

DIRECTIONAL SURVEY FOR WELL

PRINT HEX(05)

RAW DATA

L06-3

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

%C	No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
	1	690	19.50	N - 64.00 - E
	2	786	21.00	N - 48.00 - E
	3	848	23.50	N - 40.00 - E
	4	1066	31.00	N - 44.00 - E
	5	1233	33.00	N - 45.00 - E
	6	1389	32.00	N - 47.00 - E
	7	1557	31.00	N - 49.50 - E
	8	1712	31.00	N - 48.00 - E
	9	1869	31.00	N - 48.00 - E
	10	2020	32.00	N - 49.00 - E
	11	2209	33.00	N - 52.00 - E
	12	2399	34.00	N - 59.50 - E
	13	2525	34.00	N - 60.50 - E
	14	2730	39.00	N - 47.00 - E
	15	2889	37.00	N - 47.00 - E
	16	3046	37.00	N - 48.00 - E
	17	3267	37.00	N - 50.50 - E
	18	3425	37.50	N - 52.00 - E
	19	3733	37.50	N - 54.50 - E
	20	4080	38.50	N - 56.50 - E
	21	4459	36.50	N - 58.00 - E
	22	4833	34.50	N - 66.00 - E
	23	5113	33.50	N - 78.00 - E
	24	5490	32.00	N - 79.00 - E

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COMPUTATIONS AT 10 FEET INCREMENTS

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	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE	
*	396	382.50	332.50	N	61.68	E	81.85	102.49 *
	400	386.36	336.36	N	62.13	E	82.78	103.51
	410	396.01	346.01	N	63.28	E	85.14	106.09
	420	405.66	355.66	N	64.44	E	87.52	108.69
	430	415.29	365.29	N	65.62	E	89.93	111.32
	440	424.92	374.92	N	66.80	E	92.36	113.99
	450	434.54	384.54	N	68.00	E	94.81	116.67
	460	444.15	394.15	N	69.20	E	97.28	119.39
	470	453.76	403.76	N	70.42	E	99.78	122.13
	480	463.36	413.36	N	71.65	E	102.30	124.90
	490	472.95	422.95	N	72.89	E	104.84	127.69
	500	482.53	432.53	N	74.14	E	107.41	130.52
	510	492.11	442.11	N	75.41	E	110.00	133.37
	520	501.68	451.68	N	76.68	E	112.61	136.24
	530	511.24	461.24	N	77.97	E	115.25	139.15
	540	520.79	470.79	N	79.26	E	117.91	142.07
	550	530.34	480.34	N	80.57	E	120.59	145.03
	560	539.87	489.87	N	81.89	E	123.29	148.01
	570	549.40	499.40	N	83.22	E	126.02	151.02
	580	558.92	508.92	N	84.56	E	128.77	154.05
	590	568.43	518.43	N	85.91	E	131.54	157.11
	600	577.94	527.94	N	87.28	E	134.34	160.20
	610	587.43	537.43	N	88.65	E	137.16	163.31
	620	596.92	546.92	N	90.04	E	140.00	166.45
	630	606.40	556.40	N	91.43	E	142.86	169.62
	640	615.87	565.87	N	92.84	E	145.75	172.81
	650	625.33	575.33	N	94.26	E	148.66	176.03
	660	634.78	584.78	N	95.69	E	151.59	179.27
	670	644.23	594.23	N	97.13	E	154.54	182.54
	680	653.66	603.66	N	98.58	E	157.52	185.83
*	690	663.09	613.09	N	100.05	E	160.52	189.15 *
	700	672.51	622.51	N	102.30	E	163.02	192.46
	710	681.91	631.91	N	104.57	E	165.54	195.80
	720	691.31	641.31	N	106.85	E	168.08	199.17
	730	700.70	650.70	N	109.15	E	170.64	202.56
	740	710.08	660.08	N	111.47	E	173.21	205.98
	750	719.45	669.45	N	113.81	E	175.81	209.43
	760	728.81	678.81	N	116.16	E	178.42	212.91
	770	738.17	688.17	N	118.53	E	181.05	216.41
	780	747.51	697.51	N	120.92	E	183.71	219.93
*	786	753.11	703.11	N	122.36	E	185.30	222.06 *
	790	756.84	706.84	N	123.47	E	186.23	223.44
	800	766.14	716.14	N	126.28	E	188.59	226.97
	810	775.41	725.41	N	129.15	E	191.00	230.57
	820	784.66	734.66	N	132.06	E	193.45	234.23

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COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

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CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
830	793.88	743.88	N	135.03	E	195.93	237.96
840	803.07	753.07	N	138.04	E	198.46	241.75
* 848	810.41	760.41	N	140.49	E	200.51	244.83 *
850	812.24	762.24	N	141.06	E	201.07	245.62
860	821.39	771.39	N	143.98	E	203.89	249.60
870	830.50	780.50	N	146.93	E	206.74	253.64
880	839.59	789.59	N	149.93	E	209.63	257.73
890	848.66	798.66	N	152.96	E	212.56	261.88
900	857.70	807.70	N	156.04	E	215.53	266.08
910	866.72	816.72	N	159.15	E	218.53	270.34
920	875.71	825.71	N	162.30	E	221.58	274.66
930	884.67	834.67	N	165.49	E	224.66	279.03
940	893.61	843.61	N	168.72	E	227.77	283.46
950	902.52	852.52	N	171.98	E	230.93	287.94
960	911.40	861.40	N	175.29	E	234.12	292.47
970	920.25	870.25	N	178.63	E	237.35	297.06
980	929.08	879.08	N	182.01	E	240.61	301.70
990	937.88	887.88	N	185.43	E	243.92	306.40
1000	946.65	896.65	N	188.89	E	247.26	311.15
1010	955.39	905.39	N	192.39	E	250.63	315.96
1020	964.10	914.10	N	195.92	E	254.04	320.82
1030	972.78	922.78	N	199.49	E	257.49	325.73
1040	981.43	931.43	N	203.10	E	260.98	330.69
1050	990.05	940.05	N	206.74	E	264.50	335.71
1060	998.64	948.64	N	210.43	E	268.05	340.78
* 1066	1,003.78	953.78	N	212.65	E	270.20	343.84 *
1070	1,007.21	957.21	N	214.11	E	271.66	345.89
1080	1,015.77	965.77	N	217.77	E	275.32	351.03
1090	1,024.31	974.31	N	221.44	E	278.99	356.19
1100	1,032.85	982.85	N	225.12	E	282.67	361.37
1110	1,041.37	991.37	N	228.82	E	286.37	366.57
1120	1,049.88	999.88	N	232.53	E	290.08	371.78
1130	1,058.39	1,008.39	N	236.25	E	293.80	377.01
1140	1,066.88	1,016.88	N	239.99	E	297.54	382.27
1150	1,075.36	1,025.36	N	243.74	E	301.29	387.54
1160	1,083.83	1,033.83	N	247.50	E	305.05	392.82
1170	1,092.28	1,042.28	N	251.27	E	308.82	398.13
1180	1,100.73	1,050.73	N	255.06	E	312.61	403.46
1190	1,109.17	1,059.17	N	258.85	E	316.40	408.80
1200	1,117.59	1,067.59	N	262.66	E	320.21	414.16
1210	1,126.00	1,076.00	N	266.49	E	324.04	419.54
1220	1,134.40	1,084.40	N	270.32	E	327.87	424.94
1230	1,142.79	1,092.79	N	274.17	E	331.72	430.36
* 1233	1,145.31	1,095.31	N	275.32	E	332.87	431.98 *
1240	1,151.18	1,101.18	N	277.92	E	335.66	435.79

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1250	1,159.58	1,109.58	N	281.62	E 339.63	441.21
1260	1,167.98	1,117.98	N	285.32	E 343.60	446.62
1270	1,176.39	1,126.39	N	289.01	E 347.55	452.02
1280	1,184.81	1,134.81	N	292.70	E 351.50	457.42
1290	1,193.23	1,143.23	N	296.37	E 355.45	462.80
1300	1,201.66	1,151.66	N	300.05	E 359.39	468.17
1310	1,210.09	1,160.09	N	303.71	E 363.32	473.54
1320	1,218.53	1,168.53	N	307.37	E 367.24	478.90
1330	1,226.98	1,176.98	N	311.02	E 371.16	484.24
1340	1,235.43	1,185.43	N	314.67	E 375.07	489.58
1350	1,243.88	1,193.88	N	318.31	E 378.97	494.91
1360	1,252.35	1,202.35	N	321.94	E 382.86	500.23
1370	1,260.82	1,210.82	N	325.57	E 386.75	505.54
1380	1,269.29	1,219.29	N	329.19	E 390.63	510.84
* 1389	1,276.92	1,226.92	N	332.44	E 394.12	515.61 *
1390	1,277.77	1,227.77	N	332.78	E 394.52	516.14
1400	1,286.26	1,236.26	N	336.22	E 398.55	521.43
1410	1,294.75	1,244.75	N	339.65	E 402.56	526.71
1420	1,303.25	1,253.25	N	343.07	E 406.57	531.98
1430	1,311.75	1,261.75	N	346.49	E 410.57	537.24
1440	1,320.26	1,270.26	N	349.90	E 414.57	542.49
1450	1,328.77	1,278.77	N	353.31	E 418.56	547.74
1460	1,337.29	1,287.29	N	356.71	E 422.54	552.98
1470	1,345.82	1,295.82	N	360.10	E 426.51	558.20
1480	1,354.35	1,304.35	N	363.49	E 430.48	563.42
1490	1,362.88	1,312.88	N	366.88	E 434.44	568.63
1500	1,371.42	1,321.42	N	370.25	E 438.40	573.83
1510	1,379.97	1,329.97	N	373.63	E 442.35	579.03
1520	1,388.52	1,338.52	N	376.99	E 446.29	584.21
1530	1,397.08	1,347.08	N	380.35	E 450.22	589.38
1540	1,405.64	1,355.64	N	383.71	E 454.15	594.55
1550	1,414.21	1,364.21	N	387.06	E 458.07	599.71
* 1557	1,420.21	1,370.21	N	389.40	E 460.81	603.31 *
1560	1,422.78	1,372.78	N	390.43	E 461.96	604.85
1570	1,431.35	1,381.35	N	393.88	E 465.79	610.00
1580	1,439.93	1,389.93	N	397.33	E 469.62	615.15
1590	1,448.50	1,398.50	N	400.77	E 473.44	620.30
1600	1,457.07	1,407.07	N	404.22	E 477.27	625.45
1610	1,465.64	1,415.64	N	407.66	E 481.10	630.59
1620	1,474.21	1,424.21	N	411.11	E 484.93	635.74
1630	1,482.78	1,432.78	N	414.56	E 488.75	640.89
1640	1,491.36	1,441.36	N	418.00	E 492.58	646.04
1650	1,499.93	1,449.93	N	421.45	E 496.41	651.19
1660	1,508.50	1,458.50	N	424.90	E 500.24	656.34
1670	1,517.07	1,467.07	N	428.34	E 504.06	661.48

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1680	1,525.64	1,475.64	N	431.79	E	507.89	666.63
1690	1,534.21	1,484.21	N	435.23	E	511.72	671.78
1700	1,542.79	1,492.79	N	438.68	E	515.55	676.93
1710	1,551.36	1,501.36	N	442.13	E	519.37	682.08
* 1712	1,553.07	1,503.07	N	442.82	E	520.14	683.11 *
1720	1,559.93	1,509.93	N	445.57	E	523.20	687.23
1730	1,568.50	1,518.50	N	449.02	E	527.03	692.37
1740	1,577.07	1,527.07	N	452.47	E	530.86	697.52
1750	1,585.64	1,535.64	N	455.91	E	534.68	702.67
1760	1,594.22	1,544.22	N	459.36	E	538.51	707.82
1770	1,602.79	1,552.79	N	462.80	E	542.34	712.97
1780	1,611.36	1,561.36	N	466.25	E	546.17	718.12
1790	1,619.93	1,569.93	N	469.70	E	549.99	723.26
1800	1,628.50	1,578.50	N	473.14	E	553.82	728.41
1810	1,637.07	1,587.07	N	476.59	E	557.65	733.56
1820	1,645.65	1,595.65	N	480.04	E	561.48	738.71
1830	1,654.22	1,604.22	N	483.48	E	565.30	743.86
1840	1,662.79	1,612.79	N	486.93	E	569.13	749.01
1850	1,671.36	1,621.36	N	490.37	E	572.96	754.16
1860	1,679.93	1,629.93	N	493.82	E	576.79	759.31
* 1869	1,687.65	1,637.65	N	496.92	E	580.23	763.94 *
1870	1,688.50	1,638.50	N	497.26	E	580.62	764.45
1880	1,697.07	1,647.07	N	500.65	E	584.52	769.62
1890	1,705.63	1,655.63	N	504.04	E	588.42	774.79
1900	1,714.18	1,664.18	N	507.44	E	592.33	779.97
1910	1,722.73	1,672.73	N	510.84	E	596.25	785.16
1920	1,731.27	1,681.27	N	514.26	E	600.17	790.36
1930	1,739.80	1,689.80	N	517.67	E	604.10	795.57
1940	1,748.33	1,698.33	N	521.10	E	608.04	800.79
1950	1,756.86	1,706.86	N	524.53	E	611.99	806.02
1960	1,765.37	1,715.37	N	527.97	E	615.95	811.26
1970	1,773.88	1,723.88	N	531.41	E	619.91	816.51
1980	1,782.39	1,732.39	N	534.86	E	623.88	821.77
1990	1,790.89	1,740.89	N	538.32	E	627.85	827.04
2000	1,799.38	1,749.38	N	541.79	E	631.84	832.32
2010	1,807.87	1,757.87	N	545.26	E	635.83	837.61
* 2020	1,816.35	1,766.35	N	548.73	E	639.83	842.91 *
2030	1,824.82	1,774.82	N	552.00	E	644.01	848.21
2040	1,833.29	1,783.29	N	555.27	E	648.20	853.52
2050	1,841.76	1,791.76	N	558.55	E	652.40	858.84
2060	1,850.22	1,800.22	N	561.83	E	656.60	864.16
2070	1,858.68	1,808.68	N	565.12	E	660.80	869.49
2080	1,867.13	1,817.13	N	568.41	E	665.02	874.84
2090	1,875.57	1,825.57	N	571.70	E	669.23	880.18
2100	1,884.02	1,834.02	N	575.01	E	673.46	885.54

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2110	1,892.45	1,842.45	N	578.31	E 677.69	890.90
2120	1,900.88	1,850.88	N	581.62	E 681.93	896.28
2130	1,909.31	1,859.31	N	584.94	E 686.17	901.66
2140	1,917.73	1,867.73	N	588.26	E 690.42	907.05
2150	1,926.15	1,876.15	N	591.58	E 694.68	912.44
2160	1,934.56	1,884.56	N	594.91	E 698.94	917.84
2170	1,942.96	1,892.96	N	598.25	E 703.21	923.26
2180	1,951.36	1,901.36	N	601.59	E 707.48	928.68
2190	1,959.76	1,909.76	N	604.93	E 711.76	934.10
2200	1,968.15	1,918.15	N	608.28	E 716.05	939.54
* 2209	1,975.70	1,925.70	N	611.30	E 719.91	944.43 *
2210	1,976.54	1,926.54	N	611.57	E 720.38	944.97
2220	1,984.92	1,934.92	N	614.34	E 725.08	950.35
2230	1,993.30	1,943.30	N	617.11	E 729.79	955.73
2240	2,001.67	1,951.67	N	619.89	E 734.50	961.12
2250	2,010.03	1,960.03	N	622.67	E 739.22	966.52
2260	2,018.39	1,968.39	N	625.45	E 743.95	971.93
2270	2,026.75	1,976.75	N	628.24	E 748.68	977.35
2280	2,035.10	1,985.10	N	631.03	E 753.42	982.78
2290	2,043.45	1,993.45	N	633.83	E 758.17	988.21
2300	2,051.79	2,001.79	N	636.63	E 762.92	993.65
2310	2,060.12	2,010.12	N	639.43	E 767.68	999.10
2320	2,068.46	2,018.46	N	642.24	E 772.44	1,004.56
2330	2,076.78	2,026.78	N	645.05	E 777.22	1,010.03
2340	2,085.10	2,035.10	N	647.87	E 782.00	1,015.51
2350	2,093.42	2,043.42	N	650.69	E 786.78	1,020.99
2360	2,101.73	2,051.73	N	653.51	E 791.57	1,026.48
2370	2,110.03	2,060.03	N	656.34	E 796.37	1,031.99
2380	2,118.33	2,068.33	N	659.17	E 801.18	1,037.49
2390	2,126.63	2,076.63	N	662.00	E 805.99	1,043.01
* 2399	2,134.09	2,084.09	N	664.56	E 810.33	1,047.98 *
2400	2,134.92	2,084.92	N	664.83	E 810.81	1,048.54
2410	2,143.21	2,093.21	N	667.59	E 815.68	1,054.05
2420	2,151.50	2,101.50	N	670.34	E 820.55	1,059.56
2430	2,159.79	2,109.79	N	673.09	E 825.42	1,065.07
2440	2,168.08	2,118.08	N	675.85	E 830.28	1,070.58
2450	2,176.37	2,126.37	N	678.60	E 835.15	1,076.09
2460	2,184.66	2,134.66	N	681.35	E 840.02	1,081.61
2470	2,192.95	2,142.95	N	684.11	E 844.88	1,087.12
2480	2,201.24	2,151.24	N	686.86	E 849.75	1,092.64
2490	2,209.53	2,159.53	N	689.61	E 854.62	1,098.15
2500	2,217.82	2,167.82	N	692.37	E 859.48	1,103.67
2510	2,226.11	2,176.11	N	695.12	E 864.35	1,109.19
2520	2,234.40	2,184.40	N	697.88	E 869.22	1,114.71
* 2525	2,238.55	2,188.55	N	699.25	E 871.65	1,117.47 *

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2530	2,242.69	2,192.69	N	701.16	E 873.70	1,120.27
2540	2,250.94	2,200.94	N	705.01	E 877.83	1,125.89
2550	2,259.17	2,209.17	N	708.89	E 881.99	1,131.56
2560	2,267.38	2,217.38	N	712.79	E 886.16	1,137.26
2570	2,275.56	2,225.56	N	716.71	E 890.37	1,142.99
2580	2,283.72	2,233.72	N	720.65	E 894.60	1,148.76
2590	2,291.85	2,241.85	N	724.62	E 898.86	1,154.57
2600	2,299.96	2,249.96	N	728.61	E 903.14	1,160.40
2610	2,308.04	2,258.04	N	732.63	E 907.44	1,166.28
2620	2,316.10	2,266.10	N	736.67	E 911.78	1,172.19
2630	2,324.13	2,274.13	N	740.73	E 916.13	1,178.13
2640	2,332.14	2,282.14	N	744.82	E 920.51	1,184.10
2650	2,340.12	2,290.12	N	748.93	E 924.92	1,190.11
2660	2,348.07	2,298.07	N	753.06	E 929.35	1,196.16
2670	2,356.00	2,306.00	N	757.21	E 933.81	1,202.24
2680	2,363.91	2,313.91	N	761.39	E 938.29	1,208.35
2690	2,371.78	2,321.78	N	765.59	E 942.79	1,214.49
2700	2,379.63	2,329.63	N	769.82	E 947.32	1,220.67
2710	2,387.46	2,337.46	N	774.06	E 951.88	1,226.88
2720	2,395.26	2,345.26	N	778.33	E 956.45	1,233.13
* 2730	2,403.03	2,353.03	N	782.62	E 961.06	1,239.41 *
2740	2,410.81	2,360.81	N	786.90	E 965.65	1,245.67
2750	2,418.61	2,368.61	N	791.17	E 970.22	1,251.92
2760	2,426.43	2,376.43	N	795.43	E 974.79	1,258.14
2770	2,434.25	2,384.25	N	799.67	E 979.34	1,264.36
2780	2,442.09	2,392.09	N	803.91	E 983.88	1,270.55
2790	2,449.95	2,399.95	N	808.13	E 988.41	1,276.73
2800	2,457.81	2,407.81	N	812.34	E 992.92	1,282.89
2810	2,465.69	2,415.69	N	816.54	E 997.43	1,289.03
2820	2,473.59	2,423.59	N	820.72	E 1,001.92	1,295.16
2830	2,481.50	2,431.50	N	824.90	E 1,006.39	1,301.26
2840	2,489.42	2,439.42	N	829.06	E 1,010.86	1,307.36
2850	2,497.35	2,447.35	N	833.21	E 1,015.31	1,313.43
2860	2,505.30	2,455.30	N	837.35	E 1,019.75	1,319.49
2870	2,513.26	2,463.26	N	841.48	E 1,024.17	1,325.53
2880	2,521.24	2,471.24	N	845.59	E 1,028.58	1,331.55
* 2889	2,528.42	2,478.42	N	849.29	E 1,032.55	1,336.95 *
2890	2,529.22	2,479.22	N	849.69	E 1,032.99	1,337.56
2900	2,537.21	2,487.21	N	853.72	E 1,037.47	1,343.57
2910	2,545.19	2,495.19	N	857.74	E 1,041.94	1,349.58
2920	2,553.18	2,503.18	N	861.77	E 1,046.41	1,355.59
2930	2,561.17	2,511.17	N	865.80	E 1,050.88	1,361.60
2940	2,569.15	2,519.15	N	869.83	E 1,055.35	1,367.62
2950	2,577.14	2,527.14	N	873.85	E 1,059.83	1,373.63
2960	2,585.13	2,535.13	N	877.88	E 1,064.30	1,379.64

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD -	ORDINATES	HORIZONTAL DISTANCE
2970	2,593.11	2,543.11	N	881.91	E 1,068.77	1,385.65
2980	2,601.10	2,551.10	N	885.93	E 1,073.24	1,391.67
2990	2,609.09	2,559.09	N	889.96	E 1,077.72	1,397.68
3000	2,617.07	2,567.07	N	893.99	E 1,082.19	1,403.69
3010	2,625.06	2,575.06	N	898.01	E 1,086.66	1,409.70
3020	2,633.04	2,583.04	N	902.04	E 1,091.13	1,415.72
3030	2,641.03	2,591.03	N	906.07	E 1,095.61	1,421.73
3040	2,649.02	2,599.02	N	910.09	E 1,100.08	1,427.74
* 3046	2,653.81	2,603.81	N	912.51	E 1,102.76	1,431.35 *
3050	2,657.00	2,607.00	N	914.04	E 1,104.62	1,433.76
3060	2,664.99	2,614.99	N	917.87	E 1,109.26	1,439.78
3070	2,672.98	2,622.98	N	921.70	E 1,113.91	1,445.79
3080	2,680.96	2,630.96	N	925.53	E 1,118.55	1,451.81
3090	2,688.95	2,638.95	N	929.35	E 1,123.19	1,457.83
3100	2,696.94	2,646.94	N	933.18	E 1,127.84	1,463.85
3110	2,704.92	2,654.92	N	937.01	E 1,132.48	1,469.87
3120	2,712.91	2,662.91	N	940.84	E 1,137.13	1,475.88
3130	2,720.89	2,670.89	N	944.67	E 1,141.77	1,481.90
3140	2,728.88	2,678.88	N	948.49	E 1,146.41	1,487.92
3150	2,736.87	2,686.87	N	952.32	E 1,151.06	1,493.94
3160	2,744.85	2,694.85	N	956.15	E 1,155.70	1,499.96
3170	2,752.84	2,702.84	N	959.98	E 1,160.34	1,505.98
3180	2,760.83	2,710.83	N	963.81	E 1,164.99	1,511.99
3190	2,768.81	2,718.81	N	967.63	E 1,169.63	1,518.01
3200	2,776.80	2,726.80	N	971.46	E 1,174.28	1,524.03
3210	2,784.79	2,734.79	N	975.29	E 1,178.92	1,530.05
3220	2,792.77	2,742.77	N	979.12	E 1,183.56	1,536.07
3230	2,800.76	2,750.76	N	982.95	E 1,188.21	1,542.08
3240	2,808.74	2,758.74	N	986.77	E 1,192.85	1,548.10
3250	2,816.73	2,766.73	N	990.60	E 1,197.49	1,554.12
3260	2,824.72	2,774.72	N	994.43	E 1,202.14	1,560.14
* 3267	2,830.31	2,780.31	N	997.11	E 1,205.39	1,564.35 *
3270	2,832.70	2,782.70	N	998.22	E 1,206.81	1,566.16
3280	2,840.69	2,790.69	N	1,001.93	E 1,211.56	1,572.18
3290	2,848.66	2,798.66	N	1,005.64	E 1,216.31	1,578.20
3300	2,856.64	2,806.64	N	1,009.36	E 1,221.06	1,584.23
3310	2,864.61	2,814.61	N	1,013.07	E 1,225.82	1,590.27
3320	2,872.58	2,822.58	N	1,016.79	E 1,230.58	1,596.31
3330	2,880.55	2,830.55	N	1,020.51	E 1,235.34	1,602.35
3340	2,888.51	2,838.51	N	1,024.24	E 1,240.11	1,608.40
3350	2,896.47	2,846.47	N	1,027.97	E 1,244.88	1,614.45
3360	2,904.42	2,854.42	N	1,031.70	E 1,249.66	1,620.51
3370	2,912.37	2,862.37	N	1,035.43	E 1,254.44	1,626.57
3380	2,920.32	2,870.32	N	1,039.17	E 1,259.22	1,632.64
3390	2,928.27	2,878.27	N	1,042.90	E 1,264.00	1,638.71

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
3400	2,936.21	2,886.21	N 1,046.65	E 1,268.79	1,644.78
3410	2,944.15	2,894.15	N 1,050.39	E 1,273.58	1,650.86
3420	2,952.08	2,902.08	N 1,054.14	E 1,278.38	1,656.94
* 3425	2,956.05	2,906.05	N 1,056.01	E 1,280.78	1,659.99 *
3430	2,960.02	2,910.02	N 1,057.78	E 1,283.26	1,663.02
3440	2,967.95	2,917.95	N 1,061.31	E 1,288.21	1,669.10
3450	2,975.88	2,925.88	N 1,064.85	E 1,293.17	1,675.17
3460	2,983.82	2,933.82	N 1,068.38	E 1,298.12	1,681.24
3470	2,991.75	2,941.75	N 1,071.92	E 1,303.08	1,687.31
3480	2,999.68	2,949.68	N 1,075.45	E 1,308.04	1,693.39
3490	3,007.62	2,957.62	N 1,078.99	E 1,312.99	1,699.46
3500	3,015.55	2,965.55	N 1,082.52	E 1,317.95	1,705.53
3510	3,023.49	2,973.49	N 1,086.06	E 1,322.90	1,711.61
3520	3,031.42	2,981.42	N 1,089.59	E 1,327.86	1,717.68
3530	3,039.35	2,989.35	N 1,093.13	E 1,332.82	1,723.76
3540	3,047.29	2,997.29	N 1,096.66	E 1,337.77	1,729.83
3550	3,055.22	3,005.22	N 1,100.20	E 1,342.73	1,735.90
3560	3,063.15	3,013.15	N 1,103.73	E 1,347.68	1,741.98
3570	3,071.09	3,021.09	N 1,107.27	E 1,352.64	1,748.05
3580	3,079.02	3,029.02	N 1,110.80	E 1,357.60	1,754.13
3590	3,086.95	3,036.95	N 1,114.34	E 1,362.55	1,760.20
3600	3,094.89	3,044.89	N 1,117.87	E 1,367.51	1,766.28
3610	3,102.82	3,052.82	N 1,121.41	E 1,372.46	1,772.35
3620	3,110.75	3,060.75	N 1,124.94	E 1,377.42	1,778.42
3630	3,118.69	3,068.69	N 1,128.48	E 1,382.38	1,784.50
3640	3,126.62	3,076.62	N 1,132.01	E 1,387.33	1,790.57
3650	3,134.55	3,084.55	N 1,135.55	E 1,392.29	1,796.65
3660	3,142.49	3,092.49	N 1,139.08	E 1,397.24	1,802.72
3670	3,150.42	3,100.42	N 1,142.62	E 1,402.20	1,808.80
3680	3,158.36	3,108.36	N 1,146.16	E 1,407.16	1,814.87
3690	3,166.29	3,116.29	N 1,149.69	E 1,412.11	1,820.95
3700	3,174.22	3,124.22	N 1,153.23	E 1,417.07	1,827.02
3710	3,182.16	3,132.16	N 1,156.76	E 1,422.02	1,833.10
3720	3,190.09	3,140.09	N 1,160.30	E 1,426.98	1,839.18
3730	3,198.02	3,148.02	N 1,163.83	E 1,431.94	1,845.25
* 3733	3,200.40	3,150.40	N 1,164.89	E 1,433.42	1,847.07 *
3740	3,205.95	3,155.95	N 1,167.24	E 1,436.98	1,851.32
3750	3,213.88	3,163.88	N 1,170.61	E 1,442.06	1,857.38
3760	3,221.81	3,171.81	N 1,173.97	E 1,447.15	1,863.45
3770	3,229.73	3,179.73	N 1,177.34	E 1,452.23	1,869.53
3780	3,237.65	3,187.65	N 1,180.71	E 1,457.33	1,875.60
3790	3,245.57	3,195.57	N 1,184.08	E 1,462.42	1,881.69
3800	3,253.48	3,203.48	N 1,187.46	E 1,467.52	1,887.77
3810	3,261.39	3,211.39	N 1,190.84	E 1,472.62	1,893.86
3820	3,269.30	3,219.30	N 1,194.22	E 1,477.73	1,899.96

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
3830	3,277.20	3,227.20	N 1,197.60	E 1,482.84	1,906.06
3840	3,285.10	3,235.10	N 1,200.98	E 1,487.95	1,912.16
3850	3,293.00	3,243.00	N 1,204.37	E 1,493.06	1,918.27
3860	3,300.89	3,250.89	N 1,207.75	E 1,498.18	1,924.38
3870	3,308.78	3,258.78	N 1,211.14	E 1,503.30	1,930.49
3880	3,316.67	3,266.67	N 1,214.54	E 1,508.43	1,936.61
3890	3,324.56	3,274.56	N 1,217.93	E 1,513.56	1,942.73
3900	3,332.44	3,282.44	N 1,221.33	E 1,518.69	1,948.86
3910	3,340.32	3,290.32	N 1,224.73	E 1,523.82	1,954.99
3920	3,348.19	3,298.19	N 1,228.13	E 1,528.96	1,961.13
3930	3,356.07	3,306.07	N 1,231.53	E 1,534.10	1,967.27
3940	3,363.94	3,313.94	N 1,234.94	E 1,539.25	1,973.41
3950	3,371.80	3,321.80	N 1,238.34	E 1,544.40	1,979.56
3960	3,379.67	3,329.67	N 1,241.75	E 1,549.55	1,985.71
3970	3,387.53	3,337.53	N 1,245.16	E 1,554.70	1,991.87
3980	3,395.38	3,345.38	N 1,248.58	E 1,559.86	1,998.03
3990	3,403.24	3,353.24	N 1,252.00	E 1,565.02	2,004.20
4000	3,411.09	3,361.09	N 1,255.41	E 1,570.19	2,010.36
4010	3,418.94	3,368.94	N 1,258.83	E 1,575.36	2,016.54
4020	3,426.78	3,376.78	N 1,262.26	E 1,580.53	2,022.71
4030	3,434.62	3,384.62	N 1,265.68	E 1,585.70	2,028.89
4040	3,442.46	3,392.46	N 1,269.11	E 1,590.88	2,035.08
4050	3,450.30	3,400.30	N 1,272.54	E 1,596.06	2,041.27
4060	3,458.13	3,408.13	N 1,275.97	E 1,601.25	2,047.46
4070	3,465.96	3,415.96	N 1,279.40	E 1,606.43	2,053.66
* 4080	3,473.79	3,423.79	N 1,282.84	E 1,611.62	2,059.86 *
4090	3,481.62	3,431.62	N 1,286.14	E 1,616.90	2,066.04
4100	3,489.46	3,439.46	N 1,289.43	E 1,622.16	2,072.21
4110	3,497.30	3,447.30	N 1,292.71	E 1,627.43	2,078.37
4120	3,505.15	3,455.15	N 1,296.00	E 1,632.68	2,084.53
4130	3,513.00	3,463.00	N 1,299.28	E 1,637.93	2,090.68
4140	3,520.86	3,470.86	N 1,302.55	E 1,643.17	2,096.82
4150	3,528.73	3,478.73	N 1,305.82	E 1,648.41	2,102.96
4160	3,536.60	3,486.60	N 1,309.09	E 1,653.64	2,109.09
4170	3,544.48	3,494.48	N 1,312.36	E 1,658.86	2,115.21
4180	3,552.36	3,502.36	N 1,315.62	E 1,664.08	2,121.32
4190	3,560.25	3,510.25	N 1,318.87	E 1,669.29	2,127.43
4200	3,568.14	3,518.14	N 1,322.13	E 1,674.50	2,133.53
4210	3,576.04	3,526.04	N 1,325.38	E 1,679.70	2,139.63
4220	3,583.95	3,533.95	N 1,328.62	E 1,684.89	2,145.72
4230	3,591.86	3,541.86	N 1,331.86	E 1,690.08	2,151.80
4240	3,599.78	3,549.78	N 1,335.10	E 1,695.26	2,157.87
4250	3,607.70	3,557.70	N 1,338.33	E 1,700.43	2,163.93
4260	3,615.63	3,565.63	N 1,341.56	E 1,705.60	2,169.99
4270	3,623.56	3,573.56	N 1,344.79	E 1,710.76	2,176.05

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 394' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4280	3,631.50	3,581.50	N 1,348.01	E 1,715.92	2,182.09
4290	3,639.45	3,589.45	N 1,351.23	E 1,721.07	2,188.13
4300	3,647.40	3,597.40	N 1,354.44	E 1,726.21	2,194.16
4310	3,655.35	3,605.35	N 1,357.65	E 1,731.35	2,200.18
4320	3,663.32	3,613.32	N 1,360.86	E 1,736.48	2,206.20
4330	3,671.28	3,621.28	N 1,364.06	E 1,741.61	2,212.21
4340	3,679.26	3,629.26	N 1,367.26	E 1,746.72	2,218.21
4350	3,687.23	3,637.23	N 1,370.45	E 1,751.84	2,224.21
4360	3,695.22	3,645.22	N 1,373.65	E 1,756.94	2,230.19
4370	3,703.21	3,653.21	N 1,376.83	E 1,762.04	2,236.17
4380	3,711.20	3,661.20	N 1,380.02	E 1,767.14	2,242.15
4390	3,719.20	3,669.20	N 1,383.19	E 1,772.23	2,248.11
4400	3,727.21	3,677.21	N 1,386.37	E 1,777.31	2,254.07
4410	3,735.22	3,685.22	N 1,389.54	E 1,782.38	2,260.03
4420	3,743.24	3,693.24	N 1,392.71	E 1,787.45	2,265.97
4430	3,751.26	3,701.26	N 1,395.87	E 1,792.51	2,271.91
4440	3,759.29	3,709.29	N 1,399.03	E 1,797.57	2,277.84
4450	3,767.32	3,717.32	N 1,402.19	E 1,802.62	2,283.76
* 4459	3,774.56	3,724.56	N 1,405.02	E 1,807.16	2,289.09 *
4460	3,775.36	3,725.36	N 1,405.27	E 1,807.70	2,289.67
4470	3,783.41	3,733.41	N 1,407.68	E 1,813.13	2,295.43
4480	3,791.46	3,741.46	N 1,410.09	E 1,818.55	2,301.19
4490	3,799.51	3,749.51	N 1,412.50	E 1,823.96	2,306.95
4500	3,807.57	3,757.57	N 1,414.91	E 1,829.37	2,312.70
4510	3,815.64	3,765.64	N 1,417.32	E 1,834.77	2,318.44
4520	3,823.71	3,773.71	N 1,419.72	E 1,840.16	2,324.17
4530	3,831.79	3,781.79	N 1,422.11	E 1,845.54	2,329.90
4540	3,839.87	3,789.87	N 1,424.51	E 1,850.92	2,335.63
4550	3,847.96	3,797.96	N 1,426.90	E 1,856.29	2,341.34
4560	3,856.06	3,806.06	N 1,429.29	E 1,861.66	2,347.05
4570	3,864.16	3,814.16	N 1,431.67	E 1,867.02	2,352.75
4580	3,872.26	3,822.26	N 1,434.06	E 1,872.37	2,358.45
4590	3,880.37	3,830.37	N 1,436.44	E 1,877.71	2,364.14
4600	3,888.49	3,838.49	N 1,438.81	E 1,883.05	2,369.82
4610	3,896.61	3,846.61	N 1,441.18	E 1,888.38	2,375.50
4620	3,904.74	3,854.74	N 1,443.55	E 1,893.70	2,381.17
4630	3,912.87	3,862.87	N 1,445.92	E 1,899.02	2,386.83
4640	3,921.01	3,871.01	N 1,448.28	E 1,904.32	2,392.49
4650	3,929.15	3,879.15	N 1,450.65	E 1,909.63	2,398.14
4660	3,937.30	3,887.30	N 1,453.00	E 1,914.92	2,403.78
4670	3,945.45	3,895.45	N 1,455.36	E 1,920.21	2,409.42
4680	3,953.61	3,903.61	N 1,457.71	E 1,925.49	2,415.05
4690	3,961.78	3,911.78	N 1,460.06	E 1,930.77	2,420.67
4700	3,969.95	3,919.95	N 1,462.40	E 1,936.03	2,426.28
4710	3,978.12	3,928.12	N 1,464.74	E 1,941.29	2,431.89

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4720	3,986.31	3,936.31	N 1,467.08	E 1,946.55	2,437.50
4730	3,994.49	3,944.49	N 1,469.42	E 1,951.79	2,443.09
4740	4,002.68	3,952.68	N 1,471.75	E 1,957.03	2,448.68
4750	4,010.88	3,960.88	N 1,474.08	E 1,962.27	2,454.27
4760	4,019.08	3,969.08	N 1,476.41	E 1,967.49	2,459.84
4770	4,027.29	3,977.29	N 1,478.73	E 1,972.71	2,465.41
4780	4,035.50	3,985.50	N 1,481.05	E 1,977.92	2,470.97
4790	4,043.72	3,993.72	N 1,483.37	E 1,983.13	2,476.53
4800	4,051.95	4,001.95	N 1,485.68	E 1,988.32	2,482.08
4810	4,060.18	4,010.18	N 1,487.99	E 1,993.51	2,487.62
4820	4,068.41	4,018.41	N 1,490.30	E 1,998.70	2,493.15
4830	4,076.65	4,026.65	N 1,492.61	E 2,003.87	2,498.68
* 4833	4,079.12	4,029.12	N 1,493.30	E 2,005.43	2,500.34 *
4840	4,084.89	4,034.89	N 1,494.12	E 2,009.30	2,503.94
4850	4,093.14	4,043.14	N 1,495.30	E 2,014.83	2,509.08
4860	4,101.39	4,051.39	N 1,496.47	E 2,020.36	2,514.22
4870	4,109.64	4,059.64	N 1,497.65	E 2,025.88	2,519.36
4880	4,117.90	4,067.90	N 1,498.82	E 2,031.40	2,524.49
4890	4,126.16	4,076.16	N 1,499.99	E 2,036.91	2,529.62
4900	4,134.43	4,084.43	N 1,501.16	E 2,042.42	2,534.75
4910	4,142.70	4,092.70	N 1,502.33	E 2,047.92	2,539.88
4920	4,150.97	4,100.97	N 1,503.50	E 2,053.42	2,545.00
4930	4,159.24	4,109.24	N 1,504.67	E 2,058.91	2,550.12
4940	4,167.52	4,117.52	N 1,505.83	E 2,064.39	2,555.24
4950	4,175.81	4,125.81	N 1,507.00	E 2,069.87	2,560.36
4960	4,184.09	4,134.09	N 1,508.16	E 2,075.35	2,565.47
4970	4,192.38	4,142.38	N 1,509.32	E 2,080.82	2,570.58
4980	4,200.67	4,150.67	N 1,510.49	E 2,086.29	2,575.69
4990	4,208.97	4,158.97	N 1,511.65	E 2,091.75	2,580.80
5000	4,217.27	4,167.27	N 1,512.81	E 2,097.21	2,585.90
5010	4,225.57	4,175.57	N 1,513.97	E 2,102.66	2,591.00
5020	4,233.88	4,183.88	N 1,515.12	E 2,108.10	2,596.09
5030	4,242.19	4,192.19	N 1,516.28	E 2,113.54	2,601.19
5040	4,250.50	4,200.50	N 1,517.43	E 2,118.98	2,606.28
5050	4,258.82	4,208.82	N 1,518.59	E 2,124.41	2,611.37
5060	4,267.14	4,217.14	N 1,519.74	E 2,129.84	2,616.45
5070	4,275.46	4,225.46	N 1,520.89	E 2,135.26	2,621.54
5080	4,283.79	4,233.79	N 1,522.05	E 2,140.67	2,626.62
5090	4,292.12	4,242.12	N 1,523.20	E 2,146.08	2,631.69
5100	4,300.46	4,250.46	N 1,524.34	E 2,151.49	2,636.77
5110	4,308.80	4,258.80	N 1,525.49	E 2,156.89	2,641.84
* 5113	4,311.30	4,261.30	N 1,525.84	E 2,158.51	2,643.36 *
5120	4,317.14	4,267.14	N 1,526.57	E 2,162.30	2,646.88
5130	4,325.48	4,275.48	N 1,527.62	E 2,167.71	2,651.90
5140	4,333.83	4,283.83	N 1,528.67	E 2,173.11	2,656.93

DIRECTIONAL SURVEY FOR WELL L06-3

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-3)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR DATA: 396' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 53.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
5150	4,342.18	4,292.18	N 1,529.72	E 2,178.51	2,661.95
5160	4,350.54	4,300.54	N 1,530.77	E 2,183.90	2,666.96
5170	4,358.90	4,308.90	N 1,531.82	E 2,189.28	2,671.97
5180	4,367.27	4,317.27	N 1,532.86	E 2,194.66	2,676.98
5190	4,375.63	4,325.63	N 1,533.91	E 2,200.04	2,681.99
5200	4,384.01	4,334.01	N 1,534.95	E 2,205.40	2,686.99
5210	4,392.38	4,342.38	N 1,535.99	E 2,210.77	2,691.98
5220	4,400.76	4,350.76	N 1,537.04	E 2,216.12	2,696.98
5230	4,409.15	4,359.15	N 1,538.08	E 2,221.48	2,701.97
5240	4,417.53	4,367.53	N 1,539.12	E 2,226.82	2,706.96
5250	4,425.92	4,375.92	N 1,540.15	E 2,232.16	2,711.94
5260	4,434.32	4,384.32	N 1,541.19	E 2,237.50	2,716.92
5270	4,442.72	4,392.72	N 1,542.23	E 2,242.82	2,721.90
5280	4,451.12	4,401.12	N 1,543.26	E 2,248.15	2,726.87
5290	4,459.52	4,409.52	N 1,544.29	E 2,253.46	2,731.84
5300	4,467.93	4,417.93	N 1,545.33	E 2,258.77	2,736.81
5310	4,476.35	4,426.35	N 1,546.36	E 2,264.08	2,741.77
5320	4,484.77	4,434.77	N 1,547.39	E 2,269.38	2,746.73
5330	4,493.19	4,443.19	N 1,548.42	E 2,274.67	2,751.68
5340	4,501.61	4,451.61	N 1,549.44	E 2,279.96	2,756.63
5350	4,510.04	4,460.04	N 1,550.47	E 2,285.24	2,761.58
5360	4,518.47	4,468.47	N 1,551.50	E 2,290.52	2,766.52
5370	4,526.91	4,476.91	N 1,552.52	E 2,295.79	2,771.46
5380	4,535.35	4,485.35	N 1,553.55	E 2,301.06	2,776.40
5390	4,543.79	4,493.79	N 1,554.57	E 2,306.32	2,781.33
5400	4,552.24	4,502.24	N 1,555.59	E 2,311.57	2,786.26
5410	4,560.69	4,510.69	N 1,556.61	E 2,316.82	2,791.18
5420	4,569.14	4,519.14	N 1,557.63	E 2,322.06	2,796.10
5430	4,577.60	4,527.60	N 1,558.65	E 2,327.30	2,801.02
5440	4,586.06	4,536.06	N 1,559.66	E 2,332.53	2,805.93
5450	4,594.53	4,544.53	N 1,560.68	E 2,337.75	2,810.84
5460	4,603.00	4,553.00	N 1,561.69	E 2,342.97	2,815.74
5470	4,611.47	4,561.47	N 1,562.71	E 2,348.19	2,820.64
5480	4,619.95	4,569.95	N 1,563.72	E 2,353.39	2,825.54
* 5490	4,628.43	4,578.43	N 1,564.73	E 2,358.59	2,830.43 *