	3.52	2178491.76	1300413.45	N 36 58 51.942	W 107 24 50.656
	6550.00	89.69	344.63	3234.51	3951.95	3641.20	-1581.05	5.34	2178522.76	1300405.52	N 36 58 52.248	W 107 24 50.758
	6580.00	88.35	344.46	3235.02	3981.92	3670.11	-1589.05	4.50	2178551.76	1300397.88	N 36 58 52.533	W 107 24 50.857
	6607.00	87.56	345.25	3235.99	4008.86	3696.15	-1596.10	4.14	2178577.89	1300391.14	N 36 58 52.791	W 107 24 50.944
	6642.00	87.94	347.99	3237.36	4043.72	3730.17	-1604.19	7.90	2178612.01	1300383.47	N 36 58 53.127	W 107 24 51.044
	6669.00	89.14	349.95	3238.05	4070.50	3756.67	-1609.35	8.51	2178638.56	1300378.63	N 36 58 53.389	W 107 24 51.107
	6705.00	91.10	348.60	3237.97	4106.21	3792.03	-1616.05	6.61	2178674.01	1300372.36	N 36 58 53.739	W 107 24 51.190
	6732.00	92.17	348.29	3237.20	4133.02	3818.48	-1621.46	4.13	2178700.52	1300367.27	N 36 58 54.000	W 107 24 51.257
	6767.00	93.76	353.29	3235.39	4167.55	3852.97	-1627.05	14.97	2178735.07	1300362.10	N 36 58 54.341	W 107 24 51.325
	6793.00	94.27	350.16	3233.57	4193.10	3878.63	-1630.78	12.17	2178760.78	1300358.68	N 36 58 54.595	W 107 24 51.371
	6828.00	94.24	351.73	3230.97	4227.57	3913.10	-1636.27	4.47	2178795.31	1300353.61	N 36 58 54.936	W 107 24 51.439
	6853.00	94.03	352.02	3229.17	4252.13	3937.78	-1639.80	1.43	2178820.04	1300350.38	N 36 58 55.180	W 107 24 51.483
	6886.00	93.89	356.14	3226.89	4284.31	3970.52	-1643.19	12.46	2178852.82	1300347.39	N 36 58 55.504	W 107 24 51.525
	6912.00	93.96	354.97	3225.11	4309.52	3996.38	-1645.20	4.50	2178878.70	1300345.69	N 36 58 55.759	W 107 24 51.549
	6947.00	94.00	357.66	3222.68	4343.34	4031.22	-1647.45	7.67	2178913.57	1300343.87	N 36 58 56.104	W 107 24 51.577
	6974.00	93.37	357.00	3220.95	4369.32	4058.13	-1648.70	3.38	2178940.50	1300342.94	N 36 58 56.370	W 107 24 51.592
	7031.00	91.48	356.59	3218.54	4424.36	4114.99	-1651.89	3.39	2178997.39	1300340.45	N 36 58 56.932	W 107 24 51.632
	7064.00	90.28	354.04	3218.03	4456.46	4147.87	-1654.58	8.54	2179030.30	1300338.16	N 36 58 57.257	W 107 24 51.665
	7091.00	89.93	357.13	3217.98	4482.69	4174.79	-1656.66	11.52	2179057.24	1300336.40	N 36 58 57.523	W 107 24 51.691
	7124.00	90.00	355.69	3218.00	4514.65	4207.72	-1658.73	4.37	2179090.20	1300334.74	N 36 58 57.849	W 107 24 51.716
	7152.00	90.31	356.49	3217.92	4541.80	4235.66	-1660.64	3.06	2179118.16	1300333.17	N 36 58 58.125	W 107 24 51.740
	7184.00	91.14	356.33	3217.52	4572.78	4267.59	-1662.64	2.64	2179150.12	1300331.55	N 36 58 58.441	W 107 24 51.764
	7212.00	90.86	354.77	3217.03	4599.99	4295.50	-1664.81	5.66	2179178.05	1300329.72	N 36 58 58.717	W 107 24 51.791
	7245.00	90.41	355.18	3216.66	4632.14	4328.38	-1667.70	1.84	2179210.96	1300327.23	N 36 58 59.042	W 107 24 51.827
	7272.00	90.14	351.26	3216.53	4658.61	4355.18	-1670.89	14.55	2179237.80	1300324.37	N 36 58 59.307	W 107 24 51.866
	7304.00	89.86	351.30	3216.53	4690.18	4386.81	-1675.74	0.88	2179269.49	1300319.90	N 36 58 59.620	W 107 24 51.926
	7331.00	88.66	351.46	3216.88	4716.82	4413.50	-1679.79	4.48	2179296.23	1300316.18	N 36 58 59.884	W 107 24 51.976
	7365.00	89.21	352.57	3217.52	4750.28	4447.17	-1684.51	3.64	2179329.95	1300311.87	N 36 59 0.216	W 107 24 52.034
	7391.00	90.00	354.29	3217.69	4775.76	4472.99	-1687.48	7.28	2179355.81	1300309.21	N 36 59 0.472	W 107 24 52.071
	7429.00	89.93	356.97	3217.72	4812.68	4510.88	-1690.38	7.06	2179393.73	1300306.78	N 36 59 0.846	W 107 24 52.106
	7455.00	90.00	355.71	3217.73	4837.86	4536.83	-1692.04	4.85	2179419.69	1300305.43	N 36 59 1.103	W 107 24 52.127
	7487.00	89.93	354.42	3217.75	4869.02	4568.71	-1694.79	4.04	2179451.61	1300303.07	N 36 59 1.418	W 107 24 52.161
	7517.00	89.31	357.81	3217.95	4898.11	4598.63	-1696.82	11.49	2179481.56	1300301.40	N 36 59 1.714	W 107 24 52.186
	7577.00	88.59	358.63	3219.05	4955.69	4658.59	-1698.69	1.82	2179541.54	1300300.26	N 36 59 2.307	W 107 24 52.209
	7610.00	88.31	358.41	3219.94	4987.31	4691.57	-1699.54	1.08	2179574.52	1300299.81	N 36 59 2.633	W 107 24 52.220
	7636.00	88.21	358.68	3220.73	5012.21	4717.55	-1700.20	1.11	2179600.51	1300299.47	N 36 59 2.890	W 107 24 52.228
	7666.00	88.21	358.95	3221.67	5040.90	4747.53	-1700.82	0.90	2179630.49	1300299.21	N 36 59 3.186	W 107 24 52.235
	7695.00	88.38	356.28	3222.53	5068.81	4776.49	-1702.02	9.22	2179659.47	1300298.36	N 36 59 3.473	W 107 24 52.250
	7725.00	88.59	356.50	3223.33	5097.85	4806.42	-1703.91	1.01	2179689.42	1300296.84	N 36 59 3.769	W 107 24 52.274
	7758.00	89.55	355.03	3223.86	5129.89	4839.32	-1706.35	5.32	2179722.35	1300294.80	N 36 59 4.094	W 107 24 52.304
	7790.00	91.10	352.16	3223.68	5161.23	4871.12	-1709.92	10.19	2179754.19	1300291.62	N 36 59 4.408	W 107 24 52.348
	7816.00	91.89	352.12	3223.00	5186.81	4896.86	-1713.47	3.04	2179779.98	1300288.38	N 36 59 4.663	W 107 24 52.391
	7851.00	92.06	352.31	3221.80	5221.22	4931.52	-1718.21	0.73	2179814.69	1300284.06	N 36 59 5.005	W 107 24 52.450
	7878.00	92.06	352.18	3220.83	5247.77	4958.26	-1721.85	0.48	2179841.47	1300280.75	N 36 59 5.270	W 107 24 52.495
	7913.00	91.96	352.13	3219.60	5282.20	4992.91	-1726.63	0.32	2179876.18	1300276.39	N 36 59 5.612	W 107 24 52.554
	7940.00	92.17	351.50	3218.63	5308.78	5019.62	-1730.47	2.46	2179902.93	1300272.88	N 36 59 5.876	W 107 24 52.601
	7974.00	92.48	351.92	3217.25	5342.26	5053.23	-1735.37	1.53	2179936.60	1300268.39	N 36 59 6.209	W 107 24 52.661
	8001.00	92.20	352.67	3216.14	5368.80	5079.97	-1738.98	2.96	2179963.38	1300265.10	N 36 59 6.473	W 107 24 52.706
	8037.00	92.17	352.56	3214.77	5404.15	5115.64	-1743.61	0.32	2179999.11	1300260.91	N 36 59 6.826	W 107 24 52.763
	8064.00	93.21	356.30	3213.50	5430.47	5142.48	-1746.22	14.36	2180025.98	1300258.61	N 36 59 7.091	W 107 24 52.795
Last SLB MWD Survey	8096.00	94.72	356.47	3211.29	5461.39	5174.34	-1748.24	4.75	2180057.86	1300256.99	N 36 59 7.406	W 107 24 52.820
Projected TD	8155.00	94.72	356.47	3206.44	5518.31	5233.03	-1751.86	0.00	2180116.59	1300254.08	N 36 59 7.987	W 107 24 52.865

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
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Survey Type: Non-Def Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

0.00

15.00

8096.00

MD To (ft)

15.00

8096 00

8155 00

EOU Freq Survey Tool Type

Act-Stns SLB_MWD-STD-Depth Only

Act-Stns SLB_MWD-STD

Act-Stns SLB_BLIND+TREND

Borehole -> Survey

Navajo Lake 103 -> Navajo Lake 103_Final Surveys_0' to 8155'

Navajo Lake 103 -> Navajo Lake 103_Final Surveys_0' to 8155'

Navajo Lake 103 -> Navajo Lake 103_Final Surveys_0' to 8155'

**Italicized stations are NOT used in position calculations.*