

DIRECTIONAL SURVEY FOR WELL LOG-20 RAW DATA

THE CONDUCTOR IS VERTICAL

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	501	0.25	N - 17.50 - E
2	562	2.25	S - 70.00 - E
3	592	3.25	S - 75.00 - E
4	652	6.00	S - 66.00 - E
5	682	7.50	S - 60.00 - E
6	742	11.00	S - 63.00 - E
7	882	9.00	S - 87.00 - E
8	1002	10.00	S - 84.50 - E
9	1155	14.50	S - 81.50 - E
10	1250	15.25	S - 88.00 - E
11	1294	15.25	S - 78.00 - E
12	1356	15.25	S - 73.00 - E
13	1389	15.50	S - 66.50 - E
14	1421	16.00	S - 64.00 - E
15	1564	18.00	S - 52.00 - E
16	1722	17.75	S - 46.50 - E
17	1817	20.00	S - 49.00 - E
18	1943	21.25	S - 47.00 - E
19	2076	23.00	S - 46.50 - E
20	2190	23.75	S - 42.50 - E
21	2315	25.75	S - 44.50 - E
22	2409	26.25	S - 44.50 - E
23	2562	28.00	S - 42.50 - E
24	2719	31.25	S - 41.00 - E
25	2815	32.75	S - 40.50 - E
26	2907	35.00	S - 40.00 - E
27	3042	35.25	S - 41.00 - E
28	3259	34.75	S - 40.00 - E
29	3475	34.25	S - 36.50 - E
30	3724	32.75	S - 34.00 - E
31	3943	32.75	S - 35.00 - E
32	4192	31.75	S - 31.50 - E
33	4439	31.50	S - 31.00 - E
34	4757	30.75	S - 29.50 - E
35	5005	30.25	S - 26.50 - E
36	5281	29.00	S - 26.50 - E
37	5420	28.75	S - 26.00 - E
38	5574	29.75	S - 25.50 - E
39	5711	28.50	S - 19.50 - E
40	5865	29.00	S - 21.50 - E
41	6017	29.25	S - 19.50 - E
42	6172	29.75	S - 19.00 - E
43	6421	30.75	S - 15.00 - E
44	6632	30.75	S - 15.00 - E
45	6791	31.75	S - 14.00 - E
46	7038	30.00	S - 12.00 - E
47	7408	30.00	S - 11.00 - E
48	8150	23.50	S - 9.50 - E
49	8176	23.35	S - 9.43 - E

LOG-20

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DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD -	ORDINATES	HORIZONTAL DISTANCE
* 385	385.00	335.00	N	0.00	E 0.00	0.00 *
390	390.00	340.00	N	0.00	E 0.00	0.00
400	400.00	350.00	N	0.01	E 0.00	0.01
410	410.00	360.00	N	0.02	E 0.00	0.02
420	420.00	370.00	N	0.03	E 0.01	0.03
430	430.00	380.00	N	0.04	E 0.01	0.05
440	440.00	390.00	N	0.06	E 0.02	0.07
450	450.00	400.00	N	0.09	E 0.03	0.09
460	460.00	410.00	N	0.11	E 0.04	0.12
470	470.00	420.00	N	0.14	E 0.05	0.15
480	480.00	430.00	N	0.18	E 0.06	0.19
490	490.00	440.00	N	0.22	E 0.07	0.23
500	500.00	450.00	N	0.26	E 0.08	0.27
* 501	501.00	451.00	N	0.26	E 0.08	0.27 *
510	510.00	460.00	N	0.23	E 0.16	0.28
520	520.00	470.00	N	0.18	E 0.31	0.36
530	530.00	480.00	N	0.11	E 0.50	0.51
540	539.99	489.99	N	0.02	E 0.75	0.75
550	549.99	499.99	S	0.09	E 1.06	1.06
* 560	559.98	509.98	S	0.22	E 1.42	1.43 *
* 562	561.98	511.98	S	0.25	E 1.49	1.51 *
570	569.97	519.97	S	0.34	E 1.83	1.86
580	579.96	529.96	S	0.47	E 2.31	2.36
590	589.94	539.94	S	0.61	E 2.85	2.91
* 592	591.94	541.94	S	0.64	E 2.96	3.02 *
600	599.92	549.92	S	0.85	E 3.42	3.52
610	609.90	559.90	S	1.14	E 4.07	4.22
620	619.87	569.87	S	1.46	E 4.79	5.01
630	629.83	579.83	S	1.81	E 5.58	5.87
640	639.78	589.78	S	2.20	E 6.45	6.81
650	649.73	599.73	S	2.62	E 7.39	7.84
* 652	651.72	601.72	S	2.70	E 7.58	8.05 *
660	659.67	609.67	S	3.15	E 8.35	8.93
670	669.60	619.60	S	3.75	E 9.39	10.11
680	679.51	629.51	S	4.39	E 10.51	11.39
* 682	681.50	631.50	S	4.52	E 10.74	11.65 *
690	689.42	639.42	S	5.03	E 11.72	12.76
700	699.31	649.31	S	5.70	E 13.05	14.24
710	709.18	659.18	S	6.42	E 14.46	15.82
720	719.04	669.04	S	7.19	E 15.97	17.51
730	728.88	678.88	S	8.00	E 17.56	19.30
740	738.70	688.70	S	8.86	E 19.24	21.18
* 742	740.66	690.66	S	9.03	E 19.58	21.56 *
750	748.52	698.52	S	9.11	E 21.09	22.97
760	758.34	708.34	S	9.21	E 22.95	24.73

DIRECTIONAL SURVEY FOR WELL LD6-20

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WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO - ORDINATES		HORIZONTAL DISTANCE
770	768.17	718.17	S	9.30	E	24.79
780	778.00	728.00	S	9.40	E	26.60
790	787.84	737.84	S	9.49	E	28.39
800	797.69	747.69	S	9.59	E	30.15
810	807.53	757.53	S	9.68	E	31.89
820	817.38	767.38	S	9.77	E	33.61
830	827.24	777.24	S	9.86	E	35.30
840	837.10	787.10	S	9.94	E	36.96
850	846.96	796.96	S	10.03	E	38.60
860	856.83	806.83	S	10.11	E	40.22
870	866.71	816.71	S	10.20	E	41.81
880	876.58	826.58	S	10.28	E	43.38
* 882	878.56	828.56	S	10.30	E	43.69
890	886.46	836.46	S	10.42	E	44.94
900	896.33	846.33	S	10.57	E	46.53
910	906.20	856.20	S	10.72	E	48.12
920	916.07	866.07	S	10.88	E	49.74
930	925.93	875.93	S	11.03	E	51.36
940	935.80	885.80	S	11.19	E	53.00
950	945.66	895.66	S	11.35	E	54.66
960	955.52	905.52	S	11.51	E	56.32
970	965.37	915.37	S	11.67	E	58.01
980	975.23	925.23	S	11.84	E	59.70
990	985.08	935.08	S	12.00	E	61.42
1000	994.93	944.93	S	12.17	E	63.14
* 1002	996.90	946.90	S	12.20	E	63.49
1010	1,004.77	954.77	S	12.41	E	64.89
1020	1,014.60	964.60	S	12.68	E	66.70
1030	1,024.42	974.42	S	12.96	E	68.56
1040	1,034.23	984.23	S	13.25	E	70.46
1050	1,044.04	994.04	S	13.54	E	72.42
1060	1,053.83	1,003.83	S	13.84	E	74.43
1070	1,063.61	1,013.61	S	14.15	E	76.48
1080	1,073.38	1,023.38	S	14.46	E	78.59
1090	1,083.14	1,033.14	S	14.78	E	80.75
1100	1,092.89	1,042.89	S	15.11	E	82.95
1110	1,102.63	1,052.63	S	15.45	E	85.20
1120	1,112.35	1,062.35	S	15.79	E	87.51
1130	1,122.06	1,072.06	S	16.14	E	89.86
1140	1,131.76	1,081.76	S	16.50	E	92.26
1150	1,141.45	1,091.45	S	16.87	E	94.72
* 1155	1,146.29	1,096.29	S	17.06	E	95.95
1160	1,151.13	1,101.13	S	17.10	E	97.21
1170	1,160.81	1,110.81	S	17.19	E	99.73
1180	1,170.48	1,120.48	S	17.28	E	102.27
						103.72

DIRECTIONAL SURVEY FOR WELL LD6-20

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WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
1190	1,180.15	1,130.15	S	17.37	E	104.81
1200	1,189.82	1,139.82	S	17.45	E	107.38
1210	1,199.48	1,149.48	S	17.54	E	109.95
1220	1,209.14	1,159.14	S	17.64	E	112.54
1230	1,218.79	1,168.79	S	17.73	E	115.14
1240	1,228.44	1,178.44	S	17.82	E	117.76
* 1250	1,238.09	1,188.09	S	17.91	E	120.39
1260	1,247.74	1,197.74	S	18.46	E	122.96
1270	1,257.39	1,207.39	S	19.00	E	125.53
1280	1,267.03	1,217.03	S	19.55	E	128.11
1290	1,276.68	1,226.68	S	20.10	E	130.68
* 1294	1,280.54	1,230.54	S	20.32	E	131.71
1300	1,286.33	1,236.33	S	20.78	E	133.22
1310	1,295.98	1,245.98	S	21.55	E	135.73
1320	1,305.63	1,255.63	S	22.32	E	138.25
1330	1,315.27	1,265.27	S	23.08	E	140.76
1340	1,324.92	1,274.92	S	23.85	E	143.28
1350	1,334.57	1,284.57	S	24.62	E	145.79
* 1356	1,340.36	1,290.36	S	25.08	E	147.30
1360	1,344.22	1,294.22	S	25.50	E	148.27
1370	1,353.86	1,303.86	S	26.56	E	150.70
1380	1,363.50	1,313.50	S	27.62	E	153.14
* 1389	1,372.17	1,322.17	S	28.58	E	155.34
1390	1,373.14	1,323.14	S	28.70	E	155.58
1400	1,382.76	1,332.76	S	29.88	E	158.01
1410	1,392.38	1,342.38	S	31.08	E	160.46
1420	1,402.00	1,352.00	S	32.29	E	162.94
* 1421	1,402.96	1,352.96	S	32.41	E	163.19
1430	1,411.61	1,361.61	S	33.94	E	165.16
1440	1,421.21	1,371.21	S	35.67	E	167.36
1450	1,430.80	1,380.80	S	37.41	E	169.59
1460	1,440.38	1,390.38	S	39.16	E	171.83
1470	1,449.96	1,399.96	S	40.93	E	174.09
1480	1,459.53	1,409.53	S	42.71	E	176.38
1490	1,469.10	1,419.10	S	44.51	E	178.68
1500	1,478.66	1,428.66	S	46.32	E	180.99
1510	1,488.21	1,438.21	S	48.14	E	183.33
1520	1,497.75	1,447.75	S	49.98	E	185.68
1530	1,507.29	1,457.29	S	51.84	E	188.06
1540	1,516.82	1,466.82	S	53.71	E	190.45
1550	1,526.34	1,476.34	S	55.59	E	192.86
1560	1,535.85	1,485.85	S	57.48	E	195.28
* 1564	1,539.65	1,489.65	S	58.25	E	196.26
1570	1,545.36	1,495.36	S	59.52	E	197.60
1580	1,554.87	1,504.87	S	61.65	E	199.84

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO -	ORDINATES	HORIZONTAL DISTANCE
1590	1,564.39	1,514.39	S	63.77	E 202.08	211.90
1600	1,573.90	1,523.90	S	65.89	E 204.31	214.67
1610	1,583.41	1,533.41	S	68.01	E 206.54	217.45
1620	1,592.93	1,542.93	S	70.12	E 208.78	220.24
1630	1,602.45	1,552.45	S	72.24	E 211.00	223.03
1640	1,611.96	1,561.96	S	74.35	E 213.23	225.82
1650	1,621.48	1,571.48	S	76.46	E 215.46	228.62
1660	1,631.00	1,581.00	S	78.57	E 217.68	231.43
1670	1,640.52	1,590.52	S	80.68	E 219.90	234.23
1680	1,650.04	1,600.04	S	82.79	E 222.12	237.05
1690	1,659.56	1,609.56	S	84.89	E 224.34	239.86
1700	1,669.08	1,619.08	S	86.99	E 226.55	242.68
1710	1,678.61	1,628.61	S	89.10	E 228.77	245.50
1720	1,688.13	1,638.13	S	91.19	E 230.98	248.33
* 1722	1,690.03	1,640.03	S	91.61	E 231.42	248.89 *
1730	1,697.65	1,647.65	S	93.23	E 233.28	251.22
1740	1,707.15	1,657.15	S	95.28	E 235.63	254.17
1750	1,716.63	1,666.63	S	97.35	E 238.02	257.16
1760	1,726.11	1,676.11	S	99.45	E 240.43	260.19
1770	1,735.57	1,685.57	S	101.57	E 242.87	263.26
1780	1,745.02	1,695.02	S	103.72	E 245.35	266.37
1790	1,754.45	1,704.45	S	105.90	E 247.85	269.52
1800	1,763.87	1,713.87	S	108.10	E 250.38	272.72
1810	1,773.28	1,723.28	S	110.32	E 252.94	275.95
* 1817	1,779.86	1,729.86	S	111.89	E 254.75	278.24 *
1820	1,782.68	1,732.68	S	112.59	E 255.50	279.21
1830	1,792.07	1,742.07	S	114.94	E 258.02	282.46
1840	1,801.45	1,751.45	S	117.30	E 260.54	285.73
1850	1,810.83	1,760.83	S	119.67	E 263.08	289.02
1860	1,820.20	1,770.20	S	122.05	E 265.64	292.33
1870	1,829.56	1,779.56	S	124.44	E 268.20	295.66
1880	1,838.92	1,788.92	S	126.84	E 270.78	299.01
1890	1,848.28	1,798.28	S	129.25	E 273.37	302.38
1900	1,857.62	1,807.62	S	131.68	E 275.97	305.77
1910	1,866.96	1,816.96	S	134.11	E 278.58	309.18
1920	1,876.30	1,826.30	S	136.56	E 281.20	312.61
1930	1,885.63	1,835.63	S	139.02	E 283.84	316.05
1940	1,894.95	1,844.95	S	141.49	E 286.48	319.52
* 1943	1,897.74	1,847.74	S	142.23	E 287.28	320.56 *
1950	1,904.26	1,854.26	S	143.98	E 289.13	322.99
1960	1,913.57	1,863.57	S	146.50	E 291.78	326.50
1970	1,922.87	1,872.87	S	149.04	E 294.45	330.02
1980	1,932.16	1,882.16	S	151.59	E 297.14	333.57
1990	1,941.44	1,891.44	S	154.15	E 299.84	337.14
2000	1,950.71	1,900.71	S	156.73	E 302.56	340.74

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-L06 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CO - ORDINATES		HORIZONTAL DISTANCE
2010	1,959.97	1,909.97	S 159.32	E	305.29	344.36
2020	1,969.23	1,919.23	S 161.93	E	308.04	348.01
2030	1,978.47	1,928.47	S 164.55	E	310.80	351.67
2040	1,987.71	1,937.71	S 167.19	E	313.58	355.37
2050	1,996.94	1,946.94	S 169.84	E	316.37	359.08
2060	2,006.16	1,956.16	S 172.51	E	319.18	362.82
2070	2,015.37	1,965.37	S 175.19	E	322.01	366.58
* 2076	2,020.89	1,970.89	S 176.80	E	323.71	368.85 *
2080	2,024.57	1,974.57	S 177.96	E	324.77	370.33
2090	2,033.77	1,983.77	S 180.85	E	327.42	374.04
2100	2,042.96	1,992.96	S 183.75	E	330.07	377.77
2110	2,052.15	2,002.15	S 186.65	E	332.74	381.52
2120	2,061.34	2,011.34	S 189.57	E	335.41	385.27
2130	2,070.52	2,020.52	S 192.49	E	338.09	389.04
2140	2,079.70	2,029.70	S 195.42	E	340.77	392.83
2150	2,088.87	2,038.87	S 198.36	E	343.46	396.63
2160	2,098.04	2,048.04	S 201.31	E	346.16	400.44
2170	2,107.20	2,057.20	S 204.26	E	348.87	404.27
2180	2,116.36	2,066.36	S 207.22	E	351.58	408.11
* 2190	2,125.51	2,075.51	S 210.19	E	354.31	411.96 *
2200	2,134.65	2,084.65	S 213.08	E	357.15	415.88
2210	2,143.78	2,093.78	S 215.99	E	360.00	419.83
2220	2,152.90	2,102.90	S 218.92	E	362.88	423.80
2230	2,162.01	2,112.01	S 221.86	E	365.78	427.80
2240	2,171.10	2,121.10	S 224.83	E	368.69	431.83
2250	2,180.19	2,130.19	S 227.81	E	371.62	435.89
2260	2,189.26	2,139.26	S 230.81	E	374.56	439.97
2270	2,198.32	2,148.32	S 233.83	E	377.53	444.08
2280	2,207.37	2,157.37	S 236.86	E	380.51	448.21
2290	2,216.41	2,166.41	S 239.92	E	383.51	452.37
2300	2,225.43	2,175.43	S 242.99	E	386.53	456.56
2310	2,234.45	2,184.45	S 246.08	E	389.57	460.78
* 2315	2,238.95	2,188.95	S 247.63	E	391.09	462.89 *
2320	2,243.45	2,193.45	S 249.18	E	392.62	465.01
2330	2,252.45	2,202.45	S 252.29	E	395.67	469.26
2340	2,261.45	2,211.45	S 255.40	E	398.73	473.51
2350	2,270.44	2,220.44	S 258.52	E	401.79	477.78
2360	2,279.43	2,229.43	S 261.64	E	404.87	482.05
2370	2,288.42	2,238.42	S 264.78	E	407.94	486.34
2380	2,297.40	2,247.40	S 267.91	E	411.03	490.63
2390	2,306.37	2,256.37	S 271.06	E	414.11	494.94
2400	2,315.35	2,265.35	S 274.21	E	417.21	499.25
* 2409	2,323.42	2,273.42	S 277.04	E	420.00	503.14 *
2410	2,324.31	2,274.31	S 277.37	E	420.30	503.57
2420	2,333.27	2,283.27	S 280.65	E	423.30	507.88

DIRECTIONAL SURVEY FOR WELL L06-20

10

WELL NO. Z2A-21-829-D-L06 (L06-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE	
2430	2,342.22	2,292.22	S	283.93	E	426.31	512.21
2440	2,351.16	2,301.16	S	287.24	E	429.34	516.56
2450	2,360.10	2,310.10	S	290.55	E	432.38	520.93
2460	2,369.02	2,319.02	S	293.88	E	435.43	525.32
2470	2,377.93	2,327.93	S	297.22	E	438.49	529.73
2480	2,386.84	2,336.84	S	300.57	E	441.56	534.15
2490	2,395.74	2,345.74	S	303.94	E	444.65	538.60
2500	2,404.62	2,354.62	S	307.32	E	447.74	543.07
2510	2,413.50	2,363.50	S	310.72	E	450.85	547.55
2520	2,422.37	2,372.37	S	314.12	E	453.97	552.06
2530	2,431.23	2,381.23	S	317.54	E	457.11	556.58
2540	2,440.08	2,390.08	S	320.97	E	460.25	561.12
2550	2,448.92	2,398.92	S	324.42	E	463.41	565.68
2560	2,457.75	2,407.75	S	327.88	E	466.58	570.26
* 2562	2,459.52	2,409.52	S	328.57	E	467.21	571.18
2570	2,466.57	2,416.57	S	331.42	E	469.69	574.85
2580	2,475.37	2,425.37	S	335.01	E	472.81	579.46
2590	2,484.15	2,434.15	S	338.62	E	475.95	584.11
2600	2,492.91	2,442.91	S	342.25	E	479.11	588.79
2610	2,501.66	2,451.66	S	345.91	E	482.29	593.51
2620	2,510.39	2,460.39	S	349.59	E	485.49	598.26
2630	2,519.10	2,469.10	S	353.30	E	488.71	603.04
2640	2,527.80	2,477.80	S	357.03	E	491.95	607.85
2650	2,536.47	2,486.47	S	360.78	E	495.21	612.70
2660	2,545.13	2,495.13	S	364.56	E	498.50	617.58
2670	2,553.77	2,503.77	S	368.36	E	501.80	622.49
2680	2,562.39	2,512.39	S	372.18	E	505.12	627.43
2690	2,570.99	2,520.99	S	376.03	E	508.47	632.41
2700	2,579.58	2,529.58	S	379.90	E	511.83	637.41
2710	2,588.14	2,538.14	S	383.79	E	515.22	642.45
* 2719	2,595.84	2,545.84	S	387.32	E	518.28	647.02
2720	2,596.69	2,546.69	S	387.71	E	518.62	647.52
2730	2,605.23	2,555.23	S	391.68	E	522.00	652.61
2740	2,613.75	2,563.75	S	395.66	E	525.40	657.72
2750	2,622.25	2,572.25	S	399.66	E	528.82	662.86
2760	2,630.74	2,580.74	S	403.68	E	532.25	668.02
2770	2,639.22	2,589.22	S	407.71	E	535.70	673.20
2780	2,647.68	2,597.68	S	411.76	E	539.16	678.41
2790	2,656.13	2,606.13	S	415.83	E	542.63	683.64
2800	2,664.56	2,614.56	S	419.92	E	546.12	688.90
2810	2,672.98	2,622.98	S	424.03	E	549.63	694.18
* 2815	2,677.18	2,627.18	S	426.08	E	551.39	696.83
2820	2,681.38	2,631.38	S	428.16	E	553.13	699.48
2830	2,689.76	2,639.76	S	432.35	E	556.64	704.82
2840	2,698.11	2,648.11	S	436.56	E	560.18	710.20

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-L06 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES			HORIZONTAL DISTANCE
2850	2,706.44	2,656.44	S	440.80	E	563.74
2860	2,714.74	2,664.74	S	445.07	E	567.32
2870	2,723.02	2,673.02	S	449.36	E	570.92
2880	2,731.28	2,681.28	S	453.68	E	574.54
2890	2,739.51	2,689.51	S	458.03	E	578.19
2900	2,747.72	2,697.72	S	462.40	E	581.86
* 2907	2,753.46	2,703.46	S	465.48	E	584.45
2910	2,755.91	2,705.91	S	466.78	E	585.57
2920	2,764.10	2,714.10	S	471.11	E	589.34
2930	2,772.29	2,722.29	S	475.44	E	593.11
2940	2,780.48	2,730.48	S	479.78	E	596.87
2950	2,788.66	2,738.66	S	484.12	E	600.65
2960	2,796.84	2,746.84	S	488.46	E	604.42
2970	2,805.02	2,755.02	S	492.80	E	608.19
2980	2,813.20	2,763.20	S	497.14	E	611.97
2990	2,821.38	2,771.38	S	501.49	E	615.74
3000	2,829.55	2,779.55	S	505.83	E	619.52
3010	2,837.72	2,787.72	S	510.18	E	623.30
3020	2,845.89	2,795.89	S	514.53	E	627.09
3030	2,854.06	2,804.06	S	518.89	E	630.87
3040	2,862.23	2,812.23	S	523.24	E	634.66
* 3042	2,863.86	2,813.86	S	524.11	E	635.41
3050	2,870.40	2,820.40	S	527.65	E	638.38
3060	2,878.57	2,828.57	S	532.07	E	642.09
3070	2,886.74	2,836.74	S	536.48	E	645.79
3080	2,894.91	2,844.91	S	540.89	E	649.49
3090	2,903.09	2,853.09	S	545.30	E	653.19
3100	2,911.27	2,861.27	S	549.71	E	656.89
3110	2,919.45	2,869.45	S	554.11	E	660.58
3120	2,927.64	2,877.64	S	558.51	E	664.28
3130	2,935.83	2,885.83	S	562.91	E	667.97
3140	2,944.01	2,894.01	S	567.31	E	671.66
3150	2,952.21	2,902.21	S	571.70	E	675.34
3160	2,960.40	2,910.40	S	576.09	E	679.03
3170	2,968.60	2,918.60	S	580.48	E	682.71
3180	2,976.79	2,926.79	S	584.87	E	686.39
3190	2,985.00	2,935.00	S	589.25	E	690.07
3200	2,993.20	2,943.20	S	593.63	E	693.75
3210	3,001.40	2,951.40	S	598.01	E	697.42
3220	3,009.61	2,959.61	S	602.39	E	701.09
3230	3,017.82	2,967.82	S	606.76	E	704.76
3240	3,026.03	2,976.03	S	611.13	E	708.43
3250	3,034.25	2,984.25	S	615.50	E	712.10
* 3259	3,041.64	2,991.64	S	619.43	E	715.39
3260	3,042.46	2,992.46	S	619.89	E	715.73

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385 MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD -	ORDINATES	HORIZONTAL DISTANCE
3270	3,050.68	3,000.68	S	624.47	E 719.12	952.42
3280	3,058.90	3,008.90	S	629.05	E 722.51	957.97
3290	3,067.13	3,017.13	S	633.62	E 725.89	963.53
3300	3,075.35	3,025.35	S	638.19	E 729.27	969.09
3310	3,083.58	3,033.58	S	642.76	E 732.65	974.64
3320	3,091.81	3,041.81	S	647.32	E 736.03	980.19
3330	3,100.05	3,050.05	S	651.89	E 739.41	985.74
3340	3,108.28	3,058.28	S	656.45	E 742.78	991.29
3350	3,116.52	3,066.52	S	661.01	E 746.16	996.83
3360	3,124.76	3,074.76	S	665.56	E 749.53	1,002.38
3370	3,133.00	3,083.00	S	670.11	E 752.89	1,007.92
3380	3,141.24	3,091.24	S	674.66	E 756.26	1,013.46
3390	3,149.49	3,099.49	S	679.21	E 759.63	1,019.00
3400	3,157.74	3,107.74	S	683.75	E 762.99	1,024.53
3410	3,165.99	3,115.99	S	688.30	E 766.35	1,030.07
3420	3,174.24	3,124.24	S	692.83	E 769.71	1,035.60
3430	3,182.50	3,132.50	S	697.37	E 773.06	1,041.13
3440	3,190.76	3,140.76	S	701.90	E 776.42	1,046.66
3450	3,199.02	3,149.02	S	706.43	E 779.77	1,052.18
3460	3,207.28	3,157.28	S	710.96	E 783.12	1,057.71
3470	3,215.55	3,165.55	S	715.49	E 786.47	1,063.23
* 3475	3,219.68	3,169.68	S	717.75	E 788.14	1,065.99 *
3480	3,223.81	3,173.81	S	720.08	E 789.72	1,068.72
3490	3,232.09	3,182.09	S	724.74	E 792.86	1,074.18
3500	3,240.37	3,190.37	S	729.38	E 795.99	1,079.63
3510	3,248.66	3,198.66	S	734.02	E 799.12	1,085.07
3520	3,256.95	3,206.95	S	738.66	E 802.25	1,090.51
3530	3,265.25	3,215.25	S	743.28	E 805.37	1,095.94
3540	3,273.55	3,223.55	S	747.90	E 808.48	1,101.36
3550	3,281.86	3,231.86	S	752.51	E 811.59	1,106.78
3560	3,290.18	3,240.18	S	757.12	E 814.70	1,112.19
3570	3,298.50	3,248.50	S	761.72	E 817.80	1,117.59
3580	3,306.83	3,256.83	S	766.31	E 820.89	1,122.98
3590	3,315.16	3,265.16	S	770.89	E 823.98	1,128.37
3600	3,323.50	3,273.50	S	775.46	E 827.07	1,133.75
3610	3,331.84	3,281.84	S	780.03	E 830.15	1,139.12
3620	3,340.19	3,290.19	S	784.59	E 833.23	1,144.49
3630	3,348.55	3,298.55	S	789.15	E 836.30	1,149.85
3640	3,356.91	3,306.91	S	793.69	E 839.37	1,155.20
3650	3,365.28	3,315.28	S	798.23	E 842.43	1,160.54
3660	3,373.66	3,323.66	S	802.76	E 845.48	1,165.88
3670	3,382.04	3,332.04	S	807.29	E 848.54	1,171.21
3680	3,390.42	3,340.42	S	811.80	E 851.58	1,176.53
3690	3,398.81	3,348.81	S	816.31	E 854.62	1,181.84
3700	3,407.21	3,357.21	S	820.82	E 857.66	1,187.15

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD -	ORDINATES	HORIZONTAL DISTANCE
3710	3,415.61	3,365.61	S	825.31	E 860.69	1,192.45
3720	3,424.02	3,374.02	S	829.80	E 863.72	1,197.74
* 3724	3,427.38	3,377.38	S	831.59	E 864.93	1,199.86 *
3730	3,432.43	3,382.43	S	834.25	E 866.79	1,203.04
3740	3,440.84	3,390.84	S	838.68	E 869.89	1,208.35
3750	3,449.25	3,399.25	S	843.12	E 873.00	1,213.66
3760	3,457.66	3,407.66	S	847.55	E 876.10	1,218.97
3770	3,466.07	3,416.07	S	851.98	E 879.20	1,224.28
3780	3,474.48	3,424.48	S	856.41	E 882.31	1,229.59
3790	3,482.89	3,432.89	S	860.84	E 885.41	1,234.91
3800	3,491.30	3,441.30	S	865.27	E 888.51	1,240.22
3810	3,499.71	3,449.71	S	869.70	E 891.61	1,245.54
3820	3,508.12	3,458.12	S	874.14	E 894.72	1,250.85
3830	3,516.53	3,466.53	S	878.57	E 897.82	1,256.17
3840	3,524.94	3,474.94	S	883.00	E 900.92	1,261.49
3850	3,533.35	3,483.35	S	887.43	E 904.03	1,266.80
3860	3,541.76	3,491.76	S	891.86	E 907.13	1,272.12
3870	3,550.18	3,500.18	S	896.29	E 910.23	1,277.44
3880	3,558.59	3,508.59	S	900.72	E 913.33	1,282.76
3890	3,567.00	3,517.00	S	905.16	E 916.44	1,288.08
3900	3,575.41	3,525.41	S	909.59	E 919.54	1,293.41
3910	3,583.82	3,533.82	S	914.02	E 922.64	1,298.73
3920	3,592.23	3,542.23	S	918.45	E 925.74	1,304.05
3930	3,600.64	3,550.64	S	922.88	E 928.85	1,309.38
3940	3,609.05	3,559.05	S	927.31	E 931.95	1,314.70
* 3943	3,611.57	3,561.57	S	928.64	E 932.88	1,316.30 *
3950	3,617.46	3,567.46	S	931.87	E 934.86	1,319.98
3960	3,625.88	3,575.88	S	936.47	E 937.68	1,325.23
3970	3,634.30	3,584.30	S	941.07	E 940.50	1,330.47
3980	3,642.72	3,592.72	S	945.66	E 943.31	1,335.71
3990	3,651.15	3,601.15	S	950.25	E 946.12	1,340.95
4000	3,659.58	3,609.58	S	954.84	E 948.93	1,346.18
4010	3,668.02	3,618.02	S	959.42	E 951.74	1,351.40
4020	3,676.46	3,626.46	S	963.99	E 954.54	1,356.62
4030	3,684.90	3,634.90	S	968.56	E 957.34	1,361.84
4040	3,693.35	3,643.35	S	973.12	E 960.14	1,367.05
4050	3,701.80	3,651.80	S	977.68	E 962.93	1,372.26
4060	3,710.25	3,660.25	S	982.23	E 965.72	1,377.46
4070	3,718.71	3,668.71	S	986.78	E 968.51	1,382.66
4080	3,727.17	3,677.17	S	991.33	E 971.29	1,387.85
4090	3,735.64	3,685.64	S	995.86	E 974.07	1,393.04
4100	3,744.11	3,694.11	S	1,000.40	E 976.85	1,398.23
4110	3,752.58	3,702.58	S	1,004.93	E 979.63	1,403.41
4120	3,761.06	3,711.06	S	1,009.45	E 982.40	1,408.58
4130	3,769.54	3,719.54	S	1,013.97	E 985.17	1,413.75

DIRECTIONAL SURVEY FOR WELL L06-20

10

WELL NO. Z2A-21-829-D-L06 (L06-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
4140	3,778.02	3,728.02	S 1,018.48	E 987.93	1,418.91
4150	3,786.51	3,736.51	S 1,022.99	E 990.70	1,424.07
4160	3,795.00	3,745.00	S 1,027.49	E 993.46	1,429.23
4170	3,803.50	3,753.50	S 1,031.99	E 996.21	1,434.38
4180	3,812.00	3,762.00	S 1,036.48	E 998.96	1,439.52
4190	3,820.50	3,770.50	S 1,040.97	E 1,001.71	1,444.66
* 4192	3,822.20	3,772.20	S 1,041.87	E 1,002.26	1,445.69 *
4200	3,829.01	3,779.01	S 1,045.47	E 1,004.43	1,449.79
4210	3,837.51	3,787.51	S 1,049.98	E 1,007.14	1,454.92
4220	3,846.02	3,796.02	S 1,054.49	E 1,009.85	1,460.05
4230	3,854.52	3,804.52	S 1,059.00	E 1,012.56	1,465.18
4240	3,863.03	3,813.03	S 1,063.50	E 1,015.26	1,470.30
4250	3,871.54	3,821.54	S 1,068.00	E 1,017.97	1,475.43
4260	3,880.05	3,830.05	S 1,072.50	E 1,020.67	1,480.55
4270	3,888.56	3,838.56	S 1,077.00	E 1,023.38	1,485.68
4280	3,897.07	3,847.07	S 1,081.50	E 1,026.08	1,490.80
4290	3,905.59	3,855.59	S 1,086.00	E 1,028.78	1,495.93
4300	3,914.10	3,864.10	S 1,090.50	E 1,031.48	1,501.05
4310	3,922.61	3,872.61	S 1,094.99	E 1,034.19	1,506.17
4320	3,931.13	3,881.13	S 1,099.49	E 1,036.89	1,511.29
4330	3,939.65	3,889.65	S 1,103.98	E 1,039.59	1,516.41
4340	3,948.16	3,898.16	S 1,108.47	E 1,042.28	1,521.53
4350	3,956.68	3,906.68	S 1,112.96	E 1,044.98	1,526.65
4360	3,965.20	3,915.20	S 1,117.45	E 1,047.68	1,531.77
4370	3,973.72	3,923.72	S 1,121.94	E 1,050.38	1,536.89
4380	3,982.24	3,932.24	S 1,126.42	E 1,053.07	1,542.01
4390	3,990.76	3,940.76	S 1,130.91	E 1,055.77	1,547.13
4400	3,999.29	3,949.29	S 1,135.39	E 1,058.46	1,552.24
4410	4,007.81	3,957.81	S 1,139.88	E 1,061.15	1,557.36
4420	4,016.33	3,966.33	S 1,144.36	E 1,063.85	1,562.47
4430	4,024.86	3,974.86	S 1,148.84	E 1,066.54	1,567.59
* 4439	4,032.53	3,982.53	S 1,152.87	E 1,068.96	1,572.19 *
4440	4,033.39	3,983.39	S 1,153.32	E 1,069.22	1,572.70
4450	4,041.92	3,991.92	S 1,157.87	E 1,071.79	1,577.78
4460	4,050.45	4,000.45	S 1,162.41	E 1,074.36	1,582.86
4470	4,058.98	4,008.98	S 1,166.95	E 1,076.92	1,587.93
4480	4,067.51	4,017.51	S 1,171.48	E 1,079.49	1,593.00
4490	4,076.05	4,026.05	S 1,176.01	E 1,082.05	1,598.08
4500	4,084.59	4,034.59	S 1,180.54	E 1,084.62	1,603.14
4510	4,093.13	4,043.13	S 1,185.07	E 1,087.18	1,608.21
4520	4,101.68	4,051.68	S 1,189.59	E 1,089.74	1,613.27
4530	4,110.22	4,060.22	S 1,194.11	E 1,092.29	1,618.33
4540	4,118.77	4,068.77	S 1,198.63	E 1,094.85	1,623.39
4550	4,127.32	4,077.32	S 1,203.14	E 1,097.40	1,628.45
4560	4,135.87	4,085.87	S 1,207.65	E 1,099.95	1,633.50

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
4570	4,144.43	4,094.43	S 1,212.16	E 1,102.50	1,638.55
4580	4,152.99	4,102.99	S 1,216.66	E 1,105.05	1,643.60
4590	4,161.54	4,111.54	S 1,221.16	E 1,107.60	1,648.64
4600	4,170.10	4,120.10	S 1,225.66	E 1,110.14	1,653.68
4610	4,178.67	4,128.67	S 1,230.16	E 1,112.69	1,658.72
4620	4,187.23	4,137.23	S 1,234.65	E 1,115.23	1,663.76
4630	4,195.80	4,145.80	S 1,239.14	E 1,117.77	1,668.79
4640	4,204.37	4,154.37	S 1,243.62	E 1,120.31	1,673.82
4650	4,212.94	4,162.94	S 1,248.11	E 1,122.84	1,678.85
4660	4,221.51	4,171.51	S 1,252.59	E 1,125.38	1,683.88
4670	4,230.09	4,180.09	S 1,257.06	E 1,127.91	1,688.90
4680	4,238.67	4,188.67	S 1,261.54	E 1,130.44	1,693.92
4690	4,247.25	4,197.25	S 1,266.01	E 1,132.97	1,698.94
4700	4,255.83	4,205.83	S 1,270.48	E 1,135.50	1,703.96
4710	4,264.41	4,214.41	S 1,274.94	E 1,138.02	1,708.97
4720	4,273.00	4,223.00	S 1,279.40	E 1,140.55	1,713.98
4730	4,281.59	4,231.59	S 1,283.86	E 1,143.07	1,718.98
4740	4,290.18	4,240.18	S 1,288.32	E 1,145.59	1,723.99
4750	4,298.77	4,248.77	S 1,292.77	E 1,148.11	1,728.99
* 4757	4,304.79	4,254.79	S 1,295.88	E 1,149.87	1,732.49
4760	4,307.37	4,257.37	S 1,297.26	E 1,150.56	1,733.97
4770	4,315.96	4,265.96	S 1,301.83	E 1,152.84	1,738.90
4780	4,324.56	4,274.56	S 1,306.40	E 1,155.11	1,743.83
4790	4,333.16	4,283.16	S 1,310.96	E 1,157.39	1,748.76
4800	4,341.76	4,291.76	S 1,315.53	E 1,159.67	1,753.69
4810	4,350.37	4,300.37	S 1,320.09	E 1,161.94	1,758.62
4820	4,358.97	4,308.97	S 1,324.65	E 1,164.21	1,763.54
4830	4,367.58	4,317.58	S 1,329.20	E 1,166.48	1,768.46
4840	4,376.19	4,326.19	S 1,333.76	E 1,168.75	1,773.38
4850	4,384.80	4,334.80	S 1,338.31	E 1,171.02	1,778.30
4860	4,393.41	4,343.41	S 1,342.85	E 1,173.29	1,783.22
4870	4,402.03	4,352.03	S 1,347.40	E 1,175.56	1,788.13
4880	4,410.64	4,360.64	S 1,351.94	E 1,177.82	1,793.05
4890	4,419.26	4,369.26	S 1,356.48	E 1,180.08	1,797.96
4900	4,427.88	4,377.88	S 1,361.02	E 1,182.35	1,802.86
4910	4,436.50	4,386.50	S 1,365.55	E 1,184.61	1,807.77
4920	4,445.13	4,395.13	S 1,370.08	E 1,186.87	1,812.67
4930	4,453.75	4,403.75	S 1,374.61	E 1,189.12	1,817.57
4940	4,462.38	4,412.38	S 1,379.14	E 1,191.38	1,822.47
4950	4,471.01	4,421.01	S 1,383.66	E 1,193.64	1,827.37
4960	4,479.64	4,429.64	S 1,388.18	E 1,195.89	1,832.27
4970	4,488.27	4,438.27	S 1,392.70	E 1,198.14	1,837.16
4980	4,496.90	4,446.90	S 1,397.22	E 1,200.39	1,842.05
4990	4,505.54	4,455.54	S 1,401.73	E 1,202.64	1,846.94
5000	4,514.18	4,464.18	S 1,406.24	E 1,204.89	1,851.83

DIRECTIONAL SURVEY FOR WELL L06-20

10

WELL NO. Z2A-21-829-D-L06 (L06-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE	
* 5005	4,518.50	4,468.50	S 1,408.49	E 1,206.02	1,854.27	*
5010	4,522.82	4,472.82	S 1,410.75	E 1,207.14	1,856.71	
5020	4,531.46	4,481.46	S 1,415.24	E 1,209.38	1,861.59	
5030	4,540.11	4,490.11	S 1,419.74	E 1,211.62	1,866.46	
5040	4,548.76	4,498.76	S 1,424.22	E 1,213.86	1,871.33	
5050	4,557.42	4,507.42	S 1,428.71	E 1,216.09	1,876.19	
5060	4,566.08	4,516.08	S 1,433.18	E 1,218.32	1,881.04	
5070	4,574.74	4,524.74	S 1,437.65	E 1,220.55	1,885.89	
5080	4,583.41	4,533.41	S 1,442.11	E 1,222.78	1,890.73	
5090	4,592.08	4,542.08	S 1,446.57	E 1,225.00	1,895.57	
5100	4,600.76	4,550.76	S 1,451.02	E 1,227.22	1,900.40	
5110	4,609.44	4,559.44	S 1,455.46	E 1,229.43	1,905.22	
5120	4,618.12	4,568.12	S 1,459.90	E 1,231.65	1,910.04	
5130	4,626.81	4,576.81	S 1,464.33	E 1,233.86	1,914.85	
5140	4,635.50	4,585.50	S 1,468.76	E 1,236.06	1,919.66	
5150	4,644.20	4,594.20	S 1,473.18	E 1,238.27	1,924.46	
5160	4,652.90	4,602.90	S 1,477.59	E 1,240.47	1,929.26	
5170	4,661.60	4,611.60	S 1,482.00	E 1,242.66	1,934.04	
5180	4,670.31	4,620.31	S 1,486.40	E 1,244.86	1,938.83	
5190	4,679.02	4,629.02	S 1,490.79	E 1,247.05	1,943.60	
5200	4,687.73	4,637.73	S 1,495.18	E 1,249.24	1,948.37	
5210	4,696.45	4,646.45	S 1,499.56	E 1,251.42	1,953.14	
5220	4,705.17	4,655.17	S 1,503.94	E 1,253.60	1,957.90	
5230	4,713.90	4,663.90	S 1,508.31	E 1,255.78	1,962.65	
5240	4,722.63	4,672.63	S 1,512.68	E 1,257.96	1,967.40	
5250	4,731.36	4,681.36	S 1,517.03	E 1,260.13	1,972.14	
5260	4,740.10	4,690.10	S 1,521.38	E 1,262.30	1,976.87	
5270	4,748.85	4,698.85	S 1,525.73	E 1,264.47	1,981.60	
5280	4,757.59	4,707.59	S 1,530.07	E 1,266.63	1,986.32	
* 5281	4,758.47	4,708.47	S 1,530.50	E 1,266.85	1,986.79	*
5290	4,766.34	4,716.34	S 1,534.42	E 1,268.76	1,991.03	
5300	4,775.09	4,725.09	S 1,538.78	E 1,270.88	1,995.74	
5310	4,783.84	4,733.84	S 1,543.13	E 1,273.00	2,000.44	
5320	4,792.59	4,742.59	S 1,547.47	E 1,275.12	2,005.15	
5330	4,801.34	4,751.34	S 1,551.82	E 1,277.24	2,009.85	
5340	4,810.10	4,760.10	S 1,556.16	E 1,279.36	2,014.55	
5350	4,818.86	4,768.86	S 1,560.50	E 1,281.48	2,019.25	
5360	4,827.61	4,777.61	S 1,564.84	E 1,283.59	2,023.94	
5370	4,836.37	4,786.37	S 1,569.18	E 1,285.71	2,028.63	
5380	4,845.14	4,795.14	S 1,573.51	E 1,287.82	2,033.33	
5390	4,853.90	4,803.90	S 1,577.84	E 1,289.93	2,038.01	
5400	4,862.66	4,812.66	S 1,582.17	E 1,292.04	2,042.70	
5410	4,871.43	4,821.43	S 1,586.49	E 1,294.15	2,047.39	
* 5420	4,880.20	4,830.20	S 1,590.82	E 1,296.26	2,052.07	*
5430	4,888.96	4,838.96	S 1,595.17	E 1,298.34	2,056.75	

DIRECTIONAL SURVEY FOR WELL LD6-20

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WELL NO. IZA-21-829-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
5440	4,897.71	4,847.71	S 1,599.52	E 1,300.42	2,061.45
5450	4,906.46	4,856.46	S 1,603.89	E 1,302.50	2,066.15
5460	4,915.21	4,865.21	S 1,608.27	E 1,304.59	2,070.87
5470	4,923.95	4,873.95	S 1,612.66	E 1,306.68	2,075.59
5480	4,932.68	4,882.68	S 1,617.05	E 1,308.78	2,080.32
5490	4,941.41	4,891.41	S 1,621.46	E 1,310.88	2,085.07
5500	4,950.14	4,900.14	S 1,625.87	E 1,312.98	2,089.82
5510	4,958.85	4,908.85	S 1,630.29	E 1,315.09	2,094.59
5520	4,967.57	4,917.57	S 1,634.72	E 1,317.20	2,099.37
5530	4,976.27	4,926.27	S 1,639.16	E 1,319.32	2,104.15
5540	4,984.97	4,934.97	S 1,643.61	E 1,321.44	2,108.95
5550	4,993.67	4,943.67	S 1,648.07	E 1,323.57	2,113.75
5560	5,002.36	4,952.36	S 1,652.53	E 1,325.70	2,118.57
5570	5,011.04	4,961.04	S 1,657.01	E 1,327.83	2,123.40
* 5574	5,014.52	4,964.52	S 1,658.80	E 1,328.69	2,125.33 *
5580	5,019.73	4,969.73	S 1,661.60	E 1,329.68	2,128.14
5590	5,028.42	4,978.42	S 1,666.26	E 1,331.33	2,132.80
5600	5,037.13	4,987.13	S 1,670.90	E 1,332.97	2,137.46
5610	5,045.84	4,995.84	S 1,675.53	E 1,334.61	2,142.10
5620	5,054.55	5,004.55	S 1,680.15	E 1,336.25	2,146.73
5630	5,063.28	5,013.28	S 1,684.75	E 1,337.88	2,151.35
5640	5,072.01	5,022.01	S 1,689.34	E 1,339.51	2,155.96
5650	5,080.76	5,030.76	S 1,693.92	E 1,341.13	2,160.55
5660	5,089.50	5,039.50	S 1,698.49	E 1,342.74	2,165.14
5670	5,098.26	5,048.26	S 1,703.04	E 1,344.35	2,169.71
5680	5,107.03	5,057.03	S 1,707.58	E 1,345.96	2,174.27
5690	5,115.80	5,065.80	S 1,712.10	E 1,347.56	2,178.81
5700	5,124.58	5,074.58	S 1,716.62	E 1,349.16	2,183.35
5710	5,133.37	5,083.37	S 1,721.11	E 1,350.76	2,187.87
* 5711	5,134.24	5,084.24	S 1,721.56	E 1,350.91	2,188.32 *
5720	5,142.15	5,092.15	S 1,725.56	E 1,352.49	2,192.44
5730	5,150.93	5,100.93	S 1,730.01	E 1,354.24	2,197.02
5740	5,159.71	5,109.71	S 1,734.47	E 1,356.00	2,201.61
5750	5,168.49	5,118.49	S 1,738.92	E 1,357.75	2,206.21
5760	5,177.27	5,127.27	S 1,743.39	E 1,359.51	2,210.80
5770	5,186.04	5,136.04	S 1,747.85	E 1,361.27	2,215.41
5780	5,194.81	5,144.81	S 1,752.32	E 1,363.03	2,220.02
5790	5,203.58	5,153.58	S 1,756.80	E 1,364.79	2,224.64
5800	5,212.34	5,162.34	S 1,761.28	E 1,366.56	2,229.26
5810	5,221.10	5,171.10	S 1,765.77	E 1,368.33	2,233.89
5820	5,229.86	5,179.86	S 1,770.26	E 1,370.09	2,238.52
5830	5,238.62	5,188.62	S 1,774.75	E 1,371.86	2,243.16
5840	5,247.37	5,197.37	S 1,779.25	E 1,373.64	2,247.80
5850	5,256.12	5,206.12	S 1,783.75	E 1,375.41	2,252.45
5860	5,264.87	5,214.87	S 1,788.26	E 1,377.19	2,257.10

DIRECTIONAL SURVEY FOR WELL L06-20

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WELL NO. Z2A-21-B29-D-L06 (L06-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CD - ORDINATES		HORIZONTAL DISTANCE
* 5865	5,269.24	5,219.24	S 1,790.52	E 1,378.08	2,259.43 *
5870	5,273.61	5,223.61	S 1,792.80	E 1,378.88	2,261.74
5880	5,282.36	5,232.36	S 1,797.38	E 1,380.50	2,266.35
5890	5,291.10	5,241.10	S 1,801.95	E 1,382.12	2,270.97
5900	5,299.84	5,249.84	S 1,806.53	E 1,383.75	2,275.59
5910	5,308.58	5,258.58	S 1,811.11	E 1,385.37	2,280.21
5920	5,317.32	5,267.32	S 1,815.69	E 1,386.99	2,284.84
5930	5,326.06	5,276.06	S 1,820.28	E 1,388.61	2,289.47
5940	5,334.79	5,284.79	S 1,824.87	E 1,390.24	2,294.10
5950	5,343.53	5,293.53	S 1,829.46	E 1,391.86	2,298.74
5960	5,352.26	5,302.26	S 1,834.05	E 1,393.49	2,303.38
5970	5,360.99	5,310.99	S 1,838.64	E 1,395.12	2,308.02
5980	5,369.72	5,319.72	S 1,843.24	E 1,396.75	2,312.67
5990	5,378.45	5,328.45	S 1,847.84	E 1,398.37	2,317.32
6000	5,387.18	5,337.18	S 1,852.44	E 1,400.00	2,321.97
6010	5,395.90	5,345.90	S 1,857.05	E 1,401.63	2,326.63
* 6017	5,402.01	5,352.01	S 1,860.27	E 1,402.78	2,329.89 *
6020	5,404.63	5,354.63	S 1,861.66	E 1,403.25	2,331.28
6030	5,413.35	5,363.35	S 1,866.28	E 1,404.85	2,335.94
6040	5,422.07	5,372.07	S 1,870.91	E 1,406.44	2,340.60
6050	5,430.78	5,380.78	S 1,875.55	E 1,408.04	2,345.26
6060	5,439.50	5,389.50	S 1,880.19	E 1,409.63	2,349.93
6070	5,448.21	5,398.21	S 1,884.83	E 1,411.23	2,354.61
6080	5,456.92	5,406.92	S 1,889.48	E 1,412.83	2,359.29
6090	5,465.62	5,415.62	S 1,894.14	E 1,414.44	2,363.98
6100	5,474.32	5,424.32	S 1,898.79	E 1,416.04	2,368.67
6110	5,483.02	5,433.02	S 1,903.46	E 1,417.65	2,373.37
6120	5,491.72	5,441.72	S 1,908.13	E 1,419.25	2,378.07
6130	5,500.41	5,450.41	S 1,912.80	E 1,420.86	2,382.78
6140	5,509.10	5,459.10	S 1,917.47	E 1,422.47	2,387.50
6150	5,517.79	5,467.79	S 1,922.16	E 1,424.08	2,392.22
6160	5,526.48	5,476.48	S 1,926.84	E 1,425.70	2,396.94
6170	5,535.16	5,485.16	S 1,931.53	E 1,427.31	2,401.68
* 6172	5,536.90	5,486.90	S 1,932.47	E 1,427.64	2,402.62 *
6180	5,543.84	5,493.84	S 1,936.31	E 1,428.66	2,406.32
6190	5,552.51	5,502.51	S 1,941.11	E 1,429.95	2,410.95
6200	5,561.19	5,511.19	S 1,945.92	E 1,431.24	2,415.59
6210	5,569.86	5,519.86	S 1,950.74	E 1,432.53	2,420.23
6220	5,578.52	5,528.52	S 1,955.56	E 1,433.82	2,424.88
6230	5,587.18	5,537.18	S 1,960.39	E 1,435.12	2,429.54
6240	5,595.84	5,545.84	S 1,965.22	E 1,436.41	2,434.21
6250	5,604.50	5,554.50	S 1,970.06	E 1,437.71	2,438.88
6260	5,613.15	5,563.15	S 1,974.90	E 1,439.01	2,443.56
6270	5,621.79	5,571.79	S 1,979.75	E 1,440.31	2,448.24
6280	5,630.44	5,580.44	S 1,984.61	E 1,441.61	2,452.94

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-829-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD - ORDINATES	HORIZONTAL DISTANCE
6290	5,639.08	5,589.08	S 1,989.47	E 1,442.91	2,457.64
6300	5,647.72	5,597.72	S 1,994.34	E 1,444.21	2,462.35
6310	5,656.35	5,606.35	S 1,999.21	E 1,445.52	2,467.06
6320	5,664.98	5,614.98	S 2,004.09	E 1,446.83	2,471.78
6330	5,673.61	5,623.61	S 2,008.98	E 1,448.14	2,476.51
6340	5,682.23	5,632.23	S 2,013.87	E 1,449.45	2,481.24
6350	5,690.85	5,640.85	S 2,018.77	E 1,450.76	2,485.99
6360	5,699.47	5,649.47	S 2,023.67	E 1,452.07	2,490.73
6370	5,708.08	5,658.08	S 2,028.58	E 1,453.39	2,495.49
6380	5,716.69	5,666.69	S 2,033.49	E 1,454.71	2,500.25
6390	5,725.29	5,675.29	S 2,038.42	E 1,456.02	2,505.02
6400	5,733.89	5,683.89	S 2,043.34	E 1,457.34	2,509.80
6410	5,742.49	5,692.49	S 2,048.27	E 1,458.67	2,514.58
6420	5,751.09	5,701.09	S 2,053.21	E 1,459.99	2,519.37
* 6421	5,751.94	5,701.94	S 2,053.71	E 1,460.12	2,519.85 *
6430	5,759.68	5,709.68	S 2,058.15	E 1,461.31	2,524.17
6440	5,768.27	5,718.27	S 2,063.09	E 1,462.63	2,528.96
6450	5,776.87	5,726.87	S 2,068.03	E 1,463.96	2,533.75
6460	5,785.46	5,735.46	S 2,072.97	E 1,465.28	2,538.55
6470	5,794.06	5,744.06	S 2,077.91	E 1,466.60	2,543.35
6480	5,802.65	5,752.65	S 2,082.84	E 1,467.93	2,548.15
6490	5,811.25	5,761.25	S 2,087.78	E 1,469.25	2,552.95
6500	5,819.84	5,769.84	S 2,092.72	E 1,470.57	2,557.75
6510	5,828.43	5,778.43	S 2,097.66	E 1,471.90	2,562.55
6520	5,837.03	5,787.03	S 2,102.60	E 1,473.22	2,567.35
6530	5,845.62	5,795.62	S 2,107.54	E 1,474.54	2,572.16
6540	5,854.22	5,804.22	S 2,112.48	E 1,475.87	2,576.96
6550	5,862.81	5,812.81	S 2,117.42	E 1,477.19	2,581.77
6560	5,871.40	5,821.40	S 2,122.35	E 1,478.51	2,586.58
6570	5,880.00	5,830.00	S 2,127.29	E 1,479.84	2,591.39
6580	5,888.59	5,838.59	S 2,132.23	E 1,481.16	2,596.20
6590	5,897.19	5,847.19	S 2,137.17	E 1,482.48	2,601.01
6600	5,905.78	5,855.78	S 2,142.11	E 1,483.81	2,605.82
6610	5,914.38	5,864.38	S 2,147.05	E 1,485.13	2,610.64
6620	5,922.97	5,872.97	S 2,151.99	E 1,486.45	2,615.45
6630	5,931.56	5,881.56	S 2,156.92	E 1,487.78	2,620.27
* 6632	5,933.28	5,883.28	S 2,157.91	E 1,488.04	2,621.23 *
6640	5,940.15	5,890.15	S 2,161.89	E 1,489.03	2,625.07
6650	5,948.74	5,898.74	S 2,166.86	E 1,490.27	2,629.87
6660	5,957.32	5,907.32	S 2,171.85	E 1,491.52	2,634.68
6670	5,965.89	5,915.89	S 2,176.85	E 1,492.76	2,639.51
6680	5,974.46	5,924.46	S 2,181.85	E 1,494.01	2,644.34
6690	5,983.02	5,933.02	S 2,186.87	E 1,495.26	2,649.19
6700	5,991.57	5,941.57	S 2,191.89	E 1,496.51	2,654.04
6710	6,000.12	5,950.12	S 2,196.92	E 1,497.77	2,658.90

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
6720	6,008.67	5,958.67	S 2,201.96	E 1,499.02	2,663.78
6730	6,017.21	5,967.21	S 2,207.01	E 1,500.28	2,668.66
6740	6,025.74	5,975.74	S 2,212.07	E 1,501.54	2,673.56
6750	6,034.27	5,984.27	S 2,217.14	E 1,502.81	2,678.46
6760	6,042.79	5,992.79	S 2,222.22	E 1,504.07	2,683.37
6770	6,051.30	6,001.30	S 2,227.31	E 1,505.34	2,688.30
6780	6,059.81	6,009.81	S 2,232.40	E 1,506.61	2,693.23
6790	6,068.32	6,018.32	S 2,237.51	E 1,507.89	2,698.18
* 6791	6,069.17	6,019.17	S 2,238.02	E 1,508.01	2,698.67 *
6800	6,076.83	6,026.83	S 2,242.64	E 1,509.00	2,703.05
6810	6,085.34	6,035.34	S 2,247.77	E 1,510.09	2,707.92
6820	6,093.87	6,043.87	S 2,252.88	E 1,511.17	2,712.77
6830	6,102.39	6,052.39	S 2,257.99	E 1,512.26	2,717.62
6840	6,110.93	6,060.93	S 2,263.09	E 1,513.34	2,722.46
6850	6,119.47	6,069.47	S 2,268.17	E 1,514.42	2,727.29
6860	6,128.02	6,078.02	S 2,273.25	E 1,515.50	2,732.11
6870	6,136.57	6,086.57	S 2,278.32	E 1,516.58	2,736.92
6880	6,145.13	6,095.13	S 2,283.37	E 1,517.65	2,741.72
6890	6,153.70	6,103.70	S 2,288.42	E 1,518.73	2,746.52
6900	6,162.28	6,112.28	S 2,293.45	E 1,519.80	2,751.31
6910	6,170.86	6,120.86	S 2,298.47	E 1,520.86	2,756.09
6920	6,179.44	6,129.44	S 2,303.49	E 1,521.93	2,760.86
6930	6,188.04	6,138.04	S 2,308.49	E 1,522.99	2,765.62
6940	6,196.63	6,146.63	S 2,313.48	E 1,524.05	2,770.37
6950	6,205.24	6,155.24	S 2,318.47	E 1,525.11	2,775.11
6960	6,213.85	6,163.85	S 2,323.44	E 1,526.17	2,779.85
6970	6,222.47	6,172.47	S 2,328.40	E 1,527.22	2,784.58
6980	6,231.09	6,181.09	S 2,333.35	E 1,528.28	2,789.29
6990	6,239.72	6,189.72	S 2,338.29	E 1,529.33	2,794.00
7000	6,248.36	6,198.36	S 2,343.22	E 1,530.37	2,798.70
7010	6,257.00	6,207.00	S 2,348.14	E 1,531.42	2,803.40
7020	6,265.65	6,215.65	S 2,353.05	E 1,532.46	2,808.08
7030	6,274.31	6,224.31	S 2,357.95	E 1,533.51	2,812.75
* 7038	6,281.24	6,231.24	S 2,361.86	E 1,534.34	2,816.49 *
7040	6,282.97	6,232.97	S 2,362.85	E 1,534.53	2,817.41
7050	6,291.63	6,241.63	S 2,367.75	E 1,535.48	2,822.05
7060	6,300.29	6,250.29	S 2,372.66	E 1,536.44	2,826.69
7070	6,308.95	6,258.95	S 2,377.57	E 1,537.39	2,831.33
7080	6,317.61	6,267.61	S 2,382.48	E 1,538.34	2,835.97
7090	6,326.27	6,276.27	S 2,387.39	E 1,539.30	2,840.61
7100	6,334.93	6,284.93	S 2,392.29	E 1,540.25	2,845.25
7110	6,343.59	6,293.59	S 2,397.20	E 1,541.21	2,849.89
7120	6,352.25	6,302.25	S 2,402.11	E 1,542.16	2,854.54
7130	6,360.91	6,310.91	S 2,407.02	E 1,543.11	2,859.18
7140	6,369.57	6,319.57	S 2,411.93	E 1,544.07	2,863.83

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-B29-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
7150	6,378.23	6,328.23	S 2,416.83	E 1,545.02	2,868.48
7160	6,386.89	6,336.89	S 2,421.74	E 1,545.98	2,873.13
7170	6,395.55	6,345.55	S 2,426.65	E 1,546.93	2,877.78
7180	6,404.21	6,354.21	S 2,431.56	E 1,547.88	2,882.43
7190	6,412.87	6,362.87	S 2,436.47	E 1,548.84	2,887.09
7200	6,421.53	6,371.53	S 2,441.37	E 1,549.79	2,891.74
7210	6,430.19	6,380.19	S 2,446.28	E 1,550.75	2,896.40
7220	6,438.85	6,388.85	S 2,451.19	E 1,551.70	2,901.05
7230	6,447.51	6,397.51	S 2,456.10	E 1,552.65	2,905.71
7240	6,456.17	6,406.17	S 2,461.01	E 1,553.61	2,910.37
7250	6,464.83	6,414.83	S 2,465.91	E 1,554.56	2,915.03
7260	6,473.49	6,423.49	S 2,470.82	E 1,555.52	2,919.69
7270	6,482.15	6,432.15	S 2,475.73	E 1,556.47	2,924.35
7280	6,490.81	6,440.81	S 2,480.64	E 1,557.42	2,929.02
7290	6,499.47	6,449.47	S 2,485.55	E 1,558.38	2,933.68
7300	6,508.13	6,458.13	S 2,490.45	E 1,559.33	2,938.35
7310	6,516.79	6,466.79	S 2,495.36	E 1,560.29	2,943.01
7320	6,525.45	6,475.45	S 2,500.27	E 1,561.24	2,947.68
7330	6,534.11	6,484.11	S 2,505.18	E 1,562.19	2,952.35
7340	6,542.77	6,492.77	S 2,510.09	E 1,563.15	2,957.02
7350	6,551.43	6,501.43	S 2,514.99	E 1,564.10	2,961.69
7360	6,560.09	6,510.09	S 2,519.90	E 1,565.06	2,966.36
7370	6,568.75	6,518.75	S 2,524.81	E 1,566.01	2,971.03
7380	6,577.41	6,527.41	S 2,529.72	E 1,566.96	2,975.71
7390	6,586.07	6,536.07	S 2,534.63	E 1,567.92	2,980.38
7400	6,594.73	6,544.73	S 2,539.53	E 1,568.87	2,985.06
* 7408	6,601.66	6,551.66	S 2,543.46	E 1,569.63	2,988.80
7410	6,603.39	6,553.39	S 2,544.45	E 1,569.80	2,989.73
7420	6,612.06	6,562.06	S 2,549.36	E 1,570.62	2,994.34
7430	6,620.74	6,570.74	S 2,554.26	E 1,571.44	2,998.95
7440	6,629.43	6,579.43	S 2,559.15	E 1,572.26	3,003.54
7450	6,638.12	6,588.12	S 2,564.03	E 1,573.08	3,008.13
7460	6,646.82	6,596.82	S 2,568.89	E 1,573.89	3,012.70
7470	6,655.53	6,605.53	S 2,573.74	E 1,574.70	3,017.26
7480	6,664.24	6,614.24	S 2,578.58	E 1,575.51	3,021.81
7490	6,672.96	6,622.96	S 2,583.40	E 1,576.32	3,026.34
7500	6,681.69	6,631.69	S 2,588.21	E 1,577.12	3,030.87
7510	6,690.43	6,640.43	S 2,593.01	E 1,577.93	3,035.39
7520	6,699.17	6,649.17	S 2,597.80	E 1,578.73	3,039.89
7530	6,707.93	6,657.93	S 2,602.57	E 1,579.53	3,044.38
7540	6,716.69	6,666.69	S 2,607.33	E 1,580.32	3,048.86
7550	6,725.45	6,675.45	S 2,612.07	E 1,581.12	3,053.33
7560	6,734.23	6,684.23	S 2,616.80	E 1,581.91	3,057.79
7570	6,743.01	6,693.01	S 2,621.52	E 1,582.70	3,062.24
7580	6,751.80	6,701.80	S 2,626.23	E 1,583.48	3,066.67

DIRECTIONAL SURVEY FOR WELL LD6-20

10

WELL NO. Z2A-21-829-D-LD6 (LD6-20) ELEVATION: 50 FEET NUMBER OF DATA

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL	CD - ORDINATES	HORIZONTAL DISTANCE
7590	6,760.59	6,710.59	S 2,630.92	E 1,584.27	3,071.10
7600	6,769.40	6,719.40	S 2,635.60	E 1,585.05	3,075.51
7610	6,778.21	6,728.21	S 2,640.26	E 1,585.83	3,079.91
7620	6,787.02	6,737.02	S 2,644.91	E 1,586.61	3,084.30
7630	6,795.85	6,745.85	S 2,649.55	E 1,587.39	3,088.68
7640	6,804.68	6,754.68	S 2,654.18	E 1,588.16	3,093.04
7650	6,813.52	6,763.52	S 2,658.79	E 1,588.93	3,097.40
7660	6,822.37	6,772.37	S 2,663.39	E 1,589.70	3,101.74
7670	6,831.22	6,781.22	S 2,667.97	E 1,590.47	3,106.07
7680	6,840.08	6,790.08	S 2,672.55	E 1,591.24	3,110.39
7690	6,848.95	6,798.95	S 2,677.10	E 1,592.00	3,114.70
7700	6,857.82	6,807.82	S 2,681.65	E 1,592.76	3,118.99
7710	6,866.71	6,816.71	S 2,686.18	E 1,593.52	3,123.28
7720	6,875.59	6,825.59	S 2,690.70	E 1,594.27	3,127.55
7730	6,884.49	6,834.49	S 2,695.20	E 1,595.03	3,131.81
7740	6,893.39	6,843.39	S 2,699.70	E 1,595.78	3,136.06
7750	6,902.30	6,852.30	S 2,704.17	E 1,596.53	3,140.30
7760	6,911.22	6,861.22	S 2,708.64	E 1,597.28	3,144.52
7770	6,920.14	6,870.14	S 2,713.09	E 1,598.02	3,148.73
7780	6,929.07	6,879.07	S 2,717.53	E 1,598.76	3,152.94
7790	6,938.01	6,888.01	S 2,721.95	E 1,599.50	3,157.13
7800	6,946.96	6,896.96	S 2,726.36	E 1,600.24	3,161.30
7810	6,955.91	6,905.91	S 2,730.76	E 1,600.98	3,165.47
7820	6,964.86	6,914.86	S 2,735.15	E 1,601.71	3,169.62
7830	6,973.83	6,923.83	S 2,739.52	E 1,602.44	3,173.76
7840	6,982.80	6,932.80	S 2,743.87	E 1,603.17	3,177.89
7850	6,991.78	6,941.78	S 2,748.22	E 1,603.90	3,182.01
7860	7,000.76	6,950.76	S 2,752.55	E 1,604.62	3,186.11
7870	7,009.76	6,959.76	S 2,756.86	E 1,605.34	3,190.21
7880	7,018.75	6,968.75	S 2,761.16	E 1,606.06	3,194.29
7890	7,027.76	6,977.76	S 2,765.45	E 1,606.78	3,198.36
7900	7,036.77	6,986.77	S 2,769.73	E 1,607.50	3,202.41
7910	7,045.79	6,995.79	S 2,773.99	E 1,608.21	3,206.46
7920	7,054.81	7,004.81	S 2,778.24	E 1,608.92	3,210.49
7930	7,063.84	7,013.84	S 2,782.47	E 1,609.63	3,214.51
7940	7,072.88	7,022.88	S 2,786.69	E 1,610.34	3,218.52
7950	7,081.93	7,031.93	S 2,790.90	E 1,611.04	3,222.51
7960	7,090.98	7,040.98	S 2,795.10	E 1,611.74	3,226.50
7970	7,100.04	7,050.04	S 2,799.28	E 1,612.44	3,230.47
7980	7,109.10	7,059.10	S 2,803.44	E 1,613.14	3,234.43
7990	7,118.17	7,068.17	S 2,807.60	E 1,613.83	3,238.37
8000	7,127.25	7,077.25	S 2,811.73	E 1,614.53	3,242.31
8010	7,136.33	7,086.33	S 2,815.86	E 1,615.22	3,246.23
8020	7,145.42	7,095.42	S 2,819.97	E 1,615.91	3,250.14
8030	7,154.51	7,104.51	S 2,824.07	E 1,616.59	3,254.03

DIRECTIONAL SURVEY FOR WELL L06-20

10

WELL NO. Z2A-21-829-D-L06 (L06-20) ELEVATION: 50 FEET NUMBER OF DATA P

CONDUCTOR IS VERTICAL

CONDUCTOR DATA: 385' MD

MEASURED DEPTH	VERTICAL DEPTH	TRUE SUB-SEA	TOTAL CO - ORDINATES		HORIZONTAL DISTANCE
B040	7,163.62	7,113.62	S 2,828.15	E 1,617.28	3,257.92
B050	7,172.72	7,122.72	S 2,832.22	E 1,617.96	3,261.79
B060	7,181.84	7,131.84	S 2,836.28	E 1,618.64	3,265.65
B070	7,190.96	7,140.96	S 2,840.32	E 1,619.31	3,269.50
B080	7,200.09	7,150.09	S 2,844.35	E 1,619.99	3,273.33
B090	7,209.22	7,159.22	S 2,848.37	E 1,620.66	3,277.15
B100	7,218.36	7,168.36	S 2,852.37	E 1,621.33	3,280.96
B110	7,227.51	7,177.51	S 2,856.36	E 1,621.99	3,284.76
B120	7,236.66	7,186.66	S 2,860.33	E 1,622.66	3,288.55
B130	7,245.82	7,195.82	S 2,864.29	E 1,623.32	3,292.32
B140	7,254.98	7,204.98	S 2,868.24	E 1,623.98	3,296.08
* B150	7,264.15	7,214.15	S 2,872.17	E 1,624.64	3,299.82 *
B160	7,273.33	7,223.33	S 2,876.10	E 1,625.29	3,303.56
B170	7,282.51	7,232.51	S 2,880.01	E 1,625.94	3,307.29
* B176	7,288.02	7,238.02	S 2,882.36	E 1,626.33	3,309.52 *

DIRECTIONAL SURVEY FOR WELL LD6-20
RAW DATA

THE CONDUCTOR IS VERTICAL

No.	MEASURED DEPTH	DEVIATION ANGLE	ORIENTATION
1	501	0.25	N - 17.50 - E
2	542	2.25	S - 70.00 - E
3	592	3.25	S - 75.00 - E
4	652	6.00	S - 66.00 - E
5	682	7.50	S - 60.00 - E
6	742	11.00	S - 63.00 - E
7	882	9.00	S - 87.00 - E
8	1002	10.00	S - 84.50 - E
9	1155	14.50	S - 81.50 - E
10	1250	15.25	S - 88.00 - E
11	1294	15.25	S - 78.00 - E
12	1356	15.25	S - 73.00 - E
13	1389	15.50	S - 66.50 - E
14	1421	16.00	S - 64.00 - E
15	1564	18.00	S - 52.00 - E
16	1722	17.75	S - 46.50 - E
17	1817	20.00	S - 49.00 - E
18	1943	21.25	S - 47.00 - E
19	2076	23.00	S - 46.50 - E
20	2190	23.75	S - 42.50 - E
21	2315	25.75	S - 44.50 - E
22	2409	26.25	S - 44.50 - E
23	2562	28.00	S - 42.50 - E
24	2719	31.25	S - 41.00 - E
25	2815	32.75	S - 40.50 - E
26	2907	35.00	S - 40.00 - E
27	3042	35.25	S - 41.00 - E
28	3259	34.75	S - 40.00 - E
29	3475	34.25	S - 36.50 - E
30	3724	32.75	S - 34.00 - E
31	3943	32.75	S - 35.00 - E
32	4192	31.75	S - 31.50 - E
33	4439	31.50	S - 31.00 - E
34	4757	30.75	S - 29.50 - E
35	5005	30.25	S - 26.50 - E
36	5281	29.00	S - 26.50 - E
37	5420	28.75	S - 26.00 - E
38	5574	29.75	S - 25.50 - E
39	5711	28.50	S - 19.50 - E
40	5865	29.00	S - 21.50 - E
41	6017	29.25	S - 19.50 - E
42	6172	29.75	S - 19.00 - E
43	6421	30.75	S - 15.00 - E
44	6632	30.75	S - 15.00 - E
45	6791	31.75	S - 14.00 - E
46	7038	30.00	S - 12.00 - E
47	7408	30.00	S - 11.00 - E
48	8150	23.50	S - 9.50 - E
49	8176	23.35	S - 9.43 - E