

DIRECTIONAL SURVEY FOR WELL LQ6-8
RAW DATA

29-5-85

WELL No. (LQ6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	657	15.00	S - 36.00 - W
2	752	18.50	S - 22.00 - W
3	814	21.00	S - 10.00 - W
4	998	25.50	S - 11.50 - W
5	1149	30.50	S - 13.00 - W
6	1306	35.50	S - 15.00 - W
7	1465	42.00	S - 16.00 - W
8	1777	47.00	S - 18.00 - W
9	1935	47.00	S - 20.00 - W
10	2093	47.00	S - 21.50 - W
11	2251	47.00	S - 23.00 - W
12	2408	46.00	S - 24.50 - W
13	2661	46.00	S - 26.00 - W
14	3290	46.50	S - 29.00 - W
15	3568	46.50	S - 32.00 - W
16	3879	45.75	S - 34.00 - W
17	4195	45.00	S - 36.00 - W
18	4445	44.00	S - 36.00 - W
19	4810	43.50	S - 36.00 - W
20	5129	43.00	S - 35.00 - W
21	5538	42.00	S - 39.00 - W
22	5905	41.50	S - 40.00 - W
23	6313	43.00	S - 44.00 - W

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

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	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
*	400	386.37	336.37	S	91.40	W 48.60	103.52 ✓ *
	410	396.02	346.02	S	93.50	W 50.12	106.09
	420	405.68	355.68	S	95.59	W 51.64	108.65
	430	415.34	365.34	S	97.69	W 53.16	111.22
	440	425.00	375.00	S	99.78	W 54.68	113.78
	450	434.66	384.66	S	101.87	W 56.20	116.35
	460	444.32	394.32	S	103.97	W 57.73	118.92
	470	453.98	403.98	S	106.06	W 59.25	121.49
	480	463.64	413.64	S	108.16	W 60.77	124.06
	490	473.30	423.30	S	110.25	W 62.29	126.63
	500	482.96	432.96	S	112.34	W 63.81	129.20
	510	492.62	442.62	S	114.44	W 65.33	131.78
	520	502.28	452.28	S	116.53	W 66.85	134.35
	530	511.94	461.94	S	118.63	W 68.38	136.92
	540	521.59	471.59	S	120.72	W 69.90	139.50
	550	531.25	481.25	S	122.81	W 71.42	142.07
	560	540.91	490.91	S	124.91	W 72.94	144.65
	570	550.57	500.57	S	127.00	W 74.46	147.22
	580	560.23	510.23	S	129.09	W 75.98	149.80
	590	569.89	519.89	S	131.19	W 77.50	152.37
	600	579.55	529.55	S	133.28	W 79.02	154.95
	610	589.21	539.21	S	135.38	W 80.55	157.53 ✓
	620	598.87	548.87	S	137.47	W 82.07	160.10
	630	608.53	558.53	S	139.56	W 83.59	162.68
	640	618.19	568.19	S	141.66	W 85.11	165.26
	650	627.85	577.85	S	143.75	W 86.63	167.84
*	657	634.61	584.61	S	145.22	W 87.70	169.64 *
	660	637.50	587.50	S	145.94	W 87.99	170.42
	670	647.14	597.14	S	148.42	W 88.99	173.05
	680	656.76	606.76	S	150.95	W 90.01	175.75
	690	666.36	616.36	S	153.54	W 91.06	178.51
	700	675.95	625.95	S	156.18	W 92.13	181.33
	710	685.51	635.51	S	158.89	W 93.22	184.22
	720	695.06	645.06	S	161.65	W 94.33	187.16
	730	704.59	654.59	S	164.47	W 95.47	190.17
	740	714.09	664.09	S	167.34	W 96.63	193.24
	750	723.58	673.58	S	170.27	W 97.82	196.37
*	752	725.48	675.48	S	170.86	W 98.06	197.00 *
	760	733.05	683.05	S	173.40	W 98.50	199.43
	770	742.49	692.49	S	176.64	W 99.08	202.53
	780	751.91	701.91	S	179.95	W 99.66	205.71
	790	761.31	711.31	S	183.33	W 100.25	208.95
	800	770.68	720.68	S	186.76	W 100.86	212.26
	810	780.02	730.02	S	190.27	W 101.48	215.64
*	814	783.76	733.76	S	191.68	W 101.73	217.00 ✓ *

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES			HORIZONTAL DISTANCE
820	789.35	739.35	S	193.80	W 102.16	219.08
830	798.66	748.66	S	197.37	W 102.89	222.58
840	807.96	757.96	S	200.99	W 103.62	226.13
850	817.24	767.24	S	204.64	W 104.36	229.72
860	826.50	776.50	S	208.33	W 105.11	233.35
870	835.75	785.75	S	212.06	W 105.87	237.02
880	844.98	794.98	S	215.83	W 106.64	240.74
890	854.20	804.20	S	219.63	W 107.41	244.49
900	863.39	813.39	S	223.48	W 108.20	248.29
910	872.58	822.58	S	227.36	W 108.99	252.14
920	881.74	831.74	S	231.28	W 109.78	256.02
930	890.89	840.89	S	235.24	W 110.59	259.94
940	900.02	850.02	S	239.24	W 111.40	263.91
950	909.13	859.13	S	243.28	W 112.22	267.92
960	918.22	868.22	S	247.35	W 113.05	271.97
970	927.30	877.30	S	251.47	W 113.89	276.06
980	936.36	886.36	S	255.62	W 114.74	280.19
990	945.40	895.40	S	259.81	W 115.59	284.36
* 998	952.62	902.62	S	263.18	W 116.27	287.72 *
1000	954.42	904.42	S	264.02	W 116.47	288.57
1010	963.42	913.42	S	268.28	W 117.45	292.86
1020	972.39	922.39	S	272.58	W 118.44	297.21
1030	981.33	931.33	S	276.94	W 119.45	301.60
1040	990.25	940.25	S	281.35	W 120.47	306.06
1050	999.15	949.15	S	285.80	W 121.50	310.56
1060	1,008.01	958.01	S	290.31	W 122.54	315.12
1070	1,016.85	966.85	S	294.87	W 123.59	319.72
1080	1,025.66	975.66	S	299.48	W 124.65	324.38
1090	1,034.45	984.45	S	304.13	W 125.73	329.10
1100	1,043.20	993.20	S	308.84	W 126.81	333.86
1110	1,051.93	1,001.93	S	313.59	W 127.91	338.68
1120	1,060.63	1,010.63	S	318.40	W 129.02	343.55
1130	1,069.30	1,019.30	S	323.25	W 130.14	348.46
1140	1,077.95	1,027.95	S	328.15	W 131.27	353.44
* 1149	1,085.70	1,035.70	S	332.60	W 132.30	357.95 *
1150	1,086.56	1,036.56	S	333.09	W 132.43	358.45
1160	1,095.15	1,045.15	S	338.05	W 133.76	363.55
1170	1,103.70	1,053.70	S	343.04	W 135.10	368.69
1180	1,112.23	1,062.23	S	348.09	W 136.45	373.88
1190	1,120.73	1,070.73	S	353.18	W 137.82	379.12
1200	1,129.20	1,079.20	S	358.32	W 139.19	384.40
1210	1,137.64	1,087.64	S	363.50	W 140.58	389.74
1220	1,146.05	1,096.05	S	368.73	W 141.98	395.12
1230	1,154.43	1,104.43	S	374.00	W 143.39	400.55
1240	1,162.78	1,112.78	S	379.31	W 144.82	406.02

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

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CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
1250	1,171.09	1,121.09	S	384.68 W 146.25	411.54
1260	1,179.38	1,129.38	S	390.08 W 147.70	417.11
1270	1,187.64	1,137.64	S	395.53 W 149.16	422.73
1280	1,195.86	1,145.86	S	401.03 W 150.64	428.39
1290	1,204.05	1,154.05	S	406.57 W 152.12	434.10
1300	1,212.21	1,162.21	S	412.15 W 153.62	439.85
* 1306	1,217.10	1,167.10	S	415.52 W 154.52	443.32 *
1310	1,220.35	1,170.35	S	417.76 W 155.16	445.64
1320	1,228.43	1,178.43	S	423.42 W 156.78	451.51
1330	1,236.47	1,186.47	S	429.13 W 158.42	457.44
1340	1,244.47	1,194.47	S	434.90 W 160.08	463.43
1350	1,252.42	1,202.42	S	440.73 W 161.75	469.47
1360	1,260.33	1,210.33	S	446.61 W 163.43	475.57
1370	1,268.20	1,218.20	S	452.54 W 165.13	481.73
1380	1,276.03	1,226.03	S	458.53 W 166.85	487.94
1390	1,283.80	1,233.80	S	464.57 W 168.58	494.21
1400	1,291.54	1,241.54	S	470.66 W 170.33	500.54
1410	1,299.23	1,249.23	S	476.81 W 172.09	506.92
1420	1,306.87	1,256.87	S	483.01 W 173.87	513.35
1430	1,314.47	1,264.47	S	489.26 W 175.66	519.84
1440	1,322.01	1,272.01	S	495.56 W 177.47	526.39
1450	1,329.52	1,279.52	S	501.92 W 179.29	532.98
1460	1,336.97	1,286.97	S	508.33 W 181.13	539.63
* 1465	1,340.69	1,290.69	S	511.54 W 182.05	542.97 *
1470	1,344.40	1,294.40	S	514.73 W 183.09	546.32
1480	1,351.80	1,301.80	S	521.12 W 185.17	553.04
1490	1,359.19	1,309.19	S	527.54 W 187.25	559.78
1500	1,366.55	1,316.55	S	533.97 W 189.34	566.55
1510	1,373.90	1,323.90	S	540.42 W 191.44	573.33
1520	1,381.23	1,331.23	S	546.89 W 193.54	580.13
1530	1,388.54	1,338.54	S	553.38 W 195.65	586.95
1540	1,395.83	1,345.83	S	559.89 W 197.76	593.80
1550	1,403.10	1,353.10	S	566.42 W 199.89	600.66
1560	1,410.35	1,360.35	S	572.97 W 202.01	607.54
1570	1,417.58	1,367.58	S	579.54 W 204.15	614.45
1580	1,424.79	1,374.79	S	586.13 W 206.29	621.37
1590	1,431.98	1,381.98	S	592.74 W 208.43	628.32
1600	1,439.16	1,389.16	S	599.36 W 210.59	635.28
1610	1,446.31	1,396.31	S	606.01 W 212.75	642.27
1620	1,453.45	1,403.45	S	612.67 W 214.91	649.27
1630	1,460.56	1,410.56	S	619.36 W 217.08	656.30
1640	1,467.66	1,417.66	S	626.06 W 219.26	663.34
1650	1,474.73	1,424.73	S	632.78 W 221.44	670.41
1660	1,481.79	1,431.79	S	639.52 W 223.63	677.49
1670	1,488.82	1,438.82	S	646.28 W 225.83	684.60

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

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CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES				HORIZONTAL DISTANCE
1680	1,495.84	1,445.84	S	653.05	W	228.03	691.72
1690	1,502.83	1,452.83	S	659.85	W	230.24	698.87
1700	1,509.81	1,459.81	S	666.66	W	232.45	706.03
1710	1,516.77	1,466.77	S	673.50	W	234.67	713.21
1720	1,523.70	1,473.70	S	680.35	W	236.90	720.41
1730	1,530.62	1,480.62	S	687.22	W	239.13	727.64
1740	1,537.51	1,487.51	S	694.11	W	241.37	734.88
1750	1,544.39	1,494.39	S	701.01	W	243.62	742.14
1760	1,551.24	1,501.24	S	707.94	W	245.87	749.42
1770	1,558.08	1,508.08	S	714.88	W	248.12	756.72
* 1777	1,562.85	1,512.85	S	719.75	W	249.70	761.83 *
1780	1,564.90	1,514.90	S	721.81	W	250.45	764.03
1790	1,571.72	1,521.72	S	728.68	W	252.95	771.34
1800	1,578.54	1,528.54	S	735.56	W	255.46	778.65
1810	1,585.36	1,535.36	S	742.43	W	257.96	785.97
1820	1,592.18	1,542.18	S	749.30	W	260.46	793.28
1830	1,599.00	1,549.00	S	756.17	W	262.96	800.59
1840	1,605.82	1,555.82	S	763.04	W	265.46	807.90
1850	1,612.64	1,562.64	S	769.92	W	267.96	815.22
1860	1,619.46	1,569.46	S	776.79	W	270.46	822.53
1870	1,626.28	1,576.28	S	783.66	W	272.97	829.84
1880	1,633.10	1,583.10	S	790.53	W	275.47	837.16
1890	1,639.92	1,589.92	S	797.41	W	277.97	844.47
1900	1,646.74	1,596.74	S	804.28	W	280.47	851.78
1910	1,653.56	1,603.56	S	811.15	W	282.97	859.09
1920	1,660.38	1,610.38	S	818.02	W	285.47	866.41
1930	1,667.20	1,617.20	S	824.90	W	287.97	873.72
* 1935	1,670.61	1,620.61	S	828.33	W	289.22	877.38 *
1940	1,674.02	1,624.02	S	831.74	W	290.57	881.03
1950	1,680.84	1,630.84	S	838.54	W	293.25	888.34
1960	1,687.66	1,637.66	S	845.35	W	295.93	895.65
1970	1,694.48	1,644.48	S	852.15	W	298.61	902.95
1980	1,701.30	1,651.30	S	858.95	W	301.29	910.26
1990	1,708.12	1,658.12	S	865.76	W	303.97	917.57
2000	1,714.94	1,664.94	S	872.56	W	306.65	924.88
2010	1,721.76	1,671.76	S	879.37	W	309.33	932.19
2020	1,728.58	1,678.58	S	886.17	W	312.01	939.50
2030	1,735.40	1,685.40	S	892.98	W	314.69	946.81
2040	1,742.22	1,692.22	S	899.78	W	317.37	954.11
2050	1,749.04	1,699.04	S	906.59	W	320.05	961.42
2060	1,755.86	1,705.86	S	913.39	W	322.73	968.73
2070	1,762.68	1,712.68	S	920.20	W	325.41	976.04
2080	1,769.50	1,719.50	S	927.00	W	328.09	983.35
2090	1,776.32	1,726.32	S	933.81	W	330.77	990.66
* 2093	1,778.36	1,728.36	S	935.85	W	331.58	992.85 *

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

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CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2100	1,783.14	1,733.14	S	940.56	W 333.58	997.96
2110	1,789.96	1,739.96	S	947.29	W 336.43	1,005.26
2120	1,796.78	1,746.78	S	954.02	W 339.29	1,012.56
2130	1,803.60	1,753.60	S	960.76	W 342.15	1,019.86
2140	1,810.42	1,760.42	S	967.49	W 345.01	1,027.16
2150	1,817.24	1,767.24	S	974.22	W 347.86	1,034.46
2160	1,824.06	1,774.06	S	980.95	W 350.72	1,041.77
2170	1,830.88	1,780.88	S	987.68	W 353.58	1,049.07
2180	1,837.70	1,787.70	S	994.42	W 356.44	1,056.37
2190	1,844.52	1,794.52	S	1,001.15	W 359.29	1,063.67
2200	1,851.34	1,801.34	S	1,007.88	W 362.15	1,070.97
2210	1,858.16	1,808.16	S	1,014.61	W 365.01	1,078.27
2220	1,864.98	1,814.98	S	1,021.35	W 367.87	1,085.58
2230	1,871.80	1,821.80	S	1,028.08	W 370.73	1,092.88
2240	1,878.62	1,828.62	S	1,034.81	W 373.58	1,100.18
2250	1,885.44	1,835.44	S	1,041.54	W 376.44	1,107.48
* 2251	1,886.12	1,836.12	S	1,042.21	W 376.73	1,108.21 *
2260	1,892.26	1,842.26	S	1,048.20	W 379.45	1,114.77
2270	1,899.10	1,849.10	S	1,054.84	W 382.48	1,122.04
2280	1,905.94	1,855.94	S	1,061.48	W 385.50	1,129.31
2290	1,912.79	1,862.79	S	1,068.10	W 388.52	1,136.57
2300	1,919.65	1,869.65	S	1,074.72	W 391.54	1,143.83
2310	1,926.52	1,876.52	S	1,081.34	W 394.56	1,151.07
2320	1,933.40	1,883.40	S	1,087.95	W 397.57	1,158.31
2330	1,940.28	1,890.28	S	1,094.55	W 400.57	1,165.55
2340	1,947.17	1,897.17	S	1,101.14	W 403.58	1,172.77
2350	1,954.07	1,904.07	S	1,107.73	W 406.58	1,179.99
2360	1,960.98	1,910.98	S	1,114.31	W 409.58	1,187.20
2370	1,967.90	1,917.90	S	1,120.88	W 412.57	1,194.40
2380	1,974.82	1,924.82	S	1,127.44	W 415.57	1,201.59
2390	1,981.75	1,931.75	S	1,134.00	W 418.56	1,208.78
2400	1,988.69	1,938.69	S	1,140.55	W 421.54	1,215.96
* 2408	1,994.25	1,944.25	S	1,145.79	W 423.93	1,221.70 *
2410	1,995.64	1,945.64	S	1,147.08	W 424.56	1,223.13
2420	2,002.59	1,952.59	S	1,153.55	W 427.71	1,230.29
2430	2,009.53	1,959.53	S	1,160.01	W 430.87	1,237.45
2440	2,016.48	1,966.48	S	1,166.48	W 434.02	1,244.61
2450	2,023.43	1,973.43	S	1,172.94	W 437.17	1,251.77
2460	2,030.37	1,980.37	S	1,179.41	W 440.33	1,258.93
2470	2,037.32	1,987.32	S	1,185.87	W 443.48	1,266.09
2480	2,044.27	1,994.27	S	1,192.34	W 446.63	1,273.25
2490	2,051.21	2,001.21	S	1,198.81	W 449.79	1,280.41
2500	2,058.16	2,008.16	S	1,205.27	W 452.94	1,287.57
2510	2,065.11	2,015.11	S	1,211.74	W 456.09	1,294.73
2520	2,072.05	2,022.05	S	1,218.20	W 459.25	1,301.89

DIRECTIONAL SURVEY FOR WELL L06-8

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WELL NO. (L06-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2530	2,079.00	2,029.00	S 1,224.67	W 462.40		1,309.06
2540	2,085.95	2,035.95	S 1,231.13	W 465.55		1,316.22
2550	2,092.89	2,042.89	S 1,237.60	W 468.71		1,323.38
2560	2,099.84	2,049.84	S 1,244.06	W 471.86		1,330.54
2570	2,106.78	2,056.78	S 1,250.53	W 475.01		1,337.71
2580	2,113.73	2,063.73	S 1,256.99	W 478.17		1,344.87
2590	2,120.68	2,070.68	S 1,263.46	W 481.32		1,352.04
2600	2,127.62	2,077.62	S 1,269.92	W 484.47		1,359.20
2610	2,134.57	2,084.57	S 1,276.39	W 487.63		1,366.37
2620	2,141.52	2,091.52	S 1,282.86	W 490.78		1,373.53
2630	2,148.46	2,098.46	S 1,289.32	W 493.93		1,380.70
2640	2,155.41	2,105.41	S 1,295.79	W 497.09		1,387.86
2650	2,162.36	2,112.36	S 1,302.25	W 500.24		1,395.03
2660	2,169.30	2,119.30	S 1,308.72	W 503.39		1,402.19
* 2661	2,170.00	2,120.00	S 1,309.36	W 503.71		1,402.91 *
2670	2,176.25	2,126.25	S 1,315.03	W 506.85		1,409.32
2680	2,183.19	2,133.19	S 1,321.32	W 510.34		1,416.45 ✓
2690	2,190.14	2,140.14	S 1,327.61	W 513.82		1,423.58
2700	2,197.08	2,147.08	S 1,333.91	W 517.31		1,430.71
2710	2,204.02	2,154.02	S 1,340.20	W 520.80		1,437.84
2720	2,210.96	2,160.96	S 1,346.50	W 524.29		1,444.97
2730	2,217.90	2,167.90	S 1,352.80	W 527.78		1,452.11
2740	2,224.84	2,174.84	S 1,359.10	W 531.28		1,459.25
2750	2,231.78	2,181.78	S 1,365.40	W 534.77		1,466.38
2760	2,238.72	2,188.72	S 1,371.69	W 538.26		1,473.52
2770	2,245.65	2,195.65	S 1,378.00	W 541.75		1,480.67
2780	2,252.59	2,202.59	S 1,384.30	W 545.24		1,487.81
2790	2,259.52	2,209.52	S 1,390.60	W 548.74		1,494.95
2800	2,266.45	2,216.45	S 1,396.90	W 552.23		1,502.10
2810	2,273.38	2,223.38	S 1,403.21	W 555.73		1,509.25
2820	2,280.32	2,230.32	S 1,409.51	W 559.22		1,516.40
2830	2,287.25	2,237.25	S 1,415.82	W 562.72		1,523.55
2840	2,294.17	2,244.17	S 1,422.12	W 566.21		1,530.70
2850	2,301.10	2,251.10	S 1,428.43	W 569.71		1,537.85
2860	2,308.03	2,258.03	S 1,434.74	W 573.21		1,545.01
2870	2,314.95	2,264.95	S 1,441.05	W 576.70		1,552.16
2880	2,321.88	2,271.88	S 1,447.36	W 580.20		1,559.32
2890	2,328.80	2,278.80	S 1,453.67	W 583.70		1,566.48
2900	2,335.72	2,285.72	S 1,459.98	W 587.20		1,573.64
2910	2,342.65	2,292.65	S 1,466.29	W 590.70		1,580.80
2920	2,349.57	2,299.57	S 1,472.61	W 594.20		1,587.97
2930	2,356.49	2,306.49	S 1,478.92	W 597.70		1,595.13
2940	2,363.41	2,313.41	S 1,485.24	W 601.20		1,602.30
2950	2,370.32	2,320.32	S 1,491.55	W 604.70		1,609.47
2960	2,377.24	2,327.24	S 1,497.87	W 608.20		1,616.64

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
2970	2,384.16	2,334.16	S 1,504.19	W 611.70	1,623.81✓
2980	2,391.07	2,341.07	S 1,510.50	W 615.20	1,630.98
2990	2,397.98	2,347.98	S 1,516.82	W 618.70	1,638.16
3000	2,404.90	2,354.90	S 1,523.14	W 622.21	1,645.33
3010	2,411.81	2,361.81	S 1,529.46	W 625.71	1,652.51
3020	2,418.72	2,368.72	S 1,535.79	W 629.22	1,659.69
3030	2,425.63	2,375.63	S 1,542.11	W 632.72	1,666.86
3040	2,432.54	2,382.54	S 1,548.43	W 636.23	1,674.05
3050	2,439.45	2,389.45	S 1,554.76	W 639.73	1,681.23
3060	2,446.35	2,396.35	S 1,561.08	W 643.24	1,688.41
3070	2,453.26	2,403.26	S 1,567.41	W 646.74	1,695.60
3080	2,460.16	2,410.16	S 1,573.73	W 650.25	1,702.78
3090	2,467.07	2,417.07	S 1,580.06	W 653.76	1,709.97
3100	2,473.97	2,423.97	S 1,586.39	W 657.27	1,717.16
3110	2,480.87	2,430.87	S 1,592.72	W 660.77	1,724.35
3120	2,487.77	2,437.77	S 1,599.05	W 664.28	1,731.54
3130	2,494.67	2,444.67	S 1,605.38	W 667.79	1,738.73
3140	2,501.57	2,451.57	S 1,611.71	W 671.30	1,745.93
3150	2,508.47	2,458.47	S 1,618.04	W 674.81	1,753.12
3160	2,515.36	2,465.36	S 1,624.38	W 678.32	1,760.32
3170	2,522.26	2,472.26	S 1,630.71	W 681.83	1,767.52
3180	2,529.15	2,479.15	S 1,637.05	W 685.35	1,774.72
3190	2,536.05	2,486.05	S 1,643.38	W 688.86	1,781.92
3200	2,542.94	2,492.94	S 1,649.72	W 692.37	1,789.12
3210	2,549.83	2,499.83	S 1,656.06	W 695.88	1,796.32
3220	2,556.72	2,506.72	S 1,662.39	W 699.40	1,803.53
3230	2,563.61	2,513.61	S 1,668.73	W 702.91	1,810.74
3240	2,570.50	2,520.50	S 1,675.07	W 706.42	1,817.94
3250	2,577.39	2,527.39	S 1,681.42	W 709.94	1,825.15
3260	2,584.27	2,534.27	S 1,687.76	W 713.45	1,832.36✓
3270	2,591.16	2,541.16	S 1,694.10	W 716.97	1,839.57
3280	2,598.04	2,548.04	S 1,700.44	W 720.49	1,846.78
* 3290	2,604.93	2,554.93	S 1,706.79	W 724.00	1,854.00 *
3300	2,611.81	2,561.81	S 1,712.94	W 727.85	1,861.16
3310	2,618.69	2,568.69	S 1,719.09	W 731.69	1,868.33
3320	2,625.58	2,575.58	S 1,725.24	W 735.54	1,875.49
3330	2,632.46	2,582.46	S 1,731.39	W 739.38	1,882.66
3340	2,639.35	2,589.35	S 1,737.54	W 743.22	1,889.83
3350	2,646.23	2,596.23	S 1,743.70	W 747.07	1,897.00
3360	2,653.11	2,603.11	S 1,749.85	W 750.91	1,904.16
3370	2,660.00	2,610.00	S 1,756.00	W 754.75	1,911.33
3380	2,666.88	2,616.88	S 1,762.15	W 758.60	1,918.50
3390	2,673.76	2,623.76	S 1,768.30	W 762.44	1,925.67
3400	2,680.65	2,630.65	S 1,774.45	W 766.29	1,932.84
3410	2,687.53	2,637.53	S 1,780.61	W 770.13	1,940.02

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3420	2,694.41	2,644.41	S 1,786.76	W 773.97		1,947.19
3430	2,701.30	2,651.30	S 1,792.91	W 777.82		1,954.36
3440	2,708.18	2,658.18	S 1,799.06	W 781.66		1,961.53
3450	2,715.06	2,665.06	S 1,805.21	W 785.51		1,968.71
3460	2,721.95	2,671.95	S 1,811.36	W 789.35		1,975.88
3470	2,728.83	2,678.83	S 1,817.51	W 793.19		1,983.06
3480	2,735.72	2,685.72	S 1,823.67	W 797.04		1,990.23
3490	2,742.60	2,692.60	S 1,829.82	W 800.88		1,997.41
3500	2,749.48	2,699.48	S 1,835.97	W 804.73		2,004.59
3510	2,756.37	2,706.37	S 1,842.12	W 808.57		2,011.77
3520	2,763.25	2,713.25	S 1,848.27	W 812.41		2,018.94
3530	2,770.13	2,720.13	S 1,854.42	W 816.26		2,026.12
3540	2,777.02	2,727.02	S 1,860.58	W 820.10		2,033.30
3550	2,783.90	2,733.90	S 1,866.73	W 823.94		2,040.48
3560	2,790.78	2,740.78	S 1,872.88	W 827.79		2,047.66
* 3568	2,796.29	2,746.29	S 1,877.80	W 830.86		2,053.41 *
3570	2,797.67	2,747.67	S 1,879.00	W 831.68		2,054.83
3580	2,804.55	2,754.55	S 1,885.01	W 835.73		2,061.97
3590	2,811.44	2,761.44	S 1,891.02	W 839.78		2,069.11
3600	2,818.34	2,768.34	S 1,897.03	W 843.83		2,076.24
3610	2,825.23	2,775.23	S 1,903.03	W 847.88		2,083.37
3620	2,832.13	2,782.13	S 1,909.03	W 851.93		2,090.50
3630	2,839.04	2,789.04	S 1,915.03	W 855.98		2,097.63
3640	2,845.94	2,795.94	S 1,921.03	W 860.02		2,104.75
3650	2,852.85	2,802.85	S 1,927.02	W 864.06		2,111.88
3660	2,859.76	2,809.76	S 1,933.01	W 868.11		2,119.00
3670	2,866.68	2,816.68	S 1,939.00	W 872.15		2,126.12
3680	2,873.59	2,823.59	S 1,944.99	W 876.18		2,133.23
3690	2,880.51	2,830.51	S 1,950.97	W 880.22		2,140.35
3700	2,887.44	2,837.44	S 1,956.95	W 884.25		2,147.46
3710	2,894.37	2,844.37	S 1,962.93	W 888.29		2,154.57
3720	2,901.29	2,851.29	S 1,968.91	W 892.32		2,161.68
3730	2,908.23	2,858.23	S 1,974.88	W 896.35		2,168.78
3740	2,915.16	2,865.16	S 1,980.86	W 900.38		2,175.89
3750	2,922.10	2,872.10	S 1,986.83	W 904.40		2,182.99
3760	2,929.04	2,879.04	S 1,992.79	W 908.43		2,190.09
3770	2,935.99	2,885.99	S 1,998.76	W 912.45		2,197.18
3780	2,942.94	2,892.94	S 2,004.72	W 916.47		2,204.28
3790	2,949.89	2,899.89	S 2,010.68	W 920.49		2,211.37
3800	2,956.84	2,906.84	S 2,016.64	W 924.51		2,218.46
3810	2,963.80	2,913.80	S 2,022.59	W 928.53		2,225.55
3820	2,970.76	2,920.76	S 2,028.55	W 932.54		2,232.63
3830	2,977.72	2,927.72	S 2,034.50	W 936.56		2,239.72
3840	2,984.69	2,934.69	S 2,040.45	W 940.57		2,246.80
3850	2,991.66	2,941.66	S 2,046.39	W 944.58		2,253.88

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3860	2,998.63	2,948.63	S 2,052.33	W 948.59		2,260.95
3870	3,005.61	2,955.61	S 2,058.27	W 952.60		2,268.03
* 3879	3,011.89	2,961.89	S 2,063.62	W 956.20		2,274.39 *
3880	3,012.58	2,962.58	S 2,064.20	W 956.62		2,275.09
3890	3,019.56	2,969.56	S 2,069.99	W 960.83		2,282.12
3900	3,026.55	2,976.55	S 2,075.78	W 965.04		2,289.14
3910	3,033.54	2,983.54	S 2,081.57	W 969.24		2,296.16
3920	3,040.53	2,990.53	S 2,087.35	W 973.45		2,303.18
3930	3,047.52	2,997.52	S 2,093.14	W 977.65		2,310.20
3940	3,054.51	3,004.51	S 2,098.92	W 981.85		2,317.22
3950	3,061.51	3,011.51	S 2,104.70	W 986.05		2,324.23
3960	3,068.52	3,018.52	S 2,110.47	W 990.24		2,331.24
3970	3,075.52	3,025.52	S 2,116.25	W 994.44		2,338.25
3980	3,082.53	3,032.53	S 2,122.02	W 998.63		2,345.26
3990	3,089.54	3,039.54	S 2,127.79	W 1,002.82		2,352.26
4000	3,096.55	3,046.55	S 2,133.55	W 1,007.01		2,359.26
4010	3,103.57	3,053.57	S 2,139.32	W 1,011.20		2,366.26
4020	3,110.59	3,060.59	S 2,145.08	W 1,015.39		2,373.26
4030	3,117.61	3,067.61	S 2,150.84	W 1,019.57		2,380.26
4040	3,124.64	3,074.64	S 2,156.60	W 1,023.75		2,387.25
4050	3,131.67	3,081.67	S 2,162.35	W 1,027.93		2,394.25
4060	3,138.70	3,088.70	S 2,168.10	W 1,032.11		2,401.24
4070	3,145.73	3,095.73	S 2,173.85	W 1,036.29		2,408.22
4080	3,152.77	3,102.77	S 2,179.60	W 1,040.47		2,415.21
4090	3,159.81	3,109.81	S 2,185.35	W 1,044.64		2,422.19
4100	3,166.85	3,116.85	S 2,191.09	W 1,048.81		2,429.18
4110	3,173.90	3,123.90	S 2,196.83	W 1,052.98		2,436.15
4120	3,180.95	3,130.95	S 2,202.57	W 1,057.15		2,443.13
4130	3,188.00	3,138.00	S 2,208.30	W 1,061.32		2,450.11
4140	3,195.05	3,145.05	S 2,214.04	W 1,065.49		2,457.08
4150	3,202.11	3,152.11	S 2,219.77	W 1,069.65		2,464.05
4160	3,209.17	3,159.17	S 2,225.50	W 1,073.81		2,471.02
4170	3,216.24	3,166.24	S 2,231.23	W 1,077.97		2,477.98
4180	3,223.30	3,173.30	S 2,236.95	W 1,082.13		2,484.95
4190	3,230.37	3,180.37	S 2,242.67	W 1,086.29		2,491.91
* 4195	3,233.91	3,183.91	S 2,245.53	W 1,088.37		2,495.39 *
4200	3,237.45	3,187.45	S 2,248.39	W 1,090.45		2,498.87
4210	3,244.52	3,194.52	S 2,254.11	W 1,094.60		2,505.82
4220	3,251.61	3,201.61	S 2,259.82	W 1,098.75		2,512.77
4230	3,258.70	3,208.70	S 2,265.52	W 1,102.89		2,519.72
4240	3,265.79	3,215.79	S 2,271.23	W 1,107.04		2,526.66
4250	3,272.89	3,222.89	S 2,276.92	W 1,111.18		2,533.59
4260	3,279.99	3,229.99	S 2,282.62	W 1,115.31		2,540.53
4270	3,287.10	3,237.10	S 2,288.31	W 1,119.45		2,547.46
4280	3,294.21	3,244.21	S 2,294.00	W 1,123.58		2,554.38

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4290	3,301.33	3,251.33	S 2,299.68	W 1,127.71	2,561.30
4300	3,308.45	3,258.45	S 2,305.36	W 1,131.83	2,568.21
4310	3,315.58	3,265.58	S 2,311.03	W 1,135.96	2,575.13
4320	3,322.71	3,272.71	S 2,316.70	W 1,140.08	2,582.03
4330	3,329.85	3,279.85	S 2,322.37	W 1,144.19	2,588.93
4340	3,336.99	3,286.99	S 2,328.03	W 1,148.31	2,595.83
4350	3,344.14	3,294.14	S 2,333.69	W 1,152.42	2,602.73
4360	3,351.29	3,301.29	S 2,339.34	W 1,156.53	2,609.61
4370	3,358.45	3,308.45	S 2,344.99	W 1,160.63	2,616.50
4380	3,365.61	3,315.61	S 2,350.64	W 1,164.73	2,623.38
4390	3,372.78	3,322.78	S 2,356.28	W 1,168.83	2,630.26
4400	3,379.95	3,329.95	S 2,361.92	W 1,172.93	2,637.13
4410	3,387.12	3,337.12	S 2,367.55	W 1,177.02	2,643.99
4420	3,394.31	3,344.31	S 2,373.18	W 1,181.11	2,650.86
4430	3,401.49	3,351.49	S 2,378.81	W 1,185.20	2,657.71
4440	3,408.68	3,358.68	S 2,384.43	W 1,189.29	2,664.57
* 4445	3,412.28	3,362.28	S 2,387.24	W 1,191.33	2,667.99 *
4450	3,415.88	3,365.88	S 2,390.05	W 1,193.37	2,671.42
4460	3,423.07	3,373.07	S 2,395.67	W 1,197.45	2,678.27
4470	3,430.27	3,380.27	S 2,401.29	W 1,201.53	2,685.12
4480	3,437.47	3,387.47	S 2,406.90	W 1,205.61	2,691.97
4490	3,444.67	3,394.67	S 2,412.51	W 1,209.69	2,698.81
4500	3,451.87	3,401.87	S 2,418.13	W 1,213.77	2,705.66
4510	3,459.08	3,409.08	S 2,423.74	W 1,217.84	2,712.50
4520	3,466.28	3,416.28	S 2,429.35	W 1,221.92	2,719.34
4530	3,473.49	3,423.49	S 2,434.96	W 1,225.99	2,726.18
4540	3,480.70	3,430.70	S 2,440.56	W 1,230.07	2,733.02
4550	3,487.91	3,437.91	S 2,446.17	W 1,234.14	2,739.86
4560	3,495.12	3,445.12	S 2,451.77	W 1,238.21	2,746.70
4570	3,502.34	3,452.34	S 2,457.37	W 1,242.28	2,753.54
4580	3,509.55	3,459.55	S 2,462.97	W 1,246.35	2,760.37
4590	3,516.77	3,466.77	S 2,468.57	W 1,250.42	2,767.20
4600	3,523.99	3,473.99	S 2,474.17	W 1,254.49	2,774.04
4610	3,531.21	3,481.21	S 2,479.77	W 1,258.55	2,780.87
4620	3,538.43	3,488.43	S 2,485.37	W 1,262.62	2,787.70
4630	3,545.66	3,495.66	S 2,490.96	W 1,266.68	2,794.53
4640	3,552.88	3,502.88	S 2,496.55	W 1,270.75	2,801.35
4650	3,560.11	3,510.11	S 2,502.14	W 1,274.81	2,808.18
4660	3,567.34	3,517.34	S 2,507.73	W 1,278.87	2,815.00
4670	3,574.57	3,524.57	S 2,513.32	W 1,282.93	2,821.83
4680	3,581.80	3,531.80	S 2,518.91	W 1,286.99	2,828.65
4690	3,589.03	3,539.03	S 2,524.49	W 1,291.05	2,835.47
4700	3,596.27	3,546.27	S 2,530.08	W 1,295.10	2,842.29
4710	3,603.51	3,553.51	S 2,535.66	W 1,299.16	2,849.11
4720	3,610.75	3,560.75	S 2,541.24	W 1,303.22	2,855.92

DIRECTIONAL SURVEY FOR WELL LD6-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (LD6-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD - ORDINATES	HORIZONTAL DISTANCE
4730	3,617.99	3,567.99	S 2,546.82	W 1,307.27	2,862.74
4740	3,625.23	3,575.23	S 2,552.40	W 1,311.32	2,869.55
4750	3,632.47	3,582.47	S 2,557.98	W 1,315.37	2,876.37
4760	3,639.72	3,589.72	S 2,563.56	W 1,319.43	2,883.18
4770	3,646.97	3,596.97	S 2,569.13	W 1,323.48	2,889.99
4780	3,654.21	3,604.21	S 2,574.70	W 1,327.53	2,896.80
4790	3,661.47	3,611.47	S 2,580.27	W 1,331.57	2,903.60
4800	3,668.72	3,618.72	S 2,585.85	W 1,335.62	2,910.41
* 4810	3,675.97	3,625.97	S 2,591.41	W 1,339.67	2,917.21 *
4820	3,683.23	3,633.23	S 2,597.05	W 1,343.61	2,924.04
4830	3,690.48	3,640.48	S 2,602.69	W 1,347.56	2,930.85
4840	3,697.74	3,647.74	S 2,608.32	W 1,351.50	2,937.67
4850	3,705.00	3,655.00	S 2,613.95	W 1,355.45	2,944.49
4860	3,712.27	3,662.27	S 2,619.58	W 1,359.39	2,951.30
4870	3,719.53	3,669.53	S 2,625.21	W 1,363.33	2,958.11
4880	3,726.80	3,676.80	S 2,630.84	W 1,367.27	2,964.92
4890	3,734.07	3,684.07	S 2,636.46	W 1,371.21	2,971.73
4900	3,741.34	3,691.34	S 2,642.09	W 1,375.15	2,978.54
4910	3,748.61	3,698.61	S 2,647.71	W 1,379.09	2,985.34
4920	3,755.89	3,705.89	S 2,653.33	W 1,383.02	2,992.14
4930	3,763.16	3,713.16	S 2,658.95	W 1,386.96	2,998.95
4940	3,770.44	3,720.44	S 2,664.57	W 1,390.89	3,005.75
4950	3,777.72	3,727.72	S 2,670.18	W 1,394.82	3,012.54
4960	3,785.00	3,735.00	S 2,675.80	W 1,398.75	3,019.34
4970	3,792.29	3,742.29	S 2,681.41	W 1,402.68	3,026.14
4980	3,799.57	3,749.57	S 2,687.02	W 1,406.61	3,032.93
4990	3,806.86	3,756.86	S 2,692.63	W 1,410.54	3,039.72
5000	3,814.15	3,764.15	S 2,698.24	W 1,414.47	3,046.51
5010	3,821.44	3,771.44	S 2,703.85	W 1,418.39	3,053.30
5020	3,828.73	3,778.73	S 2,709.45	W 1,422.32	3,060.08
5030	3,836.03	3,786.03	S 2,715.05	W 1,426.24	3,066.87
5040	3,843.33	3,793.33	S 2,720.65	W 1,430.16	3,073.65
5050	3,850.62	3,800.62	S 2,726.25	W 1,434.08	3,080.43
5060	3,857.93	3,807.93	S 2,731.85	W 1,438.00	3,087.21
5070	3,865.23	3,815.23	S 2,737.45	W 1,441.92	3,093.99
5080	3,872.53	3,822.53	S 2,743.04	W 1,445.84	3,100.76
5090	3,879.84	3,829.84	S 2,748.64	W 1,449.75	3,107.54
5100	3,887.15	3,837.15	S 2,754.23	W 1,453.67	3,114.31
5110	3,894.46	3,844.46	S 2,759.82	W 1,457.58	3,121.08
5120	3,901.77	3,851.77	S 2,765.40	W 1,461.50	3,127.85
* 5129	3,908.35	3,858.35	S 2,770.43	W 1,465.02	3,133.94 *
5130	3,909.08	3,859.08	S 2,770.96	W 1,465.45	3,134.61
5140	3,916.40	3,866.40	S 2,776.26	W 1,469.74	3,141.30
5150	3,923.72	3,873.72	S 2,781.55	W 1,474.02	3,147.98
5160	3,931.04	3,881.04	S 2,786.85	W 1,478.31	3,154.67

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
5170	3,938.37	3,888.37	S 2,792.14	W 1,482.59	3,161.35
5180	3,945.69	3,895.69	S 2,797.43	W 1,486.87	3,168.03
5190	3,953.03	3,903.03	S 2,802.71	W 1,491.15	3,174.70
5200	3,960.36	3,910.36	S 2,807.99	W 1,495.43	3,181.38
5210	3,967.70	3,917.70	S 2,813.27	W 1,499.71	3,188.05
5220	3,975.04	3,925.04	S 2,818.55	W 1,503.98	3,194.72
5230	3,982.38	3,932.38	S 2,823.83	W 1,508.25	3,201.38
5240	3,989.73	3,939.73	S 2,829.10	W 1,512.53	3,208.05
5250	3,997.07	3,947.07	S 2,834.37	W 1,516.79	3,214.71
5260	4,004.43	3,954.43	S 2,839.64	W 1,521.06	3,221.36
5270	4,011.78	3,961.78	S 2,844.91	W 1,525.32	3,228.02
5280	4,019.14	3,969.14	S 2,850.17	W 1,529.59	3,234.67
5290	4,026.50	3,976.50	S 2,855.43	W 1,533.85	3,241.32
5300	4,033.86	3,983.86	S 2,860.69	W 1,538.10	3,247.97
5310	4,041.23	3,991.23	S 2,865.94	W 1,542.36	3,254.62
5320	4,048.60	3,998.60	S 2,871.20	W 1,546.61	3,261.26
5330	4,055.97	4,005.97	S 2,876.45	W 1,550.87	3,267.90
5340	4,063.34	4,013.34	S 2,881.70	W 1,555.12	3,274.54
5350	4,070.72	4,020.72	S 2,886.94	W 1,559.37	3,281.17
5360	4,078.10	4,028.10	S 2,892.19	W 1,563.61	3,287.80
5370	4,085.48	4,035.48	S 2,897.43	W 1,567.86	3,294.43
5380	4,092.87	4,042.87	S 2,902.67	W 1,572.10	3,301.06
5390	4,100.26	4,050.26	S 2,907.90	W 1,576.34	3,307.68
5400	4,107.65	4,057.65	S 2,913.14	W 1,580.58	3,314.30
5410	4,115.05	4,065.05	S 2,918.37	W 1,584.81	3,320.92
5420	4,122.44	4,072.44	S 2,923.60	W 1,589.05	3,327.54
5430	4,129.84	4,079.84	S 2,928.83	W 1,593.28	3,334.15
5440	4,137.25	4,087.25	S 2,934.05	W 1,597.51	3,340.76
5450	4,144.65	4,094.65	S 2,939.27	W 1,601.74	3,347.37
5460	4,152.06	4,102.06	S 2,944.49	W 1,605.97	3,353.98
5470	4,159.47	4,109.47	S 2,949.71	W 1,610.19	3,360.58
5480	4,166.89	4,116.89	S 2,954.92	W 1,614.41	3,367.18
5490	4,174.31	4,124.31	S 2,960.13	W 1,618.63	3,373.78
5500	4,181.73	4,131.73	S 2,965.34	W 1,622.85	3,380.37
5510	4,189.15	4,139.15	S 2,970.55	W 1,627.07	3,386.97
5520	4,196.58	4,146.58	S 2,975.76	W 1,631.28	3,393.56
5530	4,204.01	4,154.01	S 2,980.96	W 1,635.50	3,400.14
* 5538	4,209.95	4,159.95	S 2,985.12	W 1,638.87	3,405.41 *
5540	4,211.44	4,161.44	S 2,986.14	W 1,639.73	3,406.72
5550	4,218.87	4,168.87	S 2,991.27	W 1,644.03	3,413.28
5560	4,226.31	4,176.31	S 2,996.39	W 1,648.32	3,419.84
5570	4,233.74	4,183.74	S 3,001.51	W 1,652.62	3,426.40
5580	4,241.18	4,191.18	S 3,006.63	W 1,656.92	3,432.96
5590	4,248.62	4,198.62	S 3,011.75	W 1,661.21	3,439.52
5600	4,256.06	4,206.06	S 3,016.87	W 1,665.51	3,446.07

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
5610	4,263.50	4,213.50	S 3,021.98	W 1,669.80	3,452.63
5620	4,270.95	4,220.95	S 3,027.10	W 1,674.09	3,459.18
5630	4,278.40	4,228.40	S 3,032.21	W 1,678.38	3,465.73
5640	4,285.84	4,235.84	S 3,037.32	W 1,682.67	3,472.28
5650	4,293.29	4,243.29	S 3,042.43	W 1,686.96	3,478.83
5660	4,300.74	4,250.74	S 3,047.54	W 1,691.25	3,485.38
5670	4,308.20	4,258.20	S 3,052.65	W 1,695.53	3,491.92
5680	4,315.65	4,265.65	S 3,057.76	W 1,699.82	3,498.47
5690	4,323.11	4,273.11	S 3,062.86	W 1,704.10	3,505.01
5700	4,330.56	4,280.56	S 3,067.97	W 1,708.38	3,511.55
5710	4,338.02	4,288.02	S 3,073.07	W 1,712.67	3,518.10
5720	4,345.48	4,295.48	S 3,078.17	W 1,716.95	3,524.64
5730	4,352.94	4,302.94	S 3,083.27	W 1,721.23	3,531.17
5740	4,360.41	4,310.41	S 3,088.37	W 1,725.50	3,537.71
5750	4,367.87	4,317.87	S 3,093.47	W 1,729.78	3,544.25
5760	4,375.34	4,325.34	S 3,098.56	W 1,734.06	3,550.78
5770	4,382.81	4,332.81	S 3,103.66	W 1,738.33	3,557.32✓
5780	4,390.28	4,340.28	S 3,108.75	W 1,742.60	3,563.85
5790	4,397.75	4,347.75	S 3,113.84	W 1,746.88	3,570.38
5800	4,405.22	4,355.22	S 3,118.93	W 1,751.15	3,576.91
5810	4,412.70	4,362.70	S 3,124.02	W 1,755.42	3,583.44
5820	4,420.17	4,370.17	S 3,129.11	W 1,759.69	3,589.96
5830	4,427.65	4,377.65	S 3,134.19	W 1,763.96	3,596.49
5840	4,435.13	4,385.13	S 3,139.28	W 1,768.22	3,603.01
5850	4,442.61	4,392.61	S 3,144.36	W 1,772.49	3,609.53
5860	4,450.09	4,400.09	S 3,149.44	W 1,776.75	3,616.06
5870	4,457.58	4,407.58	S 3,154.53	W 1,781.02	3,622.58
5880	4,465.06	4,415.06	S 3,159.60	W 1,785.28	3,629.10
5890	4,472.55	4,422.55	S 3,164.68	W 1,789.54	3,635.61
5900	4,480.04	4,430.04	S 3,169.76	W 1,793.80	3,642.13
* 5905	4,483.78	4,433.78	S 3,172.30	W 1,795.93	3,645.39 *
5910	4,487.53	4,437.53	S 3,174.68	W 1,798.23	3,648.60
5920	4,495.01	4,445.01	S 3,179.45	W 1,802.84	3,655.02
5930	4,502.49	4,452.49	S 3,184.23	W 1,807.45	3,661.45
5940	4,509.96	4,459.96	S 3,189.01	W 1,812.06	3,667.88
5950	4,517.43	4,467.43	S 3,193.79	W 1,816.68	3,674.32
5960	4,524.90	4,474.90	S 3,198.57	W 1,821.30	3,680.77
5970	4,532.36	4,482.36	S 3,203.36	W 1,825.93	3,687.22
5980	4,539.82	4,489.82	S 3,208.16	W 1,830.56	3,693.67
5990	4,547.27	4,497.27	S 3,212.95	W 1,835.19	3,700.13
6000	4,554.72	4,504.72	S 3,217.75	W 1,839.82	3,706.60
6010	4,562.17	4,512.17	S 3,222.55	W 1,844.46	3,713.07
6020	4,569.61	4,519.61	S 3,227.36	W 1,849.10	3,719.55
6030	4,577.04	4,527.04	S 3,232.17	W 1,853.75	3,726.03
6040	4,584.47	4,534.47	S 3,236.98	W 1,858.39	3,732.52✓

DIRECTIONAL SURVEY FOR WELL L06-8

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. (L06-8)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 23

CONDUCTOR DATA: 400' MD. DEVIATION: 15.00 DEGREES ORIENTATION: S - 28.00 - W

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES	HORIZONTAL DISTANCE
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6050	4,591.90	4,541.90	S 3,241.80 W 1,863.04	3,739.01
6060	4,599.33	4,549.33	S 3,246.62 W 1,867.70	3,745.51
6070	4,606.74	4,556.74	S 3,251.44 W 1,872.36	3,752.01
6080	4,614.16	4,564.16	S 3,256.27 W 1,877.02	3,758.52
6090	4,621.57	4,571.57	S 3,261.10 W 1,881.68	3,765.04
6100	4,628.98	4,578.98	S 3,265.93 W 1,886.35	3,771.56
6110	4,636.38	4,586.38	S 3,270.77 W 1,891.02	3,778.08
6120	4,643.77	4,593.77	S 3,275.61 W 1,895.69	3,784.61
6130	4,651.17	4,601.17	S 3,280.45 W 1,900.37	3,791.15
6140	4,658.56	4,608.56	S 3,285.30 W 1,905.05	3,797.69
6150	4,665.94	4,615.94	S 3,290.15 W 1,909.74	3,804.24
6160	4,673.32	4,623.32	S 3,295.00 W 1,914.42	3,810.79
6170	4,680.70	4,630.70	S 3,299.86 W 1,919.12	3,817.34
6180	4,688.07	4,638.07	S 3,304.72 W 1,923.81	3,823.91
6190	4,695.44	4,645.44	S 3,309.59 W 1,928.51	3,830.47
6200	4,702.80	4,652.80	S 3,314.45 W 1,933.21	3,837.05
6210	4,710.16	4,660.16	S 3,319.33 W 1,937.91	3,843.62
6220	4,717.51	4,667.51	S 3,324.20 W 1,942.62	3,850.21
6230	4,724.86	4,674.86	S 3,329.08 W 1,947.33	3,856.79
6240	4,732.21	4,682.21	S 3,333.96 W 1,952.04	3,863.39
6250	4,739.55	4,689.55	S 3,338.84 W 1,956.76	3,869.99
6260	4,746.88	4,696.88	S 3,343.73 W 1,961.48	3,876.59
6270	4,754.22	4,704.22	S 3,348.62 W 1,966.20	3,883.20
6280	4,761.54	4,711.54	S 3,353.52 W 1,970.93	3,889.82
6290	4,768.87	4,718.87	S 3,358.42 W 1,975.66	3,896.44
6300	4,776.19	4,726.19	S 3,363.32 W 1,980.39	3,903.06
6310	4,783.50	4,733.50	S 3,368.22 W 1,985.13	3,909.69
* 6313	4,785.70	4,735.70 ✓	S 3,369.69 W 1,986.55	3,911.68 ✓ *