

					Phoenix Technology Services					
					Design Report 01-Oct-2018 10:40:15					
COG Operating LLC										
Dominator 25 Federal 714H										
Lea County, NM (NAD27 NME)										
OH / 63136 / 63139										
Surveys (McVay 8)										
Surface Loc.:										
Northing: (Y) 399170.70										
Easting: (X) 748359.90										
RKB Elev: 3366.70'										
GL Elev: 3340.70'										
Survey Type Information:										
H 100.00 - 11706.00 SCIENTIFIC GYRO SURVEYS : SCIENTIFIC KEEPER										
H 11833.00 - 17380.00 PHOENIX MWD SURVEYS : MWD+HDGM										
Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
0	0	0	-3366.7	0	0	0	399170.7	748359.9	0	0
100	0.24	49.7	-3266.7	100	0.14	0.16	399170.84	748360.06	0.13	0.24
125	0.14	29.75	-3241.7	125	0.2	0.21	399170.9	748360.11	0.19	0.47
150	0.21	16.51	-3216.7	150	0.27	0.24	399170.97	748360.14	0.26	0.32
175	0.23	30.04	-3191.7	175	0.35	0.28	399171.05	748360.18	0.34	0.22
200	0.32	12.9	-3166.7	200	0.47	0.32	399171.17	748360.22	0.45	0.48
225	0.37	22.87	-3141.7	225	0.61	0.37	399171.31	748360.27	0.6	0.31
250	0.41	25.02	-3116.7	250	0.76	0.44	399171.46	748360.34	0.75	0.17
275	0.39	40.41	-3091.7	275	0.91	0.53	399171.61	748360.43	0.89	0.44
300	0.44	45.74	-3066.7	300	1.04	0.65	399171.74	748360.55	1.02	0.25
325	0.43	55.54	-3041.7	325	1.16	0.8	399171.86	748360.7	1.14	0.3
350	0.48	66.41	-3016.7	350	1.26	0.97	399171.96	748360.87	1.22	0.4
375	0.36	65.18	-2991.71	374.99	1.33	1.14	399172.03	748361.04	1.29	0.48
400	0.31	67.75	-2966.71	399.99	1.39	1.28	399172.09	748361.18	1.35	0.21
425	0.21	45.25	-2941.71	424.99	1.45	1.37	399172.15	748361.27	1.4	0.56
450	0.26	20.35	-2916.71	449.99	1.53	1.42	399172.23	748361.32	1.49	0.45
475	0.36	28.23	-2891.71	474.99	1.65	1.48	399172.35	748361.38	1.61	0.43
500	0.41	27.01	-2866.71	499.99	1.8	1.56	399172.5	748361.46	1.75	0.2
525	0.43	26.92	-2841.71	524.99	1.97	1.64	399172.67	748361.54	1.92	0.08
550	0.53	35.31	-2816.71	549.99	2.15	1.75	399172.85	748361.65	2.09	0.49
575	0.45	52.13	-2791.71	574.99	2.3	1.89	399173	748361.79	2.24	0.65
600	0.42	53.63	-2766.71	599.99	2.41	2.05	399173.11	748361.95	2.35	0.13
625	0.34	61.55	-2741.71	624.99	2.5	2.18	399173.2	748362.08	2.44	0.38
650	0.34	80.32	-2716.71	649.99	2.55	2.32	399173.25	748362.22	2.48	0.44
675	0.27	59.21	-2691.71	674.99	2.59	2.45	399173.29	748362.35	2.52	0.52
700	0.25	37.94	-2666.71	699.99	2.67	2.53	399173.37	748362.43	2.59	0.39
725	0.33	23.06	-2641.71	724.99	2.78	2.59	399173.48	748362.49	2.7	0.44
750	0.42	17.01	-2616.71	749.99	2.93	2.65	399173.63	748362.55	2.85	0.39
775	0.43	18.15	-2591.71	774.99	3.11	2.7	399173.81	748362.6	3.02	0.05
800	0.44	37.15	-2566.71	799.99	3.27	2.79	399173.97	748362.69	3.19	0.58
825	0.45	43.81	-2541.72	824.98	3.42	2.92	399174.12	748362.82	3.33	0.21
850	0.36	38.54	-2516.72	849.98	3.55	3.03	399174.25	748362.93	3.46	0.39
875	0.39	41.31	-2491.72	874.98	3.68	3.14	399174.38	748363.04	3.58	0.14
900	0.29	14.27	-2466.72	899.98	3.8	3.21	399174.5	748363.11	3.7	0.75

HOBBS OCD
APR 22 2019
RECEIVED

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
925	0.34	2.93	-2441.72	924.98	3.94	3.23	399174.64	748363.13	3.84	0.32
950	0.42	7.63	-2416.72	949.98	4.1	3.25	399174.8	748363.15	4	0.34
975	0.47	14.75	-2391.72	974.98	4.29	3.28	399174.99	748363.18	4.19	0.3
1000	0.53	13.44	-2366.72	999.98	4.51	3.34	399175.21	748363.24	4.4	0.24
1025	0.43	25.36	-2341.72	1024.98	4.7	3.4	399175.4	748363.3	4.59	0.56
1050	0.43	35.43	-2316.72	1049.98	4.86	3.5	399175.56	748363.4	4.75	0.3
1075	0.32	18.94	-2291.72	1074.98	5.01	3.58	399175.71	748363.48	4.89	0.61
1100	0.37	348.41	-2266.72	1099.98	5.15	3.58	399175.85	748363.48	5.04	0.75
1125	0.53	4.51	-2241.72	1124.98	5.35	3.57	399176.05	748363.47	5.23	0.81
1150	0.49	9.55	-2216.72	1149.98	5.57	3.6	399176.27	748363.5	5.45	0.24
1175	0.37	14.81	-2191.72	1174.98	5.75	3.64	399176.45	748363.54	5.63	0.5
1200	0.28	31.31	-2166.72	1199.98	5.88	3.69	399176.58	748363.59	5.76	0.52
1225	0.12	359.9	-2141.72	1224.98	5.96	3.72	399176.66	748363.62	5.84	0.75
1250	0.28	343.93	-2116.73	1249.97	6.04	3.71	399176.74	748363.61	5.93	0.67
1275	0.27	354.03	-2091.73	1274.97	6.16	3.68	399176.86	748363.58	6.04	0.2
1300	0.31	5.05	-2066.73	1299.97	6.29	3.68	399176.99	748363.58	6.17	0.27
1325	0.36	31.21	-2041.73	1324.97	6.42	3.73	399177.12	748363.63	6.3	0.64
1350	0.1	193.68	-2016.73	1349.97	6.47	3.77	399177.17	748363.67	6.35	1.83
1375	0.11	287.41	-1991.73	1374.97	6.45	3.74	399177.15	748363.64	6.33	0.61
1400	0.18	316.05	-1966.73	1399.97	6.49	3.69	399177.19	748363.59	6.37	0.39
1425	0.13	35.08	-1941.73	1424.97	6.54	3.68	399177.24	748363.58	6.42	0.8
1450	0.16	82.95	-1916.73	1449.97	6.57	3.73	399177.27	748363.63	6.45	0.48
1475	0.09	199.2	-1891.73	1474.97	6.55	3.76	399177.25	748363.66	6.43	0.86
1500	0.08	269.75	-1866.73	1499.97	6.53	3.73	399177.23	748363.63	6.42	0.39
1525	0.14	321.72	-1841.73	1524.97	6.56	3.7	399177.26	748363.6	6.44	0.44
1550	0.18	352.73	-1816.73	1549.97	6.62	3.67	399177.32	748363.57	6.5	0.38
1575	0.12	45.7	-1791.73	1574.97	6.68	3.69	399177.38	748363.59	6.56	0.58
1600	0.21	157.17	-1766.73	1599.97	6.65	3.72	399177.35	748363.62	6.54	1.11
1625	0.12	263.72	-1741.73	1624.97	6.61	3.71	399177.31	748363.61	6.49	1.08
1650	0.13	310.34	-1716.73	1649.97	6.62	3.67	399177.32	748363.57	6.51	0.4
1675	0.11	13.64	-1691.73	1674.97	6.67	3.65	399177.37	748363.55	6.55	0.51
1700	0.06	89.88	-1666.73	1699.97	6.69	3.67	399177.39	748363.57	6.57	0.45
1725	0.14	196.91	-1641.73	1724.97	6.66	3.67	399177.36	748363.57	6.54	0.67
1750	0.15	285.27	-1616.73	1749.97	6.64	3.63	399177.34	748363.53	6.52	0.81
1775	0.16	332.18	-1591.73	1774.97	6.68	3.59	399177.38	748363.49	6.57	0.49
1800	0.15	48.73	-1566.73	1799.97	6.73	3.59	399177.43	748363.49	6.62	0.77
1825	0.18	127.6	-1541.73	1824.97	6.73	3.65	399177.43	748363.55	6.61	0.84
1850	0.14	175.41	-1516.73	1849.97	6.68	3.68	399177.38	748363.58	6.56	0.54
1875	0.1	255.76	-1491.73	1874.97	6.64	3.66	399177.34	748363.56	6.52	0.63
1900	0.17	315.09	-1466.73	1899.97	6.66	3.62	399177.36	748363.52	6.55	0.59
1925	0.06	314.55	-1441.73	1924.97	6.7	3.58	399177.4	748363.48	6.58	0.44
1950	0.16	334.93	-1416.73	1949.97	6.74	3.56	399177.44	748363.46	6.62	0.42
1975	0.07	26.91	-1391.73	1974.97	6.78	3.55	399177.48	748363.45	6.67	0.52
2000	0.11	136.89	-1366.73	1999.97	6.78	3.57	399177.48	748363.47	6.66	0.6
2025	0.16	249.47	-1341.73	2024.97	6.75	3.56	399177.45	748363.46	6.63	0.91
2050	0.18	323.06	-1316.73	2049.97	6.77	3.5	399177.47	748363.4	6.66	0.82
2075	0.17	48.97	-1291.73	2074.97	6.82	3.5	399177.52	748363.4	6.71	0.95
2100	0.11	139.06	-1266.73	2099.97	6.83	3.55	399177.53	748363.45	6.72	0.81
2125	0.06	232.77	-1241.73	2124.97	6.8	3.55	399177.5	748363.45	6.69	0.51
2150	0.21	335.76	-1216.73	2149.97	6.84	3.52	399177.54	748363.42	6.72	0.92
2175	0.13	53.79	-1191.73	2174.97	6.9	3.53	399177.6	748363.43	6.78	0.89
2200	0.13	115.64	-1166.73	2199.97	6.9	3.58	399177.6	748363.48	6.79	0.53
2225	0.1	255.65	-1141.73	2224.97	6.88	3.58	399177.58	748363.48	6.77	0.87
2250	0.16	331.85	-1116.73	2249.97	6.91	3.54	399177.61	748363.44	6.79	0.67
2275	0.06	86.21	-1091.73	2274.97	6.94	3.54	399177.64	748363.44	6.83	0.77
2300	0.14	185.3	-1066.73	2299.97	6.91	3.55	399177.61	748363.45	6.8	0.64

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
2325	0.14	289.45	-1041.73	2324.97	6.89	3.52	399177.59	748363.42	6.78	0.88
2350	0.15	340.79	-1016.73	2349.97	6.93	3.48	399177.63	748363.38	6.82	0.5
2375	0.21	44.41	-991.73	2374.97	6.99	3.5	399177.69	748363.4	6.88	0.79
2400	0.11	162.09	-966.73	2399.97	7	3.54	399177.7	748363.44	6.89	1.11
2425	0.16	294.29	-941.73	2424.97	7	3.52	399177.7	748363.42	6.88	0.99
2450	0.09	2.97	-916.73	2449.97	7.03	3.48	399177.73	748363.38	6.92	0.61
2475	0.08	89.76	-891.73	2474.97	7.05	3.5	399177.75	748363.4	6.94	0.47
2500	0.14	199.71	-866.73	2499.97	7.02	3.51	399177.72	748363.41	6.91	0.73
2525	0.19	295.93	-841.73	2524.97	7.01	3.46	399177.71	748363.36	6.9	0.99
2550	0.15	15.58	-816.73	2549.97	7.06	3.43	399177.76	748363.33	6.95	0.88
2575	0.13	83.39	-791.73	2574.97	7.09	3.47	399177.79	748363.37	6.98	0.63
2600	0.11	184.65	-766.73	2599.97	7.07	3.5	399177.77	748363.4	6.96	0.74
2625	0.13	291.77	-741.73	2624.97	7.06	3.47	399177.76	748363.37	6.95	0.77
2650	0.14	357.86	-716.73	2649.97	7.1	3.44	399177.8	748363.34	6.99	0.59
2675	0.14	16.34	-691.73	2674.97	7.16	3.45	399177.86	748363.35	7.05	0.18
2700	0.08	109.02	-666.73	2699.97	7.19	3.47	399177.89	748363.37	7.07	0.66
2725	0.12	219.21	-641.73	2724.97	7.16	3.47	399177.86	748363.37	7.05	0.66
2750	0.14	346.19	-616.73	2749.97	7.17	3.45	399177.87	748363.35	7.06	0.93
2775	0.15	16.05	-591.73	2774.97	7.23	3.45	399177.93	748363.35	7.12	0.3
2800	0.11	83.42	-566.73	2799.97	7.26	3.48	399177.96	748363.38	7.15	0.59
2825	0.02	132.57	-541.73	2824.97	7.26	3.51	399177.96	748363.41	7.15	0.39
2850	0.2	330.9	-516.73	2849.97	7.3	3.49	399178	748363.39	7.19	0.88
2875	0.14	50.54	-491.73	2874.97	7.36	3.5	399178.06	748363.4	7.24	0.89
2900	0.02	170.43	-466.73	2899.97	7.37	3.52	399178.07	748363.42	7.26	0.6
2925	0.08	264.99	-441.73	2924.97	7.37	3.5	399178.07	748363.4	7.25	0.34
2950	0.17	324.94	-416.73	2949.97	7.39	3.47	399178.09	748363.37	7.28	0.59
2975	0.13	60.1	-391.73	2974.97	7.44	3.47	399178.14	748363.37	7.33	0.89
3000	0.1	270.19	-366.73	2999.97	7.45	3.47	399178.15	748363.37	7.34	0.89
3025	0.17	21.79	-341.73	3024.97	7.49	3.46	399178.19	748363.36	7.38	0.91
3050	0.18	64.67	-316.73	3049.97	7.54	3.51	399178.24	748363.41	7.43	0.51
3075	0.09	143.29	-291.73	3074.97	7.54	3.56	399178.24	748363.46	7.43	0.74
3100	0.18	288.21	-266.73	3099.97	7.54	3.53	399178.24	748363.43	7.42	1.04
3125	0.21	4.65	-241.73	3124.97	7.59	3.5	399178.29	748363.4	7.48	0.97
3150	0.13	50.34	-216.73	3149.97	7.66	3.53	399178.36	748363.43	7.55	0.6
3175	0.08	116.43	-191.73	3174.97	7.67	3.56	399178.37	748363.46	7.55	0.49
3200	0.09	206.86	-166.73	3199.97	7.64	3.57	399178.34	748363.47	7.53	0.48
3225	0.13	310.22	-141.73	3224.97	7.64	3.54	399178.34	748363.44	7.53	0.7
3250	0.14	36.68	-116.73	3249.97	7.69	3.54	399178.39	748363.44	7.57	0.74
3275	0.17	83.1	-91.73	3274.97	7.72	3.59	399178.42	748363.49	7.6	0.5
3300	0.08	227.26	-66.73	3299.97	7.71	3.62	399178.41	748363.52	7.59	0.96
3325	0.22	293.15	-41.73	3324.97	7.72	3.56	399178.42	748363.46	7.6	0.8
3350	0.12	6.1	-16.73	3349.97	7.76	3.52	399178.46	748363.42	7.65	0.87
3375	0.2	66.65	8.27	3374.97	7.8	3.56	399178.5	748363.46	7.69	0.7
3400	0.14	127.16	33.27	3399.97	7.8	3.62	399178.5	748363.52	7.69	0.72
3425	0.05	286.64	58.27	3424.97	7.79	3.64	399178.49	748363.54	7.67	0.75
3450	0.16	344.12	83.27	3449.97	7.82	3.62	399178.52	748363.52	7.71	0.56
3475	0.15	45.05	108.27	3474.97	7.88	3.63	399178.58	748363.53	7.76	0.63
3500	0.07	121.92	133.27	3499.97	7.9	3.67	399178.6	748363.57	7.78	0.6
3525	0.1	263.54	158.27	3524.97	7.89	3.66	399178.59	748363.56	7.77	0.64
3550	0.26	312.04	183.27	3549.97	7.92	3.6	399178.62	748363.5	7.81	0.83
3575	0.11	6.03	208.27	3574.97	7.98	3.56	399178.68	748363.46	7.87	0.86
3600	0.39	246.78	233.27	3599.97	7.97	3.48	399178.67	748363.38	7.86	1.82
3625	0.3	207.04	258.27	3624.97	7.88	3.37	399178.58	748363.27	7.77	1
3650	0.27	152.02	283.27	3649.97	7.77	3.37	399178.47	748363.27	7.66	1.06
3675	0.24	104.08	308.27	3674.97	7.71	3.45	399178.41	748363.35	7.6	0.84
3700	0.04	344.56	333.27	3699.97	7.7	3.5	399178.4	748363.4	7.59	1.05

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
3725	0.42	265.57	358.27	3724.97	7.7	3.4	399178.4	748363.3	7.59	1.66
3750	0.51	209.58	383.27	3749.97	7.6	3.26	399178.3	748363.16	7.49	1.77
3775	0.53	186.3	408.27	3774.97	7.39	3.19	399178.09	748363.09	7.28	0.84
3800	0.49	124.65	433.27	3799.97	7.21	3.26	399177.91	748363.16	7.11	2.1
3825	0.59	23.2	458.26	3824.96	7.27	3.4	399177.97	748363.3	7.16	3.35
3850	0.9	332.8	483.26	3849.96	7.56	3.36	399178.26	748363.26	7.45	2.77
3875	0.9	329.92	508.26	3874.96	7.91	3.18	399178.61	748363.08	7.8	0.18
3900	0.79	326.79	533.26	3899.96	8.22	2.98	399178.92	748362.88	8.12	0.48
3925	0.38	314.54	558.26	3924.96	8.42	2.83	399179.12	748362.73	8.33	1.71
3950	0.36	327.69	583.25	3949.95	8.55	2.73	399179.25	748362.63	8.46	0.35
3975	0.34	8.31	608.25	3974.95	8.69	2.7	399179.39	748362.6	8.6	0.97
4000	0.5	293.49	633.25	3999.95	8.8	2.61	399179.5	748362.51	8.72	2.1
4025	0.76	259.29	658.25	4024.95	8.82	2.35	399179.52	748362.25	8.74	1.78
4050	1	235.66	683.25	4049.95	8.66	2	399179.36	748361.9	8.6	1.72
4075	1.35	219.95	708.24	4074.94	8.31	1.63	399179.01	748361.53	8.26	1.89
4100	1.67	200.31	733.24	4099.94	7.75	1.32	399178.45	748361.22	7.7	2.42
4125	1.79	183.14	758.22	4124.92	7.02	1.17	399177.72	748361.07	6.98	2.12
4150	2.09	161.45	783.21	4149.91	6.19	1.29	399176.89	748361.19	6.15	3.15
4175	2.35	139.13	808.19	4174.89	5.37	1.77	399176.07	748361.67	5.32	3.58
4200	2.38	122.36	833.17	4199.87	4.71	2.55	399175.41	748362.45	4.63	2.76
4225	2.51	106.53	858.15	4224.85	4.27	3.51	399174.97	748363.41	4.16	2.74
4250	2.45	97.18	883.13	4249.83	4.05	4.57	399174.75	748364.47	3.91	1.63
4275	2.6	78.67	908.1	4274.8	4.1	5.65	399174.8	748365.55	3.92	3.3
4300	2.47	74.77	933.08	4299.78	4.35	6.73	399175.05	748366.63	4.14	0.86
4325	2.54	70.2	958.05	4324.75	4.68	7.77	399175.38	748367.67	4.44	0.85
4350	2.47	66.84	983.03	4349.73	5.08	8.79	399175.78	748368.69	4.8	0.65
4375	2.13	63.51	1008.01	4374.71	5.5	9.7	399176.2	748369.6	5.19	1.46
4400	1.29	62.73	1033	4399.7	5.83	10.36	399176.53	748370.26	5.51	3.36
4425	0.68	45.89	1057.99	4424.69	6.07	10.72	399176.77	748370.62	5.73	2.68
4450	0.38	48.34	1082.99	4449.69	6.22	10.89	399176.92	748370.79	5.88	1.2
4475	0.33	13.91	1107.99	4474.69	6.35	10.97	399177.05	748370.87	6.01	0.86
4500	0.47	26.11	1132.99	4499.69	6.51	11.03	399177.21	748370.93	6.17	0.65
4525	0.24	10.24	1157.99	4524.69	6.65	11.08	399177.35	748370.98	6.31	0.99
4550	0.44	3.33	1182.99	4549.69	6.8	11.1	399177.5	748371	6.45	0.82
4575	0.6	340.96	1207.99	4574.69	7.02	11.06	399177.72	748370.96	6.68	1.02
4600	0.61	329.52	1232.99	4599.69	7.26	10.95	399177.96	748370.85	6.92	0.48
4625	0.38	311.26	1257.99	4624.69	7.43	10.82	399178.13	748370.72	7.09	1.1
4650	0.08	322.43	1282.99	4649.69	7.5	10.75	399178.2	748370.65	7.16	1.21
4675	0.15	115.6	1307.99	4674.69	7.5	10.77	399178.2	748370.67	7.16	0.9
4700	0.1	224.8	1332.99	4699.69	7.47	10.78	399178.17	748370.68	7.13	0.82
4725	0.12	329.53	1357.99	4724.69	7.47	10.75	399178.17	748370.65	7.14	0.7
4750	0.15	124.38	1382.99	4749.69	7.48	10.77	399178.18	748370.67	7.14	1.05
4775	0.2	217.11	1407.99	4774.69	7.43	10.77	399178.13	748370.67	7.09	1.02
4800	0.1	19.84	1432.99	4799.69	7.41	10.75	399178.11	748370.65	7.07	1.19
4825	0.04	136.12	1457.99	4824.69	7.43	10.76	399178.13	748370.66	7.09	0.49
4850	0.12	325.59	1482.99	4849.69	7.44	10.75	399178.14	748370.65	7.1	0.64
4875	0.12	49.51	1507.99	4874.69	7.48	10.76	399178.18	748370.66	7.14	0.64
4900	0.06	174.69	1532.99	4899.69	7.48	10.78	399178.18	748370.68	7.15	0.65
4925	0.05	9.97	1557.99	4924.69	7.48	10.78	399178.18	748370.68	7.14	0.44
4950	0.11	222.12	1582.99	4949.69	7.47	10.77	399178.17	748370.67	7.14	0.62
4975	0.1	306.36	1607.99	4974.69	7.47	10.73	399178.17	748370.63	7.13	0.56
5000	0.42	204.9	1632.99	4999.69	7.4	10.68	399178.1	748370.58	7.06	1.8
5025	0.4	182.45	1657.99	5024.69	7.23	10.64	399177.93	748370.54	6.9	0.64
5050	0.54	159.14	1682.99	5049.69	7.03	10.67	399177.73	748370.57	6.7	0.94
5075	0.64	169.81	1707.98	5074.68	6.78	10.74	399177.48	748370.64	6.45	0.59
5100	0.61	166.09	1732.98	5099.68	6.52	10.8	399177.22	748370.7	6.18	0.2

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
5125	0.69	162.06	1757.98	5124.68	6.25	10.88	399176.95	748370.78	5.9	0.37
5150	0.23	176.9	1782.98	5149.68	6.05	10.92	399176.75	748370.82	5.71	1.89
5175	0.06	32.34	1807.98	5174.68	6.01	10.93	399176.71	748370.83	5.67	1.12
5200	0.16	12.81	1832.98	5199.68	6.06	10.95	399176.76	748370.85	5.72	0.42
5225	0.11	262.51	1857.98	5224.68	6.09	10.93	399176.79	748370.83	5.75	0.89
5250	0.3	318.1	1882.98	5249.68	6.13	10.87	399176.83	748370.77	5.79	1.02
5275	0.02	323.71	1907.98	5274.68	6.19	10.82	399176.89	748370.72	5.85	1.12
5300	0.07	209.66	1932.98	5299.68	6.18	10.81	399176.88	748370.71	5.84	0.32
5325	0.15	258.9	1957.98	5324.68	6.16	10.77	399176.86	748370.67	5.82	0.47
5350	0.14	13.87	1982.98	5349.68	6.18	10.74	399176.88	748370.64	5.84	0.98
5375	0.12	210.71	2007.98	5374.68	6.19	10.74	399176.89	748370.64	5.85	1.03
5400	0.13	256.56	2032.98	5399.68	6.16	10.7	399176.86	748370.6	5.82	0.39
5425	0.05	347.2	2057.98	5424.68	6.16	10.67	399176.86	748370.57	5.83	0.56
5450	0.14	155.89	2082.98	5449.68	6.15	10.68	399176.85	748370.58	5.81	0.76
5475	0.15	191.55	2107.98	5474.68	6.09	10.68	399176.79	748370.58	5.75	0.36
5500	0.07	102.15	2132.98	5499.68	6.05	10.69	399176.75	748370.59	5.72	0.66
5525	0.02	260.41	2157.98	5524.68	6.05	10.7	399176.75	748370.6	5.71	0.36
5550	0.15	261.94	2182.98	5549.68	6.04	10.67	399176.74	748370.57	5.71	0.52
5575	0.22	150.59	2207.98	5574.68	5.99	10.66	399176.69	748370.56	5.66	1.23
5600	0.15	261.78	2232.98	5599.68	5.95	10.65	399176.65	748370.55	5.62	1.23
5625	0.11	53.5	2257.98	5624.68	5.96	10.64	399176.66	748370.54	5.63	1.01
5650	0.06	161.14	2282.98	5649.68	5.96	10.66	399176.66	748370.56	5.63	0.56
5675	0.43	357.16	2307.98	5674.68	6.04	10.66	399176.74	748370.56	5.71	1.95
5700	0.47	328.11	2332.98	5699.68	6.22	10.6	399176.92	748370.5	5.89	0.92
5725	0.59	322.08	2357.98	5724.68	6.41	10.47	399177.11	748370.37	6.08	0.53
5750	0.49	299.72	2382.98	5749.68	6.56	10.29	399177.26	748370.19	6.24	0.92
5775	0.41	276.91	2407.98	5774.68	6.63	10.11	399177.33	748370.01	6.31	0.78
5800	0.43	244.56	2432.97	5799.67	6.6	9.94	399177.3	748369.84	6.29	0.94
5825	0.3	262.1	2457.97	5824.67	6.55	9.79	399177.25	748369.69	6.24	0.68
5850	0.29	262.81	2482.97	5849.67	6.53	9.66	399177.23	748369.56	6.23	0.04
5875	0.22	264.72	2507.97	5874.67	6.52	9.55	399177.22	748369.45	6.22	0.28
5900	0.14	284.85	2532.97	5899.67	6.52	9.47	399177.22	748369.37	6.23	0.4
5925	0.32	228	2557.97	5924.67	6.48	9.39	399177.18	748369.29	6.19	1.08
5950	0.17	314.17	2582.97	5949.67	6.46	9.31	399177.16	748369.21	6.17	1.41
5975	0.26	298.58	2607.97	5974.67	6.52	9.24	399177.22	748369.14	6.23	0.43
6000	0.4	282.69	2632.97	5999.67	6.56	9.1	399177.26	748369	6.28	0.66
6025	0.55	286.75	2657.97	6024.67	6.62	8.9	399177.32	748368.8	6.34	0.61
6050	1.01	250.73	2682.97	6049.67	6.58	8.58	399177.28	748368.48	6.31	2.6
6075	1.29	226.04	2707.96	6074.66	6.31	8.17	399177.01	748368.07	6.05	2.25
6100	0.74	170.52	2732.96	6099.66	5.96	7.99	399176.66	748367.89	5.71	4.25
6125	0.69	123.24	2757.96	6124.66	5.71	8.15	399176.41	748368.05	5.46	2.3
6150	0.59	81.21	2782.96	6149.66	5.65	8.4	399176.35	748368.3	5.39	1.87
6175	0.71	25.34	2807.96	6174.66	5.81	8.59	399176.51	748368.49	5.54	2.47
6200	0.34	333.66	2832.96	6199.66	6.02	8.63	399176.72	748368.53	5.75	2.26
6225	0.24	295.85	2857.96	6224.66	6.11	8.55	399176.81	748368.45	5.84	0.84
6250	0.39	296.22	2882.95	6249.65	6.17	8.42	399176.87	748368.32	5.9	0.6
6275	0.18	258.77	2907.95	6274.65	6.2	8.31	399176.9	748368.21	5.94	1.08
6300	0.08	89.25	2932.95	6299.65	6.19	8.29	399176.89	748368.19	5.93	1.04
6325	0.19	256.47	2957.95	6324.65	6.18	8.26	399176.88	748368.16	5.92	1.07
6350	0.09	333.22	2982.95	6349.65	6.19	8.21	399176.89	748368.11	5.93	0.76
6375	0.19	237.65	3007.95	6374.65	6.18	8.17	399176.88	748368.07	5.93	0.87
6400	0.14	351.85	3032.95	6399.65	6.19	8.13	399176.89	748368.03	5.94	1.11
6425	0.02	149.31	3057.95	6424.65	6.22	8.13	399176.92	748368.03	5.96	0.63
6450	0.1	201.35	3082.95	6449.65	6.19	8.12	399176.89	748368.02	5.94	0.36
6475	0.09	6.66	3107.95	6474.65	6.19	8.12	399176.89	748368.02	5.94	0.75
6500	0.04	119.84	3132.95	6499.65	6.21	8.13	399176.91	748368.03	5.95	0.45

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
6525	0.11	254.44	3157.95	6524.65	6.2	8.11	399176.9	748368.01	5.94	0.56
6550	0.17	346.07	3182.95	6549.65	6.23	8.08	399176.93	748367.98	5.97	0.82
6575	0.07	113.83	3207.95	6574.65	6.26	8.09	399176.96	748367.99	6	0.88
6600	0.16	257.61	3232.95	6599.65	6.24	8.07	399176.94	748367.97	5.99	0.88
6625	0.19	254.63	3257.95	6624.65	6.23	7.99	399176.93	748367.89	5.97	0.13
6650	0.27	227.81	3282.95	6649.65	6.17	7.91	399176.87	748367.81	5.93	0.53
6675	0.03	344.54	3307.95	6674.65	6.14	7.86	399176.84	748367.76	5.89	1.14
6700	0.17	174.35	3332.95	6699.65	6.11	7.86	399176.81	748367.76	5.86	0.8
6725	0.2	251.77	3357.95	6724.65	6.06	7.83	399176.76	748367.73	5.81	0.93
6750	0.06	13.78	3382.95	6749.65	6.06	7.79	399176.76	748367.69	5.81	0.95
6775	0.15	176.99	3407.95	6774.65	6.04	7.79	399176.74	748367.69	5.79	0.83
6800	0.08	292.95	3432.95	6799.65	6.01	7.78	399176.71	748367.68	5.77	0.79
6825	0.06	97.44	3457.95	6824.65	6.02	7.78	399176.72	748367.68	5.77	0.55
6850	0.16	263.34	3482.95	6849.65	6.01	7.75	399176.71	748367.65	5.77	0.87
6875	0.15	107.36	3507.95	6874.65	6	7.75	399176.7	748367.65	5.76	1.21
6900	0.09	235.2	3532.95	6899.65	5.98	7.77	399176.68	748367.67	5.73	0.87
6925	0.03	157.24	3557.95	6924.65	5.96	7.75	399176.66	748367.65	5.72	0.35
6950	0.16	139.17	3582.95	6949.65	5.93	7.78	399176.63	748367.68	5.68	0.53
6975	0.24	231.67	3607.95	6974.65	5.87	7.76	399176.57	748367.66	5.63	1.18
7000	0.17	91.55	3632.95	6999.65	5.84	7.75	399176.54	748367.65	5.59	1.54
7025	0.14	214.17	3657.95	7024.65	5.81	7.77	399176.51	748367.67	5.57	1.09
7050	0	50.31	3682.95	7049.65	5.78	7.76	399176.48	748367.66	5.54	0.56
7075	0.17	204.47	3707.95	7074.65	5.75	7.74	399176.45	748367.64	5.51	0.68
7100	0.1	7.82	3732.95	7099.65	5.74	7.73	399176.44	748367.63	5.5	1.07
7125	0.2	178.18	3757.95	7124.65	5.72	7.73	399176.42	748367.63	5.47	1.2
7150	0.12	220.56	3782.95	7149.65	5.65	7.72	399176.35	748367.62	5.41	0.55
7175	0.14	240.62	3807.95	7174.65	5.62	7.67	399176.32	748367.57	5.38	0.2
7200	0.06	299.1	3832.95	7199.65	5.61	7.64	399176.31	748367.54	5.37	0.48
7225	0.17	174.09	3857.95	7224.65	5.58	7.63	399176.28	748367.53	5.34	0.84
7250	0.15	274.02	3882.95	7249.65	5.54	7.6	399176.24	748367.5	5.31	0.98
7275	0.05	181.25	3907.95	7274.65	5.54	7.57	399176.24	748367.47	5.3	0.64
7300	0.05	162.53	3932.95	7299.65	5.51	7.57	399176.21	748367.47	5.28	0.07
7325	0.26	177.54	3957.95	7324.65	5.45	7.58	399176.15	748367.48	5.21	0.85
7350	0.19	140.06	3982.95	7349.65	5.36	7.61	399176.06	748367.51	5.12	0.64
7375	0.26	143.83	4007.95	7374.65	5.28	7.67	399175.98	748367.57	5.04	0.29
7400	0.17	167.53	4032.95	7399.65	5.2	7.71	399175.9	748367.61	4.96	0.5
7425	0.14	157.87	4057.95	7424.65	5.13	7.73	399175.83	748367.63	4.89	0.16
7450	0.13	173.78	4082.95	7449.65	5.08	7.74	399175.78	748367.64	4.84	0.15
7475	0.3	194.1	4107.95	7474.65	4.99	7.73	399175.69	748367.63	4.74	0.73
7500	0.15	105.85	4132.95	7499.65	4.91	7.74	399175.61	748367.64	4.67	1.33
7525	0.22	2.89	4157.95	7524.65	4.95	7.78	399175.65	748367.68	4.71	1.17
7550	0.4	333.05	4182.95	7549.65	5.08	7.74	399175.78	748367.64	4.84	0.94
7575	0.76	297.54	4207.95	7574.65	5.23	7.55	399175.93	748367.45	5	1.97
7600	0.88	257.78	4232.95	7599.65	5.27	7.22	399175.97	748367.12	5.04	2.28
7625	0.78	235.53	4257.94	7624.64	5.13	6.89	399175.83	748366.79	4.92	1.34
7650	0.47	215.33	4282.94	7649.64	4.95	6.69	399175.65	748366.59	4.74	1.5
7675	0.34	186.41	4307.94	7674.64	4.8	6.62	399175.5	748366.52	4.59	0.95
7700	0.25	184.64	4332.94	7699.64	4.67	6.61	399175.37	748366.51	4.46	0.36
7725	0.58	251.74	4357.94	7724.64	4.57	6.49	399175.27	748366.39	4.37	2.14
7750	0.61	259.28	4382.94	7749.64	4.51	6.24	399175.21	748366.14	4.31	0.34
7775	0.61	270.35	4407.94	7774.64	4.48	5.97	399175.18	748365.87	4.3	0.47
7800	0.83	275.02	4432.94	7799.64	4.5	5.66	399175.2	748365.56	4.32	0.91
7825	0.81	271.61	4457.93	7824.63	4.52	5.3	399175.22	748365.2	4.36	0.21
7850	0.8	266.61	4482.93	7849.63	4.52	4.95	399175.22	748364.85	4.36	0.28
7875	0.7	268.7	4507.93	7874.63	4.5	4.62	399175.2	748364.52	4.36	0.41
7900	0.73	264.66	4532.93	7899.63	4.48	4.31	399175.18	748364.21	4.35	0.23

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
7925	0.89	262.66	4557.93	7924.63	4.45	3.96	399175.15	748363.86	4.32	0.65
7950	0.64	265.12	4582.92	7949.62	4.41	3.63	399175.11	748363.53	4.29	1.01
7975	0.73	256.69	4607.92	7974.62	4.36	3.34	399175.06	748363.24	4.25	0.54
8000	0.76	255.73	4632.92	7999.62	4.28	3.02	399174.98	748362.92	4.19	0.13
8025	0.8	261.61	4657.92	8024.62	4.22	2.69	399174.92	748362.59	4.13	0.36
8050	0.77	248.96	4682.91	8049.61	4.13	2.36	399174.83	748362.26	4.06	0.7
8075	0.71	252.72	4707.91	8074.61	4.02	2.05	399174.72	748361.95	3.96	0.31
8100	0.61	252.61	4732.91	8099.61	3.94	1.78	399174.64	748361.68	3.88	0.4
8125	0.56	253.75	4757.91	8124.61	3.86	1.53	399174.56	748361.43	3.81	0.21
8150	0.62	241.48	4782.91	8149.61	3.77	1.3	399174.47	748361.2	3.72	0.56
8175	0.69	240.77	4807.91	8174.61	3.63	1.05	399174.33	748360.95	3.59	0.28
8200	0.58	242.66	4832.91	8199.61	3.5	0.8	399174.2	748360.7	3.47	0.45
8225	0.57	240.63	4857.9	8224.6	3.38	0.58	399174.08	748360.48	3.36	0.09
8250	0.59	226.64	4882.9	8249.6	3.23	0.38	399173.93	748360.28	3.21	0.57
8275	0.36	236.78	4907.9	8274.6	3.1	0.22	399173.8	748360.12	3.09	0.98
8300	0.58	218.24	4932.9	8299.6	2.95	0.08	399173.65	748359.98	2.95	1.06
8325	0.51	229.32	4957.9	8324.6	2.78	-0.09	399173.48	748359.81	2.78	0.5
8350	0.59	233.61	4982.9	8349.6	2.63	-0.27	399173.33	748359.63	2.64	0.36
8375	0.52	230.22	5007.9	8374.6	2.48	-0.46	399173.18	748359.44	2.5	0.31
8400	0.46	241.56	5032.9	8399.6	2.36	-0.64	399173.06	748359.26	2.38	0.46
8425	0.5	226.27	5057.9	8424.6	2.24	-0.81	399172.94	748359.09	2.26	0.53
8450	0.49	233.2	5082.89	8449.59	2.1	-0.97	399172.8	748358.93	2.13	0.24
8475	0.54	222.42	5107.89	8474.59	1.95	-1.14	399172.65	748358.76	1.98	0.44
8500	0.47	222.01	5132.89	8499.59	1.79	-1.28	399172.49	748358.62	1.83	0.28
8525	0.57	223.02	5157.89	8524.59	1.62	-1.44	399172.32	748358.46	1.66	0.4
8550	0.68	229.02	5182.89	8549.59	1.43	-1.63	399172.13	748358.27	1.48	0.51
8575	0.54	238.79	5207.89	8574.59	1.27	-1.85	399171.97	748358.05	1.33	0.7
8600	0.54	217.02	5232.89	8599.59	1.12	-2.02	399171.82	748357.88	1.18	0.82
8625	0.62	241.46	5257.89	8624.59	0.96	-2.21	399171.66	748357.69	1.03	1.03
8650	0.61	210.07	5282.89	8649.59	0.78	-2.39	399171.48	748357.51	0.85	1.33
8675	0.63	233.26	5307.88	8674.58	0.58	-2.57	399171.28	748357.33	0.66	1
8700	0.58	219.01	5332.88	8699.58	0.4	-2.76	399171.1	748357.14	0.49	0.63
8725	0.69	224.02	5357.88	8724.58	0.19	-2.95	399170.89	748356.95	0.29	0.49
8750	0.55	224.31	5382.88	8749.58	0	-3.13	399170.7	748356.77	0.1	0.56
8775	0.63	223.29	5407.88	8774.58	-0.19	-3.31	399170.51	748356.59	-0.08	0.32
8800	0.72	230.67	5432.88	8799.58	-0.38	-3.53	399170.32	748356.37	-0.28	0.5
8825	0.73	226.38	5457.87	8824.57	-0.59	-3.76	399170.11	748356.14	-0.48	0.22
8850	0.73	221.01	5482.87	8849.57	-0.82	-3.98	399169.88	748355.92	-0.7	0.27
8875	0.65	217.9	5507.87	8874.57	-1.06	-4.18	399169.64	748355.72	-0.93	0.35
8900	0.68	223.14	5532.87	8899.57	-1.28	-4.36	399169.42	748355.54	-1.14	0.27
8925	0.75	225.85	5557.87	8924.57	-1.5	-4.58	399169.2	748355.32	-1.36	0.31
8950	0.8	227.99	5582.86	8949.56	-1.73	-4.83	399168.97	748355.07	-1.58	0.23
8975	0.66	233.17	5607.86	8974.56	-1.93	-5.08	399168.77	748354.82	-1.77	0.62
9000	0.73	220.18	5632.86	8999.56	-2.14	-5.29	399168.56	748354.61	-1.98	0.69
9025	0.74	224.67	5657.86	9024.56	-2.38	-5.51	399168.32	748354.39	-2.21	0.23
9050	0.77	222.14	5682.86	9049.56	-2.62	-5.74	399168.08	748354.16	-2.44	0.18
9075	0.85	221.67	5707.85	9074.55	-2.88	-5.97	399167.82	748353.93	-2.69	0.32
9100	0.79	222.26	5732.85	9099.55	-3.15	-6.21	399167.55	748353.69	-2.95	0.24
9125	0.86	231.98	5757.85	9124.55	-3.39	-6.47	399167.31	748353.43	-3.19	0.62
9150	0.76	226.8	5782.85	9149.55	-3.62	-6.74	399167.08	748353.16	-3.41	0.5
9175	0.85	236.59	5807.84	9174.54	-3.83	-7.02	399166.87	748352.88	-3.61	0.66
9200	0.8	224.54	5832.84	9199.54	-4.06	-7.3	399166.64	748352.6	-3.83	0.72
9225	0.91	232.28	5857.84	9224.54	-4.31	-7.58	399166.39	748352.32	-4.07	0.64
9250	0.97	229.46	5882.84	9249.54	-4.56	-7.89	399166.14	748352.01	-4.32	0.3
9275	0.92	233.45	5907.83	9274.53	-4.82	-8.22	399165.88	748351.68	-4.56	0.33
9300	0.96	232.47	5932.83	9299.53	-5.07	-8.54	399165.63	748351.36	-4.8	0.17

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
9325	0.87	232.87	5957.83	9324.53	-5.31	-8.86	399165.39	748351.04	-5.03	0.36
9350	0.87	236.02	5982.82	9349.52	-5.53	-9.17	399165.17	748350.73	-5.24	0.19
9375	0.9	239.63	6007.82	9374.52	-5.74	-9.5	399164.96	748350.4	-5.44	0.25
9400	0.83	248.44	6032.82	9399.52	-5.9	-9.83	399164.8	748350.07	-5.6	0.6
9425	0.76	255.86	6057.81	9424.51	-6.01	-10.16	399164.69	748349.74	-5.69	0.5
9450	0.86	262.06	6082.81	9449.51	-6.08	-10.51	399164.62	748349.39	-5.75	0.53
9475	0.77	257.74	6107.81	9474.51	-6.14	-10.86	399164.56	748349.04	-5.8	0.44
9500	0.75	271.81	6132.81	9499.51	-6.17	-11.19	399164.53	748348.71	-5.82	0.75
9525	0.8	258.55	6157.8	9524.5	-6.2	-11.52	399164.5	748348.38	-5.84	0.74
9550	0.94	261.43	6182.8	9549.5	-6.26	-11.9	399164.44	748348	-5.89	0.59
9575	0.8	261.71	6207.8	9574.5	-6.32	-12.27	399164.38	748347.63	-5.94	0.56
9600	0.89	259.03	6232.8	9599.5	-6.38	-12.63	399164.32	748347.27	-5.99	0.39
9625	0.98	249.01	6257.79	9624.49	-6.49	-13.02	399164.21	748346.88	-6.09	0.75
9650	1.17	245.39	6282.79	9649.49	-6.68	-13.46	399164.02	748346.44	-6.26	0.81
9675	1.24	253.92	6307.78	9674.48	-6.86	-13.95	399163.84	748345.95	-6.42	0.77
9700	1.28	245.72	6332.78	9699.48	-7.05	-14.46	399163.65	748345.44	-6.6	0.74
9725	1.31	246.07	6357.77	9724.47	-7.28	-14.98	399163.42	748344.92	-6.81	0.12
9750	1.25	244.23	6382.76	9749.46	-7.51	-15.48	399163.19	748344.42	-7.03	0.29
9775	1.32	252.01	6407.76	9774.46	-7.72	-16	399162.98	748343.9	-7.22	0.75
9800	1.19	243.08	6432.75	9799.45	-7.93	-16.51	399162.77	748343.39	-7.41	0.94
9825	1.12	239.24	6457.75	9824.45	-8.17	-16.95	399162.53	748342.95	-7.64	0.42
9850	1.16	240.48	6482.74	9849.44	-8.42	-17.38	399162.28	748342.52	-7.88	0.19
9875	1.11	234.66	6507.74	9874.44	-8.68	-17.8	399162.02	748342.1	-8.13	0.5
9900	1.09	237.52	6532.73	9899.43	-8.95	-18.2	399161.75	748341.7	-8.38	0.23
9925	1.18	251.77	6557.73	9924.43	-9.16	-18.64	399161.54	748341.26	-8.58	1.18
9950	1.23	265.8	6582.72	9949.42	-9.26	-19.15	399161.44	748340.75	-8.66	1.19
9975	1.15	269.39	6607.72	9974.42	-9.28	-19.67	399161.42	748340.23	-8.67	0.44
10000	1.1	270.39	6632.71	9999.41	-9.28	-20.16	399161.42	748339.74	-8.65	0.21
10025	0.87	278.65	6657.71	10024.41	-9.25	-20.59	399161.45	748339.31	-8.61	1.08
10050	0.85	289.76	6682.71	10049.41	-9.16	-20.95	399161.54	748338.95	-8.51	0.67
10075	0.66	293.41	6707.7	10074.4	-9.04	-21.26	399161.66	748338.64	-8.38	0.78
10100	0.73	291.64	6732.7	10099.4	-8.93	-21.54	399161.77	748338.36	-8.25	0.29
10125	0.63	282.54	6757.7	10124.4	-8.84	-21.82	399161.86	748338.08	-8.16	0.59
10150	0.79	277.11	6782.7	10149.4	-8.79	-22.13	399161.91	748337.77	-8.1	0.69
10175	0.91	264.24	6807.69	10174.39	-8.79	-22.5	399161.91	748337.4	-8.08	0.9
10200	0.82	255.22	6832.69	10199.39	-8.85	-22.87	399161.85	748337.03	-8.14	0.65
10225	0.9	255.19	6857.69	10224.39	-8.95	-23.23	399161.75	748336.67	-8.22	0.32
10250	1.17	248.82	6882.69	10249.39	-9.09	-23.66	399161.61	748336.24	-8.35	1.17
10275	1.03	253.56	6907.68	10274.38	-9.25	-24.11	399161.45	748335.79	-8.49	0.67
10300	1	251.43	6932.68	10299.38	-9.38	-24.53	399161.32	748335.37	-8.61	0.19
10325	0.93	247.11	6957.67	10324.37	-9.53	-24.93	399161.17	748334.97	-8.75	0.4
10350	1.07	246.67	6982.67	10349.37	-9.7	-25.33	399161	748334.57	-8.91	0.56
10375	1.17	256.38	7007.66	10374.36	-9.85	-25.79	399160.85	748334.11	-9.05	0.86
10400	1.33	269.1	7032.66	10399.36	-9.92	-26.33	399160.78	748333.57	-9.09	1.28
10425	1.49	270.7	7057.65	10424.35	-9.92	-26.94	399160.78	748332.96	-9.08	0.66
10450	1.65	284.47	7082.64	10449.34	-9.82	-27.62	399160.88	748332.28	-8.96	1.63
10475	1.51	282.89	7107.63	10474.33	-9.66	-28.29	399161.04	748331.61	-8.78	0.59
10500	1.51	282.44	7132.62	10499.32	-9.51	-28.93	399161.19	748330.97	-8.61	0.05
10525	1.59	282.51	7157.61	10524.31	-9.37	-29.59	399161.33	748330.31	-8.45	0.32
10550	1.58	282.17	7182.6	10549.3	-9.22	-30.27	399161.48	748329.63	-8.28	0.05
10575	1.64	281.21	7207.59	10574.29	-9.08	-30.95	399161.62	748328.95	-8.11	0.26
10600	1.58	285.88	7232.59	10599.29	-8.91	-31.64	399161.79	748328.26	-7.93	0.58
10625	1.64	285.26	7257.58	10624.28	-8.73	-32.31	399161.97	748327.59	-7.72	0.25
10650	1.61	287.17	7282.57	10649.27	-8.53	-32.99	399162.17	748326.91	-7.5	0.25
10675	1.59	288.54	7307.56	10674.26	-8.31	-33.66	399162.39	748326.24	-7.27	0.17
10700	1.64	296.66	7332.55	10699.25	-8.04	-34.31	399162.66	748325.59	-6.98	0.94

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
10725	1.54	306.63	7357.54	10724.24	-7.68	-34.9	399163.02	748325	-6.6	1.17
10750	1.49	314.14	7382.53	10749.23	-7.26	-35.4	399163.44	748324.5	-6.15	0.82
10775	1.56	311.32	7407.52	10774.22	-6.8	-35.89	399163.9	748324.01	-5.69	0.41
10800	1.66	313.74	7432.51	10799.21	-6.33	-36.4	399164.37	748323.5	-5.2	0.48
10825	1.79	318.26	7457.5	10824.2	-5.79	-36.93	399164.91	748322.97	-4.64	0.75
10850	1.74	318.22	7482.49	10849.19	-5.21	-37.44	399165.49	748322.46	-4.05	0.2
10875	1.94	321.35	7507.47	10874.17	-4.6	-37.96	399166.1	748321.94	-3.42	0.9
10900	1.99	327.41	7532.46	10899.16	-3.9	-38.45	399166.8	748321.45	-2.71	0.85
10925	2.18	342.62	7557.44	10924.14	-3.08	-38.83	399167.62	748321.07	-1.88	2.33
10950	2.36	345.46	7582.42	10949.12	-2.13	-39.1	399168.57	748320.8	-0.92	0.85
10975	2.41	346.14	7607.4	10974.1	-1.12	-39.36	399169.58	748320.54	0.1	0.23
11000	2.39	353.87	7632.38	10999.08	-0.09	-39.54	399170.61	748320.36	1.13	1.3
11025	2.4	357.82	7657.36	11024.06	0.95	-39.61	399171.65	748320.29	2.17	0.66
11050	2.47	0.67	7682.33	11049.03	2.01	-39.63	399172.71	748320.27	3.24	0.56
11075	2.45	1.65	7707.31	11074.01	3.08	-39.6	399173.78	748320.3	4.31	0.19
11100	2.51	359.72	7732.29	11098.99	4.16	-39.59	399174.86	748320.31	5.39	0.41
11125	2.55	359.85	7757.26	11123.96	5.27	-39.6	399175.97	748320.3	6.49	0.16
11150	2.55	359.65	7782.24	11148.94	6.38	-39.6	399177.08	748320.3	7.6	0.04
11175	2.64	358.85	7807.21	11173.91	7.51	-39.62	399178.21	748320.28	8.73	0.39
11200	2.68	358.68	7832.19	11198.89	8.67	-39.64	399179.37	748320.26	9.89	0.16
11225	2.5	358.63	7857.16	11223.86	9.8	-39.67	399180.5	748320.23	11.02	0.72
11250	2.45	359.86	7882.14	11248.84	10.88	-39.68	399181.58	748320.22	12.1	0.29
11275	2.23	2.33	7907.12	11273.82	11.9	-39.66	399182.6	748320.24	13.12	0.97
11300	2.25	2.39	7932.1	11298.8	12.88	-39.62	399183.58	748320.28	14.1	0.08
11325	2.25	1.63	7957.08	11323.78	13.86	-39.59	399184.56	748320.31	15.08	0.12
11350	2.28	2.63	7982.06	11348.76	14.84	-39.55	399185.54	748320.35	16.06	0.2
11375	2.3	2.33	8007.04	11373.74	15.84	-39.51	399186.54	748320.39	17.06	0.09
11400	2.21	3.5	8032.02	11398.72	16.82	-39.46	399187.52	748320.44	18.04	0.4
11425	2.31	2.14	8057	11423.7	17.81	-39.41	399188.51	748320.49	19.02	0.45
11450	2.18	2.42	8081.98	11448.68	18.79	-39.37	399189.49	748320.53	20	0.52
11475	2.11	3.24	8106.96	11473.66	19.72	-39.33	399190.42	748320.57	20.93	0.31
11500	2.12	1.21	8131.95	11498.65	20.64	-39.29	399191.34	748320.61	21.85	0.3
11525	1.97	358.36	8156.93	11523.63	21.54	-39.29	399192.24	748320.61	22.74	0.72
11550	1.77	354.95	8181.92	11548.62	22.35	-39.34	399193.05	748320.56	23.56	0.92
11575	1.45	351.37	8206.91	11573.61	23.05	-39.42	399193.75	748320.48	24.26	1.34
11600	1.23	343.76	8231.9	11598.6	23.62	-39.54	399194.32	748320.36	24.83	1.13
11625	1.17	336.07	8256.89	11623.59	24.11	-39.72	399194.81	748320.18	25.33	0.69
11650	1.02	329.09	8281.89	11648.59	24.53	-39.94	399195.23	748319.96	25.76	0.8
11675	0.82	321.94	8306.89	11673.59	24.86	-40.16	399195.56	748319.74	26.1	0.92
11700	0.6	337.13	8331.88	11698.58	25.13	-40.32	399195.83	748319.58	26.36	1.15
11706	0.94	317.74	8337.88	11704.58	25.19	-40.37	399195.89	748319.53	26.43	7.06
11833	0.56	276.66	8464.87	11831.57	26.03	-41.69	399196.73	748318.21	27.31	0.5
11929	0.15	244.19	8560.87	11927.57	26.03	-42.27	399196.73	748317.63	27.33	0.46
12117	1.33	159.43	8748.85	12115.55	23.88	-41.72	399194.58	748318.18	25.17	0.7
12212	1.23	171.64	8843.83	12210.53	21.84	-41.19	399192.54	748318.71	23.11	0.31
12243	0.69	152.9	8874.83	12241.53	21.35	-41.05	399192.05	748318.85	22.61	1.99
12272	0.96	43.44	8903.82	12270.52	21.37	-40.81	399192.07	748319.09	22.62	4.68
12304	2.65	19.39	8935.81	12302.51	22.26	-40.38	399192.96	748319.52	23.5	5.67
12336	3.69	29.29	8967.76	12334.46	23.86	-39.63	399194.56	748320.27	25.07	3.66
12367	3.86	28.73	8998.69	12365.39	25.64	-38.64	399196.34	748321.26	26.83	0.56
12399	4.35	30.59	9030.61	12397.31	27.63	-37.5	399198.33	748322.4	28.78	1.59
12430	5.48	21.24	9061.5	12428.2	30.02	-36.37	399200.72	748323.53	31.14	4.46
12461	10.92	2.43	9092.17	12458.87	34.34	-35.71	399205.04	748324.19	35.43	19.34
12493	17.66	352.32	9123.17	12489.87	42.19	-36.23	399212.89	748323.67	43.29	22.38
12515.5	21.81	355.4	9144.34	12511.04	49.74	-37.02	399220.44	748322.88	50.87	19.02
12525	23.58	356.38	9153.11	12519.81	53.4	-37.28	399224.1	748322.62	54.53	19.02

Measured			Sub-Sea	Vertical	Local Coord		UTM Coord		Vertical	Dogleg
Depth	Incl.	Azim.	Depth	Depth	(+N/-S)	(+E/-W)	Northings	Eastings	Section	Rate
(ft)			(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°/100ft)
12556	26.94	358.36	9181.14	12547.84	66.61	-37.87	399237.31	748322.03	67.75	11.17
12588	30.69	357.52	9209.17	12575.87	82.02	-38.43	399252.72	748321.47	83.17	11.79
12619	34.67	355.36	9235.26	12601.96	98.72	-39.49	399269.42	748320.41	99.9	13.38
12651	39.93	354.91	9260.71	12627.41	118.03	-41.14	399288.73	748318.76	119.25	16.46
12682	42.92	354.62	9283.95	12650.65	138.46	-43.01	399309.16	748316.89	139.72	9.66
12714	45.86	354.53	9306.81	12673.51	160.74	-45.13	399331.44	748314.77	162.06	9.19
12746	47.75	353.8	9328.72	12695.42	183.94	-47.5	399354.64	748312.4	185.33	6.14
12778	50.09	354.71	9349.74	12716.44	207.94	-49.91	399378.64	748309.99	209.39	7.62
12809	54.14	354.95	9368.77	12735.47	232.31	-52.12	399403.01	748307.78	233.81	13.08
12841	59.85	354.6	9386.2	12752.9	259.02	-54.56	399429.72	748305.34	260.58	17.87
12872	63.48	352.83	9400.91	12767.61	286.13	-57.55	399456.83	748302.35	287.78	12.74
12904	68.17	352.24	9414.01	12780.71	315.07	-61.35	399485.77	748298.55	316.82	14.75
12935	72.95	351.87	9424.33	12791.03	344.01	-65.39	399514.71	748294.51	345.88	15.46
12967	77.62	353.36	9432.45	12799.15	374.7	-69.36	399545.4	748290.54	376.67	15.27
12999	83.07	355.21	9437.82	12804.52	406.08	-72.5	399576.78	748287.4	408.13	17.96
13013	85.77	356.2	9439.18	12805.88	419.97	-73.54	399590.67	748286.36	422.05	20.53
13044	91.34	358.52	9439.96	12806.66	450.91	-74.97	399621.61	748284.93	453.02	19.46
13076	92.77	359.27	9438.81	12805.51	482.88	-75.58	399653.58	748284.32	485	5.05
13107	93.11	359.46	9437.22	12803.92	513.84	-75.93	399684.54	748283.97	515.95	1.26
13202	92.52	356.97	9432.56	12799.26	608.67	-78.88	399779.37	748281.02	610.83	2.69
13296	93.76	357.01	9427.41	12794.11	702.4	-83.81	399873.1	748276.09	704.66	1.32
13392	94.74	357.95	9420.29	12786.99	798.04	-88.02	399968.74	748271.88	800.39	1.41
13485	92.58	356.18	9414.36	12781.06	890.72	-92.78	400061.42	748267.12	893.17	3
13579	91.34	356.31	9411.14	12777.84	984.46	-98.93	400155.16	748260.97	987.06	1.33
13673	91.37	358.39	9408.92	12775.62	1078.33	-103.27	400249.03	748256.63	1081.01	2.21
13768	91.09	357.08	9406.88	12773.58	1173.23	-107.03	400343.93	748252.87	1175.99	1.41
13863	90.45	359.08	9405.6	12772.3	1268.17	-110.21	400438.87	748249.69	1270.97	2.21
13957	88.54	359.25	9406.43	12773.13	1362.15	-111.58	400532.85	748248.32	1364.95	2.04
14052	90.25	0.19	9407.43	12774.13	1457.14	-112.04	400627.84	748247.86	1459.91	2.05
14146	87.51	0.34	9409.27	12775.97	1551.11	-111.61	400721.81	748248.29	1553.82	2.92
14240	88.66	359.77	9412.41	12779.11	1645.05	-111.52	400815.75	748248.38	1647.72	1.37
14336	88.21	0.47	9415.03	12781.73	1741.02	-111.32	400911.72	748248.58	1743.63	0.87
14431	88.12	359.12	9418.08	12784.78	1835.97	-111.66	401006.67	748248.24	1838.54	1.42
14525	88.63	0.74	9420.74	12787.44	1929.92	-111.77	401100.62	748248.13	1932.46	1.81
14620	88.46	0.6	9423.15	12789.85	2024.89	-110.66	401195.59	748249.24	2027.34	0.23
14716	88.54	0.11	9425.67	12792.37	2120.85	-110.07	401291.55	748249.83	2123.24	0.52
14810	87.62	359.64	9428.82	12795.52	2214.8	-110.27	401385.5	748249.63	2217.15	1.1
14905	86.83	0.6	9433.42	12800.12	2309.68	-110.07	401480.38	748249.83	2311.99	1.31
15000	86.98	359.11	9438.55	12805.25	2404.54	-110.31	401575.24	748249.59	2406.81	1.57
15095	89.58	358.6	9441.4	12808.1	2499.47	-112.21	401670.17	748247.69	2501.75	2.79
15189	91.09	359.47	9440.85	12807.55	2593.45	-113.79	401764.15	748246.11	2595.73	1.85
15284	92.61	0.31	9437.78	12804.48	2688.4	-113.98	401859.1	748245.92	2690.64	1.83
15378	90.78	0.61	9435	12801.7	2782.35	-113.22	401953.05	748246.68	2784.52	1.97
15473	91.01	1.35	9433.52	12800.22	2877.33	-111.6	402048.03	748248.3	2879.4	0.82
15568	91.4	358.78	9431.52	12798.22	2972.3	-111.49	402143	748248.41	2974.32	2.74
15663	89.75	357.04	9430.56	12797.26	3067.22	-114.95	402237.92	748244.95	3069.31	2.52
15758	91.37	359.16	9429.64	12796.34	3162.16	-118.1	402332.86	748241.8	3164.3	2.81
15853	89.66	358.45	9428.78	12795.48	3257.13	-120.08	402427.83	748239.82	3259.28	1.95
15948	89.61	358.81	9429.39	12796.09	3352.1	-122.35	402522.8	748237.55	3354.28	0.38
16046	89.41	358.52	9430.23	12796.93	3450.07	-124.64	402620.77	748235.26	3452.27	0.36
16141	88.68	358.13	9431.81	12798.51	3545.01	-127.41	402715.71	748232.49	3547.26	0.87
16236	89.86	358.5	9433.02	12799.72	3639.96	-130.21	402810.66	748229.69	3642.25	1.3
16331	89.89	359.58	9433.23	12799.93	3734.95	-131.8	402905.65	748228.1	3737.24	1.14
16425	89.78	359.63	9433.5	12800.2	3828.95	-132.45	402999.65	748227.45	3831.21	0.13
16521	89.55	0.41	9434.06	12800.76	3924.94	-132.41	403095.64	748227.49	3927.16	0.85
16616	89.47	0.74	9434.87	12801.57	4019.93	-131.46	403190.63	748228.44	4022.08	0.36

[illegible]