



SCHLUMBERGER DIRECTIONAL SURVEY

STEAM RESERVE CORP.

FISH LAKE 188-11-A

FISH LAKE FIELD

EMERALDA COUNTY, NEVADA

RUN NO. 1 1076 - 8378

JANUARY 5, 1985

START OF SURVEY IS CASING AT 1059 FT.

HISTORICAL RADIUS OF CURVATURE METHOD

REFERENCE JOB 10945.

BOTTOM HOLE LOCATION

COURSE LENGTH: 1424.1 FT

COURSE AZIMUTH: 6.7 DEGREES

MEASURED DEPTH: 8376.0 FT

TRUE VERTICAL DEPTH: 8165.3 FT

DISTANCE NORTH: 1414.4 FT

DISTANCE EAST: 165.6 FT

HISTORICAL RADIUS OF CURVATURE METHOD

12/7/16
12/7/16

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES NORTH SOUTH EAST WEST	COURSE LENGTH FT
1059.0	0.2	138	1059.0	0.0 0.0	0.0
1058.0	0.2	138	1058.0	0.0 0.0	0.0
1060.0	0.2	138	1060.0	0.0 0.0	0.0
1070.0	0.2	138	1070.0	0.0 0.0	0.0
1080.0	0.3	122	1080.0	-0.1 0.1	0.1
1090.0	0.2	169	1090.0	-0.1 0.1	0.1
1100.0	0.0	0	1100.0	-0.1 0.1	0.1
1110.0	0.0	0	1110.0	-0.1 0.1	0.1
1120.0	0.0	0	1120.0	-0.1 0.1	0.1
1130.0	0.1	262	1130.0	-0.1 0.1	0.1
1140.0	0.1	215	1140.0	-0.1 0.1	0.1
1150.0	0.2	221	1150.0	-0.1 0.1	0.1
1160.0	0.2	227	1160.0	-0.1 0.1	0.1
1170.0	0.3	227	1170.0	-0.2 0.0	0.2
1180.0	0.4	226	1180.0	-0.2 0.0	0.2
1190.0	0.4	229	1190.0	-0.3 -0.1	0.3
1200.0	0.4	232	1200.0	-0.3 -0.1	0.3
1210.0	0.5	232	1210.0	-0.3 -0.2	0.4
1220.0	0.5	231	1220.0	-0.4 -0.3	0.5
1230.0	0.6	226	1230.0	-0.5 -0.3	0.6
1240.0	0.6	221	1240.0	-0.5 -0.4	0.7
1250.0	0.8	229	1250.0	-0.6 -0.5	0.8
1260.0	0.9	237	1260.0	-0.7 -0.6	0.9
1270.0	0.9	232	1270.0	-0.8 -0.7	1.1
1280.0	0.8	226	1280.0	-0.9 -0.8	1.2
1290.0	0.9	228	1290.0	-1.0 -0.9	1.4
1300.0	0.9	230	1300.0	-1.1 -1.0	1.5
1310.0	0.9	229	1310.0	-1.2 -1.2	1.7
1320.0	1.0	228	1320.0	-1.3 -1.3	1.8
1330.0	1.2	229	1330.0	-1.4 -1.4	2.0
1340.0	1.4	227	1340.0	-1.6 -1.6	2.3
1350.0	1.6	229	1350.0	-1.8 -1.8	2.5
1360.0	1.9	230	1360.0	-2.0 -2.0	2.8
1370.0	2.0	232	1370.0	-2.2 -2.3	3.2
1380.0	2.1	233	1380.0	-2.4 -2.6	3.5
1390.0	2.2	231	1390.0	-2.6 -2.9	3.9
1400.0	2.2	229	1399.9	-2.9 -3.2	4.3
1410.0	2.1	229	1409.9	-3.1 -3.4	4.6
1420.0	2.0	228	1419.9	-3.4 -3.7	5.0
1430.0	2.0	230	1429.9	-3.6 -4.0	5.4
1440.0	2.0	232	1439.9	-3.8 -4.2	5.7
1450.0	1.9	232	1449.9	-4.0 -4.5	6.0
1460.0	1.8	232	1459.9	-4.2 -4.8	6.4
1470.0	1.6	232	1469.9	-4.4 -5.0	6.6
1480.0	1.5	232	1479.9	-4.6 -5.2	6.9
1490.0	1.3	232	1489.9	-4.7 -5.4	7.2

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
1500.0	1.0	232	1499.9	-4.8	-5.6	7.4
1510.0	0.9	224	1509.9	-4.9	-5.7	7.5
1520.0	0.7	215	1519.9	-5.1	-5.8	7.7
1530.0	0.4	191	1529.9	-5.1	-5.8	7.7
1540.0	0.1	166	1539.9	-5.2	-5.7	7.7
1550.0	0.3	123	1549.9	-5.2	-5.7	7.7
1560.0	0.4	80	1559.9	-5.1	-5.7	7.7
1570.0	0.8	76	1569.9	-5.1	-5.5	7.5
1580.0	1.2	71	1579.9	-5.1	-5.4	7.4
1590.0	1.6	67	1589.9	-5.0	-5.1	7.2
1600.0	2.0	62	1599.9	-4.9	-4.9	6.9
1610.0	1.8	76	1609.9	-4.8	-4.6	6.6
1620.0	1.6	90	1619.9	-4.7	-4.3	6.4
1630.0	2.5	81	1629.9	-4.7	-3.9	6.0
1640.0	3.4	78	1639.9	-4.6	-3.4	5.7
1650.0	4.2	72	1649.8	-4.4	-2.7	5.2
1660.0	5.0	65	1659.8	-4.1	-2.0	4.6
1670.0	5.6	62	1669.8	-3.7	-1.2	3.9
1680.0	6.1	59	1679.7	-3.2	-0.3	3.3
1690.0	6.3	59	1689.6	-2.7	0.6	2.7
1700.0	6.5	58	1699.6	-2.1	1.5	2.6
1710.0	6.8	57	1709.5	-1.5	2.5	2.9
1720.0	7.0	56	1719.4	-0.8	3.5	3.6
1730.0	7.1	56	1729.4	-0.1	4.5	4.5
1740.0	7.1	55	1739.3	0.6	5.5	5.6
1750.0	7.2	55	1749.2	1.3	6.6	6.7
1760.0	7.3	55	1759.1	2.0	7.6	7.9
1770.0	7.4	55	1769.1	2.8	8.6	9.1
1780.0	7.5	54	1779.0	3.5	9.7	10.3
1790.0	7.6	41	1788.9	4.5	10.5	11.5
1800.0	7.6	28	1798.8	5.5	11.4	12.6
1810.0	7.7	39	1808.7	6.5	12.2	13.9
1820.0	7.7	50	1818.6	7.5	13.1	15.1
1830.0	7.8	50	1828.5	8.4	14.1	16.4
1840.0	7.8	49	1838.4	9.3	15.1	17.7
1850.0	7.9	51	1848.3	10.2	16.2	19.1
1860.0	7.9	52	1858.3	11.0	17.2	20.4
1870.0	7.9	54	1868.2	11.8	18.3	21.8
1880.0	7.8	56	1878.1	12.6	19.4	23.2
1890.0	7.9	55	1888.0	13.4	20.5	24.5
1900.0	7.9	54	1897.9	14.2	21.7	25.9
1910.0	8.0	55	1907.8	15.0	22.8	27.3
1920.0	8.0	56	1917.7	15.8	23.9	28.7
1930.0	8.2	58	1927.6	16.5	25.1	30.1
1940.0	8.4	60	1937.5	17.3	26.4	31.5
1950.0	8.6	61	1947.4	18.0	27.7	33.0

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE	CO-ORDINATES		COURSE LENGTH FT
			VERTICAL DEPTH FT	+ NORTH - SOUTH	+ EAST - WEST	
1960.0	8.7	62	1957.3	18.7	29.0	34.5
1970.0	8.8	62	1967.1	19.5	30.3	36.0
1980.0	8.9	61	1977.0	20.2	31.6	37.5
1990.0	8.9	62	1986.9	20.9	33.0	39.1
2000.0	9.0	62	1996.8	21.7	34.4	40.6
2010.0	9.0	61	2006.7	22.5	35.7	42.2
2020.0	9.0	59	2016.5	23.2	37.1	43.8
2030.0	8.9	60	2026.4	24.0	38.4	45.3
2040.0	8.8	60	2036.3	24.8	39.8	46.9
2050.0	8.6	55	2046.2	25.7	41.0	48.3
2060.0	8.3	49	2056.1	26.5	42.2	49.8
2070.0	8.5	44	2066.0	27.6	43.2	51.3
2080.0	8.7	38	2075.8	28.7	44.2	52.7
2090.0	9.1	38	2085.7	29.9	45.2	54.2
2100.0	9.5	37	2095.6	31.2	46.1	55.7
2110.0	9.6	35	2105.5	32.5	47.1	57.2
2120.0	9.7	33	2115.3	33.9	48.1	58.8
2130.0	9.9	33	2125.2	35.3	49.0	60.4
2140.0	10.0	32	2135.0	36.8	49.9	62.0
2150.0	10.2	32	2144.9	38.3	50.8	63.6
2160.0	10.3	31	2154.7	39.8	51.7	65.3
2170.0	10.5	30	2164.5	41.4	52.6	66.9
2180.0	10.6	29	2174.4	42.9	53.5	68.6
2190.0	10.8	28	2184.2	44.6	54.4	70.3
2200.0	10.9	27	2194.0	46.2	55.3	72.1
2210.0	11.1	27	2203.8	47.9	56.2	73.8
2220.0	11.2	26	2213.7	49.7	57.0	75.6
2230.0	11.4	19	2223.5	51.5	57.6	77.3
2240.0	11.5	12	2233.3	53.4	58.3	79.0
2250.0	11.6	10	2243.1	55.3	58.6	80.6
2260.0	11.7	7	2252.9	57.3	58.9	82.2
2270.0	11.8	9	2262.6	59.3	59.3	83.9
2280.0	11.8	11	2272.4	61.4	59.6	85.5
2290.0	12.0	10	2282.2	63.4	59.9	87.2
2300.0	12.2	8	2292.0	65.5	60.3	89.0
2310.0	12.3	10	2301.8	67.6	60.6	90.8
2320.0	12.4	11	2311.5	69.7	61.0	92.6
2330.0	12.6	16	2321.3	71.7	61.6	94.5
2340.0	12.7	21	2331.1	73.8	62.2	96.5
2350.0	12.8	25	2340.8	75.8	63.1	98.7
2360.0	12.9	29	2350.6	77.8	64.0	100.8
2370.0	13.0	23	2360.3	79.9	64.9	103.0
2380.0	13.1	17	2370.1	82.0	65.8	105.1
2390.0	13.2	16	2379.8	84.2	66.4	107.2
2400.0	13.3	14	2389.5	86.4	67.0	109.3
2410.0	13.5	22	2399.3	88.5	67.9	111.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE	CO-ORDINATES		COURSE LENGTH FT
			VERTICAL DEPTH FT	+ NORTH - SOUTH	+ EAST - WEST	
2420.0	13.6	30	2409.0	90.7	68.8	113.8
2430.0	13.7	30	2418.7	92.7	69.9	116.1
2440.0	13.8	30	2428.4	94.8	71.1	118.5
2450.0	13.9	30	2438.1	96.9	72.3	120.9
2460.0	14.0	29	2447.8	99.0	73.5	123.3
2470.0	14.1	29	2457.5	101.1	74.7	125.7
2480.0	14.2	28	2467.2	103.2	75.8	128.1
2490.0	14.3	24	2476.9	105.3	77.2	130.5
2500.0	14.4	29	2486.6	107.4	78.5	133.0
2510.0	14.4	33	2496.3	109.4	79.9	135.5
2520.0	14.5	27	2506.0	111.5	81.2	138.0
2530.0	14.6	27	2515.6	113.8	82.4	140.5
2540.0	14.6	27	2525.3	116.0	83.5	142.9
2550.0	14.7	27	2535.0	118.3	84.7	145.5
2560.0	14.7	27	2544.7	120.5	85.8	148.0
2570.0	14.8	27	2554.3	122.8	87.0	150.5
2580.0	14.9	27	2564.0	125.1	88.1	153.0
2590.0	14.9	27	2573.7	127.3	89.3	155.5
2600.0	14.8	27	2583.3	129.6	90.5	158.1
2610.0	14.9	27	2593.0	131.9	91.6	160.6
2620.0	14.9	27	2602.7	134.2	92.8	163.2
2630.0	15.0	27	2612.3	136.5	94.0	165.7
2640.0	15.1	26	2622.0	138.8	95.1	168.3
2650.0	15.1	26	2631.7	141.2	96.2	170.9
2660.0	15.0	26	2641.3	143.5	97.4	173.4
2670.0	15.1	26	2651.0	145.8	98.5	176.0
2680.0	15.2	26	2660.6	148.2	99.7	178.6
2690.0	15.2	26	2670.3	150.5	100.8	181.2
2700.0	15.2	26	2679.9	152.9	102.0	183.8
2710.0	15.2	26	2689.6	155.2	103.1	186.4
2720.0	15.1	26	2699.2	157.6	104.3	189.0
2730.0	15.2	14	2708.9	160.1	104.9	191.4
2740.0	15.2	2	2718.5	162.6	105.5	193.9
2750.0	15.2	6	2728.2	165.2	105.8	196.2
2760.0	15.2	9	2737.8	167.8	106.0	198.5
2770.0	15.2	16	2747.5	170.4	106.7	201.0
2780.0	15.2	22	2757.1	172.9	107.4	203.5
2790.0	15.2	22	2766.8	175.3	108.4	206.1
2800.0	15.2	22	2776.4	177.7	109.4	208.7
2810.0	15.1	23	2786.1	180.2	110.4	211.3
2820.0	15.0	23	2795.7	182.6	111.4	213.9
2830.0	15.2	23	2805.4	185.0	112.4	216.4
2840.0	15.3	23	2815.0	187.4	113.4	219.0
2850.0	15.3	22	2824.7	189.8	114.3	221.6
2860.0	15.3	21	2834.3	192.3	115.3	224.2
2870.0	15.3	22	2844.0	194.7	116.3	226.8

MEAS.		DEVIATION	AZIMUTH	TRUE		CO-ORDINATES		COURSE
DEPTH	FT			DEGREES	DEGREES	VERTICAL	DEPTH	
					FT	- SOUTH	- WEST	FT
2880.0		15.3	23		2853.6	197.2	117.3	229.4
2890.0		15.3	23		2863.3	199.6	118.3	232.0
2900.0		15.3	22		2872.9	202.1	119.3	234.7
2910.0		15.3	13		2882.6	204.6	119.9	237.2
2920.0		15.2	4		2892.2	207.2	120.5	239.7
2930.0		15.3	2		2901.9	209.8	120.4	241.9
2940.0		15.4	359		2911.5	212.4	120.3	244.2
2950.0		15.3	13		2921.2	215.0	120.9	246.7
2960.0		15.2	26		2930.8	217.6	121.5	249.2
2970.0		15.2	26		2940.4	219.9	122.6	251.8
2980.0		15.2	25		2950.1	222.3	123.7	254.4
2990.0		15.2	26		2959.7	224.7	124.9	257.0
3000.0		15.2	26		2969.4	227.0	126.0	259.6
3010.0		15.3	26		2979.0	229.4	127.1	262.3
3020.0		15.3	25		2988.7	231.8	128.3	264.9
3030.0		15.2	26		2998.3	234.1	129.4	267.5
3040.0		15.1	27		3008.0	236.5	130.6	270.1
3050.0		15.2	26		3017.6	238.8	131.7	272.7
3060.0		15.2	25		3027.3	241.2	132.8	275.3
3070.0		15.2	25		3036.9	243.5	134.0	278.0
3080.0		15.2	25		3046.6	245.9	135.1	280.6
3090.0		15.1	17		3056.3	248.4	135.8	283.1
3100.0		15.0	9		3065.9	250.9	136.6	285.7
3110.0		15.0	17		3075.6	253.4	137.3	288.2
3120.0		15.0	24		3085.2	255.8	138.0	290.7
3130.0		15.0	25		3094.9	258.2	139.1	293.3
3140.0		15.0	25		3104.5	260.6	140.2	295.9
3150.0		14.9	24		3114.2	262.9	141.2	298.4
3160.0		14.8	23		3123.9	265.3	142.3	301.0
3170.0		14.9	24		3133.5	267.6	143.3	303.6
3180.0		14.9	24		3143.2	270.0	144.3	306.1
3190.0		14.9	24		3152.9	272.3	145.4	308.7
3200.0		15.0	23		3162.5	274.7	146.4	311.3
3210.0		15.0	23		3172.2	277.1	147.4	313.8
3220.0		15.0	23		3181.8	279.5	148.4	316.4
3230.0		15.0	23		3191.5	281.8	149.4	319.0
3240.0		15.0	23		3201.2	284.2	150.4	321.6
3250.0		14.9	23		3210.8	286.6	151.4	324.1
3260.0		14.9	22		3220.5	289.0	152.4	326.7
3270.0		14.9	23		3230.2	291.4	153.4	329.3
3280.0		14.9	23		3239.8	293.7	154.4	331.8
3290.0		14.9	23		3249.5	296.1	155.4	334.4
3300.0		14.9	23		3259.1	298.5	156.4	337.0
3310.0		14.9	24		3268.8	300.8	157.4	339.5
3320.0		14.9	24		3278.5	303.2	158.4	342.1
3330.0		14.9	24		3288.1	305.5	159.5	344.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
3340.0	14.8	23	3297.8	307.9	160.5	347.2
3350.0	14.8	24	3307.5	310.2	161.5	349.7
3360.0	14.8	25	3317.1	312.6	162.6	352.3
3370.0	15.0	24	3326.8	314.9	163.6	354.9
3380.0	15.1	23	3336.5	317.3	164.7	357.4
3390.0	15.1	25	3346.1	319.6	165.7	360.0
3400.0	15.1	26	3355.8	322.0	166.8	362.7
3410.0	15.1	32	3365.4	324.2	168.2	365.2
3420.0	15.1	37	3375.1	326.4	169.5	367.8
3430.0	15.0	36	3384.7	328.5	171.1	370.4
3440.0	14.9	35	3394.4	330.6	172.6	373.0
3450.0	14.9	35	3404.1	332.7	174.0	375.5
3460.0	14.8	34	3413.7	334.9	175.5	378.0
3470.0	14.7	35	3423.4	336.9	176.9	380.6
3480.0	14.6	35	3433.1	339.0	178.4	383.1
3490.0	14.7	35	3442.8	341.1	179.8	385.6
3500.0	14.7	34	3452.4	343.2	181.2	388.1
3510.0	14.6	34	3462.1	345.3	182.6	390.6
3520.0	14.4	33	3471.8	347.4	184.0	393.1
3530.0	14.4	33	3481.5	349.5	185.3	395.6
3540.0	14.3	32	3491.2	351.6	186.7	398.1
3550.0	14.3	33	3500.9	353.7	188.0	400.5
3560.0	14.3	33	3510.5	355.7	189.3	403.0
3570.0	14.3	33	3520.2	357.8	190.6	405.4
3580.0	14.3	32	3529.9	359.9	192.0	407.9
3590.0	14.3	32	3539.6	362.0	193.3	410.4
3600.0	14.3	31	3549.3	364.1	194.5	412.8
3610.0	14.4	34	3559.0	366.2	195.9	415.3
3620.0	14.4	37	3568.7	368.2	197.3	417.8
3630.0	14.4	38	3578.4	370.2	198.8	420.2
3640.0	14.4	39	3588.1	372.1	200.4	422.7
3650.0	14.5	39	3597.7	374.1	201.9	425.1
3660.0	14.6	38	3607.4	376.1	203.5	427.6
3670.0	14.4	37	3617.1	378.1	205.0	430.1
3680.0	14.2	35	3626.8	380.1	206.5	432.5
3690.0	14.3	29	3636.5	382.2	207.6	435.0
3700.0	14.4	22	3646.2	384.4	208.8	437.4
3710.0	14.4	24	3655.8	386.7	209.8	439.9
3720.0	14.5	25	3665.5	389.0	210.8	442.4
3730.0	14.4	25	3675.2	391.2	211.8	444.9
3740.0	14.4	25	3684.9	393.5	212.9	447.4
3750.0	14.4	26	3694.6	395.7	214.0	449.9
3760.0	14.5	26	3704.3	398.0	215.1	452.4
3770.0	14.5	26	3713.9	400.2	216.1	454.9
3780.0	14.5	26	3723.6	402.5	217.2	457.4
3790.0	14.5	29	3733.3	404.7	218.4	459.9

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				NORTH SOUTH	EAST WEST	
3800.0	14.5	31	3743.0	406.9	219.6	462.4
3810.0	14.4	30	3752.7	409.1	220.9	464.9
3820.0	14.4	29	3762.4	411.2	222.1	467.4
3830.0	14.4	27	3772.0	413.4	223.3	469.9
3840.0	14.4	25	3781.7	415.7	224.4	472.4
3850.0	14.4	25	3791.4	417.9	225.4	474.8
3860.0	14.3	25	3801.1	420.1	226.5	477.3
3870.0	14.3	25	3810.8	422.4	227.5	479.8
3880.0	14.3	24	3820.5	424.6	228.5	482.2
3890.0	14.3	23	3830.2	426.9	229.5	484.7
3900.0	14.3	22	3839.9	429.2	230.5	487.1
3910.0	14.3	22	3849.6	431.5	231.4	489.6
3920.0	14.2	21	3859.3	433.8	232.3	492.0
3930.0	14.3	22	3868.9	436.0	233.2	494.5
3940.0	14.3	23	3878.6	438.3	234.1	496.9
3950.0	14.3	23	3888.3	440.6	235.1	499.4
3960.0	14.2	23	3898.0	442.9	236.0	501.8
3970.0	14.3	23	3907.7	445.1	237.0	504.3
3980.0	14.3	23	3917.4	447.4	238.0	506.7
3990.0	14.3	23	3927.1	449.7	238.9	509.2
4000.0	14.3	23	3936.8	451.9	239.9	511.7
4010.0	14.3	20	3946.5	454.3	240.7	514.1
4020.0	14.3	17	3956.2	456.6	241.6	516.6
4030.0	14.3	22	3965.9	458.9	242.5	519.0
4040.0	14.3	26	3975.5	461.2	243.4	521.5
4050.0	14.3	31	3985.2	463.3	244.7	523.9
4060.0	14.3	36	3994.9	465.4	245.9	526.4
4070.0	14.3	36	4004.6	467.4	247.4	528.8
4080.0	14.3	35	4014.3	469.4	248.8	531.3
4090.0	14.3	33	4024.0	471.5	250.1	533.7
4100.0	14.3	30	4033.7	473.6	251.4	536.2
4110.0	14.3	31	4043.4	475.7	252.7	538.7
4120.0	14.3	31	4053.1	477.8	254.0	541.1
4130.0	14.3	30	4062.8	480.0	255.2	543.6
4140.0	14.2	29	4072.5	482.1	256.4	546.1
4150.0	14.2	30	4082.1	484.2	257.6	548.5
4160.0	14.2	30	4091.8	486.4	258.8	551.0
4170.0	14.2	30	4101.5	488.5	260.1	553.4
4180.0	14.2	30	4111.2	490.6	261.3	555.9
4190.0	14.1	30	4120.9	492.7	262.5	558.3
4200.0	14.0	29	4130.6	494.9	263.7	560.7
4210.0	14.0	31	4140.3	496.9	264.9	563.2
4220.0	14.0	33	4150.0	499.0	266.2	565.6
4230.0	13.9	29	4159.7	501.1	267.3	568.0
4240.0	13.7	24	4169.5	503.2	268.5	570.3
4250.0	13.6	23	4179.2	505.4	269.4	572.7

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGPLES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
4260.0	13.5	22	4168.9	507.5	270.3	575.0
4270.0	13.6	19	4198.6	509.8	271.0	577.3
4280.0	13.6	15	4208.3	512.0	271.8	579.7
4290.0	13.7	14	4218.1	514.3	272.3	581.9
4300.0	13.7	12	4227.8	516.6	272.9	584.2
4310.0	13.7	16	4237.5	518.9	273.5	586.5
4320.0	13.7	19	4247.2	521.1	274.1	588.8
4330.0	13.7	22	4256.9	523.3	275.0	591.2
4340.0	13.7	24	4266.6	525.5	275.9	593.6
4350.0	13.8	24	4276.3	527.7	276.9	595.9
4360.0	13.8	24	4286.1	529.9	277.8	598.3
4370.0	13.9	25	4295.8	532.1	278.8	600.7
4380.0	14.0	25	4305.5	534.3	279.8	603.1
4390.0	14.1	26	4315.2	536.5	280.9	605.5
4400.0	14.1	26	4324.9	538.6	281.9	607.9
4410.0	14.2	26	4334.6	540.8	283.0	610.4
4420.0	14.2	25	4344.3	543.1	284.0	612.8
4430.0	14.2	25	4354.0	545.3	285.0	615.3
4440.0	14.2	25	4363.7	547.5	286.1	617.7
4450.0	14.3	24	4373.3	549.8	287.1	620.2
4460.0	14.4	23	4383.0	552.0	288.1	622.7
4470.0	14.5	14	4392.7	554.4	288.7	625.1
4480.0	14.6	5	4402.4	556.9	289.3	627.5
4490.0	14.8	12	4412.1	559.3	289.8	630.0
4500.0	15.0	19	4421.7	561.8	290.4	632.4
4510.0	15.1	23	4431.4	564.2	291.3	635.0
4520.0	15.1	26	4441.1	566.6	292.3	637.6
4530.0	15.2	34	4450.7	568.8	293.8	640.2
4540.0	15.3	41	4460.4	571.0	295.2	642.8
4550.0	15.4	34	4470.0	573.2	296.7	645.4
4560.0	15.4	26	4479.6	575.4	298.1	648.0
4570.0	15.4	28	4489.3	577.8	299.4	650.7
4580.0	15.5	29	4498.9	580.1	300.6	653.4
4590.0	15.7	32	4508.5	582.4	302.0	656.1
4600.0	15.8	34	4518.2	584.7	303.4	658.8
4610.0	15.8	36	4527.8	586.9	305.0	661.4
4620.0	15.7	38	4537.4	589.1	306.6	664.1
4630.0	15.8	33	4547.0	591.4	308.1	666.8
4640.0	15.8	28	4556.7	593.7	309.6	669.5
4650.0	15.8	30	4566.3	596.0	310.9	672.2
4660.0	15.8	32	4575.9	598.4	312.3	675.0
4670.0	15.9	30	4585.5	600.7	313.6	677.7
4680.0	15.9	28	4595.2	603.1	315.0	680.4
4690.0	15.9	30	4604.8	605.5	316.4	683.2
4700.0	16.0	31	4614.4	607.9	317.7	685.9
4710.0	16.0	31	4624.0	610.3	319.1	688.7

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				NORTH SOUTH	EAST WEST	
4720.0	16.0	30	4633.6	612.6	320.5	691.4
4730.0	16.0	32	4643.2	615.0	322.0	694.2
4740.0	16.0	33	4652.8	617.3	323.4	696.9
4750.0	16.1	30	4662.4	619.7	324.8	699.7
4760.0	16.3	27	4672.0	622.1	326.2	702.5
4770.0	16.0	33	4681.7	624.5	327.7	705.2
4780.0	15.8	38	4691.3	626.8	329.1	708.0
4790.0	15.9	38	4700.9	629.0	330.8	710.7
4800.0	15.9	37	4710.5	631.1	332.5	713.4
4810.0	15.8	35	4720.1	633.4	334.0	716.1
4820.0	15.7	33	4729.8	635.6	335.6	718.8
4830.0	15.7	32	4739.4	637.9	337.0	721.5
4840.0	15.7	31	4749.0	640.2	338.5	724.2
4850.0	15.8	31	4758.6	642.5	339.9	726.9
4860.0	15.9	31	4768.2	644.9	341.3	729.6
4870.0	15.9	31	4777.9	647.2	342.7	732.3
4880.0	16.0	31	4787.5	649.6	344.1	735.1
4890.0	16.1	30	4797.1	652.0	345.5	737.8
4900.0	16.1	28	4806.7	654.4	346.8	740.6
4910.0	16.2	31	4816.3	656.8	348.3	743.4
4920.0	16.2	34	4825.9	659.1	349.7	746.2
4930.0	16.1	35	4835.5	661.4	351.3	748.9
4940.0	16.0	35	4845.1	663.7	352.8	751.7
4950.0	16.1	30	4854.7	666.1	354.2	754.4
4960.0	16.1	24	4864.3	668.5	355.5	757.2
4970.0	16.1	11	4874.0	671.2	355.0	759.3
4980.0	16.0	358	4883.6	673.9	354.5	761.5
4990.0	16.0	9	4893.2	676.6	354.9	764.0
5000.0	16.0	20	4902.8	679.3	355.4	766.6
5010.0	16.0	20	4912.4	681.9	356.3	769.4
5020.0	16.0	20	4922.0	684.5	357.2	772.1
5030.0	16.1	22	4931.6	687.1	358.3	774.9
5040.0	16.3	23	4941.2	689.7	359.3	777.6
5050.0	16.3	22	4950.8	692.3	360.3	780.4
5060.0	16.2	20	4960.4	694.9	361.3	783.2
5070.0	16.2	20	4970.0	697.5	362.3	786.0
5080.0	16.2	19	4979.6	700.1	363.2	788.7
5090.0	16.3	20	4989.2	702.8	364.1	791.5
5100.0	16.3	21	4998.8	705.4	365.1	794.3
5110.0	16.4	21	5008.4	708.0	366.1	797.1
5120.0	16.5	21	5018.0	710.7	367.1	799.9
5130.0	16.4	12	5027.6	713.4	367.7	802.6
5140.0	16.3	3	5037.2	716.2	368.3	805.3
5150.0	16.3	14	5046.8	718.9	368.9	808.0
5160.0	16.3	24	5056.4	721.6	369.6	810.7
5170.0	16.3	29	5066.0	724.1	370.9	813.5

MEAS. DEPTH	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE		CO-ORDINATES		COURSE LENGTH
			VERTICAL DEPTH	FT	+ NORTH	+ EAST	
5180.0	16.3	33	5075.6	726.5	372.3	816.3	
5190.0	16.4	31	5085.2	728.9	373.7	819.2	
5200.0	16.4	28	5094.8	731.4	375.1	822.0	
5210.0	16.3	33	5104.4	733.7	376.7	824.8	
5220.0	16.2	38	5114.0	736.1	378.2	827.5	
5230.0	16.2	33	5123.6	738.4	379.7	830.3	
5240.0	16.2	28	5133.2	740.7	381.2	833.1	
5250.0	16.2	33	5142.8	743.1	382.7	835.9	
5260.0	16.2	38	5152.4	745.4	384.3	838.6	
5270.0	16.3	31	5162.0	747.8	385.7	841.4	
5280.0	16.3	24	5171.6	750.2	387.1	844.2	
5290.0	16.1	24	5181.2	752.8	388.2	847.0	
5300.0	16.0	23	5190.8	755.3	389.3	849.8	
5310.0	16.0	23	5200.4	757.8	390.4	852.5	
5320.0	16.0	23	5210.0	760.4	391.5	855.3	
5330.0	15.9	23	5219.7	762.9	392.6	858.0	
5340.0	15.8	23	5229.3	765.4	393.6	860.7	
5350.0	15.7	12	5238.9	768.1	394.2	863.3	
5360.0	15.6	1	5248.5	770.7	394.8	865.9	
5370.0	15.5	11	5258.2	773.3	395.3	868.5	
5380.0	15.4	21	5267.8	775.9	395.8	871.0	
5390.0	15.4	29	5277.4	778.2	397.1	873.7	
5400.0	15.4	37	5287.1	780.5	398.3	876.3	
5410.0	15.4	35	5296.7	782.7	399.8	878.9	
5420.0	15.3	32	5306.4	784.9	401.3	881.6	
5430.0	15.3	33	5316.0	787.1	402.8	884.2	
5440.0	15.3	33	5325.7	789.4	404.2	886.8	
5450.0	15.3	30	5335.3	791.6	405.5	889.4	
5460.0	15.2	26	5345.0	793.9	406.8	892.1	
5470.0	15.1	27	5354.6	796.2	407.9	894.7	
5480.0	15.0	28	5364.3	798.6	409.1	897.3	
5490.0	15.0	31	5373.9	800.8	410.4	899.9	
5500.0	15.0	33	5383.6	803.0	411.8	902.4	
5510.0	15.0	30	5393.2	805.3	413.1	905.0	
5520.0	15.0	27	5402.9	807.5	414.3	907.6	
5530.0	14.9	20	5412.6	809.9	415.2	910.2	
5540.0	14.9	12	5422.2	812.4	416.1	912.7	
5550.0	14.9	5	5431.9	814.9	415.9	914.9	
5560.0	14.9	357	5441.5	817.5	415.7	917.1	
5570.0	14.9	4	5451.2	820.0	415.8	919.4	
5580.0	14.8	10	5460.9	822.6	416.0	921.8	
5590.0	14.7	10	5470.6	825.1	416.4	924.2	
5600.0	14.6	10	5480.2	827.6	416.9	926.6	
5610.0	14.6	16	5489.9	830.0	417.5	929.1	
5620.0	14.5	21	5499.6	832.4	418.2	931.6	
5630.0	14.4	24	5509.3	834.7	419.2	934.0	

MEAS. DEPTH	DEVIATION DEGREES	AZINUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
5640.0	14.4	27	5519.0	837.0	420.2	936.5
5650.0	14.4	30	5528.6	839.1	421.4	939.0
5660.0	14.4	32	5538.3	841.3	422.7	941.5
5670.0	14.4	31	5548.0	843.4	423.9	944.0
5680.0	14.3	29	5557.7	845.6	425.2	946.4
5690.0	14.3	29	5567.4	847.7	426.4	948.9
5700.0	14.2	29	5577.1	849.9	427.6	951.4
5710.0	14.1	30	5586.8	852.0	428.8	953.8
5720.0	13.9	31	5596.5	854.1	430.0	956.2
5730.0	13.9	29	5606.2	856.2	431.1	958.6
5740.0	13.9	26	5615.9	858.3	432.3	961.0
5750.0	13.6	11	5625.6	860.6	431.8	962.9
5760.0	13.4	356	5635.3	862.9	431.4	964.7
5770.0	13.3	354	5645.1	865.2	431.1	966.6
5780.0	13.1	351	5654.8	867.4	430.9	968.6
5790.0	13.1	354	5664.5	869.7	430.6	970.4
5800.0	13.0	356	5674.3	871.9	430.4	972.3
5810.0	12.9	5	5684.0	874.1	430.5	974.4
5820.0	12.7	13	5693.8	876.3	430.7	976.5
5830.0	12.5	3	5703.5	878.5	430.6	978.3
5840.0	12.3	352	5713.3	880.6	430.5	980.2
5850.0	12.2	3	5723.1	882.7	430.6	982.2
5860.0	12.1	14	5732.9	884.8	430.8	984.1
5870.0	11.9	17	5742.6	886.8	431.4	986.1
5880.0	11.7	20	5752.4	888.8	432.0	988.2
5890.0	11.7	20	5762.2	890.7	432.6	990.2
5900.0	11.6	20	5772.0	892.6	433.3	992.2
5910.0	11.4	21	5781.8	894.4	434.0	994.2
5920.0	11.2	22	5791.6	896.3	434.8	996.1
5930.0	11.1	20	5801.4	898.1	435.4	998.0
5940.0	11.0	18	5811.3	899.9	436.1	1000.0
5950.0	10.8	20	5821.1	901.6	436.7	1001.8
5960.0	10.6	22	5830.9	903.4	437.4	1003.7
5970.0	10.5	19	5840.7	905.1	437.9	1005.5
5980.0	10.4	15	5850.6	906.8	438.5	1007.3
5990.0	10.4	17	5860.4	908.6	439.0	1009.1
6000.0	10.3	18	5870.2	910.3	439.5	1010.9
6010.0	10.6	18	5880.1	912.1	440.1	1012.7
6020.0	10.6	17	5889.9	913.8	440.6	1014.5
6030.0	10.7	16	5899.7	915.6	441.1	1016.3
6040.0	10.8	14	5909.5	917.4	441.6	1018.2
6050.0	11.0	13	5919.4	919.2	442.1	1020.0
6060.0	11.1	12	5929.2	921.1	442.5	1021.8
6070.0	11.3	13	5939.0	923.0	442.9	1023.8
6080.0	11.4	13	5948.8	924.9	443.3	1025.7
6090.0	11.6	13	5958.6	926.9	443.8	1027.6

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE	CO-ORDINATES		COURSE LENGTH FT
			VERTICAL DEPTH FT	NORTH SOUTH	EAST WEST	
6100.0	11.8	32	5968.4	928.8	444.2	1029.6
6110.0	12.1	9	5978.2	930.9	444.5	1031.6
6120.0	12.3	6	5987.9	933.0	444.9	1033.6
6130.0	12.5	6	5997.7	935.1	445.1	1035.6
6140.0	12.7	5	6007.5	937.3	445.3	1037.7
6150.0	12.9	5	6017.2	939.5	445.5	1039.8
6160.0	13.2	5	6027.0	941.7	445.7	1041.9
6170.0	13.4	5	6036.7	944.0	445.9	1044.0
6180.0	13.6	5	6046.4	946.3	446.1	1046.2
6190.0	13.9	5	6056.1	948.7	446.3	1048.4
6200.0	14.1	4	6065.8	951.1	446.4	1050.7
6210.0	14.4	4	6075.5	953.6	446.6	1053.0
6220.0	14.7	3	6085.2	956.1	446.7	1055.3
6230.0	14.9	1	6094.9	958.7	446.7	1057.6
6240.0	15.2	359	6104.8	961.2	446.7	1059.9
6250.0	15.4	1	6114.2	963.9	446.7	1062.4
6260.0	15.6	2	6123.8	966.5	446.7	1064.8
6270.0	15.9	360	6133.4	969.3	446.7	1067.2
6280.0	16.1	357	6143.1	972.0	446.7	1069.7
6290.0	16.2	358	6152.7	974.8	446.5	1072.2
6300.0	16.3	358	6162.3	977.6	446.4	1074.7
6310.0	16.4	360	6171.9	980.4	446.4	1077.3
6320.0	16.4	1	6181.5	983.2	446.5	1079.8
6330.0	16.4	359	6191.0	986.0	446.4	1082.4
6340.0	16.3	357	6200.6	988.8	446.4	1084.9
6350.0	16.4	358	6210.2	991.7	446.3	1087.4
6360.0	16.4	359	6219.8	994.5	446.2	1090.0
6370.0	16.4	358	6229.4	997.3	446.1	1092.5
6380.0	16.4	357	6239.0	1000.1	446.0	1095.0
6390.0	16.5	357	6248.6	1002.9	445.8	1097.6
6400.0	16.5	357	6258.2	1005.8	445.7	1100.1
6410.0	16.6	358	6267.8	1008.6	445.5	1102.6
6420.0	16.6	358	6277.4	1011.5	445.4	1105.2
6430.0	16.6	357	6287.0	1014.3	445.3	1107.7
6440.0	16.6	356	6296.5	1017.2	445.1	1110.3
6450.0	16.6	357	6306.1	1020.0	444.9	1112.8
6460.0	16.6	357	6315.7	1022.9	444.8	1115.4
6470.0	16.7	356	6325.3	1025.7	444.6	1117.9
6480.0	16.7	355	6334.9	1028.6	444.4	1120.5
6490.0	16.8	354	6344.4	1031.4	444.0	1123.0
6500.0	16.8	352	6354.0	1034.3	443.7	1125.5
6510.0	16.9	354	6363.6	1037.2	443.4	1128.0
6520.0	16.9	355	6373.2	1040.1	443.1	1130.5
6530.0	17.0	356	6382.7	1043.0	442.9	1133.1
6540.0	17.0	357	6392.3	1045.9	442.7	1135.7
6550.0	17.0	354	6401.9	1048.8	442.4	1138.3

* NEAS. * * DEPTH * * FT *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE * * VERTICAL * * DEPTH * * FT *	* CO-ORDINATES * * NORTH * * SOUTH * * EAST * * WEST *	* COURSE * * LENGTH * * FT *
6560.0	16.9	351	6411.4	1051.7 442.0	1140.8
6570.0	16.9	352	6421.0	1054.6 441.6	1143.3
6580.0	16.9	353	6430.6	1057.4 441.2	1145.6
6590.0	16.8	352	6440.1	1060.3 440.8	1148.3
6600.0	16.8	350	6449.7	1063.1 440.4	1150.7
6610.0	16.8	350	6459.3	1066.0 439.9	1153.2
6620.0	16.8	349	6468.9	1068.8 439.3	1155.6
6630.0	16.8	349	6478.4	1071.7 438.8	1158.0
6640.0	16.7	349	6488.0	1074.5 438.2	1160.4
6650.0	16.7	349	6497.6	1077.3 437.7	1162.8
6660.0	16.7	348	6507.2	1080.1 437.1	1165.2
6670.0	16.7	349	6516.7	1082.9 436.5	1167.6
6680.0	16.6	349	6526.3	1085.7 435.9	1170.0
6690.0	16.6	349	6535.9	1088.5 435.4	1172.4
6700.0	16.6	349	6545.5	1091.3 434.9	1174.8
6710.0	16.6	349	6555.1	1094.1 434.3	1177.2
6720.0	16.6	348	6564.7	1096.9 433.7	1179.6
6730.0	16.5	349	6574.3	1099.7 433.2	1182.0
6740.0	16.3	350	6583.8	1102.5 432.6	1184.3
6750.0	16.3	349	6593.4	1105.2 432.1	1186.7
6760.0	16.3	347	6603.0	1108.0 431.5	1189.1
6770.0	16.2	348	6612.6	1110.7 430.9	1191.4
6780.0	16.1	349	6622.2	1113.5 430.4	1193.7
6790.0	16.0	349	6631.9	1116.2 429.8	1196.1
6800.0	15.9	349	6641.5	1118.9 429.3	1198.4
6810.0	15.8	347	6651.1	1121.5 428.7	1200.7
6820.0	15.7	345	6660.7	1124.2 428.1	1202.9
6830.0	15.6	344	6670.3	1126.7 427.3	1205.0
6840.0	15.4	342	6680.0	1129.3 426.6	1207.2
6850.0	15.4	343	6689.6	1131.8 425.8	1209.3
6860.0	15.3	344	6699.3	1134.4 425.0	1211.4
6870.0	15.3	342	6708.9	1136.9 424.2	1213.4
6880.0	15.2	340	6718.6	1139.4 423.4	1215.5
6890.0	15.2	339	6728.2	1141.8 422.4	1217.5
6900.0	15.1	338	6737.9	1144.3 421.5	1219.4
6910.0	15.1	339	6747.5	1146.7 420.6	1221.4
6920.0	15.0	340	6757.2	1149.1 419.7	1223.3
6930.0	14.9	338	6766.8	1151.5 418.7	1225.2
6940.0	14.9	336	6776.5	1153.9 417.7	1227.2
6950.0	14.9	336	6786.2	1156.2 416.7	1229.0
6960.0	14.8	336	6795.8	1158.6 415.6	1230.9
6970.0	14.8	336	6805.5	1160.9 414.6	1232.7
6980.0	14.7	336	6815.2	1163.2 413.6	1234.5
6990.0	14.7	336	6824.9	1165.5 412.5	1236.4
7000.0	14.6	336	6834.5	1167.8 411.5	1238.2
7010.0	14.5	335	6844.2	1170.1 410.5	1240.0

* MEAS. DEPTH * * FT *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE VERTICAL * * DEPTH * * FT *	* COORDINATES *		* COURSE * * LENGTH * * FT *
				* + NORTH * * - SOUTH *	* + EAST * * - WEST *	
* 7020.0 *	* 14.3 *	* 334 *	* 6853.9 *	* 1172.4 *	* 409.4 *	* 1241.8 *
* 7030.0 *	* 14.3 *	* 335 *	* 6863.6 *	* 1174.6 *	* 408.4 *	* 1243.6 *
* 7040.0 *	* 14.2 *	* 336 *	* 6873.3 *	* 1176.8 *	* 407.3 *	* 1245.3 *
* 7050.0 *	* 14.2 *	* 337 *	* 6883.0 *	* 1179.1 *	* 406.4 *	* 1247.1 *
* 7060.0 *	* 14.1 *	* 338 *	* 6892.7 *	* 1181.3 *	* 405.4 *	* 1249.0 *
* 7070.0 *	* 14.0 *	* 337 *	* 6902.4 *	* 1183.5 *	* 404.4 *	* 1250.7 *
* 7080.0 *	* 13.8 *	* 335 *	* 6912.1 *	* 1185.7 *	* 403.5 *	* 1252.5 *
* 7090.0 *	* 13.7 *	* 335 *	* 6921.8 *	* 1187.9 *	* 402.5 *	* 1254.2 *
* 7100.0 *	* 13.6 *	* 334 *	* 6931.5 *	* 1190.0 *	* 401.4 *	* 1255.9 *
* 7110.0 *	* 13.6 *	* 334 *	* 6941.2 *	* 1192.1 *	* 400.4 *	* 1257.6 *
* 7120.0 *	* 13.5 *	* 333 *	* 6951.0 *	* 1194.2 *	* 399.4 *	* 1259.2 *
* 7130.0 *	* 13.3 *	* 334 *	* 6960.7 *	* 1196.3 *	* 398.3 *	* 1260.9 *
* 7140.0 *	* 13.1 *	* 335 *	* 6970.4 *	* 1198.3 *	* 397.3 *	* 1262.5 *
* 7150.0 *	* 13.1 *	* 336 *	* 6980.2 *	* 1200.4 *	* 396.4 *	* 1264.2 *
* 7160.0 *	* 13.0 *	* 336 *	* 6989.9 *	* 1202.5 *	* 395.5 *	* 1265.8 *
* 7170.0 *	* 12.9 *	* 335 *	* 6999.6 *	* 1204.5 *	* 394.5 *	* 1267.5 *
* 7180.0 *	* 12.9 *	* 334 *	* 7009.4 *	* 1206.5 *	* 393.6 *	* 1269.1 *
* 7190.0 *	* 12.9 *	* 333 *	* 7019.1 *	* 1208.5 *	* 392.5 *	* 1270.6 *
* 7200.0 *	* 12.8 *	* 331 *	* 7028.9 *	* 1210.5 *	* 391.5 *	* 1272.2 *
* 7210.0 *	* 12.7 *	* 331 *	* 7038.6 *	* 1212.4 *	* 390.5 *	* 1273.7 *
* 7220.0 *	* 12.6 *	* 331 *	* 7048.4 *	* 1214.3 *	* 389.4 *	* 1275.2 *
* 7230.0 *	* 12.5 *	* 331 *	* 7058.2 *	* 1216.2 *	* 388.3 *	* 1276.7 *
* 7240.0 *	* 12.4 *	* 330 *	* 7067.9 *	* 1218.1 *	* 387.3 *	* 1278.2 *
* 7250.0 *	* 12.3 *	* 330 *	* 7077.7 *	* 1219.9 *	* 386.2 *	* 1279.6 *
* 7260.0 *	* 12.2 *	* 329 *	* 7087.5 *	* 1221.8 *	* 385.1 *	* 1281.0 *
* 7270.0 *	* 12.1 *	* 331 *	* 7097.3 *	* 1223.6 *	* 384.1 *	* 1282.4 *
* 7280.0 *	* 12.0 *	* 332 *	* 7107.0 *	* 1225.4 *	* 383.0 *	* 1283.9 *
* 7290.0 *	* 11.9 *	* 331 *	* 7116.8 *	* 1227.2 *	* 382.0 *	* 1285.3 *
* 7300.0 *	* 11.9 *	* 330 *	* 7126.6 *	* 1229.0 *	* 381.0 *	* 1286.7 *
* 7310.0 *	* 11.8 *	* 329 *	* 7136.4 *	* 1230.8 *	* 380.0 *	* 1288.1 *
* 7320.0 *	* 11.6 *	* 327 *	* 7146.2 *	* 1232.5 *	* 378.9 *	* 1289.4 *
* 7330.0 *	* 11.6 *	* 326 *	* 7156.0 *	* 1234.2 *	* 377.8 *	* 1290.7 *
* 7340.0 *	* 11.5 *	* 325 *	* 7165.8 *	* 1235.8 *	* 376.7 *	* 1291.9 *
* 7350.0 *	* 11.4 *	* 326 *	* 7175.6 *	* 1237.4 *	* 375.5 *	* 1293.2 *
* 7360.0 *	* 11.4 *	* 326 *	* 7185.4 *	* 1239.1 *	* 374.4 *	* 1294.4 *
* 7370.0 *	* 11.4 *	* 325 *	* 7195.2 *	* 1240.7 *	* 373.3 *	* 1295.6 *
* 7380.0 *	* 11.4 *	* 324 *	* 7205.0 *	* 1242.3 *	* 372.1 *	* 1296.9 *
* 7390.0 *	* 11.4 *	* 324 *	* 7214.8 *	* 1243.9 *	* 371.0 *	* 1298.1 *
* 7400.0 *	* 11.4 *	* 324 *	* 7224.6 *	* 1245.5 *	* 369.8 *	* 1299.3 *
* 7410.0 *	* 11.5 *	* 322 *	* 7234.4 *	* 1247.1 *	* 368.6 *	* 1300.4 *
* 7420.0 *	* 11.6 *	* 320 *	* 7244.2 *	* 1248.7 *	* 367.4 *	* 1301.6 *
* 7430.0 *	* 11.7 *	* 320 *	* 7254.0 *	* 1250.2 *	* 366.0 *	* 1302.7 *
* 7440.0 *	* 11.8 *	* 319 *	* 7263.8 *	* 1251.7 *	* 364.7 *	* 1303.8 *
* 7450.0 *	* 11.9 *	* 319 *	* 7273.6 *	* 1253.3 *	* 363.4 *	* 1304.9 *
* 7460.0 *	* 12.0 *	* 318 *	* 7283.3 *	* 1254.8 *	* 362.0 *	* 1306.0 *
* 7470.0 *	* 12.1 *	* 318 *	* 7293.1 *	* 1256.4 *	* 360.6 *	* 1307.1 *

NEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE	CO-ORDINATES			COURSE LENGTH FT
			VERTICAL DEPTH FT	NORTH	EAST	SOUTH	
7480.0	12.2	318	7302.9	1257.9	359.2	1308.2	
7490.0	12.4	306	7312.7	1259.2	357.5	1309.0	
7500.0	12.5	294	7322.4	1260.4	355.8	1309.7	
7510.0	12.6	307	7332.2	1261.7	354.0	1310.5	
7520.0	12.7	319	7341.9	1263.0	352.3	1311.2	
7530.0	13.0	320	7351.7	1264.7	350.8	1312.5	
7540.0	13.3	320	7361.4	1266.4	349.3	1313.7	
7550.0	13.5	320	7371.2	1268.2	347.8	1315.1	
7560.0	13.7	319	7380.9	1270.0	346.3	1316.4	
7570.0	13.9	318	7390.6	1271.8	344.7	1317.7	
7580.0	14.1	317	7400.3	1273.6	343.1	1319.0	
7590.0	14.4	316	7410.0	1275.3	341.4	1320.2	
7600.0	14.6	315	7419.7	1277.1	339.7	1321.5	
7610.0	14.7	316	7429.3	1279.0	337.9	1322.8	
7620.0	14.8	317	7439.0	1280.8	336.1	1324.2	
7630.0	15.2	316	7448.7	1282.6	334.3	1325.5	
7640.0	15.5	314	7458.3	1284.5	332.5	1326.8	
7650.0	15.7	305	7467.9	1286.1	330.3	1327.8	
7660.0	15.9	296	7477.6	1287.6	328.1	1328.7	
7670.0	15.9	306	7487.2	1289.2	325.9	1329.7	
7680.0	15.9	316	7496.8	1290.8	323.6	1330.8	
7690.0	16.0	314	7506.4	1292.7	321.7	1332.1	
7700.0	16.1	312	7516.0	1294.6	319.7	1333.5	
7710.0	16.3	313	7525.6	1296.5	317.6	1334.9	
7720.0	16.4	314	7535.2	1298.4	315.6	1336.2	
7730.0	16.4	313	7544.8	1300.4	313.5	1337.6	
7740.0	16.3	312	7554.4	1302.3	311.5	1339.0	
7750.0	16.4	311	7564.0	1304.1	309.3	1340.3	
7760.0	16.4	310	7573.6	1306.0	307.2	1341.6	
7770.0	16.5	310	7583.2	1307.8	305.0	1342.9	
7780.0	16.6	309	7592.8	1309.6	302.8	1344.2	
7790.0	16.6	309	7602.4	1311.4	300.6	1345.4	
7800.0	16.5	309	7612.0	1313.2	298.4	1346.7	
7810.0	16.5	309	7621.6	1315.0	296.2	1347.9	
7820.0	16.5	309	7631.1	1316.8	294.0	1349.2	
7830.0	16.6	309	7640.7	1318.5	291.8	1350.4	
7840.0	16.6	308	7650.3	1320.3	289.5	1351.7	
7850.0	16.6	308	7659.9	1322.1	287.3	1352.9	
7860.0	16.6	308	7669.5	1323.8	285.0	1354.2	
7870.0	16.6	309	7679.1	1325.6	282.8	1355.4	
7880.0	16.6	309	7688.6	1327.4	280.6	1356.7	
7890.0	16.7	309	7698.2	1329.2	278.3	1358.0	
7900.0	16.7	308	7707.8	1330.9	276.1	1359.3	
7910.0	16.8	309	7717.4	1332.7	273.8	1360.6	
7920.0	16.8	309	7727.0	1334.5	271.6	1361.9	
7930.0	16.8	310	7736.5	1336.4	269.4	1363.3	

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE	CO-ORDINATES		COURSE LENGTH FT
			VERTICAL DEPTH FT	+ NORTH - SOUTH	+ EAST - WEST	
7940.0	16.8	311	7746.1	1338.2	267.1	1364.6
7950.0	16.9	310	7755.7	1340.1	264.9	1366.0
7960.0	16.9	309	7765.2	1342.0	262.7	1367.4
7970.0	16.9	310	7774.8	1343.8	260.5	1368.8
7980.0	16.8	310	7784.4	1345.7	258.2	1370.2
7990.0	16.8	308	7794.0	1347.4	255.9	1371.5
8000.0	16.7	305	7803.5	1349.2	253.7	1372.8
8010.0	16.8	308	7813.1	1350.9	251.4	1374.1
8020.0	16.9	310	7822.7	1352.7	249.1	1375.4
8030.0	17.0	311	7832.3	1354.6	246.9	1376.9
8040.0	17.0	311	7841.8	1356.5	244.6	1378.4
8050.0	17.1	311	7851.4	1358.4	242.4	1379.8
8060.0	17.2	310	7860.9	1360.3	240.2	1381.3
8070.0	17.3	310	7870.5	1362.2	237.9	1382.8
8080.0	17.3	310	7880.0	1364.1	235.6	1384.3
8090.0	17.3	310	7889.6	1366.0	233.3	1385.8
8100.0	17.2	310	7899.1	1367.9	231.1	1387.3
8110.0	17.2	308	7908.7	1369.7	228.7	1388.7
8120.0	17.1	305	7918.2	1371.5	226.4	1390.1
8130.0	17.1	308	7927.6	1373.3	224.1	1391.5
8140.0	17.1	310	7937.4	1375.1	221.7	1392.8
8150.0	17.1	309	7946.9	1376.9	219.4	1394.3
8160.0	17.0	307	7956.5	1378.7	217.1	1395.7
8170.0	16.9	307	7966.1	1380.5	214.8	1397.1
8180.0	16.8	307	7975.6	1382.2	212.5	1398.5
8190.0	16.8	307	7985.2	1384.0	210.2	1399.8
8200.0	16.7	307	7994.8	1385.7	207.9	1401.2
8210.0	16.6	306	8004.4	1387.4	205.6	1402.5
8220.0	16.5	304	8013.9	1389.0	203.3	1403.8
8230.0	16.6	303	8023.5	1390.6	200.9	1405.0
8240.0	16.6	302	8033.1	1392.1	198.5	1406.2
8250.0	16.8	304	8042.7	1393.7	196.1	1407.4
8260.0	16.9	305	8052.3	1395.3	193.7	1408.7
8270.0	16.9	304	8061.8	1396.9	191.2	1409.9
8280.0	16.9	302	8071.4	1398.5	188.8	1411.2
8290.0	17.0	304	8081.0	1400.1	186.4	1412.5
8300.0	17.0	305	8090.5	1401.7	184.0	1413.7
8310.0	17.0	305	8100.1	1403.4	181.6	1415.1
8320.0	16.9	305	8109.7	1405.1	179.2	1416.5
8330.0	16.9	306	8119.2	1406.8	176.8	1417.8
8340.0	16.9	306	8128.8	1408.4	174.5	1419.2
8350.0	16.6	306	8138.4	1410.1	172.1	1420.6
8360.0	16.4	306	8148.0	1411.8	169.8	1422.0
8370.0	16.1	301	8157.6	1413.3	167.5	1423.1
8378.0	15.9	297	8165.3	1414.4	165.6	1424.1

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