

DIRECTIONAL SURVEY FOR WELL L06-24
RAW DATA

WELL No. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

THE CONDUCTOR IS VERTICAL

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	850	1.25	N - 84.00 - W
2	970	4.75	N - 74.00 - E
3	1120	11.25	N - 66.00 - E
4	1343	19.00	N - 63.00 - E
5	1499	25.00	N - 66.00 - E
6	1851	31.00	N - 70.00 - E
7	1805	39.50	N - 74.00 - E
8	2003	44.50	N - 74.00 - E
9	2211	46.75	N - 76.50 - E
10	2707	48.75	N - 84.00 - E
11	2843	51.00	N - 86.00 - E
12	2956	52.00	N - 86.50 - E
13	3081	52.00	N - 88.00 - E
14	3276	50.50	N - 90.00 - E
15	3495	48.00	S - 88.00 - E
16	3776	47.50	S - 85.00 - E
17	4123	47.00	S - 81.00 - E
18	4352	41.50	S - 81.00 - E
19	4530	36.50	S - 81.00 - E
20	4745	36.50	S - 79.00 - E
21	4987	40.00	S - 77.00 - E
22	5202	44.00	S - 72.00 - E
23	5636	48.00	S - 71.00 - E
24	5800	50.00	S - 72.00 - E

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

		MEASURED	VERTICAL	TRUE	TOTAL CO - ORDINATES			HORIZONTAL	
		DEPTH	DEPTH	SUB-SEA				DISTANCE	
①	*	500	500.00	450.00	N	0.00	E	0.00	0.00 *
		510	509.99	459.99	N	0.00	W	0.00	0.00
		520	519.99	469.99	N	0.00	W	0.01	0.01
		530	529.99	479.99	N	0.00	W	0.03	0.03
		540	539.99	489.99	N	0.00	W	0.06	0.06
		550	549.99	499.99	N	0.00	W	0.09	0.09
		560	559.99	509.99	N	0.01	W	0.13	0.13
		570	569.99	519.99	N	0.01	W	0.17	0.17
		580	579.99	529.99	N	0.02	W	0.22	0.22
		590	589.99	539.99	N	0.02	W	0.27	0.28
		600	599.99	549.99	N	0.03	W	0.34	0.34
		610	609.99	559.99	N	0.04	W	0.40	0.41
		620	619.99	569.99	N	0.05	W	0.48	0.48
		630	629.99	579.99	N	0.05	W	0.56	0.56
		640	639.99	589.99	N	0.06	W	0.65	0.65
		650	649.99	599.99	N	0.07	W	0.74	0.74
		660	659.99	609.99	N	0.08	W	0.84	0.84
		670	669.99	619.99	N	0.09	W	0.94	0.95
		680	679.99	629.99	N	0.11	W	1.06	1.06
②		690	689.99	639.99	N	0.12	W	1.17	1.18
		700	699.99	649.99	N	0.13	W	1.30	1.30
		710	709.99	659.99	N	0.15	W	1.43	1.43
		720	719.99	669.99	N	0.16	W	1.56	1.57
		730	729.99	679.99	N	0.17	W	1.71	1.72
		740	739.99	689.99	N	0.19	W	1.85	1.86
		750	749.98	699.98	N	0.21	W	2.01	2.02
		760	759.98	709.98	N	0.22	W	2.17	2.18
		770	769.98	719.98	N	0.24	W	2.34	2.35
		780	779.98	729.98	N	0.26	W	2.51	2.53
		790	789.98	739.98	N	0.28	W	2.69	2.71
		800	799.98	749.98	N	0.30	W	2.88	2.89
		810	809.97	759.97	N	0.32	W	3.07	3.09
		820	819.97	769.97	N	0.34	W	3.27	3.29
		830	829.97	779.97	N	0.36	W	3.47	3.49
		840	839.97	789.97	N	0.38	W	3.68	3.70
	*	850	849.97	799.97	N	0.41	W	3.90	3.92 *
		860	859.96	809.96	N	0.48	W	3.64	3.67
		870	869.96	819.96	N	0.57	W	3.33	3.38
		880	879.95	829.95	N	0.67	W	2.98	3.05
		890	889.94	839.94	N	0.79	W	2.57	2.69
		900	899.93	849.93	N	0.92	W	2.12	2.31
		910	909.92	859.92	N	1.06	W	1.62	1.93
		920	919.90	869.90	N	1.22	W	1.06	1.62
		930	929.88	879.88	N	1.39	W	0.46	1.47
		940	939.86	889.86	N	1.58	E	0.18	1.59

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
	950	949.83	899.83	N	1.78	E 0.88	1.98
	960	959.80	909.80	N	1.99	E 1.62	2.57
*	970	969.77	919.77	N	2.22	E 2.42	3.29 *
	980	979.73	929.73	N	2.59	E 3.24	4.15
	990	989.68	939.68	N	2.99	E 4.14	5.11
	1000	999.62	949.62	N	3.41	E 5.10	6.14
	1010	1,009.56	959.56	N	3.87	E 6.13	7.26
	1020	1,019.49	969.49	N	4.36	E 7.23	8.45
	1030	1,029.40	979.40	N	4.88	E 8.40	9.72
	1040	1,039.31	989.31	N	5.43	E 9.64	11.07
	1050	1,049.21	999.21	N	6.02	E 10.94	12.49
	1060	1,059.09	1,009.09	N	6.63	E 12.32	13.99
	1070	1,068.97	1,018.97	N	7.27	E 13.76	15.56
	1080	1,078.83	1,028.83	N	7.94	E 15.27	17.21
	1090	1,088.68	1,038.68	N	8.65	E 16.85	18.94
	1100	1,098.52	1,048.52	N	9.38	E 18.50	20.74
	1110	1,108.34	1,058.34	N	10.14	E 20.21	22.61
*	1120	1,118.15	1,068.15	N	10.94	E 21.99	24.56 *
	1130	1,127.94	1,077.94	N	11.85	E 23.78	26.57
	1140	1,137.73	1,087.73	N	12.79	E 25.63	28.64
	1150	1,147.50	1,097.50	N	13.75	E 27.52	30.77
	1160	1,157.26	1,107.26	N	14.75	E 29.47	32.96
	1170	1,167.00	1,117.00	N	15.77	E 31.48	35.21
	1180	1,176.73	1,126.73	N	16.81	E 33.53	37.51
	1190	1,186.45	1,136.45	N	17.89	E 35.64	39.88
	1200	1,196.15	1,146.15	N	18.99	E 37.80	42.30
	1210	1,205.83	1,155.83	N	20.12	E 40.01	44.79
	1220	1,215.51	1,165.51	N	21.27	E 42.28	47.33
	1230	1,225.16	1,175.16	N	22.45	E 44.59	49.93
	1240	1,234.80	1,184.80	N	23.66	E 46.96	52.59
	1250	1,244.43	1,194.43	N	24.89	E 49.38	55.31
	1260	1,254.03	1,204.03	N	26.15	E 51.86	58.08
	1270	1,263.62	1,213.62	N	27.44	E 54.38	60.91
	1280	1,273.20	1,223.20	N	28.75	E 56.96	63.81
	1290	1,282.75	1,232.75	N	30.09	E 59.59	66.76
	1300	1,292.29	1,242.29	N	31.46	E 62.27	69.76
	1310	1,301.81	1,251.81	N	32.85	E 65.00	72.83
	1320	1,311.31	1,261.31	N	34.27	E 67.78	75.95
	1330	1,320.79	1,270.79	N	35.71	E 70.62	79.14 ✓
	1340	1,330.25	1,280.25	N	37.18	E 73.50	82.37
*	1343	1,333.08	1,283.08	N	37.62	E 74.37	83.35 *
	1350	1,339.69	1,289.69	N	38.56	E 76.48	85.66
	1360	1,349.11	1,299.11	N	39.93	E 79.56	89.02
	1370	1,358.50	1,308.50	N	41.33	E 82.69	92.44
	1380	1,367.88	1,317.88	N	42.75	E 85.87	95.93

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE	
①	1390	1,377.22	1,327.22	N	44.19	E	89.12	99.48
	1400	1,386.55	1,336.55	N	45.66	E	92.42	103.09
	1410	1,395.85	1,345.85	N	47.16	E	95.78	106.76
	1420	1,405.12	1,355.12	N	48.68	E	99.20	110.50
	1430	1,414.37	1,364.37	N	50.22	E	102.67	114.30
	1440	1,423.59	1,373.59	N	51.80	E	106.20	118.16
	1450	1,432.79	1,382.79	N	53.39	E	109.79	122.08
	1460	1,441.96	1,391.96	N	55.01	E	113.43	126.07
	1470	1,451.10	1,401.10	N	56.66	E	117.13	130.12
	1480	1,460.22	1,410.22	N	58.33	E	120.88	134.22
	1490	1,469.31	1,419.31	N	60.03	E	124.70	138.39
	* 1499	1,477.47	1,427.47	N	61.58	E	128.17	142.20 *
	1500	1,478.37	1,428.37	N	61.72	E	128.57	142.62
	1510	1,487.40	1,437.40	N	63.19	E	132.60	146.89
	1520	1,496.40	1,446.40	N	64.68	E	136.70	151.23
	1530	1,505.37	1,455.37	N	66.19	E	140.85	155.63
	1540	1,514.31	1,464.31	N	67.72	E	145.06	160.09
	1550	1,523.22	1,473.22	N	69.28	E	149.33	164.62 ✓
	1560	1,532.10	1,482.10	N	70.85	E	153.65	169.20
②	1570	1,540.95	1,490.95	N	72.45	E	158.04	173.85
	1580	1,549.76	1,499.76	N	74.06	E	162.48	178.56
	1590	1,558.54	1,508.54	N	75.70	E	166.97	183.33
	1600	1,567.29	1,517.29	N	77.36	E	171.53	188.17
	1610	1,576.00	1,526.00	N	79.04	E	176.14	193.06
	1620	1,584.68	1,534.68	N	80.73	E	180.80	198.01
	1630	1,593.33	1,543.33	N	82.45	E	185.53	203.03
	1640	1,601.94	1,551.94	N	84.19	E	190.31	208.10
	1650	1,610.51	1,560.51	N	85.95	E	195.14	213.23
	* 1651	1,611.37	1,561.37	N	86.13	E	195.62	213.75 *
	1660	1,619.04	1,569.04	N	87.42	E	200.14	218.41
	1670	1,627.52	1,577.52	N	88.89	E	205.24	223.67
	1680	1,635.94	1,585.94	N	90.37	E	210.42	229.01
	1690	1,644.32	1,594.32	N	91.88	E	215.68	234.44
	1700	1,652.63	1,602.63	N	93.41	E	221.02	239.94
	1710	1,660.90	1,610.90	N	94.96	E	226.43	245.53
	1720	1,669.11	1,619.11	N	96.53	E	231.91	251.20
	1730	1,677.27	1,627.27	N	98.13	E	237.48	256.95
	1740	1,685.36	1,635.36	N	99.75	E	243.11	262.78
	1750	1,693.41	1,643.41	N	101.38	E	248.83	268.69
	1760	1,701.39	1,651.39	N	103.04	E	254.61	274.68
	1770	1,709.32	1,659.32	N	104.72	E	260.48	280.74
	1780	1,717.19	1,667.19	N	106.42	E	266.41	286.88 ✓
	1790	1,724.99	1,674.99	N	108.15	E	272.42	293.10
	1800	1,732.74	1,682.74	N	109.89	E	278.49	299.39
	* 1805	1,736.60	1,686.60	N	110.77	E	281.55	302.56 *

DIRECTIONAL SURVEY FOR WELL LD6-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-LD6(LD6-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
1810		1,740.45	1,690.45	N	111.65	E 284.62	305.73
1820		1,748.12	1,698.12	N	113.41	E 290.78	312.12
1830		1,755.77	1,705.77	N	115.19	E 296.98	318.53
1840		1,763.39	1,713.39	N	116.98	E 303.20	324.99
1850		1,770.97	1,720.97	N	118.77	E 309.46	331.48
1860		1,778.53	1,728.53	N	120.58	E 315.76	338.00
1870		1,786.06	1,736.06	N	122.39	E 322.08	344.55
1880		1,793.57	1,743.57	N	124.21	E 328.44	351.14
1890		1,801.04	1,751.04	N	126.04	E 334.83	357.76
1900		1,808.48	1,758.48	N	127.88	E 341.24	364.42
1910		1,815.90	1,765.90	N	129.73	E 347.70	371.11
1920		1,823.28	1,773.28	N	131.59	E 354.18	377.84
1930		1,830.63	1,780.63	N	133.46	E 360.69	384.59
1940		1,837.96	1,787.96	N	135.34	E 367.24	391.38
1950		1,845.25	1,795.25	N	137.22	E 373.81	398.20
1960		1,852.52	1,802.52	N	139.12	E 380.42	405.06
1970		1,859.75	1,809.75	N	141.02	E 387.06	411.95
1980		1,866.95	1,816.95	N	142.93	E 393.72	418.87
1990		1,874.13	1,824.13	N	144.85	E 400.42	425.82
2000		1,881.27	1,831.27	N	146.78	E 407.15	432.80
* 2003		1,883.41	1,833.41	N	147.36	E 409.17	434.90
2010		1,888.39	1,838.39	N	148.51	E 413.95	439.78
2020		1,895.50	1,845.50	N	150.15	E 420.79	446.77
2030		1,902.60	1,852.60	N	151.79	E 427.64	453.78
2040		1,909.68	1,859.68	N	153.44	E 434.50	460.80
2050		1,916.75	1,866.75	N	155.09	E 441.38	467.83
2060		1,923.81	1,873.81	N	156.75	E 448.27	474.88
2070		1,930.85	1,880.85	N	158.40	E 455.17	481.95
2080		1,937.88	1,887.88	N	160.06	E 462.08	489.02
2090		1,944.90	1,894.90	N	161.73	E 469.01	496.12
2100		1,951.90	1,901.90	N	163.39	E 475.95	503.22
2110		1,958.89	1,908.89	N	165.06	E 482.91	510.34
2120		1,965.87	1,915.87	N	166.74	E 489.88	517.48
2130		1,972.83	1,922.83	N	168.41	E 496.86	524.62
2140		1,979.78	1,929.78	N	170.09	E 503.85	531.78
2150		1,986.72	1,936.72	N	171.77	E 510.85	538.96
2160		1,993.64	1,943.64	N	173.46	E 517.87	546.15
2170		2,000.55	1,950.55	N	175.15	E 524.90	553.35
2180		2,007.44	1,957.44	N	176.84	E 531.95	560.57
2190		2,014.32	1,964.32	N	178.53	E 539.00	567.80
2200		2,021.19	1,971.19	N	180.23	E 546.07	575.04
2210		2,028.04	1,978.04	N	181.93	E 553.15	582.30
* 2211		2,028.73	1,978.73	N	182.10	E 553.86	583.03
2220		2,034.89	1,984.89	N	182.78	E 560.38	589.44
2230		2,041.73	1,991.73	N	183.55	E 567.64	596.57

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-B-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES				HORIZONTAL DISTANCE
2240	2,048.57	1,998.57	N	184.31	E	574.89	603.72
2250	2,058.40	2,008.40	N	185.07	E	582.16	610.87
2260	2,062.23	2,012.23	N	185.84	E	589.42	618.03
2270	2,069.05	2,019.05	N	186.60	E	596.69	625.19
2280	2,075.86	2,025.86	N	187.36	E	603.97	632.37
2290	2,082.67	2,032.67	N	188.13	E	611.25	639.55
2300	2,089.48	2,039.48	N	188.90	E	618.54	646.74
2310	2,096.28	2,046.28	N	189.66	E	625.83	653.94
2320	2,103.08	2,053.08	N	190.43	E	633.13	661.15
2330	2,109.87	2,059.87	N	191.20	E	640.43	668.36
2340	2,116.65	2,066.65	N	191.96	E	647.73	675.58
2350	2,123.43	2,073.43	N	192.73	E	655.04	682.81
2360	2,130.21	2,080.21	N	193.50	E	662.36	690.04
2370	2,136.98	2,086.98	N	194.27	E	669.68	697.29
2380	2,143.74	2,093.74	N	195.04	E	677.00	704.54
2390	2,150.50	2,100.50	N	195.81	E	684.33	711.79
2400	2,157.26	2,107.26	N	196.58	E	691.66	719.06
2410	2,164.01	2,114.01	N	197.35	E	699.00	726.33
2420	2,170.75	2,120.75	N	198.12	E	706.35	733.61
2430	2,177.49	2,127.49	N	198.90	E	713.69	740.89
2440	2,184.22	2,134.22	N	199.67	E	721.05	748.18
2450	2,190.95	2,140.95	N	200.44	E	728.40	755.48
2460	2,197.67	2,147.67	N	201.22	E	735.77	762.79
2470	2,204.39	2,154.39	N	201.99	E	743.13	770.10
2480	2,211.10	2,161.10	N	202.77	E	750.50	777.41
2490	2,217.81	2,167.81	N	203.54	E	757.88	784.74
2500	2,224.51	2,174.51	N	204.32	E	765.26	792.07
2510	2,231.21	2,181.21	N	205.09	E	772.65	799.41
2520	2,237.90	2,187.90	N	205.87	E	780.04	806.75
2530	2,244.59	2,194.59	N	206.65	E	787.43	814.10
2540	2,251.27	2,201.27	N	207.42	E	794.83	821.45
2550	2,257.95	2,207.95	N	208.20	E	802.24	828.81
2560	2,264.62	2,214.62	N	208.98	E	809.65	836.18
2570	2,271.28	2,221.28	N	209.76	E	817.06	843.56
2580	2,277.94	2,227.94	N	210.54	E	824.48	850.94
2590	2,284.60	2,234.60	N	211.32	E	831.90	858.32
2600	2,291.25	2,241.25	N	212.10	E	839.33	865.71
2610	2,297.89	2,247.89	N	212.88	E	846.76	873.11
2620	2,304.53	2,254.53	N	213.66	E	854.20	880.52
2630	2,311.17	2,261.17	N	214.45	E	861.64	887.92
2640	2,317.80	2,267.80	N	215.23	E	869.08	895.34
2650	2,324.42	2,274.42	N	216.01	E	876.54	902.76
2660	2,331.04	2,281.04	N	216.80	E	883.99	910.19
2670	2,337.65	2,287.65	N	217.58	E	891.45	917.62
2680	2,344.26	2,294.26	N	218.36	E	898.92	925.06

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

	MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
	2690	2,350.86	2,300.86	N	219.15	E 906.39	932.50
	2700	2,357.46	2,307.46	N	219.94	E 913.86	939.95
*	2707	2,362.07	2,312.07	N	220.49	E 919.09	945.17 *
	2710	2,364.05	2,314.05	N	220.64	E 921.35	947.40
	2720	2,370.62	2,320.62	N	221.17	E 928.87	954.84
	2730	2,377.16	2,327.16	N	221.70	E 936.41	962.30
	2740	2,383.68	2,333.68	N	222.23	E 943.98	969.78
	2750	2,390.18	2,340.18	N	222.76	E 951.56	977.28
	2760	2,396.66	2,346.66	N	223.29	E 959.16	984.81
	2770	2,403.11	2,353.11	N	223.82	E 966.78	992.35
	2780	2,409.55	2,359.55	N	224.35	E 974.41	999.91
	2790	2,415.96	2,365.96	N	224.89	E 982.07	1,007.49
	2800	2,422.35	2,372.35	N	225.43	E 989.74	1,015.09
	2810	2,428.71	2,378.71	N	225.96	E 997.43	1,022.71
	2820	2,435.06	2,385.06	N	226.50	E 1,005.15	1,030.35
	2830	2,441.38	2,391.38	N	227.04	E 1,012.87	1,038.01
	2840	2,447.68	2,397.68	N	227.58	E 1,020.62	1,045.69
*	2843	2,449.57	2,399.57	N	227.75	E 1,022.95	1,047.99 *
	2850	2,453.97	2,403.97	N	228.08	E 1,028.38	1,053.37
	2860	2,460.24	2,410.24	N	228.56	E 1,036.15	1,061.06
	2870	2,466.50	2,416.50	N	229.03	E 1,043.94	1,068.77
	2880	2,472.75	2,422.75	N	229.51	E 1,051.73	1,076.48
	2890	2,478.99	2,428.99	N	229.99	E 1,059.53	1,084.21
	2900	2,485.21	2,435.21	N	230.46	E 1,067.35	1,091.94
	2910	2,491.42	2,441.42	N	230.94	E 1,075.17	1,099.69
	2920	2,497.62	2,447.62	N	231.42	E 1,083.00	1,107.45
	2930	2,503.81	2,453.81	N	231.90	E 1,090.84	1,115.22
	2940	2,509.99	2,459.99	N	232.38	E 1,098.69	1,123.00
	2950	2,516.15	2,466.15	N	232.86	E 1,106.55	1,130.79
*	2956	2,519.85	2,469.85	N	233.15	E 1,111.27	1,135.46 *
	2960	2,522.31	2,472.31	N	233.26	E 1,114.42	1,138.57
	2970	2,528.47	2,478.47	N	233.53	E 1,122.29	1,146.33
	2980	2,534.62	2,484.62	N	233.81	E 1,130.17	1,154.10
	2990	2,540.78	2,490.78	N	234.08	E 1,138.04	1,161.87
	3000	2,546.94	2,496.94	N	234.36	E 1,145.92	1,169.64
	3010	2,553.09	2,503.09	N	234.63	E 1,153.79	1,177.41
	3020	2,559.25	2,509.25	N	234.91	E 1,161.67	1,185.18
	3030	2,565.41	2,515.41	N	235.18	E 1,169.54	1,192.96
	3040	2,571.56	2,521.56	N	235.46	E 1,177.42	1,200.73
	3050	2,577.72	2,527.72	N	235.73	E 1,185.30	1,208.51
	3060	2,583.88	2,533.88	N	236.01	E 1,193.17	1,216.29
	3070	2,590.03	2,540.03	N	236.28	E 1,201.05	1,224.07
	3080	2,596.19	2,546.19	N	236.56	E 1,208.92	1,231.85
*	3081	2,596.80	2,546.80	N	236.59	E 1,209.71	1,232.63 *
	3090	2,602.35	2,552.35	N	236.59	E 1,216.79	1,239.58

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3100	2,608.53	2,558.53	N	236.59	E 1,224.66	1,247.30
3110	2,614.72	2,564.72	N	236.59	E 1,232.51	1,255.02
3120	2,620.92	2,570.92	N	236.59	E 1,240.36	1,262.73
3130	2,627.12	2,577.12	N	236.59	E 1,248.20	1,270.43
3140	2,633.34	2,583.34	N	236.59	E 1,256.03	1,278.12
3150	2,639.57	2,589.57	N	236.59	E 1,263.86	1,285.81
3160	2,645.81	2,595.81	N	236.59	E 1,271.67	1,293.49
3170	2,652.06	2,602.06	N	236.59	E 1,279.48	1,301.17
3180	2,658.32	2,608.32	N	236.59	E 1,287.27	1,308.84
3190	2,664.59	2,614.59	N	236.59	E 1,295.06	1,316.50
3200	2,670.88	2,620.88	N	236.59	E 1,302.84	1,324.15
3210	2,677.17	2,627.17	N	236.59	E 1,310.62	1,331.80
3220	2,683.47	2,633.47	N	236.59	E 1,318.38	1,339.44
3230	2,689.78	2,639.78	N	236.59	E 1,326.14	1,347.07
3240	2,696.11	2,646.11	N	236.59	E 1,333.88	1,354.70
3250	2,702.44	2,652.44	N	236.59	E 1,341.62	1,362.32
3260	2,708.79	2,658.79	N	236.59	E 1,349.35	1,369.94
3270	2,715.14	2,665.14	N	236.59	E 1,357.07	1,377.54
* 3276	2,718.96	2,668.96	N	236.59	E 1,361.70	1,382.10 *
3280	2,721.50	2,671.50	N	236.48	E 1,364.78	1,385.12 ✓
3290	2,727.89	2,677.89	N	236.21	E 1,372.48	1,392.66
3300	2,734.28	2,684.28	N	235.94	E 1,380.16	1,400.18
3310	2,740.70	2,690.70	N	235.67	E 1,387.83	1,407.70
3320	2,747.12	2,697.12	N	235.41	E 1,395.48	1,415.20
3330	2,753.57	2,703.57	N	235.14	E 1,403.13	1,422.69
3340	2,760.03	2,710.03	N	234.87	E 1,410.76	1,430.17
3350	2,766.50	2,716.50	N	234.61	E 1,418.37	1,437.64
3360	2,772.99	2,722.99	N	234.34	E 1,425.98	1,445.10
3370	2,779.49	2,729.49	N	234.08	E 1,433.57	1,452.55
3380	2,786.01	2,736.01	N	233.81	E 1,441.15	1,459.99
3390	2,792.55	2,742.55	N	233.55	E 1,448.71	1,467.42
3400	2,799.10	2,749.10	N	233.28	E 1,456.26	1,474.83
3410	2,805.66	2,755.66	N	233.02	E 1,463.80	1,482.23
3420	2,812.24	2,762.24	N	232.76	E 1,471.33	1,489.63
3430	2,818.83	2,768.83	N	232.50	E 1,478.84	1,497.01
3440	2,825.44	2,775.44	N	232.23	E 1,486.34	1,504.37
3450	2,832.07	2,782.07	N	231.97	E 1,493.83	1,511.73
3460	2,838.71	2,788.71	N	231.71	E 1,501.30	1,519.08
3470	2,845.36	2,795.36	N	231.45	E 1,508.76	1,526.41
3480	2,852.03	2,802.03	N	231.19	E 1,516.21	1,533.73
3490	2,858.72	2,808.72	N	230.93	E 1,523.64	1,541.04
* 3495	2,862.06	2,812.06	N	230.80	E 1,527.35	1,544.70 *
3500	2,865.41	2,815.41	N	230.48	E 1,531.06	1,548.31
3510	2,872.10	2,822.10	N	229.83	E 1,538.46	1,555.53
3520	2,878.80	2,828.80	N	229.18	E 1,545.85	1,562.75

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3530	2,885.50	2,835.50	N	228.54	E 1,553.25	1,569.97
3540	2,893.20	2,842.20	N	227.89	E 1,560.64	1,577.20
3550	2,898.90	2,848.90	N	227.24	E 1,568.04	1,584.42
3560	2,905.61	2,855.61	N	226.60	E 1,575.43	1,591.64
3570	2,912.32	2,862.32	N	225.95	E 1,582.81	1,598.86
3580	2,919.03	2,869.03	N	225.30	E 1,590.20	1,606.08
3590	2,925.74	2,875.74	N	224.66	E 1,597.58	1,613.30
3600	2,932.46	2,882.46	N	224.01	E 1,604.96	1,620.52
3610	2,939.18	2,889.18	N	223.37	E 1,612.34	1,627.74
3620	2,945.90	2,895.90	N	222.72	E 1,619.72	1,634.96
3630	2,952.62	2,902.62	N	222.08	E 1,627.09	1,642.18
3640	2,959.34	2,909.34	N	221.43	E 1,634.47	1,649.40
3650	2,966.07	2,916.07	N	220.79	E 1,641.84	1,656.62
3660	2,972.80	2,922.80	N	220.14	E 1,649.21	1,663.84
3670	2,979.53	2,929.53	N	219.50	E 1,656.57	1,671.05
3680	2,986.27	2,936.27	N	218.85	E 1,663.94	1,678.27
3690	2,993.00	2,943.00	N	218.21	E 1,671.30	1,685.49
3700	2,999.74	2,949.74	N	217.56	E 1,678.66	1,692.70
3710	3,006.48	2,956.48	N	216.92	E 1,686.02	1,699.92
3720	3,013.22	2,963.22	N	216.28	E 1,693.38	1,707.13
3730	3,019.97	2,969.97	N	215.63	E 1,700.73	1,714.35
3740	3,026.72	2,976.72	N	214.99	E 1,708.08	1,721.56
3750	3,033.47	2,983.47	N	214.35	E 1,715.43	1,728.77
3760	3,040.22	2,990.22	N	213.70	E 1,722.78	1,735.99
3770	3,046.97	2,996.97	N	213.06	E 1,730.13	1,743.20
* 3776	3,051.03	3,001.03	N	212.68	E 1,734.54	1,747.53 *
3780	3,053.73	3,003.73	N	212.22	E 1,737.45	1,750.36
3790	3,060.49	3,010.49	N	211.06	E 1,744.73	1,757.45
3800	3,067.25	3,017.25	N	209.91	E 1,752.01	1,764.54
3810	3,074.01	3,024.01	N	208.76	E 1,759.28	1,771.62
3820	3,080.77	3,030.77	N	207.60	E 1,766.56	1,778.71
3830	3,087.54	3,037.54	N	206.45	E 1,773.83	1,785.80
3840	3,094.31	3,044.31	N	205.30	E 1,781.10	1,792.89
3850	3,101.08	3,051.08	N	204.15	E 1,788.37	1,799.99
3860	3,107.85	3,057.85	N	203.00	E 1,795.64	1,807.08
3870	3,114.62	3,064.62	N	201.85	E 1,802.90	1,814.17
3880	3,121.40	3,071.40	N	200.70	E 1,810.17	1,821.26 ✓
3890	3,128.18	3,078.18	N	199.55	E 1,817.43	1,828.35
3900	3,134.95	3,084.95	N	198.40	E 1,824.69	1,835.45
3910	3,141.73	3,091.73	N	197.25	E 1,831.95	1,842.54
3920	3,148.52	3,098.52	N	196.10	E 1,839.21	1,849.63
3930	3,155.30	3,105.30	N	194.95	E 1,846.47	1,856.73
3940	3,162.09	3,112.09	N	193.80	E 1,853.72	1,863.82
3950	3,168.88	3,118.88	N	192.65	E 1,860.97	1,870.92
3960	3,175.67	3,125.67	N	191.50	E 1,868.22	1,878.01

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
3970	3,182.46	3,132.46	N	190.35	E 1,875.47	1,885.11
3980	3,189.25	3,139.25	N	189.21	E 1,882.72	1,892.21
3990	3,196.05	3,146.05	N	188.06	E 1,889.97	1,899.30
4000	3,202.84	3,152.84	N	186.91	E 1,897.21	1,906.40
4010	3,209.64	3,159.64	N	185.76	E 1,904.45	1,913.49
4020	3,216.44	3,166.44	N	184.62	E 1,911.70	1,920.59
4030	3,223.25	3,173.25	N	183.47	E 1,918.93	1,927.69
4040	3,230.05	3,180.05	N	182.32	E 1,926.17	1,934.78
4050	3,236.86	3,186.86	N	181.18	E 1,933.41	1,941.88
4060	3,243.67	3,193.67	N	180.03	E 1,940.64	1,948.98
4070	3,250.48	3,200.48	N	178.89	E 1,947.87	1,956.07
4080	3,257.29	3,207.29	N	177.74	E 1,955.11	1,963.17
4090	3,264.10	3,214.10	N	176.60	E 1,962.33	1,970.26
4100	3,270.92	3,220.92	N	175.45	E 1,969.56	1,977.36
4110	3,277.74	3,227.74	N	174.31	E 1,976.79	1,984.46
4120	3,284.56	3,234.56	N	173.16	E 1,984.01	1,991.55
* 4123	3,286.60	3,236.60	N	172.82	E 1,986.18	1,993.68 *
4130	3,291.39	3,241.39	N	172.02	E 1,991.22	1,998.64
4140	3,298.26	3,248.26	N	170.88	E 1,998.40	2,005.69
4150 ✓	3,305.17	3,255.17	N	169.75	E 2,005.54	2,012.71
4160	3,312.10	3,262.10	N	168.63	E 2,012.66	2,019.71
4170	3,319.06	3,269.06	N	167.50	E 2,019.75	2,026.68 ✓
4180	3,326.05	3,276.05	N	166.38	E 2,026.81	2,033.63
4190	3,333.08	3,283.08	N	165.27	E 2,033.84	2,040.55
4200	3,340.13	3,290.13	N	164.16	E 2,040.84	2,047.44
4210	3,347.21	3,297.21	N	163.06	E 2,047.82	2,054.30
4220	3,354.32	3,304.32	N	161.96	E 2,054.76	2,061.14
4230	3,361.46	3,311.46	N	160.86	E 2,061.68	2,067.94
4240	3,368.63	3,318.63	N	159.77	E 2,068.56	2,074.72
4250	3,375.83	3,325.83	N	158.69	E 2,075.42	2,081.47
4260	3,383.06	3,333.06	N	157.61	E 2,082.24	2,088.20
4270	3,390.32	3,340.32	N	156.53	E 2,089.04	2,094.89
4280	3,397.61	3,347.61	N	155.46	E 2,095.80	2,101.56
4290	3,404.92	3,354.92	N	154.39	E 2,102.53	2,108.20
4300	3,412.26	3,362.26	N	153.33	E 2,109.24	2,114.81
4310	3,419.64	3,369.64	N	152.27	E 2,115.91	2,121.39
4320	3,427.04	3,377.04	N	151.22	E 2,122.56	2,127.94
4330	3,434.46	3,384.46	N	150.17	E 2,129.17	2,134.46
4340	3,441.92	3,391.92	N	149.13	E 2,135.75	2,140.95
4350	3,449.40	3,399.40	N	148.09	E 2,142.30	2,147.41
* 4352	3,450.90	3,400.90	N	147.89	E 2,143.61	2,148.71 *
4360	3,456.91	3,406.91	N	147.06	E 2,148.82	2,153.85
4370	3,464.46	3,414.46	N	146.03	E 2,155.30	2,160.24
4380	3,472.04	3,422.04	N	145.01	E 2,161.74	2,166.60
4390	3,479.65	3,429.65	N	144.00	E 2,168.15	2,172.93

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
4400	3,487.30	3,437.30	N	142.99	E 2,174.52	2,179.22
4410	3,494.97	3,444.97	N	141.99	E 2,180.88	2,185.47
4420	3,502.68	3,452.68	N	140.99	E 2,187.14	2,191.68
4430	3,510.41	3,460.41	N	140.00	E 2,193.40	2,197.87
4440	3,518.18	√ 3,468.18	N	139.01	E 2,199.62	2,204.01 ✓
4450	3,525.98	3,475.98	N	138.03	E 2,205.80	2,210.12
4460	3,533.81	3,483.81	N	137.06	E 2,211.95	2,216.19
4470	3,541.67	3,491.67	N	136.09	E 2,218.05	2,222.22
4480	3,549.56	3,499.56	N	135.13	E 2,224.12	2,228.22
4490	3,557.48	3,507.48	N	134.18	E 2,230.15	2,234.18
4500	3,565.43	3,515.43	N	133.23	E 2,236.14	2,240.11
4510	3,573.41	3,523.41	N	132.29	E 2,242.09	2,245.99
4520	3,581.42	3,531.42	N	131.35	E 2,248.01	2,251.84
* 4530	3,589.46	3,539.46	N	130.42	E 2,253.88	2,257.65 *
4540	3,597.50	3,547.50	N	129.48	E 2,259.72	2,263.42
4550	3,605.54	3,555.54	N	128.15	E 2,265.56	2,269.18
4560	3,613.58	3,563.58	N	127.01	E 2,271.40	2,274.95
4570	3,621.62	3,571.62	N	125.88	E 2,277.24	2,280.72
4580	3,629.65	3,579.65	N	124.74	E 2,283.08	2,286.48
4590	3,637.69	3,587.69	N	123.61	E 2,288.92	2,292.25
4600	3,645.73	3,595.73	N	122.47	E 2,294.76	2,298.02
4610	3,653.77	3,603.77	N	121.34	E 2,300.59	2,303.79
4620	3,661.81	3,611.81	N	120.21	E 2,306.43	2,309.56
4630	3,669.85	3,619.85	N	119.07	E 2,312.27	2,315.34
4640	3,677.89	3,627.89	N	117.94	E 2,318.11	2,321.11
4650	3,685.92	3,635.92	N	116.80	E 2,323.95	2,326.88
4660	3,693.96	3,643.96	N	115.67	E 2,329.79	2,332.66
4670	3,702.00	3,652.00	N	114.53	E 2,335.63	2,338.43
4680	3,710.04	3,660.04	N	113.40	E 2,341.47	2,344.21
4690	3,718.08	√ 3,668.08	N	112.26	E 2,347.31	2,349.99 ✓
4700	3,726.12	3,676.12	N	111.13	E 2,353.14	2,355.77
4710 ✓	3,734.16	3,684.16	N	109.99	E 2,358.98	2,361.55
4720	3,742.19	3,692.19	N	108.86	E 2,364.82	2,367.33
4730	3,750.23	3,700.23	N	107.72	E 2,370.66	2,373.11
4740	3,758.27	3,708.27	N	106.59	E 2,376.50	2,378.89
* 4745	3,762.29	3,712.29	N	106.02	E 2,379.42	2,381.78 *
4750	3,766.31	3,716.31	N	105.35	E 2,382.32	2,384.65
4760	3,774.32	3,724.32	N	104.00	E 2,388.15	2,390.41
4770	3,782.32	3,732.32	N	102.65	E 2,393.99	2,396.19
4780	3,790.31	3,740.31	N	101.30	E 2,399.86	2,402.00
4790	3,798.28	3,748.28	N	99.94	E 2,405.74	2,407.82
4800	3,806.23	3,756.23	N	98.58	E 2,411.65	2,413.66
4810	3,814.17	3,764.17	N	97.21	E 2,417.57	2,419.52
4820	3,822.10	3,772.10	N	95.84	E 2,423.51	2,425.41
4830	3,830.01	3,780.01	N	94.46	E 2,429.48	2,431.31

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
4840	3,837.90	3,787.90	N	93.08	E 2,435.46	2,437.24
4850	3,845.78	3,795.78	N	91.70	E 2,441.46	2,443.18
4860	3,853.64	3,803.64	N	90.31	E 2,447.48	2,449.15
4870	3,861.49	3,811.49	N	88.91	E 2,453.52	2,455.13
4880	3,869.32	3,819.32	N	87.51	E 2,459.58	2,461.14
4890	3,877.14	3,827.14	N	86.11	E 2,465.66	2,467.16
4900	3,884.94	3,834.94	N	84.70	E 2,471.75	2,473.21
4910	3,892.72	3,842.72	N	83.29	E 2,477.87	2,479.27
4920	3,900.49	3,850.49	N	81.87	E 2,484.01	2,485.36
4930	3,908.24	3,858.24	N	80.45	E 2,490.16	2,491.46
4940	3,915.98	3,865.98	N	79.03	E 2,496.34	2,497.59
4950	3,923.70	√ 3,873.70	N	77.60	E 2,502.53	2,503.73 ✓
4960	3,931.40	3,881.40	N	76.16	E 2,508.74	2,509.90
4970	3,939.09	3,889.09	N	74.72	E 2,514.97	2,516.08
4980	3,946.76	3,896.76	N	73.28	E 2,521.22	2,522.29
* 4987	3,952.12	3,902.12	N	72.27	E 2,525.61	2,526.64 *
4990	3,954.42	3,904.42	N	71.67	E 2,527.44	2,528.46
5000	3,962.05	3,912.05	N	69.67	E 2,533.59	2,534.55
5010	3,969.66	3,919.66	N	67.67	E 2,539.76	2,540.66
5020	3,977.25	3,927.25	N	65.66	E 2,545.95	2,546.79
5030	3,984.82	3,934.82	N	63.64	E 2,552.16	2,552.95
5040	3,992.37	3,942.37	N	61.61	E 2,558.40	2,559.14
5050	3,999.90	3,949.90	N	59.58	E 2,564.66	2,565.35
5060	4,007.41	3,957.41	N	57.54	E 2,570.94	2,571.59
5070	4,014.89	3,964.89	N	55.49	E 2,577.25	2,577.85
5080	4,022.35	3,972.35	N	53.43	E 2,583.58	2,584.13
5090	4,029.80	3,979.80	N	51.37	E 2,589.93	2,590.44
5100	4,037.21	3,987.21	N	49.29	E 2,596.31	2,596.78
5110	4,044.61	3,994.61	N	47.22	E 2,602.71	2,603.14
5120	4,051.99	4,001.99	N	45.13	E 2,609.13	2,609.52
5130	4,059.34	4,009.34	N	43.03	E 2,615.58	2,615.93
5140	4,066.67	4,016.67	N	40.93	E 2,622.04	2,622.36
5150	4,073.98	4,023.98	N	38.82	E 2,628.54	2,628.82
5160	4,081.27	4,031.27	N	36.71	E 2,635.05	2,635.30
5170	4,088.54	4,038.54	N	34.59	E 2,641.58	2,641.81
5180	4,095.78	4,045.78	N	32.45	E 2,648.14	2,648.34
5190	4,103.00	4,053.00	N	30.32	E 2,654.72	2,654.89
5200	4,110.20	4,060.20	N	28.17	E 2,661.32	2,661.47
* 5202	4,111.64	4,061.64	N	27.74	E 2,662.64	2,662.79 *
5210	4,117.38	√ 4,067.38	N	25.93	E 2,667.91	2,668.03 ✓
5220	4,124.56	4,074.56	N	23.66	E 2,674.49	2,674.60
5230	4,131.72	4,081.72	N	21.39	E 2,681.09	2,681.18
5240	4,138.87	4,088.87	N	19.11	E 2,687.70	2,687.77
5250	4,146.01	4,096.01	N	16.83	E 2,694.32	2,694.37
5260	4,153.14	4,103.14	N	14.55	E 2,700.95	2,700.99

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24)

ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
5270	4,160.25	4,110.25	N	12.26	E 2,707.60	2,707.62
5280	4,167.36	4,117.36	N	9.97	E 2,714.25	2,714.27
5290	4,174.45	4,124.45	N	7.68	E 2,720.91	2,720.92
5300	4,181.54	4,131.54	N	5.38	E 2,727.59	2,727.59
5310	4,188.61	4,138.61	N	3.08	E 2,734.27	2,734.27
5320	4,195.67	4,145.67	N	0.77	E 2,740.97	2,740.97
5330	4,202.72	4,152.72	S	1.53	E 2,747.67	2,747.68
5340	4,209.76	4,159.76	S	3.84	E 2,754.39	2,754.39
5350	4,216.78	4,166.78	S	6.16	E 2,761.12	2,761.13
5360	4,223.80	4,173.80	S	8.48	E 2,767.86	2,767.87
5370	4,230.80	4,180.80	S	10.80	E 2,774.61	2,774.63
5380	4,237.79	4,187.79	S	13.13	E 2,781.37	2,781.40
5390	4,244.77	4,194.77	S	15.46	E 2,788.14	2,788.18
5400	4,251.74	4,201.74	S	17.79	E 2,794.92	2,794.98
5410	4,258.70	4,208.70	S	20.13	E 2,801.71	2,801.79
5420	4,265.64	4,215.64	S	22.48	E 2,808.52	2,808.61
5430	4,272.58	4,222.58	S	24.82	E 2,815.33	2,815.44
5440	4,279.50	4,229.50	S	27.17	E 2,822.15	2,822.28
5450	4,286.41	4,236.41	S	29.52	E 2,828.99	2,829.14
5460	4,293.31	4,243.31	S	31.88	E 2,835.83	2,836.01
5470	4,300.19	4,250.19	S	34.24	E 2,842.69	2,842.89
5480	4,307.07	4,257.07	S	36.61	E 2,849.55	2,849.79
5490	4,313.93	4,263.93	S	38.97	E 2,856.43	2,856.69
5500	4,320.79	4,270.79	S	41.34	E 2,863.31	2,863.61
5510	4,327.63	4,277.63	S	43.72	E 2,870.21	2,870.54
5520	4,334.46	4,284.46	S	46.10	E 2,877.12	2,877.49
5530	4,341.27	4,291.27	S	48.48	E 2,884.04	2,884.44
5540	4,348.08	4,298.08	S	50.87	E 2,890.96	2,891.41
5550	4,354.87	4,304.87	S	53.25	E 2,897.90	2,898.39
5560	4,361.65	4,311.65	S	55.65	E 2,904.85	2,905.38
5570	4,368.42	4,318.42	S	58.04	E 2,911.81	2,912.39
5580	4,375.18	4,325.18	S	60.44	E 2,918.78	2,919.41
5590	4,381.93	4,331.93	S	62.85	E 2,925.76	2,926.43
5600	4,388.66	4,338.66	S	65.25	E 2,932.75	2,933.47
5610	4,395.38	4,345.38	S	67.66	E 2,939.75	2,940.53
5620	4,402.09	4,352.09	S	70.08	E 2,946.76	2,947.59
5630	4,408.79	4,358.79	S	72.49	E 2,953.78	2,954.67
* 5636	4,412.81	4,362.81	S	73.95	E 2,958.00	2,958.92 *
5640	4,415.48	4,365.48	S	74.87	E 2,960.82	2,961.77
5650	4,422.15	4,372.15	S	77.17	E 2,967.91	2,968.91
5660	4,428.80	4,378.80	S	79.47	E 2,975.01	2,976.07
5670	4,435.44	4,385.44	S	81.79	E 2,982.13	2,983.25
5680	4,442.06	4,392.06	S	84.10	E 2,989.25	2,990.44
5690	4,448.67	4,398.67	S	86.42	E 2,996.39	2,997.64
5700	4,455.26	4,405.26	S	88.75	E 3,003.55	3,004.86

DIRECTIONAL SURVEY FOR WELL L06-24

COMPUTATIONS AT 10 FEET INCREMENTS

WELL NO. Z2A-21-568-D-L06(L06-24) ELEVATION: 50 FEET NUMBER OF DATA POINTS: 24

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 500' MD.

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUR-SEA	TOTAL	CO - ORDINATES	HORIZONTAL DISTANCE
5710	4,461.83	4,411.83	S 91.07	E 3,010.71	3,012.09
5720	4,468.39	4,418.39	S 93.41	E 3,017.89	3,019.34
5730	4,474.93	4,424.93	S 95.75	E 3,025.09	3,026.60
5740	4,481.45	4,431.45	S 98.09	E 3,032.29	3,033.88
5750	4,487.96	4,437.96	S 100.43	E 3,039.51	3,041.17
5760	4,494.46	4,444.46	S 102.78	E 3,046.75	3,048.48
5770	4,500.93	4,450.93	S 105.14	E 3,053.99	3,055.80
5780	4,507.39	4,457.39	S 107.50	E 3,061.25	3,063.14
5790	4,513.84	4,463.84	S 109.86	E 3,068.53	3,070.49
* 5800	4,520.27	✓ 4,470.27	S 112.23	E 3,075.81	3,077.86 ✓ *