

DIRECTIONAL SURVEY FOR WELL LD6-2
RAW DATA

WELL No. Z2A-21-626-D-LD6(LD6-2)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	385	15.00	N - 29.00 - E
2	780	20.00	N - 33.00 - E
3	968	21.75	N - 35.00 - E
4	1246	18.50	N - 38.00 - E
5	1531	17.50	N - 40.00 - E
6	1705	15.25	N - 43.00 - E
7	1894	14.25	N - 46.00 - E
8	2175	12.75	N - 60.00 - E
9	2394	12.00	N - 75.00 - E
10	2705	11.50	N - 88.00 - E
11	3586	10.25	N - 78.00 - E
12	3898	9.50	N - 77.00 - E
13	4110	10.00	S - 79.00 - E
14	4425	9.75	S - 82.00 - E
15	4800	10.50	S - 84.00 - E
16	5111	12.00	S - 82.00 - E
17	5353	12.50	S - 76.00 - E

DIRECTIONAL SURVEY FOR WELL LD6-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-LD6(LD6-2)

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	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE	
*	387	373.81	323.81	N	87.60	E	48.55	100.16 *
*	385	371.88	321.88	N	87.15	E	48.30	99.64 *
	390	376.70	326.70	N	88.24	E	49.01	100.94
	400	386.36	336.36	N	90.43	E	50.44	103.55
	410	396.00	346.00	N	92.65	E	51.88	106.19 ✓
	420	405.64	355.64	N	94.88	E	53.33	108.84
	430	415.27	365.27	N	97.13	E	54.79	111.52
	440	424.90	374.90	N	99.40	E	56.26	114.22
	450	434.52	384.52	N	101.69	E	57.75	116.94
	460	444.14	394.14	N	103.99	E	59.24	119.69
	470	453.74	403.74	N	106.32	E	60.75	122.45
	480	463.35	413.35	N	108.66	E	62.27	125.24
	490	472.94	422.94	N	111.01	E	63.80	128.05
	500	482.53	432.53	N	113.39	E	65.35	130.87
	510	492.12	442.12	N	115.78	E	66.90	133.72
	520	501.70	451.70	N	118.19	E	68.47	136.60
	530	511.27	461.27	N	120.62	E	70.04	139.49
	540	520.83	470.83	N	123.07	E	71.63	142.40
	550	530.39	480.39	N	125.54	E	73.23	145.34
	560	539.94	489.94	N	128.02	E	74.85	148.29
	570	549.49	499.49	N	130.52	E	76.47	151.27
	580	559.03	509.03	N	133.03	E	78.10	154.27
	590	568.56	518.56	N	135.57	E	79.75	157.29
	600	578.08	528.08	N	138.12	E	81.41	160.33
	610	587.60	537.60	N	140.69	E	83.08	163.39
	620	597.12	547.12	N	143.28	E	84.76	166.48 ✓
	630	606.62	556.62	N	145.89	E	86.45	169.58
	640	616.12	566.12	N	148.51	E	88.15	172.71
	650	625.61	575.61	N	151.15	E	89.87	175.85
	660	635.09	585.09	N	153.81	E	91.60	179.02
	670	644.57	594.57	N	156.49	E	93.33	182.21
	680	654.04	604.04	N	159.18	E	95.08	185.42
	690	663.50	613.50	N	161.89	E	96.84	188.65
	700	672.96	622.96	N	164.62	E	98.62	191.90
	710	682.41	632.41	N	167.37	E	100.40	195.17
	720	691.85	641.85	N	170.13	E	102.19	198.46
	730	701.29	651.29	N	172.91	E	104.00	201.78
	740	710.71	660.71	N	175.71	E	105.82	205.11
	750	720.13	670.13	N	178.53	E	107.65	208.47
	760	729.54	679.54	N	181.36	E	109.49	211.85
	770	738.95	688.95	N	184.21	E	111.34	215.24
*	780	748.34	698.34	N	187.08	E	113.20	218.66 *
	790	757.74	707.74	N	189.89	E	115.17	222.09
	800	767.12	717.12	N	192.72	E	117.15	225.53
	810	776.50	726.50	N	195.56	E	119.14	228.99

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO - ORDINATES	HORIZONTAL DISTANCE
820	785.88	735.88	N 198.41	E 121.13	232.47
830	795.25	745.25	N 201.27	E 123.14	235.96
840	804.61	754.61	N 204.15	E 125.15	239.46 ✓
850	813.97	763.97	N 207.04	E 127.18	242.98
860	823.32	773.32	N 209.94	E 129.21	246.52
870	832.66	782.66	N 212.85	E 131.25	250.07
880	842.00	792.00	N 215.78	E 133.30	253.64
890	851.34	801.34	N 218.72	E 135.36	257.22
900	860.67	810.67	N 221.67	E 137.42	260.81
910	869.99	819.99	N 224.63	E 139.50	264.43
920	879.31	829.31	N 227.61	E 141.58	268.05
930	888.62	838.62	N 230.60	E 143.67	271.70
940	897.92	847.92	N 233.60	E 145.78	275.35
950	907.22	857.22	N 236.61	E 147.88	279.03
960	916.51	866.51	N 239.64	E 150.00	282.72
* 968	923.94	873.94	N 242.07	E 151.70	285.68 *
970	925.80	875.80	N 242.65	E 152.16	286.41
980	935.10	885.10	N 245.55	E 154.43	290.08
990	944.40	894.40	N 248.44	E 156.68	293.72
1000	953.72	903.72	N 251.31	E 158.93	297.35
1010	963.03	913.03	N 254.17	E 161.16	300.96
1020	972.36	922.36	N 257.01	E 163.38	304.55
1030	981.70	931.70	N 259.84	E 165.59	308.12
1040	991.04	941.04	N 262.65	E 167.79	311.67
1050	1,000.39	950.39	N 265.45	E 169.97	315.20 ✓
1060	1,009.74	959.74	N 268.23	E 172.14	318.72
1070	1,019.11	969.11	N 271.00	E 174.31	322.22
1080	1,028.48	978.48	N 273.75	E 176.46	325.69
1090	1,037.85	987.85	N 276.49	E 178.59	329.15
1100	1,047.24	997.24	N 279.21	E 180.72	332.59
1110	1,056.63	1,006.63	N 281.91	E 182.84	336.02
1120	1,066.03	1,016.03	N 284.61	E 184.94	339.42
1130	1,075.43	1,025.43	N 287.28	E 187.03	342.80
1140	1,084.85	1,034.85	N 289.94	E 189.11	346.17
1150	1,094.26	1,044.26	N 292.59	E 191.18	349.51
1160	1,103.69	1,053.69	N 295.22	E 193.23	352.84
1170	1,113.12	1,063.12	N 297.84	E 195.28	356.15
1180	1,122.56	1,072.56	N 300.44	E 197.31	359.44
1190	1,132.01	1,082.01	N 303.02	E 199.33	362.71
1200	1,141.46	1,091.46	N 305.59	E 201.34	365.96
1210	1,150.92	1,100.92	N 308.15	E 203.33	369.19
1220	1,160.39	1,110.39	N 310.69	E 205.32	372.40
1230	1,169.86	1,119.86	N 313.21	E 207.29	375.60
1240	1,179.34	1,129.34	N 315.72	E 209.25	378.77
* 1246	1,185.03	1,135.03	N 317.22	E 210.42	380.67 *

DIRECTIONAL SURVEY FOR WELL LD6-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2)

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MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
1250	1,188.82	1,138.82	N	318.20	E	211.24	381.93
1260	1,198.31	1,148.31	N	320.62	E	213.27	385.08 ✓
1270	1,207.80	1,157.80	N	323.04	E	215.30	388.22
1280	1,217.29	1,167.29	N	325.46	E	217.33	391.35
1290	1,226.78	1,176.78	N	327.87	E	219.35	394.48
1300	1,236.27	1,186.27	N	330.27	E	221.37	397.60
1310	1,245.77	1,195.77	N	332.68	E	223.39	400.72
1320	1,255.27	1,205.27	N	335.07	E	225.40	403.83
1330	1,264.77	1,214.77	N	337.47	E	227.41	406.94
1340	1,274.27	1,224.27	N	339.86	E	229.41	410.04
1350	1,283.77	1,233.77	N	342.24	E	231.41	413.14
1360	1,293.28	1,243.28	N	344.62	E	233.41	416.23
1370	1,302.78	1,252.78	N	347.00	E	235.40	419.31
1380	1,312.29	1,262.29	N	349.37	E	237.39	422.39
1390	1,321.80	1,271.80	N	351.73	E	239.38	425.46
1400	1,331.32	1,281.32	N	354.10	E	241.36	428.53
1410	1,340.83	1,290.83	N	356.45	E	243.34	431.60
1420	1,350.35	1,300.35	N	358.81	E	245.31	434.65
1430	1,359.87	1,309.87	N	361.15	E	247.28	437.70
1440	1,369.39	1,319.39	N	363.50	E	249.25	440.75
1450	1,378.91	1,328.91	N	365.84	E	251.22	443.79
1460	1,388.43	1,338.43	N	368.17	E	253.17	446.82
1470	1,397.96	1,347.96	N	370.50	E	255.13	449.85 ✓
1480	1,407.49	1,357.49	N	372.83	E	257.08	452.88
1490	1,417.01	1,367.01	N	375.15	E	259.03	455.89
1500	1,426.55	1,376.55	N	377.47	E	260.98	458.90
1510	1,436.08	1,386.08	N	379.78	E	262.92	461.91
1520	1,445.61	1,395.61	N	382.09	E	264.85	464.91
1530	1,455.15	1,405.15	N	384.40	E	266.79	467.91
* 1531	1,456.11	1,406.11	N	384.63	E	266.98	468.21 *
1540	1,464.69	1,414.69	N	386.59	E	268.81	470.87
1550	1,474.24	1,424.24	N	388.76	E	270.84	473.80
1560	1,483.80	1,433.80	N	390.92	E	272.84	476.72
1570	1,493.36	1,443.36	N	393.05	E	274.84	479.61
1580	1,502.93	1,452.93	N	395.17	E	276.82	482.49
1590	1,512.51	1,462.51	N	397.28	E	278.78	485.34
1600	1,522.09	1,472.09	N	399.37	E	280.73	488.17
1610	1,531.68	1,481.68	N	401.45	E	282.66	490.98
1620	1,541.28	1,491.28	N	403.50	E	284.58	493.77
1630	1,550.88	1,500.88	N	405.55	E	286.49	496.54
1640	1,560.49	1,510.49	N	407.57	E	288.38	499.28
1650	1,570.10	1,520.10	N	409.59	E	290.26	502.01
1660	1,579.72	1,529.72	N	411.58	E	292.12	504.71
1670	1,589.35	1,539.35	N	413.56	E	293.96	507.39
1680	1,598.98	1,548.98	N	415.52	E	295.79	510.05 ✓

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	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
	1690	1,608.62	1,558.62	N	417.47	E 297.61	512.69
	1700	1,618.27	1,568.27	N	419.40	E 299.41	515.31
*	1705	1,623.09	1,573.09	N	420.36	E 300.31	516.62 *
	1710	1,627.92	1,577.92	N	421.28	E 301.25	517.91
	1720	1,637.57	1,587.57	N	423.09	E 303.13	520.48
	1730	1,647.22	1,597.22	N	424.91	E 305.01	523.05
	1740	1,656.88	1,606.88	N	426.71	E 306.88	525.60
	1750	1,666.54	1,616.54	N	428.51	E 308.74	528.15
	1760	1,676.20	1,626.20	N	430.30	E 310.60	530.69
	1770	1,685.86	1,635.86	N	432.09	E 312.45	533.23
	1780	1,695.53	1,645.53	N	433.87	E 314.29	535.75
	1790	1,705.19	1,655.19	N	435.65	E 316.13	538.26
	1800	1,714.87	1,664.87	N	437.41	E 317.96	540.77
	1810	1,724.54	1,674.54	N	439.18	E 319.79	543.27
	1820	1,734.21	1,684.21	N	440.93	E 321.61	545.76
	1830	1,743.89	1,693.89	N	442.68	E 323.42	548.24
	1840	1,753.57	1,703.57	N	444.43	E 325.22	550.71
	1850	1,763.25	1,713.25	N	446.16	E 327.02	553.18
	1860	1,772.94	1,722.94	N	447.89	E 328.81	555.64
	1870	1,782.62	1,732.62	N	449.62	E 330.60	558.08
	1880	1,792.31	1,742.31	N	451.34	E 332.38	560.52
	1890	1,802.00	1,752.00	N	453.05	E 334.15	562.95 ✓
*	1894	1,805.88	1,755.88	N	453.73	E 334.86	563.92 *
	1900	1,811.70	1,761.70	N	454.47	E 336.14	565.27
	1910	1,821.39	1,771.39	N	455.69	E 338.26	567.52
	1920	1,831.09	1,781.09	N	456.91	E 340.37	569.76
	1930	1,840.79	1,790.79	N	458.13	E 342.47	571.99
	1940	1,850.50	1,800.50	N	459.34	E 344.57	574.21
	1950	1,860.20	1,810.20	N	460.54	E 346.66	576.43
	1960	1,869.91	1,819.91	N	461.74	E 348.74	578.64
	1970	1,879.62	1,829.62	N	462.94	E 350.81	580.85
	1980	1,889.33	1,839.33	N	464.13	E 352.87	583.04
	1990	1,899.04	1,849.04	N	465.32	E 354.93	585.23
	2000	1,908.76	1,858.76	N	466.50	E 356.98	587.42
	2010	1,918.48	1,868.48	N	467.68	E 359.02	589.60
	2020	1,928.20	1,878.20	N	468.86	E 361.05	591.77
	2030	1,937.92	1,887.92	N	470.02	E 363.08	593.93
	2040	1,947.65	1,897.65	N	471.19	E 365.09	596.08
	2050	1,957.37	1,907.37	N	472.35	E 367.10	598.23
	2060	1,967.10	1,917.10	N	473.50	E 369.11	600.37
	2070	1,976.83	1,926.83	N	474.66	E 371.10	602.51
	2080	1,986.57	1,936.57	N	475.80	E 373.09	604.64
	2090	1,996.30	1,946.30	N	476.94	E 375.06	606.75 ✓
	2100	2,006.04	1,956.04	N	478.08	E 377.03	608.87
	2110	2,015.78	1,965.78	N	479.22	E 379.00	610.97

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MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
2120	2,025.52	1,975.52	N	480.34	E	380.95	613.07
2130	2,035.27	1,985.27	N	481.47	E	382.90	615.16
2140	2,045.01	1,995.01	N	482.59	E	384.84	617.25
2150	2,054.76	2,004.76	N	483.70	E	386.77	619.32
2160	2,064.51	2,014.51	N	484.81	E	388.69	621.39
2170	2,074.26	2,024.26	N	485.92	E	390.61	623.45
* 2175	2,079.14	2,029.14	N	486.47	E	391.56	624.48 *
2180	2,084.02	2,034.02	N	486.75	E	392.63	625.37
2190	2,093.77	2,043.77	N	487.32	E	394.75	627.15
2200	2,103.53	2,053.53	N	487.89	E	396.87	628.92
2210	2,113.29	2,063.29	N	488.46	E	398.98	630.70
2220	2,123.05	2,073.05	N	489.02	E	401.09	632.47
2230	2,132.81	2,082.81	N	489.58	E	403.19	634.24
2240	2,142.57	2,092.57	N	490.15	E	405.28	636.00
2250	2,152.33	2,102.33	N	490.71	E	407.37	637.77
2260	2,162.10	2,112.10	N	491.26	E	409.45	639.53
2270	2,171.86	2,121.86	N	491.82	E	411.53	641.29
2280	2,181.63	2,131.63	N	492.38	E	413.61	643.04
2290	2,191.40	2,141.40	N	492.93	E	415.67	644.80
2300	2,201.17	2,151.17	N	493.48	E	417.73	646.55 ✓
2310	2,210.94	2,160.94	N	494.03	E	419.79	648.30
2320	2,220.71	2,170.71	N	494.58	E	421.84	650.05
2330	2,230.48	2,180.48	N	495.13	E	423.88	651.79
2340	2,240.26	2,190.26	N	495.68	E	425.92	653.54
2350	2,250.03	2,200.03	N	496.22	E	427.96	655.27
2360	2,259.81	2,209.81	N	496.76	E	429.98	657.01
2370	2,269.59	2,219.59	N	497.31	E	432.01	658.75
2380	2,279.37	2,229.37	N	497.85	E	434.02	660.48
2390	2,289.15	2,239.15	N	498.39	E	436.03	662.20
* 2394	2,293.06	2,243.06	N	498.60	E	436.84	662.90 *
2400	2,298.93	2,248.93	N	498.64	E	438.08	663.75
2410	2,308.72	2,258.72	N	498.72	E	440.15	665.17
2420	2,318.50	2,268.50	N	498.79	E	442.23	666.60
2430	2,328.28	2,278.28	N	498.86	E	444.29	668.03
2440	2,338.07	2,288.07	N	498.93	E	446.36	669.46
2450	2,347.85	2,297.85	N	499.01	E	448.42	670.89
2460	2,357.64	2,307.64	N	499.08	E	450.48	672.32
2470	2,367.42	2,317.42	N	499.15	E	452.54	673.75
2480	2,377.21	2,327.21	N	499.22	E	454.59	675.19
2490	2,387.00	2,337.00	N	499.29	E	456.64	676.62
2500	2,396.78	2,346.78	N	499.36	E	458.69	678.06 ✓
2510	2,406.57	2,356.57	N	499.44	E	460.74	679.50
2520	2,416.36	2,366.36	N	499.51	E	462.78	680.94
2530	2,426.15	2,376.15	N	499.58	E	464.82	682.38
2540	2,435.94	2,385.94	N	499.65	E	466.86	683.82

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MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO -	ORDINATES	HORIZONTAL DISTANCE
2550	2,445.73	2,395.73	N	499.72	E 468.89	685.26
2560	2,455.52	2,405.52	N	499.79	E 470.93	686.71
2570	2,465.31	2,415.31	N	499.86	E 472.96	688.15
2580	2,475.10	2,425.10	N	499.93	E 474.98	689.60
2590	2,484.90	2,434.90	N	500.00	E 477.01	691.04
2600	2,494.69	2,444.69	N	500.07	E 479.03	692.49
2610	2,504.48	2,454.48	N	500.14	E 481.05	693.94
2620	2,514.28	2,464.28	N	500.22	E 483.06	695.39
2630	2,524.07	2,474.07	N	500.29	E 485.08	696.84
2640	2,533.87	2,483.87	N	500.36	E 487.09	698.29
2650	2,543.67	2,493.67	N	500.43	E 489.09	699.74
2660	2,553.46	2,503.46	N	500.50	E 491.10	701.20
2670	2,563.26	2,513.26	N	500.57	E 493.10	702.65
2680	2,573.06	2,523.06	N	500.64	E 495.10	704.10
2690	2,582.86	2,532.86	N	500.71	E 497.10	705.56
2700	2,592.66	2,542.66	N	500.77	E 499.09	707.01
* 2705	2,597.55	2,547.55	N	500.81	E 500.09	707.74 *
2710	2,602.45	2,552.45	N	501.02	E 501.06	708.58 ✓
2720	2,612.25	2,562.25	N	501.43	E 503.01	710.25
2730	2,622.06	2,572.06	N	501.84	E 504.95	711.92
2740	2,631.86	2,581.86	N	502.26	E 506.89	713.59
2750	2,641.66	2,591.66	N	502.67	E 508.83	715.26
2760	2,651.46	2,601.46	N	503.08	E 510.77	716.92
2770	2,661.26	2,611.26	N	503.49	E 512.71	718.59
2780	2,671.06	2,621.06	N	503.90	E 514.64	720.26
2790	2,680.87	2,630.87	N	504.31	E 516.57	721.93
2800	2,690.67	2,640.67	N	504.72	E 518.50	723.59
2810	2,700.48	2,650.48	N	505.13	E 520.42	725.26
2820	2,710.28	2,660.28	N	505.54	E 522.34	726.92
2830	2,720.09	2,670.09	N	505.95	E 524.26	728.59
2840	2,729.89	2,679.89	N	506.36	E 526.18	730.25
2850	2,739.70	2,689.70	N	506.76	E 528.10	731.91
2860	2,749.51	2,699.51	N	507.17	E 530.01	733.58
2870	2,759.31	2,709.31	N	507.58	E 531.92	735.24
2880	2,769.12	2,719.12	N	507.98	E 533.83	736.90
2890	2,778.93	2,728.93	N	508.39	E 535.74	738.56
2900	2,788.74	2,738.74	N	508.79	E 537.64	740.22
2910	2,798.55	2,748.55	N	509.20	E 539.54	741.88 ✓
2920	2,808.36	2,758.36	N	509.60	E 541.44	743.54
2930	2,818.17	2,768.17	N	510.00	E 543.34	745.20
2940	2,827.98	2,777.98	N	510.41	E 545.23	746.86
2950	2,837.79	2,787.79	N	510.81	E 547.12	748.51
2960	2,847.60	2,797.60	N	511.21	E 549.01	750.17
2970	2,857.41	2,807.41	N	511.61	E 550.90	751.82
2980	2,867.23	2,817.23	N	512.01	E 552.78	753.48

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2990	2,877.04	2,827.04	N	512.41	E 554.67	755.13
3000	2,886.85	2,836.85	N	512.81	E 556.55	756.78
3010	2,896.67	2,846.67	N	513.21	E 558.42	758.44
3020	2,906.48	2,856.48	N	513.61	E 560.30	760.09
3030	2,916.30	2,866.30	N	514.01	E 562.17	761.74
3040	2,926.11	2,876.11	N	514.40	E 564.04	763.39
3050	2,935.93	2,885.93	N	514.80	E 565.91	765.04
3060	2,945.74	2,895.74	N	515.20	E 567.78	766.68
3070	2,955.56	2,905.56	N	515.59	E 569.64	768.33
3080	2,965.38	2,915.38	N	515.99	E 571.50	769.98
3090	2,975.20	2,925.20	N	516.38	E 573.36	771.62
3100	2,985.01	2,935.01	N	516.78	E 575.22	773.26
3110	2,994.83	2,944.83	N	517.17	E 577.07	774.91
3120	3,004.65	2,954.65	N	517.57	E 578.92	776.55✓
3130	3,014.47	2,964.47	N	517.96	E 580.77	778.19
3140	3,024.29	2,974.29	N	518.35	E 582.62	779.83
3150	3,034.11	2,984.11	N	518.74	E 584.46	781.47
3160	3,043.93	2,993.93	N	519.14	E 586.30	783.11
3170	3,053.75	3,003.75	N	519.53	E 588.14	784.75
3180	3,063.58	3,013.58	N	519.92	E 589.98	786.38
3190	3,073.40	3,023.40	N	520.31	E 591.82	788.02
3200	3,083.22	3,033.22	N	520.70	E 593.65	789.65
3210	3,093.05	3,043.05	N	521.09	E 595.48	791.28
3220	3,102.87	3,052.87	N	521.47	E 597.31	792.91
3230	3,112.69	3,062.69	N	521.86	E 599.13	794.55
3240	3,122.52	3,072.52	N	522.25	E 600.95	796.18
3250	3,132.34	3,082.34	N	522.64	E 602.78	797.80
3260	3,142.17	3,092.17	N	523.02	E 604.59	799.43
3270	3,152.00	3,102.00	N	523.41	E 606.41	801.06
3280	3,161.82	3,111.82	N	523.79	E 608.22	802.68
3290	3,171.65	3,121.65	N	524.18	E 610.03	804.31
3300	3,181.48	3,131.48	N	524.56	E 611.84	805.93
3310	3,191.30	3,141.30	N	524.95	E 613.65	807.55
3320	3,201.13	3,151.13	N	525.33	E 615.45	809.17✓
3330	3,210.96	3,160.96	N	525.71	E 617.25	810.79
3340	3,220.79	3,170.79	N	526.10	E 619.05	812.41
3350	3,230.62	3,180.62	N	526.48	E 620.85	814.03
3360	3,240.45	3,190.45	N	526.86	E 622.64	815.64
3370	3,250.28	3,200.28	N	527.24	E 624.44	817.26
3380	3,260.11	3,210.11	N	527.62	E 626.23	818.87
3390	3,269.95	3,219.95	N	528.00	E 628.01	820.48
3400	3,279.78	3,229.78	N	528.38	E 629.80	822.09
3410	3,289.61	3,239.61	N	528.76	E 631.58	823.70
3420	3,299.44	3,249.44	N	529.14	E 633.36	825.31
3430	3,309.28	3,259.28	N	529.52	E 635.14	826.92

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3440	3,319.11	3,269.11	N	529.89	E 636.91	828.52
3450	3,328.94	3,278.94	N	530.27	E 638.69	830.13
3460	3,338.78	3,288.78	N	530.65	E 640.46	831.73
3470	3,348.61	3,298.61	N	531.02	E 642.23	833.33
3480	3,358.45	3,308.45	N	531.40	E 643.99	834.93
3490	3,368.29	3,318.29	N	531.77	E 645.76	836.53
3500	3,378.12	3,328.12	N	532.15	E 647.52	838.13
3510	3,387.96	3,337.96	N	532.52	E 649.27	839.73
3520	3,397.80	3,347.80	N	532.89	E 651.03	841.32 ✓
3530	3,407.64	3,357.64	N	533.27	E 652.78	842.91
3540	3,417.47	3,367.47	N	533.64	E 654.54	844.51
3550	3,427.31	3,377.31	N	534.01	E 656.29	846.10
3560	3,437.15	3,387.15	N	534.38	E 658.03	847.69
3570	3,446.99	3,396.99	N	534.75	E 659.78	849.28
3580	3,456.83	3,406.83	N	535.12	E 661.52	850.86
* 3586	3,462.74	3,412.74	N	535.34	E 662.56	851.81 *
3590	3,466.67	3,416.67	N	535.50	E 663.26	852.45
3600	3,476.51	3,426.51	N	535.90	E 664.98	854.05
3610	3,486.36	3,436.36	N	536.30	E 666.71	855.64
3620	3,496.20	3,446.20	N	536.70	E 668.43	857.23
3630	3,506.04	3,456.04	N	537.10	E 670.14	858.82
3640	3,515.89	3,465.89	N	537.49	E 671.86	860.40
3650	3,525.73	3,475.73	N	537.88	E 673.56	861.98
3660	3,535.58	3,485.58	N	538.28	E 675.27	863.56
3670	3,545.42	3,495.42	N	538.67	E 676.97	865.13
3680	3,555.27	3,505.27	N	539.06	E 678.66	866.70
3690	3,565.12	3,515.12	N	539.45	E 680.36	868.27
3700	3,574.97	3,524.97	N	539.84	E 682.04	869.84
3710	3,584.82	3,534.82	N	540.23	E 683.73	871.40
3720	3,594.67	3,544.67	N	540.62	E 685.41	872.96
3730	3,604.52	3,554.52	N	541.01	E 687.08	874.51 ✓
3740	3,614.37	3,564.37	N	541.39	E 688.76	876.07
3750	3,624.22	3,574.22	N	541.78	E 690.42	877.62
3760	3,634.08	3,584.08	N	542.16	E 692.09	879.16
3770	3,643.93	3,593.93	N	542.54	E 693.75	880.71
3780	3,653.79	3,603.79	N	542.93	E 695.40	882.25
3790	3,663.64	3,613.64	N	543.31	E 697.06	883.78
3800	3,673.50	3,623.50	N	543.69	E 698.70	885.32
3810	3,683.35	3,633.35	N	544.07	E 700.35	886.85
3820	3,693.21	3,643.21	N	544.45	E 701.99	888.37
3830	3,703.07	3,653.07	N	544.82	E 703.62	889.90
3840	3,712.93	3,662.93	N	545.20	E 705.25	891.42
3850	3,722.79	3,672.79	N	545.58	E 706.88	892.94
3860	3,732.65	3,682.65	N	545.95	E 708.50	894.45
3870	3,742.51	3,692.51	N	546.33	E 710.12	895.96

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
3880	3,752.37	3,702.37	N	546.70	E	711.74	897.47
3890	3,762.23	3,712.23	N	547.07	E	713.35	898.98
* 3898	3,770.12	3,720.12	N	547.37	E	714.64	900.18 *
3900	3,772.10	3,722.10	N	547.30	E	714.96	900.40
3910	3,781.96	3,731.96	N	546.99	E	716.59	901.50
3920	3,791.82	3,741.82	N	546.67	E	718.22	902.60
3930	3,801.68	3,751.68	N	546.35	E	719.85	903.71 ✓
3940	3,811.54	3,761.54	N	546.04	E	721.48	904.82
3950	3,821.40	3,771.40	N	545.72	E	723.13	905.94
3960	3,831.26	3,781.26	N	545.40	E	724.77	907.06
3970	3,841.12	3,791.12	N	545.08	E	726.42	908.18
3980	3,850.97	3,800.97	N	544.76	E	728.07	909.31
3990	3,860.83	3,810.83	N	544.43	E	729.73	910.45
4000	3,870.68	3,820.68	N	544.11	E	731.39	911.59
4010	3,880.54	3,830.54	N	543.79	E	733.05	912.73
4020	3,890.39	3,840.39	N	543.46	E	734.72	913.88
4030	3,900.25	3,850.25	N	543.14	E	736.40	915.03
4040	3,910.10	3,860.10	N	542.81	E	738.07	916.19
4050	3,919.95	3,869.95	N	542.48	E	739.75	917.35
4060	3,929.81	3,879.81	N	542.16	E	741.44	918.51
4070	3,939.66	3,889.66	N	541.83	E	743.13	919.68
4080	3,949.51	3,899.51	N	541.50	E	744.82	920.86
4090	3,959.36	3,909.36	N	541.17	E	746.52	922.04
4100	3,969.20	3,919.20	N	540.84	E	748.22	923.22
* 4110	3,979.05	3,929.05	N	540.51	E	749.92	924.41 *
4120	3,988.90	3,938.90	N	540.27	E	751.64	925.66
4130	3,998.75	3,948.75	N	540.03	E	753.36	926.92 ✓
4140	4,008.60	3,958.60	N	539.78	E	755.07	928.17
4150	4,018.45	3,968.45	N	539.54	E	756.79	929.43
4160	4,028.30	3,978.30	N	539.30	E	758.50	930.68
4170	4,038.15	3,988.15	N	539.06	E	760.21	931.94
4180	4,048.00	3,998.00	N	538.82	E	761.92	933.20
4190	4,057.85	4,007.85	N	538.58	E	763.63	934.45
4200	4,067.70	4,017.70	N	538.34	E	765.34	935.71
4210	4,077.55	4,027.55	N	538.10	E	767.04	936.97
4220	4,087.40	4,037.40	N	537.86	E	768.75	938.23
4230	4,097.25	4,047.25	N	537.62	E	770.45	939.49
4240	4,107.10	4,057.10	N	537.38	E	772.15	940.75
4250	4,116.95	4,066.95	N	537.15	E	773.85	942.01
4260	4,126.80	4,076.80	N	536.91	E	775.55	943.27
4270	4,136.65	4,086.65	N	536.67	E	777.25	944.53
4280	4,146.51	4,096.51	N	536.43	E	778.95	945.79
4290	4,156.36	4,106.36	N	536.19	E	780.64	947.05
4300	4,166.21	4,116.21	N	535.95	E	782.34	948.31
4310	4,176.06	4,126.06	N	535.71	E	784.03	949.58

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO - ORDINATES	HORIZONTAL DISTANCE
4320	4,185.92	4,135.92	N 535.48	E 785.72	950.84
4330	4,195.77	4,145.77	N 535.24	E 787.41	952.10
4340	4,205.62	4,155.62	N 535.00	E 789.10	953.37
4350	4,215.48	4,165.48	N 534.77	E 790.79	954.63
4360	4,225.33	4,175.33	N 534.53	E 792.47	955.90
4370	4,235.19	4,185.19	N 534.29	E 794.16	957.16
4380	4,245.04	4,195.04	N 534.06	E 795.84	958.43
4390	4,254.90	4,204.90	N 533.82	E 797.52	959.69
4400	4,264.75	4,214.75	N 533.58	E 799.20	960.96
4410	4,274.61	4,224.61	N 533.35	E 800.88	962.22
4420	4,284.46	4,234.46	N 533.11	E 802.56	963.49
* 4425	4,289.39	4,239.39	N 532.99	E 803.40	964.12 *
4430	4,294.32	4,244.32	N 532.90	E 804.24	964.78
4440	4,304.17	4,254.17	N 532.73	E 805.93	966.09
4450	4,314.03	4,264.03	N 532.55	E 807.62	967.40
4460	4,323.88	4,273.88	N 532.37	E 809.32	968.72
4470	4,333.73	4,283.73	N 532.19	E 811.02	970.04
4480	4,343.58	4,293.58	N 532.01	E 812.72	971.37
4490	4,353.44	4,303.44	N 531.83	E 814.43	972.70
4500	4,363.29	4,313.29	N 531.65	E 816.14	974.03
4510	4,373.14	4,323.14	N 531.47	E 817.85	975.37
4520	4,382.99	4,332.99	N 531.29	E 819.57	976.71
4530	4,392.84	4,342.84	N 531.11	E 821.29	978.06
4540	4,402.69	4,352.69	N 530.93	E 823.01	979.41
4550	4,412.53	4,362.53	N 530.75	E 824.74	980.76
4560	4,422.38	4,372.38	N 530.57	E 826.47	982.12
4570	4,432.23	4,382.23	N 530.39	E 828.20	983.48
4580	4,442.07	4,392.07	N 530.20	E 829.94	984.84
4590	4,451.92	4,401.92	N 530.02	E 831.68	986.21
4600	4,461.76	4,411.76	N 529.84	E 833.42	987.59
4610	4,471.61	4,421.61	N 529.65	E 835.17	988.96
4620	4,481.45	4,431.45	N 529.47	E 836.92	990.34
4630	4,491.30	4,441.30	N 529.29	E 838.68	991.73
4640	4,501.14	4,451.14	N 529.10	E 840.43	993.12
4650	4,510.98	4,460.98	N 528.92	E 842.20	994.51
4660	4,520.82	4,470.82	N 528.73	E 843.96	995.91
4670	4,530.66	4,480.66	N 528.54	E 845.73	997.31
4680	4,540.50	4,490.50	N 528.36	E 847.50	998.71
4690	4,550.34	4,500.34	N 528.17	E 849.27	1,000.12
4700	4,560.18	4,510.18	N 527.98	E 851.05	1,001.53
4710	4,570.02	4,520.02	N 527.80	E 852.83	1,002.95
4720	4,579.86	4,529.86	N 527.61	E 854.62	1,004.36
4730	4,589.69	4,539.69	N 527.42	E 856.41	1,005.79
4740	4,599.53	4,549.53	N 527.23	E 858.20	1,007.22
4750	4,609.37	4,559.37	N 527.04	E 859.99	1,008.65

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD - ORDINATES		HORIZONTAL DISTANCE
4760	4,619.20	4,569.20	N	526.86	E	861.79
4770	4,629.04	4,579.04	N	526.67	E	863.60
4780	4,638.87	4,588.87	N	526.48	E	865.40
4790	4,648.70	4,598.70	N	526.29	E	867.21
* 4800	4,658.54	4,608.54	N	526.10	E	869.02
4810	4,668.37	4,618.37	N	525.84	E	870.84
4820	4,678.20	4,628.20	N	525.58	E	872.66
4830	4,688.02	4,638.02	N	525.33	E	874.49
4840	4,697.85	4,647.85	N	525.07	E	876.32
4850	4,707.67	4,657.67	N	524.81	E	878.17
4860	4,717.50	4,667.50	N	524.55	E	880.02
4870	4,727.32	4,677.32	N	524.29	E	881.88
4880	4,737.14	4,687.14	N	524.03	E	883.75
4890	4,746.96	4,696.96	N	523.76	E	885.63
4900	4,756.77	4,706.77	N	523.50	E	887.52
4910	4,766.59	4,716.59	N	523.23	E	889.41
4920	4,776.40	4,726.40	N	522.96	E	891.32
4930	4,786.22	4,736.22	N	522.69	E	893.23
4940	4,796.03	4,746.03	N	522.42	E	895.15
4950	4,805.83	4,755.83	N	522.15	E	897.07
4960	4,815.64	4,765.64	N	521.88	E	899.01
4970	4,825.45	4,775.45	N	521.61	E	900.95
4980	4,835.25	4,785.25	N	521.33	E	902.91
4990	4,845.05	4,795.05	N	521.06	E	904.87
5000	4,854.85	4,804.85	N	520.78	E	906.83
5010	4,864.65	4,814.65	N	520.50	E	908.81
5020	4,874.45	4,824.45	N	520.22	E	910.80
5030	4,884.25	4,834.25	N	519.94	E	912.79
5040	4,894.04	4,844.04	N	519.66	E	914.79
5050	4,903.83	4,853.83	N	519.38	E	916.80
5060	4,913.62	4,863.62	N	519.10	E	918.82
5070	4,923.41	4,873.41	N	518.81	E	920.84
5080	4,933.20	4,883.20	N	518.53	E	922.87
5090	4,942.98	4,892.98	N	518.24	E	924.92
5100	4,952.77	4,902.77	N	517.95	E	926.97
5110	4,962.55	4,912.55	N	517.66	E	929.02
* 5111	4,963.53	4,913.53	N	517.63	E	929.23
5120	4,972.33	4,922.33	N	517.18	E	931.05
5130	4,982.11	4,932.11	N	516.68	E	933.07
5140	4,991.89	4,941.89	N	516.17	E	935.10
5150	5,001.67	4,951.67	N	515.66	E	937.13
5160	5,011.44	4,961.44	N	515.16	E	939.16
5170	5,021.22	4,971.22	N	514.65	E	941.20
5180	5,031.00	4,981.00	N	514.14	E	943.24
5190	5,040.77	4,990.77	N	513.63	E	945.29

DIRECTIONAL SURVEY FOR WELL L06-2

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-626-D-L06(L06-2) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 17

CONDUCTOR DATA: 387' MD. DEVIATION: 15.00 DEGREES ORIENTATION: N - 29.00 - E

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO -	ORDINATES	HORIZONTAL DISTANCE
5200	5,050.55	5,000.55	N	513.12	E 947.33	1,077.38
5210	5,060.32	5,010.32	N	512.61	E 949.39	1,078.94
5220	5,070.09	5,020.09	N	512.10	E 951.44	1,080.50
5230	5,079.87	5,029.87	N	511.58	E 953.50	1,082.07
5240	5,089.64	5,039.64	N	511.07	E 955.56	1,083.65
5250	5,099.41	5,049.41	N	510.55	E 957.63	1,085.23
5260	5,109.18	5,059.18	N	510.04	E 959.69	1,086.81
5270	5,118.95	5,068.95	N	509.52	E 961.77	1,088.40
5280	5,128.72	5,078.72	N	509.00	E 963.84	1,089.99
5290	5,138.49	5,088.49	N	508.49	E 965.92	1,091.59
5300	5,148.25	5,098.25	N	507.97	E 968.00	1,093.19
5310	5,158.02	5,108.02	N	507.45	E 970.09	1,094.79
5320	5,167.78	5,117.78	N	506.93	E 972.18	1,096.40
5330	5,177.55	5,127.55	N	506.40	E 974.27	1,098.02
5340	5,187.31	5,137.31	N	505.88	E 976.36	1,099.64
5350	5,197.08	5,147.08	N	505.36	E 978.46	1,101.26
* 5353	5,200.01	5,150.01	N	505.20	E 979.09	1,101.75√*