

A Gyrodata Directional Survey

for

LCX ENERGY LLC

Lease: 1625 State Com Well: 292, 4 1/2" Xo Drillpipe
Location: Big Dog #2, Eddy County, New Mexico

Job Number: MD0408G_198

Run Date: 22 Apr 2008

Surveyor: Steve Winther

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.896000 deg. N Longitude: 104.513611 deg. W

Azimuth Correction:

Gyro: 0.10000 deg East to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

30.015.3618P

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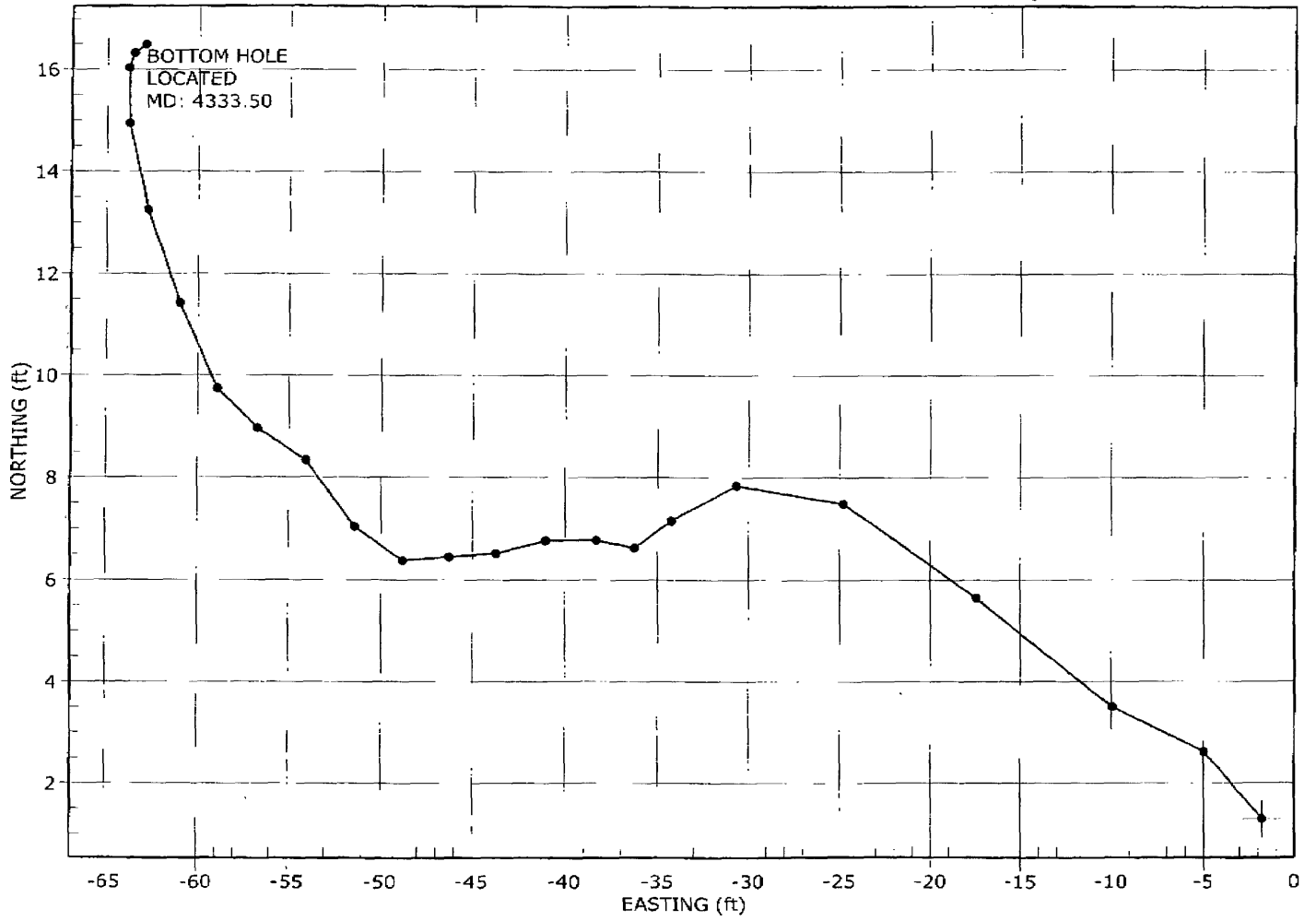
MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	VERTICAL SECTION feet	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
0.00	0.00	0.00	0.0	0.00	0.00	0.0 0.0	0.00 N 0.00 E
0 TO 4333.50 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 4 1/2" OX DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO BIG DOG#2 R.K.B.							
200.00	1.26	306.11	1.3	0.63	199.98	2.2 306.1	1.29 N 1.77 W
400.00	0.80	271.12	2.6	0.38	399.95	5.6 297.8	2.61 N 4.94 W
600.00	2.12	283.44	3.5	0.67	599.88	10.5 289.4	3.50 N 9.94 W
800.00	2.36	288.23	5.7	0.15	799.73	18.3 287.9	5.65 N 17.45 W
1000.00	1.98	279.08	7.5	0.26	999.59	25.9 286.8	7.48 N 24.78 W
1200.00	1.42	265.69	7.8	0.34	1199.50	31.7 284.3	7.84 N 30.66 W
1400.00	0.71	245.75	7.2	0.40	1399.46	35.0 281.8	7.15 N 34.27 W
1600.00	0.49	269.06	6.6	0.16	1599.45	36.9 280.4	6.63 N 36.25 W
1800.00	0.70	277.74	6.8	0.11	1799.44	38.9 280.0	6.78 N 38.32 W
2000.00	0.86	263.18	6.8	0.13	1999.42	41.6 279.4	6.76 N 41.01 W
2200.00	0.70	266.88	6.5	0.08	2199.41	44.2 278.5	6.52 N 43.72 W
2400.00	0.77	269.54	6.4	0.04	2399.39	46.7 277.9	6.44 N 46.28 W
2600.00	0.69	267.30	6.4	0.04	2599.37	49.2 277.4	6.37 N 48.83 W
2800.00	0.89	297.66	7.0	0.23	2799.36	51.9 277.8	7.04 N 51.40 W
3000.00	0.81	294.15	8.3	0.05	2999.33	54.7 278.8	8.34 N 54.06 W
3200.00	0.78	272.22	9.0	0.15	3199.31	57.4 279.0	8.97 N 56.72 W
3372.00	0.84	305.63	9.8	0.27	3371.30	59.7 279.4	9.75 N 58.92 W
3564.30	0.75	313.10	11.4	0.07	3563.58	62.1 280.6	11.43 N 60.99 W
3756.60	0.76	319.38	13.3	0.04	3755.86	64.1 281.9	13.25 N 62.73 W
3948.90	0.44	345.19	14.9	0.21	3948.15	65.5 283.2	14.94 N 63.75 W

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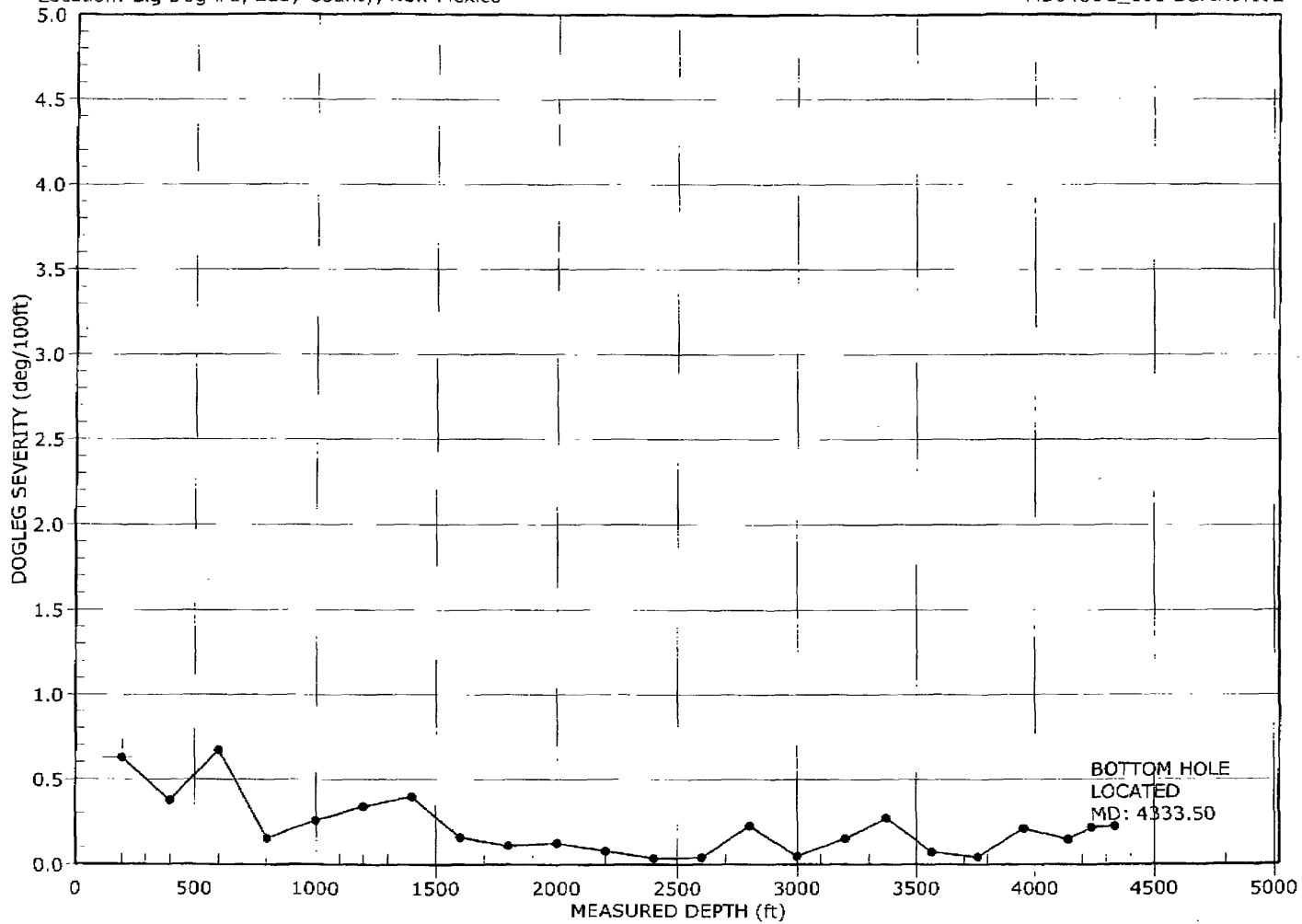
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4141.20	0.24	19.62	16.0	0.15	4140.45	65.8 284.1	16.03 N 63.81 W
4237.35	0.29	64.87	16.3	0.22	4236.60	65.6 284.4	16.32 N 63.52 W
4333.50	0.48	81.05	16.5	0.22	4332.75	65.0 284.7	16.49 N 62.90 W

Final Station Closure: Distance: 65.03 ft Az: 284.69 deg.



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Outrun
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