

Survey Depth (ft)	Incl (°)	Azimuth (°)	Course Lgth (ft)	TVD (ft)	VS (ft)	Coordinates		DLS (°/100')	Bld Rate (°/100')	Wlk Rate (°/100')	Remarks
						N/S (ft)	E/W (ft)				
118	1.60	295.00	118	117.98	0.20	0.70	N 1.49 W	1.36	1.4	250.0	
206	0.90	318.40	88	205.96	0.70	1.73	N 3.07 W	0.97	-0.8	26.6	
297	1.70	8.30	91	296.94	2.39	3.60	N 3.35 W	1.44	0.9	-340.8	
387	2.60	13.90	90	386.88	5.74	6.91	N 2.66 W	1.03	1.0	6.2	
477	3.10	20.80	90	476.77	10.21	11.16	N 1.31 W	0.67	0.6	7.7	
567	5.00	18.10	90	566.54	16.56	17.17	N 0.78 E	2.12	2.1	-3.0	
656	5.90	25.00	89	655.14	24.98	25.00	N 3.91 E	1.25	1.0	7.8	
779	8.70	25.90	123	777.13	40.47	39.10	N 10.65 E	2.28	2.3	0.7	SURFACE TD @ 829MD
912	12.00	20.90	133	907.95	64.25	61.07	N 19.98 E	2.57	2.5	-3.8	
1006	14.20	17.40	94	999.50	85.55	81.20	N 26.91 E	2.49	2.3	-3.7	
1101	15.70	17.90	95	1091.28	110.05	104.55	N 34.35 E	1.58	1.6	0.5	
1196	17.50	19.20	95	1182.32	137.19	130.28	N 43.00 E	1.93	1.9	1.4	
1292	19.00	20.80	96	1273.48	167.23	158.52	N 53.29 E	1.65	1.6	1.7	
1387	20.00	17.20	95	1363.04	198.92	188.50	N 63.59 E	1.65	1.1	-3.8	
1482	21.00	16.50	95	1452.02	232.18	220.34	N 73.23 E	1.08	1.1	-0.7	
1577	21.70	16.90	95	1540.50	266.76	253.46	N 83.17 E	0.75	0.7	0.4	
1672	22.20	17.60	95	1628.61	302.27	287.38	N 93.70 E	0.59	0.5	0.7	
1767	22.40	17.80	95	1716.51	338.32	321.72	N 104.66 E	0.23	0.2	0.2	
1862	23.00	16.90	95	1804.15	374.97	356.71	N 115.59 E	0.73	0.6	-0.9	
1958	22.20	15.70	96	1892.78	411.85	392.12	N 125.95 E	0.96	-0.8	-1.3	
2053	21.70	17.40	95	1980.89	447.34	426.15	N 136.06 E	0.85	-0.5	1.8	
2148	22.60	18.50	95	2068.88	483.16	460.23	N 147.10 E	1.04	0.9	1.2	
2242	21.80	17.20	94	2155.91	518.67	494.03	N 158.00 E	1.00	-0.9	-1.4	
2336	21.70	17.20	94	2243.22	553.50	527.30	N 168.30 E	0.11	-0.1	0.0	
2431	22.20	18.50	95	2331.33	589.01	561.10	N 179.19 E	0.73	0.5	1.4	
2526	21.70	18.10	95	2419.45	624.52	594.82	N 190.34 E	0.55	-0.5	-0.4	
2621	22.20	17.90	95	2507.56	660.03	628.59	N 201.31 E	0.53	0.5	-0.2	
2717	22.70	16.20	96	2596.29	696.68	663.64	N 212.05 E	0.85	0.5	-1.8	
2812	22.70	15.80	95	2683.93	733.32	698.88	N 222.16 E	0.16	0.0	-0.4	
2907	22.30	16.50	95	2771.69	769.65	733.80	N 232.27 E	0.51	-0.4	0.7	
3001	22.40	18.50	94	2858.63	805.39	767.88	N 243.02 E	0.82	0.1	2.1	
3096	22.50	18.30	95	2946.43	841.67	802.30	N 254.47 E	0.13	0.1	-0.2	
3191	22.40	17.40	95	3034.24	877.94	836.84	N 265.59 E	0.38	-0.1	-0.9	
3287	22.10	16.70	96	3123.09	914.29	871.59	N 276.25 E	0.42	-0.3	-0.7	
3382	21.30	17.60	95	3211.35	949.41	905.15	N 286.60 E	0.91	-0.8	0.9	
3477	21.70	18.80	95	3299.74	984.22	938.22	N 297.48 E	0.63	0.4	1.3	
3572	21.70	18.60	95	3388.01	1019.35	971.50	N 308.74 E	0.08	0.0	-0.2	
3667	21.70	19.40	95	3476.28	1054.47	1004.71	N 320.17 E	0.31	0.0	0.8	
3763	22.00	18.30	96	3565.38	1090.19	1038.52	N 331.72 E	0.53	0.3	-1.1	
3858	21.50	20.10	95	3653.62	1125.38	1071.76	N 343.29 E	0.88	-0.5	1.9	
3952	21.80	20.40	94	3740.99	1160.04	1104.30	N 355.29 E	0.34	0.3	0.3	
4046	22.20	19.70	94	3828.15	1195.23	1137.38	N 367.36 E	0.51	0.4	-0.7	
4142	22.90	20.20	96	3916.80	1232.02	1171.98	N 379.92 E	0.76	0.7	0.5	
4237	22.00	19.20	95	4004.60	1268.28	1206.13	N 392.16 E	1.03	-0.9	-1.1	
4332	23.50	18.10	95	4092.21	1305.02	1240.94	N 403.89 E	1.64	1.6	-1.2	
4427	21.50	16.70	95	4179.98	1341.37	1275.62	N 414.78 E	2.18	-2.1	-1.5	
4522	21.10	16.40	95	4268.49	1375.86	1308.70	N 424.61 E	0.44	-0.4	-0.3	
4618	21.50	17.60	96	4357.93	1410.73	1342.05	N 434.81 E	0.62	0.4	1.3	
4712	22.20	20.20	94	4445.18	1445.70	1375.14	N 446.15 E	1.27	0.7	2.8	
4807	23.60	18.80	95	4532.69	1482.65	1409.98	N 458.48 E	1.58	1.5	-1.5	
4902	24.70	19.20	95	4619.37	1521.51	1446.73	N 471.14 E	1.17	1.2	0.4	
4997	23.60	17.10	95	4706.06	1560.37	1483.65	N 483.26 E	1.47	-1.2	-2.2	
5091	24.70	17.90	94	4791.83	1598.83	1520.33	N 494.82 E	1.22	1.2	0.9	
5186	25.10	16.90	95	4878.00	1638.82	1558.50	N 506.78 E	0.61	0.4	-1.1	
5281	25.20	14.10	95	4964.00	1679.15	1597.39	N 517.57 E	1.26	0.1	-2.9	
5376	24.50	13.40	95	5050.20	1718.96	1636.17	N 527.06 E	0.80	-0.7	-0.7	
5471	24.30	15.10	95	5136.72	1758.11	1674.20	N 536.72 E	0.77	-0.2	1.8	
5566	23.10	16.50	95	5223.70	1796.26	1710.95	N 547.10 E	1.40	-1.3	1.5	
5662	22.90	17.20	96	5312.07	1833.77	1746.85	N 557.97 E	0.35	-0.2	0.7	
5757	23.70	17.60	95	5399.32	1871.34	1782.70	N 569.21 E	0.86	0.8	0.4	
5852	22.30	20.40	95	5486.77	1908.44	1817.80	N 581.27 E	1.87	-1.5	2.9	
5946	21.10	20.80	94	5574.11	1943.16	1850.33	N 593.50 E	1.29	-1.3	0.4	
6041	19.60	18.60	95	5663.18	1976.18	1881.42	N 604.65 E	1.77	-1.6	-2.3	
6135	18.80	20.20	94	5751.95	2007.08	1910.58	N 614.91 E	1.02	-0.9	1.7	
6230	16.40	18.60	95	5842.50	2035.79	1937.66	N 624.47 E	2.58	-2.5	-1.7	
6325	14.20	20.40	95	5934.13	2060.85	1961.29	N 632.81 E	2.37	-2.3	1.9	
6420	12.50	17.90	95	6026.56	2082.77	1982.00	N 640.04 E	1.89	-1.8	-2.6	
6515	10.70	18.50	95	6119.61	2101.88	2000.15	N 646.00 E	1.90	-1.9	0.6	
6610	9.40	15.10	95	6213.15	2118.44	2016.00	N 650.82 E	1.50	-1.4	-3.6	
6705	7.00	10.70	95	6307.18	2131.93	2029.18	N 653.91 E	2.61	-2.5	-4.6	
6800	5.50	21.60	95	6401.61	2142.22	2039.11	N 656.66 E	2.01	-1.6	11.5	
6895	3.30	19.90	95	6496.33	2149.50	2045.91	N 659.27 E	2.32	-2.3	-1.8	
6990	1.30	0.00	95	6591.25	2153.26	2049.56	N 660.20 E	2.24	-2.1	-20.9	
7085	2.40	342.30	95	6686.20	2155.90	2052.53	N 659.60 E	1.29	1.2	360.3	
7179	1.10	41.50	94	6780.16	2158.32	2055.08	N 659.60 E	2.20	-1.4	-320.0	
7274	1.10	50.30	95	6875.14	2159.93	2056.35	N 660.90 E	0.18	0.0	9.3	
7369	0.90	53.30	95	6970.12	2161.31	2057.38	N 662.20 E	0.22	-0.2	3.2	
7463	0.80	65.20	94	7064.11	2162.36	2058.09	N 663.39 E	0.22	-0.1	12.7	
7558	0.60	71.90	95	7159.11	2163.10	2058.53	N 664.46 E	0.23	-0.2	7.1	
7654	1.10	97.40	96	7255.10	2163.57	2058.56	N 665.85 E	0.64	0.5	26.6	
7748	1.60	94.80	94	7349.07	2164.04	2058.34	N 668.06 E	0.54	0.5	-2.8	
7843	2.50	108.30	95	7444.01	2164.33	2057.58	N 671.35 E	1.07	0.9	14.2	
7939	2.40	101.10	96	7539.92	2164.56	2056.53	N 675.31 E	0.34	-0.1	-7.5	
8064	1.50	81.40	125	7664.85	2165.61	2056.27	N 679.49 E	0.89	-0.7	-15.8	TD SURVEY
8114	1.50	81.40	50	7714.83	2166.20	2056.47	N 680.79 E	0.00	0.0	0.0	PROJECTION TO BIT

Surveys			
N/S	E/W	VS	TVD
0.70	-1.49	0.20	117.98
1.73	-3.07	0.70	205.96
3.60	-3.35	2.39	296.94
6.91	-2.66	5.74	386.88
11.16	-1.31	10.21	476.77
17.17	0.78	16.56	566.54
25.00	3.91	24.98	655.14
39.10	10.65	40.47	777.13
61.07	19.98	64.25	907.95
81.20	26.91	85.55	999.50
104.55	34.35	110.05	1091.28
130.28	43.00	137.19	1182.32
158.52	53.29	167.23	1273.48
188.50	63.59	198.92	1363.04
220.34	73.23	232.18	1452.02
253.46	83.17	266.76	1540.50
287.38	93.70	302.27	1628.61
321.72	104.66	338.32	1716.51
356.71	115.59	374.97	1804.15
392.12	125.95	411.85	1892.78
426.15	136.06	447.34	1980.89
460.23	147.10	483.16	2068.88
494.03	158.00	518.67	2155.91
527.30	168.30	553.50	2243.22
561.10	179.19	589.01	2331.33
594.82	190.34	624.52	2419.45
628.59	201.31	660.03	2507.56
663.64	212.05	696.68	2596.29
698.88	222.16	733.32	2683.93
733.80	232.27	769.65	2771.69
767.88	243.02	805.39	2858.63
802.30	254.47	841.67	2946.43
836.84	265.59	877.94	3034.24
871.59	276.25	914.29	3123.09
905.15	286.60	949.41	3211.35
938.22	297.48	984.22	3299.74
971.50	308.74	1019.35	3388.01
1004.71	320.17	1054.47	3476.28
1038.52	331.72	1090.19	3565.38
1071.76	343.29	1125.38	3653.62
1104.30	355.29	1160.04	3740.99
1137.38	367.36	1195.23	3828.15
1171.98	379.92	1232.02	3916.80
1206.13	392.16	1268.28	4004.60
1240.94	403.89	1305.02	4092.21
1275.62	414.78	1341.37	4179.98
1308.70	424.61	1375.86	4268.49
1342.05	434.81	1410.73	4357.93
1375.14	446.15	1445.70	4445.18
1409.98	458.48	1482.65	4532.69
1446.73	471.14	1521.51	4619.37
1483.65	483.26	1560.37	4706.06
1520.33	494.82	1598.83	4791.83
1558.50	506.78	1638.82	4878.00
1597.39	517.57	1679.15	4964.00
1636.17	527.06	1718.96	5050.20
1674.20	536.72	1758.11	5136.72
1710.95	547.10	1796.26	5223.70
1746.85	557.97	1833.77	5312.07
1782.70	569.21	1871.34	5399.32
1817.80	581.27	1908.44	5486.77
1850.33	593.50	1943.16	5574.11
1881.42	604.65	1976.18	5663.18
1910.58	614.91	2007.08	5751.95
1937.66	624.47	2035.79	5842.50
1961.29	632.81	2060.85	5934.13
1982.00	640.04	2082.77	6026.56
2000.15	646.00	2101.88	6119.61
2016.00	650.82	2118.44	6213.15
2029.18	653.91	2131.93	6307.18
2039.11	656.66	2142.22	6401.61
2045.91	659.27	2149.50	6496.33
2049.56	660.20	2153.26	6591.25
2052.53	659.60	2155.90	6686.20
2055.08	659.60	2158.32	6780.16
2056.35	660.90	2159.93	6875.14
2057.38	662.20	2161.31	6970.12
2058.09	663.39	2162.36	7064.11
2058.53	664.46	2163.10	7159.11
2058.56	665.85	2163.57	7255.10
2058.34	668.06	2164.04	7349.07
2057.58	671.35	2164.33	7444.01
2056.53	675.31	2164.56	7539.92
2056.27	679.49	2165.61	7634.85
2056.47	680.79	2166.20	7714.83