

A Gyrodata Directional Survey

for

CELERO ENERGY

Lease: P.D. Pope 36 Well: #10, 5" Drillpipe
Location: Pinpoint #12, Lea County, New Mexico

HOBBS OCD

OCT 12 2011

RECEIVED

Job Number: MD0311GDM222

Run Date: 13 Apr 2011

Surveyor: Jared Canon, Will Skelton

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Well Plan/Plot

Survey Latitude: 33.067075 deg. N Longitude: 103.158562 deg. E

Azimuth Correction:

Gyro: -0.64000 deg to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Local Horizontal Reference

30-025-39999
D-36-145-372
350/N @ 990/c
ELG 11-21-2011

NOV 21 2011

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MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST: AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	N 0 0 E	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 - 11550.67 FT RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PINPOINT RIG #12 RKB HEIGHT OF 18 FT							
155.00	0.28	89.95	N 89 57 E	0.18	155.00	0.4 90.0	0.00 N 0.38 E
255.00	0.35	116.27	S 63 44 E	0.16	255.00	0.9 98.5	0.13 S 0.90 E
355.00	0.39	133.14	S 46 52 E	0.12	355.00	1.5 109.5	0.50 S 1.42 E
455.00	0.44	144.73	S 35 16 E	0.10	454.99	2.2 119.0	1.05 S 1.89 E
611.40	0.56	148.21	S 31 47 E	0.08	611.39	3.4 129.7	2.19 S 2.64 E
706.30	0.52	153.03	S 26 58 E	0.06	706.28	4.3 133.9	2.97 S 3.08 E
801.80	0.44	164.28	S 15 43 E	0.13	801.78	5.0 137.7	3.71 S 3.37 E
896.20	0.44	171.41	S 8 35 E	0.06	896.18	5.6 141.4	4.41 S 3.53 E
991.90	0.32	158.42	S 21 35 E	0.15	991.87	6.2 143.8	5.03 S 3.68 E
1087.30	0.27	129.34	S 50 40 E	0.16	1087.27	6.7 143.9	5.42 S 3.95 E
1181.30	0.21	126.91	S 53 5 E	0.06	1181.27	7.1 143.0	5.66 S 4.26 E
1276.20	0.18	132.64	S 47 22 E	0.04	1276.17	7.4 142.4	5.86 S 4.51 E
1371.60	0.09	144.20	S 35 48 E	0.10	1371.57	7.6 142.3	6.03 S 4.66 E
1467.10	0.18	303.68	N 56 19 W	0.28	1467.07	7.6 142.7	6.00 S 4.58 E
1562.20	0.25	211.09	S 31 5 W	0.33	1562.17	7.5 144.5	6.10 S 4.35 E
1657.80	0.37	187.80	S 7 48 W	0.18	1657.77	7.8 147.5	6.58 S 4.20 E
1753.20	0.40	186.46	S 6 28 W	0.03	1753.17	8.3 150.3	7.22 S 4.12 E
1848.10	0.28	184.73	S 4 44 W	0.13	1848.07	8.8 152.4	7.78 S 4.07 E
1943.40	0.28	188.20	S 8 12 W	0.02	1943.37	9.2 154.0	8.24 S 4.01 E
2038.80	0.33	168.56	S 11 26 E	0.12	2038.76	9.6 155.2	8.74 S 4.03 E

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2133.90	0.26	169.82	S 10 11 E	0.07	2133.86	10.1 155.9	9.22 S 4.13 E
2229.40	0.21	172.60	S 7 24 E	0.05	2229.36	10.5 156.5	9.61 S 4.19 E
2324.50	0.09	190.92	S 10 55 W	0.13	2324.46	10.7 156.9	9.86 S 4.20 E
2420.00	0.13	221.67	S 41 40 W	0.07	2419.96	10.8 157.7	10.01 S 4.11 E
2514.30	0.10	257.00	S 77 0 W	0.08	2514.26	10.9 158.6	10.11 S 3.96 E
2609.70	0.19	275.11	N 84 53 W	0.10	2609.66	10.8 159.8	10.11 S 3.72 E
2705.20	0.29	276.61	N 83 23 W	0.10	2705.16	10.6 161.7	10.07 S 3.32 E
2800.50	0.30	297.38	N 62 37 W	0.11	2800.46	10.3 163.9	9.93 S 2.86 E
2895.60	0.33	305.46	N 54 32 W	0.06	2895.56	10.0 165.9	9.66 S 2.42 E
2991.10	0.35	320.65	N 39 21 W	0.10	2991.06	9.5 167.8	9.27 S 2.01 E
3085.90	0.34	324.92	N 35 5 W	0.03	3085.85	9.0 169.3	8.82 S 1.66 E
3180.80	0.31	332.52	N 27 29 W	0.06	3180.75	8.5 170.6	8.36 S 1.38 E
3276.00	0.13	332.57	N 27 26 W	0.19	3275.95	8.1 171.4	8.03 S 1.21 E
3371.10	0.13	342.64	N 17 22 W	0.02	3371.05	7.9 171.8	7.84 S 1.13 E
3465.90	0.17	356.83	N 3 10 W	0.06	3465.85	7.7 171.8	7.59 S 1.09 E
3561.30	0.25	22.68	N 22 41 E	0.13	3561.25	7.4 170.9	7.26 S 1.16 E
3657.00	0.22	32.51	N 32 31 E	0.05	3656.95	7.0 169.0	6.91 S 1.34 E
3751.00	0.12	350.69	N 9 19 W	0.16	3750.95	6.8 167.9	6.66 S 1.42 E
3846.10	0.40	281.14	N 78 52 W	0.39	3846.05	6.6 170.5	6.50 S 1.08 E
3941.30	0.60	264.60	S 84 36 W	0.26	3941.24	6.5 177.7	6.48 S 0.26 E
4036.30	0.52	262.00	S 82 0 W	0.09	4036.24	6.6 185.7	6.59 S 0.66 W
4131.00	0.37	269.09	S 89 5 W	0.17	4130.94	6.8 191.8	6.65 S 1.39 W
4226.60	0.30	265.77	S 85 46 W	0.08	4226.54	7.0 196.3	6.68 S 1.95 W
4321.20	0.19	232.76	S 52 46 W	0.18	4321.13	7.2 198.9	6.79 S 2.32 W

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4416.80	0.53	168.61	S 11 23 E	0.50	4416.73	7.7 197.9	7.32 S 2.36 W
4511.90	0.49	159.50	S 20 30 E	0.09	4511.83	8.4 194.7	8.13 S 2.13 W
4606.90	0.36	141.35	S 38 39 E	0.20	4606.83	8.9 191.7	8.75 S 1.80 W
4701.90	0.38	117.95	S 62 3 E	0.16	4701.82	9.2 188.3	9.13 S 1.34 W
4797.20	0.25	99.30	S 80 42 E	0.17	4797.12	9.3 185.2	9.31 S 0.85 W
4892.70	0.28	97.75	S 82 15 E	0.03	4892.62	9.4 182.6	9.37 S 0.42 W
4988.00	0.15	113.30	S 66 42 E	0.15	4987.92	9.5 180.4	9.45 S 0.07 W
5083.70	0.14	141.14	S 38 52 E	0.07	5083.62	9.6 179.3	9.59 S 0.12 E
5178.80	0.07	192.52	S 12 31 W	0.12	5178.72	9.7 179.0	9.74 S 0.18 E
5273.80	0.15	242.11	S 62 7 W	0.12	5273.72	9.9 179.7	9.86 S 0.05 E
5369.10	0.29	230.73	S 50 44 W	0.15	5369.02	10.1 181.4	10.07 S 0.24 W
5464.60	0.26	199.53	S 19 32 W	0.16	5464.52	10.4 182.8	10.42 S 0.50 W
5560.30	0.57	201.23	S 21 14 W	0.32	5560.22	11.1 183.9	11.07 S 0.75 W
5655.80	0.61	201.21	S 21 13 W	0.04	5655.71	12.0 185.3	11.99 S 1.10 W
5750.90	0.48	195.64	S 15 38 W	0.15	5750.81	12.9 186.2	12.85 S 1.39 W
5846.40	0.46	203.64	S 23 38 W	0.07	5846.30	13.7 187.0	13.58 S 1.66 W
5941.30	0.39	187.94	S 7 56 W	0.14	5941.20	14.4 187.4	14.25 S 1.85 W
6036.80	0.39	177.28	S 2 43 E	0.08	6036.70	15.0 187.2	14.90 S 1.88 W
6132.30	0.28	155.08	S 24 55 E	0.18	6132.20	15.5 186.5	15.43 S 1.77 W
6226.90	0.20	113.83	S 66 10 E	0.20	6226.80	15.8 185.5	15.71 S 1.52 W
6321.50	0.25	103.86	S 76 8 E	0.07	6321.40	15.9 184.2	15.83 S 1.17 W
6417.20	0.05	31.42	N 31 25 E	0.25	6417.10	15.9 183.4	15.84 S 0.94 W
6509.60	0.22	354.92	N 5 5 W	0.20	6509.50	15.7 183.4	15.63 S 0.94 W
6604.30	0.42	351.99	N 8 1 W	0.21	6604.19	15.1 183.8	15.10 S 1.00 W

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6699.50	0.37	336.95	N 23 3 W	0.12	6699.39	14.5 184.6	14.48 S 1.17 W
6794.90	0.34	320.56	N 39 26 W	0.11	6794.79	14.1 186.0	13.97 S 1.47 W
6890.20	0.30	321.62	N 38 23 W	0.04	6890.09	13.7 187.6	13.56 S 1.81 W
6985.60	0.26	304.76	N 55 14 W	0.10	6985.49	13.4 189.2	13.24 S 2.14 W
7081.00	0.26	280.24	N 79 46 W	0.12	7080.89	13.3 191.0	13.08 S 2.53 W
7176.00	0.18	261.37	S 81 22 W	0.11	7175.89	13.4 192.5	13.06 S 2.89 W
7270.00	0.18	249.54	S 69 32 W	0.04	7269.88	13.5 193.6	13.14 S 3.18 W
7365.30	0.32	246.73	S 66 44 W	0.15	7365.18	13.8 195.0	13.29 S 3.56 W
7460.50	0.46	259.85	S 79 51 W	0.17	7460.38	14.1 197.2	13.47 S 4.18 W
7555.90	0.48	259.73	S 79 44 W	0.02	7555.78	14.5 200.0	13.61 S 4.95 W
7651.60	0.40	257.88	S 77 53 W	0.08	7651.48	14.9 202.4	13.75 S 5.67 W
7745.80	0.43	275.52	N 84 29 W	0.14	7745.67	15.2 204.7	13.78 S 6.35 W
7840.20	0.32	285.66	N 74 20 W	0.14	7840.07	15.3 206.9	13.68 S 6.95 W
7935.70	0.30	314.22	N 45 47 W	0.16	7935.57	15.3 208.8	13.43 S 7.39 W
8030.90	0.33	351.64	N 8 22 W	0.21	8030.77	15.0 210.4	12.99 S 7.61 W
8125.20	0.78	5.55	N 5 33 E	0.49	8125.06	14.3 212.1	12.08 S 7.58 W
8220.60	0.93	9.24	N 9 14 E	0.17	8220.45	13.0 214.7	10.67 S 7.40 W
8316.00	1.11	9.92	N 9 55 E	0.19	8315.84	11.5 218.3	8.99 S 7.11 W
8411.50	0.97	351.29	N 8 43 W	0.38	8411.32	10.2 224.2	7.28 S 7.08 W
8507.00	1.33	337.67	N 22 20 W	0.47	8506.80	9.4 234.4	5.46 S 7.62 W
8600.40	1.23	336.58	N 23 25 W	0.11	8600.18	9.1 247.2	3.54 S 8.43 W
8695.80	1.10	333.80	N 26 12 W	0.15	8695.56	9.4 259.1	1.77 S 9.24 W
8791.20	0.93	335.37	N 24 38 W	0.18	8790.95	10.0 268.6	0.25 S 9.97 W
8885.70	0.92	332.16	N 27 50 W	0.06	8885.43	10.7 276.0	1.12 N 10.64 W

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8981.10	0.76	323.23	N 36 46 W	0.22	8980.82	11.6 281.4	2.30 N 11.38 W
9076.50	0.83	305.23	N 54 46 W	0.27	9076.21	12.7 284.6	3.21 N 12.32 W
9172.00	0.84	296.64	N 63 22 W	0.13	9171.70	14.1 286.2	3.92 N 13.51 W
9267.50	0.79	295.74	N 64 16 W	0.05	9267.19	15.4 287.1	4.52 N 14.73 W
9362.90	0.82	299.61	N 60 23 W	0.07	9362.58	16.7 287.9	5.14 N 15.92 W
9458.10	0.90	294.49	N 65 31 W	0.12	9457.77	18.1 288.6	5.79 N 17.19 W
9553.50	0.80	293.28	N 66 43 W	0.11	9553.16	19.5 289.0	6.36 N 18.48 W
9649.10	0.66	281.68	N 78 19 W	0.21	9648.76	20.8 288.9	6.74 N 19.64 W
9744.20	0.58	265.19	S 85 11 W	0.20	9743.85	21.7 288.2	6.81 N 20.65 W
9839.90	0.79	249.82	S 69 49 W	0.29	9839.54	22.7 286.7	6.54 N 21.75 W
9935.20	0.61	243.84	S 63 50 W	0.20	9934.84	23.6 284.9	6.09 N 22.83 W
10031.00	1.50	227.12	S 47 17 W	0.97	10030.62	24.7 281.7	5.01 N 24.20 W
10125.30	1.32	223.86	S 43 52 W	0.21	10124.89	26.1 277.5	3.39 N 25.86 W
10220.70	2.16	213.78	S 33 47 W	0.93	10220.25	27.6 272.3	1.10 N 27.62 W
10316.20	1.96	238.24	S 58 14 W	0.94	10315.69	30.0 267.6	1.25 S 30.01 W
10411.90	2.12	219.84	S 39 50 W	0.70	10411.33	32.7 263.9	3.47 S 32.53 W
10507.10	2.09	208.26	S 28 16 W	0.45	10506.46	35.1 259.6	6.35 S 34.48 W
10602.30	2.09	207.78	S 27 47 W	0.02	10601.60	37.3 255.4	9.42 S 36.12 W
10696.70	2.06	207.43	S 27 26 W	0.03	10695.94	39.7 251.7	12.45 S 37.70 W
10792.20	2.32	217.33	S 37 20 W	0.48	10791.37	42.6 248.6	15.51 S 39.66 W
10887.80	2.39	224.09	S 44 5 W	0.30	10886.89	46.1 246.4	18.48 S 42.22 W
10982.80	0.80	225.35	S 45 21 W	1.67	10981.85	48.6 245.2	20.37 S 44.07 W
11077.20	1.70	56.30	N 56 18 E	2.64	11076.24	47.8 245.2	20.05 S 43.38 W
11170.30	1.24	56.83	N 56 50 E	0.49	11169.31	45.4 245.6	18.74 S 41.38 W

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11265.40	1.54	56.10	N 56 6 E	0.32	11264.38	43.2 246.1	17.46 S 39.46 W
11359.70	1.55	60.56	N 60 34 E	0.13	11358.64	40.6 246.6	16.13 S 37.30 W
11455.00	1.70	65.79	N 65 47 E	0.22	11453.91	37.9 246.9	14.91 S 34.89 W
11550.70	1.48	71.08	N 71 5 E	0.28	11549.57	35.3 246.7	13.93 S 32.42 W

Final Station Closure: Distance: 35.29 ft Az: 246.75 deg.

