

DIRECTIONAL SURVEY FOR WELL LD6-16
RAW DATA

WELL No. Z2A-21-565-CD-LD6(LD6-16) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

THE CONDUCTOR IS VERTICAL

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	803	1.25	N - 76.00 - E
2	968	4.50	N - 28.50 - E
3	1097	12.00	N - 26.50 - W
4	1232	14.50	N - 34.00 - W
5	1348	17.00	N - 31.50 - W
6	1502	20.00	N - 27.00 - W
7	1655	24.00	N - 22.50 - W
8	1866	27.50	N - 17.00 - W
9	2016	29.50	N - 12.00 - W
10	2228	34.50	N - 17.00 - W
11	2315	35.50	N - 27.50 - W
12	2484	35.00	N - 31.00 - W
13	2665	35.00	N - 30.00 - W
14	2878	35.50	N - 28.00 - W
15	3152	36.00	N - 26.00 - W
16	3369	37.00	N - 24.00 - W
17	3944	36.50	N - 22.50 - W
18	4153	36.50	N - 21.50 - W
19	4509	36.00	N - 20.00 - W
20	4775	36.00	N - 17.75 - W
21	5080	36.00	N - 16.50 - W
22	5476	36.50	N - 15.25 - W
23	6019	38.50	N - 12.75 - W
24	6383	37.50	N - 10.75 - W
25	6625	37.00	N - 9.50 - W

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
* 500	500.00	450.00	N	0.00	E 0.00	0.00 *
510	509.99	459.99	N	0.00	E 0.00	0.00
520	519.99	469.99	N	0.00	E 0.02	0.02
530	529.99	479.99	N	0.01	E 0.04	0.04
540	539.99	489.99	N	0.01	E 0.06	0.07
550	549.99	499.99	N	0.02	E 0.10	0.10
560	559.99	509.99	N	0.03	E 0.14	0.15
570	569.99	519.99	N	0.04	E 0.19	0.20
580	579.99	529.99	N	0.06	E 0.25	0.25
590	589.99	539.99	N	0.07	E 0.31	0.32
600	599.99	549.99	N	0.09	E 0.38	0.39
610	609.99	559.99	N	0.11	E 0.46	0.47
620	619.99	569.99	N	0.13	E 0.54	0.56
630	629.99	579.99	N	0.15	E 0.63	0.65
640	639.99	589.99	N	0.18	E 0.73	0.75
650	649.99	599.99	N	0.20	E 0.83	0.86
660	659.99	609.99	N	0.23	E 0.95	0.97
670	669.99	619.99	N	0.26	E 1.06	1.10
680	679.99	629.99	N	0.29	E 1.19	1.23
690	689.99	639.99	N	0.33	E 1.32	1.36
700	699.99	649.99	N	0.36	E 1.46	1.51
710	709.99	659.99	N	0.40	E 1.61	1.66
720	719.99	669.99	N	0.44	E 1.76	1.82
730	729.98	679.98	N	0.48	E 1.92	1.98
740	739.98	689.98	N	0.52	E 2.09	2.16
750	749.98	699.98	N	0.56	E 2.27	2.34
760	759.98	709.98	N	0.61	E 2.45	2.52
770	769.98	719.98	N	0.65	E 2.64	2.72
780	779.98	729.98	N	0.70	E 2.83	2.92
790	789.97	739.97	N	0.75	E 3.03	3.13
800	799.97	749.97	N	0.80	E 3.24	3.34
* 803	802.97	752.97	N	0.82	E 3.31	3.41 *
810	809.97	759.97	N	0.97	E 3.39	3.53
820	819.96	769.96	N	1.21	E 3.52	3.72
830	829.96	779.96	N	1.49	E 3.67	3.96
840	839.95	789.95	N	1.79	E 3.83	4.23
850	849.95	799.95	N	2.12	E 4.01	4.54
860	859.94	809.94	N	2.49	E 4.21	4.89
870	869.93	819.93	N	2.88	E 4.43	5.28
880	879.92	829.92	N	3.31	E 4.66	5.71
890	889.90	839.90	N	3.76	E 4.90	6.18
900	899.89	849.89	N	4.24	E 5.17	6.69
910	909.87	859.87	N	4.76	E 5.46	7.23
920	919.85	869.85	N	5.30	E 5.74	7.82
930	929.83	879.83	N	5.88	E 6.05	8.44

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
940	939.81	889.81	N	6.48	E	6.38	9.10
950	949.78	899.78	N	7.12	E	6.73	9.80
960	959.75	909.75	N	7.78	E	7.09	10.53
* 968	967.73	917.73	N	8.34	E	7.39	11.14 *
970	969.72	919.72	N	8.48	E	7.32	11.20
980	979.68	929.68	N	9.29	E	6.91	11.58
990	989.63	939.63	N	10.19	E	6.46	12.07
1000	999.57	949.57	N	11.18	E	5.97	12.68
1010	1,009.49	959.49	N	12.27	E	5.43	13.41
1020	1,019.41	969.41	N	13.44	E	4.84	14.28
1030	1,029.31	979.31	N	14.70	E	4.22	15.29
1040	1,039.19	989.19	N	16.05	E	3.54	16.44
1050	1,049.06	999.06	N	17.49	E	2.82	17.72
1060	1,058.91	1,008.91	N	19.02	E	2.06	19.13
1070	1,068.75	1,018.75	N	20.64	E	1.25	20.68
1080	1,078.56	1,028.56	N	22.35	E	0.40	22.36
1090	1,088.36	1,038.36	N	24.15	W	0.49	24.16
* 1097	1,095.21	1,045.21	N	25.45	W	1.14	25.48 *
1100	1,098.14	1,048.14	N	25.97	W	1.49	26.01
1110	1,107.91	1,057.91	N	27.73	W	2.67	27.86
1120	1,117.68	1,067.68	N	29.51	W	3.88	29.77
1130	1,127.44	1,077.44	N	31.32	W	5.10	31.74
1140	1,137.19	1,087.19	N	33.16	W	6.34	33.76
1150	1,146.93	1,096.93	N	35.02	W	7.59	35.84
1160	1,156.67	1,106.67	N	36.91	W	8.86	37.96
1170	1,166.40	1,116.40	N	38.83	W	10.16	40.13
1180	1,176.12	1,126.12	N	40.77	W	11.47	42.35
1190	1,185.84	1,135.84	N	42.73	W	12.79	44.61
1200	1,195.55	1,145.55	N	44.72	W	14.14	46.91
1210	1,205.24	1,155.24	N	46.74	W	15.50	49.25
1220	1,214.94	1,164.94	N	48.79	W	16.88	51.63
1230	1,224.62	1,174.62	N	50.86	W	18.27	54.04
* 1232	1,226.55	1,176.55	N	51.27	W	18.55	54.53 *
1240	1,234.29	1,184.29	N	53.00	W	19.61	56.52
1250	1,243.96	1,193.96	N	55.19	W	20.95	59.04
1260	1,253.61	1,203.61	N	57.41	W	22.32	61.60
1270	1,263.26	1,213.26	N	59.67	W	23.70	64.20
1280	1,272.89	1,222.89	N	61.95	W	25.10	66.84
1290	1,282.52	1,232.52	N	64.26	W	26.51	69.52
1300	1,292.13	1,242.13	N	66.61	W	27.95	72.24
1310	1,301.73	1,251.73	N	68.99	W	29.41	74.99
1320	1,311.33	1,261.33	N	71.39	W	30.88	77.79
1330	1,320.91	1,270.91	N	73.83	W	32.38	80.62
1340	1,330.48	1,280.48	N	76.30	W	33.89	83.49
* 1348	1,338.13	1,288.13	N	78.29	W	35.11	85.81 *

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

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ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
1350	1,340.05	1,290.05	N	78.82	W 35.38	86.39
1360	1,349.60	1,299.60	N	81.45	W 36.72	89.35
1370	1,359.14	1,309.14	N	84.12	W 38.08	92.34
1380	1,368.67	1,318.67	N	86.82	W 39.46	95.37
1390	1,378.19	1,328.19	N	89.55	W 40.84	98.42
1400	1,387.70	1,337.70	N	92.30	W 42.25	101.51
1410	1,397.20	1,347.20	N	95.09	W 43.67	104.64
1420	1,406.69	1,356.69	N	97.90	W 45.10	107.79
1430	1,416.16	1,366.16	N	100.74	W 46.55	110.98
1440	1,425.63	1,375.63	N	103.61	W 48.01	114.20
1450	1,435.09	1,385.09	N	106.51	W 49.49	117.45
1460	1,444.53	1,394.53	N	109.44	W 50.98	120.73
1470	1,453.97	1,403.97	N	112.39	W 52.49	124.05
1480	1,463.39	1,413.39	N	115.38	W 54.01	127.39
1490	1,472.80	1,422.80	N	118.39	W 55.54	130.77
1500	1,482.20	1,432.20	N	121.43	W 57.09	134.19
* 1502	1,484.08	1,434.08	N	122.04	W 57.40	134.87 *
1510	1,491.58	1,441.58	N	124.60	W 58.46	137.63
1520	1,500.95	1,450.95	N	127.83	W 59.80	141.12
1530	1,510.31	1,460.31	N	131.10	W 61.15	144.66
1540	1,519.64	1,469.64	N	134.41	W 62.52	148.24
1550	1,528.96	1,478.96	N	137.76	W 63.91	151.86
1560	1,538.26	1,488.26	N	141.15	W 65.31	155.53
1570	1,547.55	1,497.55	N	144.57	W 66.73	159.23
1580	1,556.82	1,506.82	N	148.04	W 68.17	162.98
1590	1,566.07	1,516.07	N	151.55	W 69.62	166.78
1600	1,575.31	1,525.31	N	155.09	W 71.09	170.61
1610	1,584.52	1,534.52	N	158.67	W 72.58	174.49
1620	1,593.72	1,543.72	N	162.30	W 74.08	178.40
1630	1,602.90	1,552.90	N	165.96	W 75.59	182.36
1640	1,612.07	1,562.07	N	169.66	W 77.13	186.37
1650	1,621.21	1,571.21	N	173.40	W 78.67	190.41
* 1655	1,625.78	1,575.78	N	175.28	W 79.45	192.44 *
1660	1,630.34	1,580.34	N	177.23	W 80.05	194.47
1670	1,639.46	1,589.46	N	181.15	W 81.25	198.54
1680	1,648.57	1,598.57	N	185.11	W 82.46	202.64
1690	1,657.66	1,607.66	N	189.09	W 83.67	206.77
1700	1,666.74	1,616.74	N	193.09	W 84.90	210.93
1710	1,675.81	1,625.81	N	197.12	W 86.13	215.11
1720	1,684.87	1,634.87	N	201.17	W 87.37	219.32
1730	1,693.92	1,643.92	N	205.25	W 88.62	223.56
1740	1,702.95	1,652.95	N	209.35	W 89.87	227.83
1750	1,711.97	1,661.97	N	213.48	W 91.13	232.12
1760	1,720.98	1,670.98	N	217.63	W 92.40	236.44
1770	1,729.97	1,679.97	N	221.81	W 93.68	240.78

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET

NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
1780	1,738.95	1,688.95	N	226.01	W 94.96	245.16
1790	1,747.92	1,697.92	N	230.24	W 96.26	249.56
1800	1,756.88	1,706.88	N	234.50	W 97.56	253.98
1810	1,765.82	1,715.82	N	238.77	W 98.87	258.43
1820	1,774.75	1,724.75	N	243.08	W 100.18	262.91
1830	1,783.67	1,733.67	N	247.40	W 101.50	267.42
1840	1,792.58	1,742.58	N	251.75	W 102.83	271.95
1850	1,801.47	1,751.47	N	256.13	W 104.17	276.51
1860	1,810.35	1,760.35	N	260.53	W 105.52	281.09
* 1866	1,815.67	1,765.67	N	263.18	W 106.33	283.85 *
1870	1,819.21	1,769.21	N	264.99	W 106.71	285.67
1880	1,828.07	1,778.07	N	269.54	W 107.68	290.25
1890	1,836.91	1,786.91	N	274.10	W 108.65	294.85
1900	1,845.75	1,795.75	N	278.69	W 109.62	299.47
1910	1,854.57	1,804.57	N	283.29	W 110.60	304.12
1920	1,863.38	✓ 1,813.38	N	287.92	W 111.58	308.78 ✓
1930	1,872.18	1,822.18	N	292.56	W 112.57	313.47
1940	1,880.97	1,830.97	N	297.23	W 113.56	318.18
1950	1,889.75	1,839.75	N	301.91	W 114.56	322.92
1960	1,898.52	1,848.52	N	306.62	W 115.56	327.67
1970	1,907.27	1,857.27	N	311.34	W 116.56	332.45
1980	1,916.02	1,866.02	N	316.09	W 117.57	337.25
1990	1,924.75	1,874.75	N	320.85	W 118.59	342.07
2000	1,933.47	1,883.47	N	325.64	W 119.60	346.91
2010	1,942.18	1,892.18	N	330.44	W 120.62	351.77
* 2016	1,947.40	1,897.40	N	333.33	W 121.24	354.70 *
2020	1,950.88	1,900.88	N	335.22	W 121.82	356.67
2030	1,959.56	1,909.56	N	339.98	W 123.27	361.64
2040	1,968.21	1,918.21	N	344.77	W 124.74	366.64
2050	1,976.84	1,926.84	N	349.59	W 126.21	371.68
2060	1,985.46	1,935.46	N	354.45	W 127.70	376.76
2070	1,994.05	1,944.05	N	359.35	W 129.19	381.87
2080	2,002.62	1,952.62	N	364.27	W 130.70	387.01
2090	2,011.17	1,961.17	N	369.23	W 132.21	392.19
2100	2,019.70	1,969.70	N	374.23	W 133.74	397.41
2110	2,028.20	1,978.20	N	379.26	W 135.28	402.66
2120	2,036.69	1,986.69	N	384.32	W 136.83	407.95
2130	2,045.15	1,995.15	N	389.41	W 138.38	413.27
2140	2,053.59	2,003.59	N	394.54	W 139.95	418.63
2150	2,062.01	✓ 2,012.01	N	399.70	W 141.53	424.02 ✓
2160	2,070.41	2,020.41	N	404.89	W 143.12	429.44
2170	2,078.78	2,028.78	N	410.12	W 144.71	434.90
2180	2,087.13	2,037.13	N	415.38	W 146.32	440.40
2190	2,095.46	2,045.46	N	420.67	W 147.94	445.93
2200	2,103.77	2,053.77	N	426.00	W 149.57	451.49

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COMPUTATIONS AT 10 FEET INCREMENTS

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ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2210	2,112.05	2,062.05	N	431.36	W 151.21	457.09
2220	2,120.31	2,070.31	N	436.75	W 152.86	462.72
* 2228	2,126.90	2,076.90	N	441.08	W 154.18	467.25 *
2230	2,128.55	2,078.55	N	442.08	W 154.70	468.37
2240	2,136.78	2,086.78	N	447.13	W 157.33	474.00
2250	2,145.00	2,095.00	N	452.18	W 159.96	479.64
2260	2,153.20	2,103.20	N	457.25	W 162.60	485.31
2270	2,161.39	2,111.39	N	462.34	W 165.25	490.98
2280	2,169.58	2,119.58	N	467.44	W 167.90	496.68
2290	2,177.75	2,127.75	N	472.55	W 170.56	502.40
2300	2,185.91	2,135.91	N	477.68	W 173.23	508.13
2310	2,194.05	2,144.05	N	482.83	W 175.91	513.88
* 2315	2,198.12	2,148.12	N	485.40	W 177.25	516.75 *
2320	2,202.19	2,152.19	N	487.89	W 178.75	519.60
2330	2,210.34	2,160.34	N	492.86	W 181.74	525.30
2340	2,218.49	2,168.49	N	497.83	W 184.72	531.00
2350	2,226.64	2,176.64	N	502.80	W 187.70	536.69
2360	2,234.79	2,184.79	N	507.76	W 190.69	542.38
2370	2,242.95	2,192.95	N	512.72	W 193.66	548.07
2380	2,251.11	2,201.11	N	517.67	W 196.64	553.76
2390	2,259.28	√ 2,209.28	N	522.62	W 199.62	559.45 ✓
2400	2,267.44	2,217.44	N	527.57	W 202.59	565.13
2410	2,275.61	2,225.61	N	532.51	W 205.56	570.81
2420	2,283.78	2,233.78	N	537.45	W 208.53	576.49
2430	2,291.96	2,241.96	N	542.39	W 211.49	582.16
2440	2,300.14	2,250.14	N	547.32	W 214.46	587.84
2450	2,308.32	2,258.32	N	552.25	W 217.42	593.51
2460	2,316.50	2,266.50	N	557.17	W 220.38	599.17
2470	2,324.69	2,274.69	N	562.09	W 223.33	604.84
2480	2,332.88	2,282.88	N	567.01	W 226.29	610.50
* 2484	2,336.16	2,286.16	N	568.98	W 227.47	612.77 *
2490	2,341.07	2,291.07	N	571.96	W 229.19	616.17
2500	2,349.27	2,299.27	N	576.93	W 232.06	621.85
2510	2,357.46	2,307.46	N	581.89	W 234.93	627.53
2520	2,365.65	2,315.65	N	586.86	W 237.79	633.21
2530	2,373.84	2,323.84	N	591.83	W 240.66	638.89
2540	2,382.03	2,332.03	N	596.80	W 243.53	644.57
2550	2,390.22	2,340.22	N	601.76	W 246.40	650.26
2560	2,398.41	2,348.41	N	606.73	W 249.27	655.94
2570	2,406.61	2,356.61	N	611.70	W 252.13	661.62
2580	2,414.80	2,364.80	N	616.66	W 255.00	667.31
2590	2,422.99	2,372.99	N	621.63	W 257.87	673.00
2600	2,431.18	2,381.18	N	626.60	W 260.74	678.68
2610	2,439.37	2,389.37	N	631.57	W 263.61	684.37
2620	2,447.56	2,397.56	N	636.53	W 266.47	690.06

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CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2630	2,455.76	2,405.76	N	641.50	W 269.34	695.75
2640	2,463.95	✓2,413.95	N	646.47	W 272.21	701.44 ✓
2650	2,472.14	2,422.14	N	651.44	W 275.08	707.13
2660	2,480.33	2,430.33	N	656.40	W 277.95	712.83
* 2665	2,484.43	2,434.43	N	658.89	W 279.38	715.67 *
2670	2,488.52	2,438.52	N	661.42	W 280.73	718.53
2680	2,496.71	2,446.71	N	666.49	W 283.42	724.25
2690	2,504.89	2,454.89	N	671.56	W 286.12	729.97
2700	2,513.08	2,463.08	N	676.64	W 288.82	735.70
2710	2,521.26	2,471.26	N	681.71	W 291.52	741.43
2720	2,529.44	2,479.44	N	686.79	W 294.22	747.16
2730	2,537.61	2,487.61	N	691.88	W 296.92	752.90
2740	2,545.79	2,495.79	N	696.96	W 299.63	758.64
2750	2,553.96	2,503.96	N	702.05	W 302.33	764.39
2760	2,562.13	2,512.13	N	707.15	W 305.04	770.13
2770	2,570.29	2,520.29	N	712.24	W 307.75	775.89
2780	2,578.46	2,528.46	N	717.34	W 310.46	781.64
2790	2,586.62	2,536.62	N	722.44	W 313.17	787.40
2800	2,594.78	2,544.78	N	727.55	W 315.89	793.16
2810	2,602.94	2,552.94	N	732.65	W 318.60	798.93
2820	2,611.09	2,561.09	N	737.76	W 321.32	804.70
2830	2,619.25	2,569.25	N	742.88	W 324.04	810.47
2840	2,627.40	2,577.40	N	747.99	W 326.76	816.25
2850	2,635.54	2,585.54	N	753.11	W 329.48	822.03
2860	2,643.69	2,593.69	N	758.23	W 332.20	827.82
2870	2,651.83	2,601.83	N	763.36	W 334.93	833.60
* 2878	2,658.34	2,608.34	N	767.46	W 337.11	838.24 *
2880	2,659.97	✓2,609.97	N	768.50	W 337.62	839.40 ✓
2890	2,668.11	2,618.11	N	773.73	W 340.16	845.20
2900	2,676.25	2,626.25	N	778.95	W 342.71	851.01
2910	2,684.38	2,634.38	N	784.18	W 345.26	856.82
2920	2,692.52	2,642.52	N	789.41	W 347.81	862.63
2930	2,700.65	2,650.65	N	794.64	W 350.36	868.45
2940	2,708.78	2,658.78	N	799.87	W 352.92	874.27
2950	2,716.91	2,666.91	N	805.11	W 355.47	880.09
2960	2,725.03	2,675.03	N	810.35	W 358.03	885.92
2970	2,733.16	2,683.16	N	815.59	W 360.58	891.74
2980	2,741.28	2,691.28	N	820.83	W 363.14	897.57
2990	2,749.40	2,699.40	N	826.08	W 365.70	903.40
3000	2,757.52	2,707.52	N	831.32	W 368.26	909.24
3010	2,765.63	2,715.63	N	836.57	W 370.82	915.08
3020	2,773.75	2,723.75	N	841.83	W 373.38	920.91
3030	2,781.86	2,731.86	N	847.08	W 375.94	926.76
3040	2,789.97	2,739.97	N	852.34	W 378.51	932.60
3050	2,798.08	2,748.08	N	857.60	W 381.07	938.45

DIRECTIONAL SURVEY FOR WELL LD6-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-LD6(LD6-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3060	2,806.19	2,756.19	N	862.86	W 383.64	944.30
3070	2,814.30	2,764.30	N	868.12	W 386.20	950.15
3080	2,822.40	2,772.40	N	873.39	W 388.77	956.01
3090	2,830.50	2,780.50	N	878.66	W 391.34	961.87
3100	2,838.60	2,788.60	N	883.93	W 393.91	967.73
3110	2,846.70	2,796.70	N	889.20	W 396.49	973.59
3120	2,854.79	2,804.79	N	894.48	W 399.06	979.46
3130	2,862.89	2,812.89	N	899.75	W 401.63	985.33
3140	2,870.98	2,820.98	N	905.03	W 404.21	991.20
3150	2,879.07	2,829.07	N	910.32	W 406.78	997.07
* 3152	2,880.69	2,830.69	N	911.37	W 407.30	998.25 *
3160	2,887.16	2,837.16	N	915.67	W 409.21	1,002.95
3170	2,895.24	2,845.24	N	921.05	W 411.61	1,008.84
3180	2,903.32	2,853.32	N	926.44	W 414.01	1,014.74
3190	2,911.39	2,861.39	N	931.83	W 416.41	1,020.64
3200	2,919.46	2,869.46	N	937.23	W 418.81	1,026.55
3210	2,927.52	2,877.52	N	942.63	W 421.22	1,032.47
3220	2,935.58	2,885.58	N	948.04	W 423.63	1,038.39
3230	2,943.63	2,893.63	N	953.46	W 426.04	1,044.32
3240	2,951.68	2,901.68	N	958.88	W 428.45	1,050.25
3250	2,959.72	2,909.72	N	964.31	W 430.87	1,056.19
3260	2,967.76	2,917.76	N	969.74	W 433.29	1,062.14
3270	2,975.80	2,925.80	N	975.18	W 435.71	1,068.10
3280	2,983.83	2,933.83	N	980.63	W 438.13	1,074.06
3290	2,991.85	2,941.85	N	986.08	W 440.56	1,080.02
3300	2,999.87	2,949.87	N	991.54	W 442.99	1,086.00
3310	3,007.88	2,957.88	N	997.00	W 445.42	1,091.98
3320	3,015.89	2,965.89	N	1,002.47	W 447.86	1,097.96
3330	3,023.90	2,973.90	N	1,007.94	W 450.30	1,103.94
3340	3,031.90	2,981.90	N	1,013.43	W 452.74	1,109.96
3350	3,039.90	2,989.90	N	1,018.91	W 455.18	1,115.96
3360	3,047.89	2,997.89	N	1,024.40	W 457.62	1,121.98
* 3369	3,055.07	3,005.07	N	1,029.35	W 459.83	1,127.39 *
3370	3,055.87	3,005.87	N	1,029.91	W 460.06	1,127.99
3380	3,063.86	3,013.86	N	1,035.47	W 462.36	1,134.01
3390	3,071.85	3,021.85	N	1,041.03	W 464.66	1,140.02
3400	3,079.84	3,029.84	N	1,046.58	W 466.96	1,146.03
3410	3,087.83	3,037.83	N	1,052.14	W 469.27	1,152.04
3420	3,095.82	3,045.82	N	1,057.69	W 471.57	1,158.05
3430	3,103.81	3,053.81	N	1,063.24	W 473.87	1,164.06
3440	3,111.80	3,061.80	N	1,068.80	W 476.17	1,170.07
3450	3,119.80	3,069.80	N	1,074.35	W 478.47	1,176.08
3460	3,127.79	3,077.79	N	1,079.90	W 480.76	1,182.08
3470	3,135.79	3,085.79	N	1,085.45	W 483.06	1,188.09
3480	3,143.78	3,093.78	N	1,090.99	W 485.36	1,194.09

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
3490	3,151.78	3,101.78	N 1,096.54	W 487.66	1,200.09
3500	3,159.78	3,109.78	N 1,102.09	W 489.95	1,208.09
3510	3,167.78	3,117.78	N 1,107.63	W 492.25	1,212.09
3520	3,175.78	3,125.78	N 1,113.17	W 494.55	1,218.09
3530	3,183.78	3,133.78	N 1,118.72	W 496.84	1,224.08
3540	3,191.78	3,141.78	N 1,124.26	W 499.14	1,230.08
3550	3,199.78	3,149.78	N 1,129.80	W 501.43	1,236.07
3560	3,207.79	3,157.79	N 1,135.33	W 503.73	1,242.07
3570	3,215.79	3,165.79	N 1,140.87	W 506.02	1,248.06
3580	3,223.80	3,173.80	N 1,146.41	W 508.31	1,254.05
3590	3,231.80	3,181.80	N 1,151.94	W 510.61	1,260.04
3600	3,239.81	3,189.81	N 1,157.48	W 512.90	1,266.03
3610	3,247.82	3,197.82	N 1,163.01	W 515.19	1,272.01
3620	3,255.83	3,205.83	N 1,168.54	W 517.48	1,278.00
3630	3,263.84	3,213.84	N 1,174.07	W 519.77	1,283.98
3640	3,271.85	3,221.85	N 1,179.60	W 522.06	1,289.97
3650	3,279.86	3,229.86	N 1,185.13	W 524.35	1,295.95
3660	3,287.88	3,237.88	N 1,190.66	W 526.64	1,301.93
3670	3,295.89	3,245.89	N 1,196.19	W 528.93	1,307.91
3680	3,303.90	3,253.90	N 1,201.71	W 531.22	1,313.89
3690	3,311.92	3,261.92	N 1,207.23	W 533.51	1,319.87
3700	3,319.94	3,269.94	N 1,212.76	W 535.80	1,325.84
3710	3,327.95	3,277.95	N 1,218.28	W 538.08	1,331.82
3720	3,335.97	3,285.97	N 1,223.80	W 540.37	1,337.79
3730	3,343.99	3,293.99	N 1,229.32	W 542.66	1,343.77
3740	3,352.01	3,302.01	N 1,234.84	W 544.94	1,349.74
3750	3,360.03	3,310.03	N 1,240.36	W 547.23	1,355.71
3760	3,368.05	3,318.05	N 1,245.87	W 549.51	1,361.68
3770	3,376.08	3,326.08	N 1,251.39	W 551.80	1,367.64
3780	3,384.10	3,334.10	N 1,256.90	W 554.08	1,373.61
3790	3,392.13	3,342.13	N 1,262.41	W 556.36	1,379.58
3800	3,400.15	3,350.15	N 1,267.92	W 558.65	1,385.54
3810	3,408.18	3,358.18	N 1,273.44	W 560.93	1,391.50
3820	3,416.20	3,366.20	N 1,278.94	W 563.21	1,397.47
3830	3,424.23	3,374.23	N 1,284.45	W 565.49	1,403.43
3840	3,432.26	3,382.26	N 1,289.96	W 567.77	1,409.39
3850	3,440.29	3,390.29	N 1,295.47	W 570.06	1,415.34
3860	3,448.32	3,398.32	N 1,300.97	W 572.34	1,421.30
3870	3,456.36	3,406.36	N 1,306.47	W 574.62	1,427.26
3880	3,464.39	3,414.39	N 1,311.98	W 576.89	1,433.21
3890	3,472.42	3,422.42	N 1,317.48	W 579.17	1,439.17
3900	3,480.46	3,430.46	N 1,322.98	W 581.45	1,445.12
3910	3,488.49	3,438.49	N 1,328.48	W 583.73	1,451.07
3920	3,496.53	3,446.53	N 1,333.98	W 586.01	1,457.02
3930	3,504.57	3,454.57	N 1,339.47	W 588.28	1,462.97

DIRECTIONAL SURVEY FOR WELL LD6-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-LD6(LD6-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
3940	3,512.60	3,462.60	N 1,344.97	W 590.56	1,468.91
* 3944	3,515.82	3,465.82	N 1,347.17	W 591.47	1,471.29 *
3950	3,520.64	3,470.64	N 1,350.49	W 592.78	1,474.86
3960	3,528.68	3,478.68	N 1,356.02	W 594.96	1,480.80
3970	3,536.72	3,486.72	N 1,361.56	W 597.14	1,486.75
3980	3,544.76	3,494.76	N 1,367.09	W 599.32	1,492.69
3990	3,552.80	3,502.80	N 1,372.63	W 601.50	1,498.64
4000	3,560.84	3,510.84	N 1,378.16	W 603.68	1,504.58
4010	3,568.87	3,518.87	N 1,383.69	W 605.86	1,510.52
4020	3,576.91	3,526.91	N 1,389.23	W 608.04	1,516.47
4030	3,584.95	3,534.95	N 1,394.76	W 610.22	1,522.41
4040	3,592.99	3,542.99	N 1,400.30	W 612.40	1,528.36
4050	3,601.03	3,551.03	N 1,405.83	W 614.58	1,534.30
4060	3,609.07	3,559.07	N 1,411.37	W 616.76	1,540.24
4070	3,617.11	3,567.11	N 1,416.90	W 618.94	1,546.19
4080	3,625.14	3,575.14	N 1,422.44	W 621.12	1,552.13
4090	3,633.18	3,583.18	N 1,427.97	W 623.30	1,558.08
4100	3,641.22	3,591.22	N 1,433.50	W 625.48	1,564.02
4110	3,649.26	3,599.26	N 1,439.04	W 627.66	1,569.97
4120	3,657.30	3,607.30	N 1,444.57	W 629.84	1,575.91
4130	3,665.34	✓ 3,615.34	N 1,450.11	W 632.02	1,581.85 ✓
4140	3,673.38	3,623.38	N 1,455.64	W 634.20	1,587.80
4150	3,681.41	3,631.41	N 1,461.18	W 636.38	1,593.74
* 4153	3,683.83	3,633.83	N 1,462.84	W 637.03	1,595.53 *
4160	3,689.45	3,639.45	N 1,466.75	W 638.46	1,599.68
4170	3,697.49	3,647.49	N 1,472.33	W 640.49	1,605.62
4180	3,705.54	3,655.54	N 1,477.92	W 642.52	1,611.55
4190	3,713.58	3,663.58	N 1,483.50	W 644.56	1,617.48
4200	3,721.63	3,671.63	N 1,489.08	W 646.59	1,623.40
4210	3,729.67	3,679.67	N 1,494.66	W 648.62	1,629.33
4220	3,737.72	3,687.72	N 1,500.24	W 650.65	1,635.26
4230	3,745.77	3,695.77	N 1,505.81	W 652.68	1,641.18
4240	3,753.82	3,703.82	N 1,511.39	W 654.70	1,647.10
4250	3,761.87	3,711.87	N 1,516.96	W 656.73	1,653.02
4260	3,769.93	3,719.93	N 1,522.53	W 658.76	1,658.93
4270	3,777.98	3,727.98	N 1,528.10	W 660.79	1,664.85
4280	3,786.04	3,736.04	N 1,533.66	W 662.81	1,670.76
4290	3,794.10	3,744.10	N 1,539.23	W 664.84	1,676.67
4300	3,802.16	3,752.16	N 1,544.79	W 666.86	1,682.58
4310	3,810.22	3,760.22	N 1,550.35	W 668.89	1,688.49
4320	3,818.28	3,768.28	N 1,555.91	W 670.91	1,694.39
4330	3,826.35	3,776.35	N 1,561.46	W 672.93	1,700.30
4340	3,834.41	3,784.41	N 1,567.02	W 674.95	1,706.20
4350	3,842.48	3,792.48	N 1,572.57	W 676.97	1,712.10
4360	3,850.55	3,800.55	N 1,578.12	W 678.99	1,718.00

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4370	3,858.62	✓ 3,808.62	N 1,583.67	W 681.01	1,723.89 ✓
4380	3,866.69	3,816.69	N 1,589.22	W 683.03	1,729.79
4390	3,874.76	3,824.76	N 1,594.76	W 685.05	1,735.68
4400	3,882.84	3,832.84	N 1,600.31	W 687.07	1,741.57
4410	3,890.92	3,840.92	N 1,605.85	W 689.09	1,747.46
4420	3,898.99	3,848.99	N 1,611.39	W 691.10	1,753.34
4430	3,907.07	3,857.07	N 1,616.93	W 693.12	1,759.23
4440	3,915.15	3,865.15	N 1,622.46	W 695.13	1,765.11
4450	3,923.23	3,873.23	N 1,628.00	W 697.15	1,770.99
4460	3,931.32	3,881.32	N 1,633.53	W 699.16	1,776.87
4470	3,939.40	3,889.40	N 1,639.06	W 701.17	1,782.74
4480	3,947.49	3,897.49	N 1,644.59	W 703.19	1,788.62
4490	3,955.57	3,905.57	N 1,650.12	W 705.20	1,794.49
4500	3,963.66	3,913.66	N 1,655.64	W 707.21	1,800.36
* 4509	3,970.94	3,920.94	N 1,660.61	W 709.02	1,805.64 *
4510	3,971.75	3,921.75	N 1,661.17	W 709.20	1,806.23
4520	3,979.84	3,929.84	N 1,666.77	W 710.99	1,812.08
4530	3,987.93	3,937.93	N 1,672.37	W 712.78	1,817.93
4540	3,996.02	3,946.02	N 1,677.97	W 714.57	1,823.79
4550	4,004.11	3,954.11	N 1,683.57	W 716.37	1,829.64
4560	4,012.20	3,962.20	N 1,689.16	W 718.16	1,835.49
4570	4,020.29	3,970.29	N 1,694.76	W 719.95	1,841.34
4580	4,028.38	3,978.38	N 1,700.36	W 721.74	1,847.20
4590	4,036.47	3,986.47	N 1,705.96	W 723.53	1,853.05
4600	4,044.56	3,994.56	N 1,711.56	W 725.33	1,858.90
4610	4,052.65	4,002.65	N 1,717.15	W 727.12	1,864.76
4620	4,060.75	✓ 4,010.75	N 1,722.75	W 728.91	1,870.61 ✓
4630	4,068.84	4,018.84	N 1,728.35	W 730.70	1,876.47
4640	4,076.93	4,026.93	N 1,733.95	W 732.49	1,882.32
4650	4,085.02	4,035.02	N 1,739.55	W 734.29	1,888.17
4660	4,093.11	4,043.11	N 1,745.14	W 736.08	1,894.03
4670	4,101.20	4,051.20	N 1,750.74	W 737.87	1,899.88
4680	4,109.29	4,059.29	N 1,756.34	W 739.66	1,905.74
4690	4,117.38	4,067.38	N 1,761.94	W 741.45	1,911.59
4700	4,125.47	4,075.47	N 1,767.54	W 743.25	1,917.45
4710	4,133.56	4,083.56	N 1,773.13	W 745.04	1,923.30
4720	4,141.65	4,091.65	N 1,778.73	W 746.83	1,929.16
4730	4,149.74	4,099.74	N 1,784.33	W 748.62	1,935.01
4740	4,157.83	4,107.83	N 1,789.93	W 750.41	1,940.87
4750	4,165.92	4,115.92	N 1,795.53	W 752.20	1,946.72
4760	4,174.01	4,124.01	N 1,801.12	W 754.00	1,952.58
4770	4,182.10	4,132.10	N 1,806.72	W 755.79	1,958.44
* 4775	4,186.14	4,136.14	N 1,809.52	W 756.68	1,961.36 *
4780	4,190.19	4,140.19	N 1,812.34	W 757.52	1,964.28
4790	4,198.28	4,148.28	N 1,817.98	W 759.19	1,970.13

DIRECTIONAL SURVEY FOR WELL LD6-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-LD6(LD6-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4800	4,206.37	4,156.37	N 1,823.61	W 760.86	1,975.97
4810	4,214.46	4,164.46	N 1,829.25	W 762.53	1,981.82
4820	4,222.55	4,172.55	N 1,834.88	W 764.20	1,987.66
4830	4,230.64	4,180.64	N 1,840.52	W 765.87	1,993.51
4840	4,238.73	4,188.73	N 1,846.15	W 767.54	1,999.35
4850	4,246.82	4,196.82	N 1,851.79	W 769.21	2,005.20
4860	4,254.91	4,204.91	N 1,857.43	W 770.87	2,011.04
4870	4,263.00	4,213.00	N 1,863.06	W 772.54	2,016.89
4880	4,271.09	4,221.09	N 1,868.70	W 774.21	2,022.73
4890	4,279.18	4,229.18	N 1,874.33	W 775.88	2,028.58
4900	4,287.27	4,237.27	N 1,879.97	W 777.55	2,034.42
4910	4,295.36	4,245.36	N 1,885.60	W 779.22	2,040.27
4920	4,303.45	4,253.45	N 1,891.24	W 780.89	2,046.12
4930	4,311.54	4,261.54	N 1,896.88	W 782.56	2,051.96
4940	4,319.63	4,269.63	N 1,902.51	W 784.23	2,057.81
4950	4,327.72	4,277.72	N 1,908.15	W 785.90	2,063.66
4960	4,335.81	4,285.81	N 1,913.78	W 787.57	2,069.50
4970	4,343.90	4,293.90	N 1,919.42	W 789.24	2,075.35
4980	4,351.99	4,301.99	N 1,925.06	W 790.91	2,081.20
4990	4,360.08	4,310.08	N 1,930.69	W 792.58	2,087.04
5000	4,368.17	4,318.17	N 1,936.33	W 794.25	2,092.89
5010	4,376.26	4,326.26	N 1,941.96	W 795.92	2,098.74
5020	4,384.35	4,334.35	N 1,947.60	W 797.59	2,104.59
5030	4,392.44	4,342.44	N 1,953.23	W 799.25	2,110.44
5040	4,400.53	4,350.53	N 1,958.87	W 800.92	2,116.28
5050	4,408.62	4,358.62	N 1,964.51	W 802.59	2,122.13
5060	4,416.71	4,366.71	N 1,970.14	W 804.26	2,127.98
5070	4,424.80	4,374.80	N 1,975.78	W 805.93	2,133.83
* 5080	4,432.89	4,382.89	N 1,981.41	W 807.60	2,139.68 *
5090	4,440.98	4,390.98	N 1,987.09	W 809.26	2,145.52
5100	4,449.07	4,399.07	N 1,992.76	W 810.93	2,151.36
5110	4,457.16	4,407.16	N 1,998.44	W 812.60	2,157.20
5120	4,465.24	4,415.24	N 2,004.11	W 814.27	2,163.04
5130	4,473.32	4,423.32	N 2,009.79	W 815.94	2,168.88
5140	4,481.41	4,431.41	N 2,015.47	W 817.61	2,174.73
5150	4,489.49	4,439.49	N 2,021.16	W 819.28	2,180.58
5160	4,497.57	4,447.57	N 2,026.84	W 820.95	2,186.43
5170	4,505.65	4,455.65	N 2,032.53	W 822.62	2,192.28
5180	4,513.72	4,463.72	N 2,038.22	W 824.29	2,198.14
5190	4,521.80	4,471.80	N 2,043.91	W 825.96	2,203.99
5200	4,529.87	4,479.87	N 2,049.60	W 827.63	2,209.85
5210	4,537.95	4,487.95	N 2,055.29	W 829.30	2,215.71
5220	4,546.02	4,496.02	N 2,060.99	W 830.97	2,221.58
5230	4,554.09	4,504.09	N 2,066.68	W 832.64	2,227.44
5240	4,562.16	4,512.16	N 2,072.38	W 834.31	2,233.31

DIRECTIONAL SURVEY FOR WELL LD6-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-LD6(LD6-16) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
5250	4,570.23	4,520.23	N 2,078.08	W 833.96	2,239.18
5260	4,578.29	4,528.29	N 2,083.78	W 835.51	2,245.05
5270	4,586.36	4,536.36	N 2,089.49	W 837.07	2,250.92
5280	4,594.42	4,544.42	N 2,095.19	W 838.62	2,256.79
5290	4,602.49	4,552.49	N 2,100.90	W 840.18	2,262.67
5300	4,610.55	4,560.55	N 2,106.61	W 841.73	2,268.55
5310	4,618.61	4,568.61	N 2,112.32	W 843.29	2,274.43
5320	4,626.67	4,576.67	N 2,118.03	W 844.85	2,280.31
5330	4,634.73	4,584.73	N 2,123.74	W 846.41	2,286.20
5340	4,642.78	4,592.78	N 2,129.46	W 847.96	2,292.08
5350	4,650.84	4,600.84	N 2,135.18	W 849.52	2,297.97
5360	4,658.89	4,608.89	N 2,140.90	W 851.08	2,303.86
5370	4,666.94	4,616.94	N 2,146.62	W 852.64	2,309.75
5380	4,674.99	4,624.99	N 2,152.34	W 854.20	2,315.65
5390	4,683.04	4,633.04	N 2,158.06	W 855.76	2,321.54
5400	4,691.09	4,641.09	N 2,163.79	W 857.32	2,327.44
5410	4,699.14	4,649.14	N 2,169.52	W 858.88	2,333.34
5420	4,707.19	4,657.19	N 2,175.24	W 860.45	2,339.24
5430	4,715.23	4,665.23	N 2,180.98	W 862.01	2,345.15
5440	4,723.27	4,673.27	N 2,186.71	W 863.57	2,351.05
5450	4,731.32	4,681.32	N 2,192.44	W 865.13	2,356.96
5460	4,739.36	4,689.36	N 2,198.18	W 866.70	2,362.87
5470	4,747.40	4,697.40	N 2,203.92	W 868.26	2,368.78
* 5476	4,752.22	4,702.22	N 2,207.36	W 869.20	2,372.33 *
5480	4,755.43	4,705.43	N 2,209.68	W 869.73	2,374.68
5490	4,763.47	4,713.47	N 2,215.49	W 871.04	2,380.57
5500	4,771.50	4,721.50	N 2,221.30	W 872.36	2,386.46
5510	4,779.52	4,729.52	N 2,227.12	W 873.67	2,392.36
5520	4,787.54	4,737.54	N 2,232.95	W 874.99	2,398.26
5530	4,795.56	4,745.56	N 2,238.77	W 876.31	2,404.17
5540	4,803.57	4,753.57	N 2,244.61	W 877.63	2,410.08
5550	4,811.59	4,761.59	N 2,250.45	W 878.95	2,416.00
5560	4,819.59	4,769.59	N 2,256.29	W 880.27	2,421.93
5570	4,827.59	4,777.59	N 2,262.14	W 881.60	2,427.86
5580	4,835.59	4,785.59	N 2,267.99	W 882.92	2,433.79
5590	4,843.59	4,793.59	N 2,273.85	W 884.25	2,439.73
5600	4,851.58	4,801.58	N 2,279.72	W 885.57	2,445.68
5610	4,859.57	4,809.57	N 2,285.59	W 886.90	2,451.63
5620	4,867.55	4,817.55	N 2,291.46	W 888.23	2,457.59
5630	4,875.53	4,825.53	N 2,297.34	W 889.56	2,463.55
5640	4,883.50	4,833.50	N 2,303.22	W 890.89	2,469.52
5650	4,891.47	4,841.47	N 2,309.11	W 892.23	2,475.49
5660	4,899.44	4,849.44	N 2,315.00	W 893.56	2,481.47
5670	4,907.41	4,857.41	N 2,320.90	W 894.89	2,487.46
5680	4,915.37	4,865.37	N 2,326.81	W 896.23	2,493.44

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUR-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
5690	4,923.32	4,873.32	N 2,332.72	W 897.57	2,499.44
5700	4,931.27	4,881.27	N 2,338.63	W 898.90	2,505.44
5710	4,939.22	4,889.22	N 2,344.55	W 900.24	2,511.45
5720	4,947.17	4,897.17	N 2,350.47	W 901.58	2,517.46
5730	4,955.11	4,905.11	N 2,356.40	W 902.93	2,523.47
5740	4,963.04	4,913.04	N 2,362.34	W 904.27	2,529.49
5750	4,970.98	4,920.98	N 2,368.27	W 905.61	2,535.52
5760	4,978.90	4,928.90	N 2,374.22	W 906.96	2,541.55
5770	4,986.83	4,936.83	N 2,380.17	W 908.30	2,547.59
5780	4,994.75	4,944.75	N 2,386.12	W 909.65	2,553.63
5790	5,002.67	4,952.67	N 2,392.08	W 911.00	2,559.68
5800	5,010.58	4,960.58	N 2,398.04	W 912.35	2,565.73
5810	5,018.49	4,968.49	N 2,404.01	W 913.70	2,571.79
5820	5,026.39	4,976.39	N 2,409.98	W 915.05	2,577.86
5830	5,034.29	4,984.29	N 2,415.96	W 916.40	2,583.93
5840	5,042.19	4,992.19	N 2,421.95	W 917.76	2,590.00
5850	5,050.09	5,000.09	N 2,427.93	W 919.11	2,596.08
5860	5,057.97	5,007.97	N 2,433.93	W 920.47	2,602.17
5870	5,065.86	5,015.86 ✓	N 2,439.93	W 921.83	2,608.26 ✓
5880	5,073.74	5,023.74	N 2,445.93	W 923.18	2,614.35
5890	5,081.62	5,031.62	N 2,451.94	W 924.54	2,620.46
5900	5,089.49	5,039.49	N 2,457.95	W 925.90	2,626.56
5910	5,097.36	5,047.36	N 2,463.97	W 927.27	2,632.67
5920	5,105.23	5,055.23	N 2,469.99	W 928.63	2,638.79
5930	5,113.09	5,063.09	N 2,476.02	W 929.99	2,644.91
5940	5,120.95	5,070.95	N 2,482.05	W 931.36	2,651.04
5950	5,128.80	5,078.80	N 2,488.09	W 932.72	2,657.17
5960	5,136.65	5,086.65	N 2,494.13	W 934.09	2,663.31
5970	5,144.50	5,094.50	N 2,500.18	W 935.46	2,669.46
5980	5,152.34	5,102.34	N 2,506.23	W 936.83	2,675.60
5990	5,160.17	5,110.17	N 2,512.29	W 938.20	2,681.76
6000	5,168.01	5,118.01	N 2,518.35	W 939.57	2,687.92
6010	5,175.84	5,125.84	N 2,524.42	W 940.94	2,694.08
* 6019	5,182.88	5,132.88	N 2,529.88	W 942.18	2,699.63 *
6020	5,183.66	5,133.66	N 2,530.50	W 942.30	2,700.25
6030	5,191.49	5,141.49	N 2,536.61	W 943.46	2,706.38
6040	5,199.33	5,149.33	N 2,542.72	W 944.62	2,712.51
6050	5,207.16	5,157.16	N 2,548.82	W 945.78	2,718.64
6060	5,215.00	5,165.00	N 2,554.92	W 946.93	2,724.76
6070	5,222.84	5,172.84	N 2,561.02	W 948.09	2,730.88
6080	5,230.69	5,180.69	N 2,567.11	W 949.25	2,737.00
6090	5,238.53	5,188.53	N 2,573.20	W 950.41	2,743.11
6100	5,246.38	5,196.38	N 2,579.29	W 951.56	2,749.22
6110	5,254.24	5,204.24	N 2,585.37	W 952.72	2,755.32
6120	5,262.09	5,212.09 ✓	N 2,591.45	W 953.87	2,761.43 ✓

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
6130	5,269.95	5,219.95	N 2,597.52	W 955.02	2,767.53
6140	5,277.81	5,227.81	N 2,603.59	W 956.18	2,773.62
6150	5,285.68	5,235.68	N 2,609.66	W 957.33	2,779.72
6160	5,293.55	5,243.55	N 2,615.73	W 958.48	2,785.80
6170	5,301.42	5,251.42	N 2,621.79	W 959.63	2,791.89
6180	5,309.29	5,259.29	N 2,627.84	W 960.78	2,797.97
6190	5,317.17	5,267.17	N 2,633.89	W 961.93	2,804.05
6200	5,325.05	5,275.05	N 2,639.94	W 963.08	2,810.13
6210	5,332.93	5,282.93	N 2,645.99	W 964.22	2,816.20
6220	5,340.82	5,290.82	N 2,652.03	W 965.37	2,822.27
6230	5,348.70	5,298.70	N 2,658.07	W 966.52	2,828.34
6240	5,356.60	5,306.60	N 2,664.10	W 967.66	2,834.40
6250	5,364.49	5,314.49	N 2,670.13	W 968.81	2,840.46
6260	5,372.39	5,322.39	N 2,676.16	W 969.95	2,846.51
6270	5,380.29	5,330.29	N 2,682.18	W 971.10	2,852.57
6280	5,388.19	5,338.19	N 2,688.20	W 972.24	2,858.62
6290	5,396.10	5,346.10	N 2,694.22	W 973.38	2,864.66
6300	5,404.01	5,354.01	N 2,700.23	W 974.52	2,870.70
6310	5,411.92	5,361.92	N 2,706.24	W 975.66	2,876.74
6320	5,419.84	5,369.84	N 2,712.24	W 976.80	2,882.78
6330	5,427.75	5,377.75	N 2,718.24	W 977.94	2,888.81
6340	5,435.67	5,385.67	N 2,724.24	W 979.08	2,894.84
6350	5,443.60	5,393.60	N 2,730.23	W 980.22	2,900.86
6360	5,451.52	5,401.52	N 2,736.22	W 981.36	2,906.88
6370	5,459.45	5,409.45 ✓	N 2,742.21	W 982.49	2,912.90 ✓
6380	5,467.39	5,417.39	N 2,748.19	W 983.63	2,918.92
* 6383	5,469.77	5,419.77	N 2,749.98	W 983.97	2,920.72 *
6390	5,475.32	5,425.32	N 2,754.18	W 984.67	2,924.91
6400	5,483.26	5,433.26	N 2,760.18	W 985.68	2,930.90
6410	5,491.20	5,441.20	N 2,766.18	W 986.68	2,936.88
6420	5,499.14	5,449.14	N 2,772.17	W 987.68	2,942.87
6430	5,507.08	5,457.08	N 2,778.16	W 988.68	2,948.85
6440	5,515.03	5,465.03	N 2,784.15	W 989.69	2,954.82
6450	5,522.98	5,472.98	N 2,790.14	W 990.69	2,960.80
6460	5,530.93	5,480.93	N 2,796.12	W 991.69	2,966.77
6470	5,538.88	5,488.88	N 2,802.10	W 992.69	2,972.74
6480	5,546.84	5,496.84	N 2,808.08	W 993.69	2,978.71
6490	5,554.79	5,504.79	N 2,814.05	W 994.69	2,984.68
6500	5,562.75	5,512.75	N 2,820.02	W 995.69	2,990.64
6510	5,570.71	5,520.71	N 2,825.99	W 996.69	2,996.60
6520	5,578.68	5,528.68	N 2,831.95	W 997.69	3,002.56
6530	5,586.64	5,536.64	N 2,837.92	W 998.68	3,008.51
6540	5,594.61	5,544.61	N 2,843.88	W 999.68	3,014.47
6550	5,602.58	5,552.58	N 2,849.83	W 1,000.68	3,020.42
6560	5,610.55	5,560.55	N 2,855.79	W 1,001.67	3,026.36

DIRECTIONAL SURVEY FOR WELL L06-16

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-565-CD-L06(L06-16)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 25

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
6570	5,618.53	5,568.53	N 2,861.74	W 1,002.67	3,032.31
6580	5,626.50	5,576.50	N 2,867.69	W 1,003.67	3,038.25
6590	5,634.48	5,584.48	N 2,873.63	W 1,004.66	3,044.19
6600	5,642.46	5,592.46	N 2,879.58	W 1,005.65	3,050.13
6610	5,650.45	5,600.45	N 2,885.52	W 1,006.65	3,056.07
6620	5,658.43	5,608.43	N 2,891.45	W 1,007.64	3,062.00
* 6625	5,662.42	5,612.42✓	N 2,894.42	W 1,008.14	3,064.97✓*