



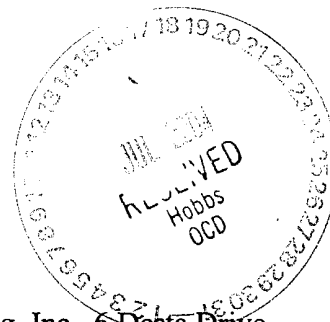
KEY ENERGY DRILLING, INC.
6 Desta Drive
Suite 4400
Midland, Texas 79705
Phone 915-570-0494
Fax 915-570-0465

To: Whom It May Concern:

RE: STATE OF NEW MEXICO
OIL AND GAS DIVISION
INCLINATION REPORT

SUR; G-27-16s-35e, 1729/N & 2377/E
BHL: G-27-16s-35e, 1679/N & 2385/E
API # 30-025-36441

Lease Name: GINSENG 27 STATE COM
Well Number: #1
County/State: LEA COUNTY, NEW MEXICO
Operator: EOG RESOURCES
Address: 4000 BIG SPRING SUITE 500
Address: MIDLAND TX 79702
Location:



I, **CHOYR GILBERT**, Contract Manager for Key Energy Drilling, Inc., 6 Desta Drive, Suite 4400, Midland, TX 79705, declare that I am authorized to make this certification, that I have personal knowledge of the inclination data and facts placed on this form and that such data and facts are true, correct, and complete to the best of my knowledge.

Sworn to and Subscribed Before Me by the said

CHOYR GILBERT
Contract Manager

This the 22ND day of JANUARY, 2004



Signature of Notary Public
In and for the State of Texas

LORETTA J HENDERSON
Print Name of Notary Public

**STATE OF NEW MEXICO
OIL AND GAS DIVISION**

INCLINATION REPORT

FIELD NAME	LEASE NAME GINSENG 27 STATE COM	WELL NUMBER #1
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OPERATOR E.O.G. RESOURCES	COUNTY LEA
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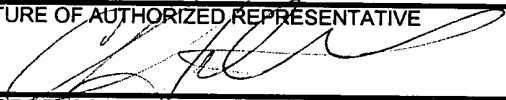
ADDRESS 4000 BIG SPRING, SUITE 500, MIDLAND TX 79702
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LOCATION

RECORD OF INCLINATION

MEASURED DEPTH FEET	COURSE LENGTH HUNDREDS OF FEET	ANGLE OF INCLINATION DEGREE	DISPLACEMENT PER HUNDRED FEET	COURSE DISPLACEMENT FEET	ACCUMULATIVE DISPLACEMENT
497	4.97	1.000	1.75	8.67	8.67
991	4.94	1.500	2.62	12.93	21.61
1491	5.00	1.000	1.75	8.73	30.33
1991	5.00	1.000	1.75	8.73	39.06
2490	4.99	0.500	0.87	4.35	43.41
2991	5.01	0.750	1.31	6.56	49.97
3585	5.94	0.750	1.31	7.78	57.75
3991	4.06	0.750	1.31	5.31	63.06
4491	5.00	1.000	1.75	8.73	71.79
5559	10.68	0.750	1.31	13.98	85.77
6065	5.06	1.500	2.62	13.25	99.01
6547	4.82	0.250	0.44	2.10	101.11
7017	4.70	0.500	0.87	4.10	105.22
7517	5.00	0.500	0.87	4.36	109.58
7956	4.39	0.750	1.31	5.75	115.33
8426	4.70	1.250	2.18	10.25	125.58
8928	5.02	2.000	3.49	17.52	143.10
9146	2.18	1.750	3.05	6.66	149.76
9490	3.44	3.500	6.10	21.00	170.76
9522	0.32	3.250	5.67	1.81	172.57
9616	0.94	3.500	6.10	5.74	178.31
9741	1.25	3.500	6.10	7.63	185.94
9898	1.57	3.000	5.23	8.22	194.16
10309	4.11	2.750	4.80	19.72	213.88
10569	2.60	3.000	5.23	13.61	227.48
11117	5.48	3.500	6.10	33.45	260.94
11461	3.44	3.500	6.10	21.00	281.94
12260	7.99	5.600	9.76	77.97	359.91
12275	0.15	8.200	14.26	2.14	362.05
12545	2.70	19.600	33.55	90.57	452.62
12680	1.35	13.000	22.50	30.37	482.99
12712	0.32	12.600	21.81	6.98	489.97
	-127.12		0.00	0.00	489.97

THIS INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

SIGNATURE OF AUTHORIZED REPRESENTATIVE 	NAME OF COMPANY KEY ENERGY DRILLING, INC.
NAME OF PERSON AND TITLE CHOYR GILBERT - CONTRACT MANAGER	TELEPHONE NUMBER (432) 620-0300

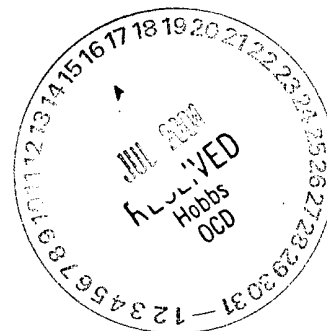


Gyrodata Incorporated
3811 S. Co. Rd. 1285
Odessa, TX. 79765

915/561-8458
Fax: 915/563-7982

SURVEY REPORT
EOG RESOURCES
GINSENG 27 STATE COM. NO.1
KEY # 17
LEA COUNTY, NEW MEXICO
MD1103G_304

NOVEMBER 9, 2003



A Gyrodata Directional Survey

for

EOG RESOURCES

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe
Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

Run Date: 11/9/2003 2:30:00 AM

Surveyor: Mike Martinez Ronny Mayrant

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.895944 deg. N Longitude: 103.444361 deg. W

Azimuth Correction:

Gyro: -0.48000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location

A Gyrodata Directional Survey

EOG Resources

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

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. feet	AZIMUTH 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 FT TO 10772 FT RATE GYROSCOPIC DROP MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE									
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO KEY #17 R.K.B.									

50.54	0.74	213.13	S 33 8 W	1.47	50.54	0.3	213.1	0.27 S	0.18 W
144.96	0.10	260.12	S 80 7 W	0.72	144.96	1.0	216.5	0.80 S	0.59 W
239.38	0.05	283.25	N 76 45 W	0.06	239.38	1.1	221.5	0.81 S	0.71 W
333.80	0.10	282.45	N 77 33 W	0.05	333.80	1.1	226.9	0.78 S	0.83 W
428.22	0.35	57.67	N 57 40 E	0.45	428.21	0.9	227.8	0.61 S	0.67 W
522.64	0.28	219.05	S 39 3 W	0.65	522.63	0.9	222.1	0.64 S	0.58 W
617.06	0.28	211.12	S 31 7 W	0.04	617.05	1.3	219.7	1.01 S	0.84 W
711.48	0.28	134.20	S 45 48 E	0.37	711.47	1.6	210.1	1.38 S	0.80 W
805.90	0.61	208.50	S 28 30 W	0.63	805.89	2.2	203.7	1.98 S	0.87 W
900.32	0.86	209.72	S 29 43 W	0.26	900.30	3.4	205.7	3.03 S	1.46 W
994.74	0.54	218.50	S 38 30 W	0.35	994.72	4.5	207.6	4.00 S	2.09 W
1089.16	0.54	218.24	S 38 14 W	0.00	1089.13	5.4	209.4	4.70 S	2.64 W
1183.58	0.94	239.40	S 59 24 W	0.50	1183.54	6.5	213.4	5.44 S	3.58 W
1278.00	1.07	222.17	S 42 11 W	0.35	1277.95	8.1	216.7	6.48 S	4.84 W
1372.42	0.97	236.31	S 56 19 W	0.28	1372.35	9.7	218.8	7.58 S	6.09 W
1466.84	0.88	237.91	S 57 55 W	0.10	1466.76	11.2	221.3	8.41 S	7.38 W
1561.26	0.88	238.71	S 58 43 W	0.01	1561.17	12.6	223.2	9.18 S	8.62 W
1655.68	0.87	238.15	S 58 9 W	0.02	1655.58	14.0	224.8	9.93 S	9.85 W
1750.10	0.89	237.52	S 57 31 W	0.02	1749.99	15.4	226.0	10.71 S	11.08 W
1844.52	0.89	237.33	S 57 20 W	0.00	1844.40	16.9	227.0	11.50 S	12.32 W

A Gyrodata Directional Survey

EOG Resources

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

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. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
1938.94	0.86	250.90	S 70 54 W	0.22	1938.81	18.2	228.3	12.13 S 13.61 W
2033.36	0.86	239.28	S 59 17 W	0.18	2033.22	19.6	229.5	12.73 S 14.89 W
2127.78	0.86	239.08	S 59 5 W	0.00	2127.62	21.0	230.1	13.45 S 16.11 W
2222.20	0.86	239.52	S 59 31 W	0.01	2222.03	22.4	230.7	14.17 S 17.33 W
2316.62	0.81	247.11	S 67 7 W	0.13	2316.44	23.7	231.4	14.79 S 18.55 W
2411.04	0.85	246.14	S 66 8 W	0.05	2410.85	25.0	232.3	15.33 S 19.81 W
2505.46	0.84	202.87	S 22 52 W	0.66	2505.26	26.3	231.9	16.26 S 20.72 W
2599.88	0.79	221.75	S 41 45 W	0.29	2599.68	27.6	230.9	17.38 S 21.42 W
2694.30	0.68	249.14	S 69 8 W	0.38	2694.09	28.8	231.1	18.06 S 22.37 W
2788.72	0.65	228.80	S 48 48 W	0.25	2788.50	29.8	231.4	18.61 S 23.30 W
2883.14	0.70	241.36	S 61 22 W	0.17	2882.91	30.9	231.5	19.24 S 24.21 W
2977.56	0.46	243.90	S 63 54 W	0.26	2977.33	31.9	231.8	19.68 S 25.05 W
3071.98	0.21	250.79	S 70 47 W	0.26	3071.75	32.4	232.1	19.91 S 25.55 W
3166.40	0.16	222.15	S 42 9 W	0.11	3166.17	32.7	232.1	20.06 S 25.80 W
3260.82	0.14	171.52	S 8 29 E	0.14	3260.59	32.9	231.9	20.27 S 25.87 W
3355.24	0.13	136.56	S 43 26 E	0.09	3355.01	32.9	231.6	20.46 S 25.78 W
3449.66	0.27	114.88	S 65 7 E	0.16	3449.43	32.8	231.0	20.64 S 25.50 W
3544.08	0.29	106.00	S 74 0 E	0.05	3543.85	32.6	230.3	20.79 S 25.08 W
3638.50	0.40	98.60	S 81 24 E	0.12	3638.26	32.2	229.6	20.91 S 24.53 W
3732.92	0.50	114.25	S 65 45 E	0.17	3732.68	31.8	228.4	21.12 S 23.83 W
3827.34	0.67	84.63	N 84 38 E	0.36	3827.10	31.2	227.2	21.24 S 22.91 W
3921.76	0.79	73.37	N 73 22 E	0.20	3921.51	30.2	226.0	21.00 S 21.75 W
4016.18	0.84	90.78	S 89 13 E	0.27	4015.92	29.2	224.5	20.83 S 20.43 W
4110.60	0.88	101.82	S 78 11 E	0.18	4110.33	28.3	222.2	20.99 S 19.03 W

A Gyrodata Directional Survey

EOG Resources

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

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
4205.02	0.92	84.63	N 84 38 E	0.29	4204.74	27.4 219.8	21.06 S 17.57 W
4299.44	0.98	76.95	N 76 57 E	0.15	4299.14	26.3 217.6	20.81 S 16.03 W
4393.86	0.94	85.45	N 85 27 E	0.16	4393.55	25.1 215.1	20.57 S 14.46 W
4488.28	0.94	83.22	N 83 13 E	0.04	4487.96	24.2 212.3	20.41 S 12.92 W
4677.12	0.94	86.15	N 86 9 E	0.03	4676.77	22.4 206.0	20.13 S 9.83 W
4771.54	1.00	86.90	N 86 54 E	0.07	4771.18	21.7 202.3	20.03 S 8.23 W
4865.96	1.10	81.53	N 81 32 E	0.14	4865.58	20.9 198.2	19.85 S 6.52 W
4960.38	1.04	89.27	N 89 16 E	0.16	4959.99	20.3 193.6	19.71 S 4.77 W
5054.80	1.02	91.05	S 88 57 E	0.04	5054.39	20.0 188.9	19.71 S 3.07 W
5149.22	1.11	88.84	N 88 51 E	0.10	5148.80	19.8 183.8	19.71 S 1.32 W
5243.64	1.10	83.42	N 83 25 E	0.11	5243.20	19.6 178.5	19.59 S 0.50 E
5338.06	1.08	65.57	N 65 34 E	0.36	5337.60	19.2 173.4	19.11 S 2.21 E
5432.48	1.08	77.14	N 77 8 E	0.23	5432.00	19.0 168.2	18.55 S 3.89 E
5526.90	1.06	78.03	N 78 2 E	0.03	5526.41	19.0 162.9	18.17 S 5.60 E
5621.32	0.90	79.74	N 79 44 E	0.17	5620.81	19.3 158.1	17.86 S 7.19 E
5715.74	1.02	85.37	N 85 22 E	0.16	5715.22	19.7 153.6	17.66 S 8.75 E
5810.16	0.92	99.08	S 80 55 E	0.26	5809.63	20.5 149.7	17.71 S 10.34 E
5904.58	0.93	84.23	N 84 14 E	0.25	5904.04	21.3 146.3	17.75 S 11.85 E
5999.00	1.05	87.18	N 87 11 E	0.14	5998.44	22.2 142.6	17.64 S 13.47 E
6093.42	1.17	91.48	S 88 31 E	0.16	6092.84	23.3 139.0	17.62 S 15.29 E
6187.84	1.15	89.57	N 89 34 E	0.05	6187.24	24.6 135.7	17.64 S 17.20 E
6282.26	1.14	91.12	S 88 53 E	0.03	6281.65	26.0 132.8	17.65 S 19.08 E
6376.68	1.11	94.27	S 85 44 E	0.07	6376.05	27.4 130.3	17.73 S 20.93 E
6471.10	1.12	91.40	S 88 36 E	0.06	6470.45	28.9 128.1	17.82 S 22.77 E

A Gyrodata Directional Survey

EOG Resources

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

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
6565.52	1.16	73.56	N 73 34 E	0.38	6564.85	30.2 125.5	17.58 S 24.61 E
6659.94	1.01	100.90	S 79 6 E	0.56	6659.26	31.6 123.5	17.46 S 26.34 E
6754.36	0.90	78.09	N 78 5 E	0.42	6753.66	32.9 122.1	17.47 S 27.88 E
6848.78	0.90	107.69	S 72 19 E	0.49	6848.07	34.2 120.9	17.54 S 29.31 E
6943.20	0.87	110.32	S 69 41 E	0.05	6942.48	35.6 120.4	18.02 S 30.69 E
7037.62	0.82	117.35	S 62 39 E	0.12	7036.89	37.0 120.2	18.58 S 31.96 E
7132.04	0.52	116.07	S 63 56 E	0.32	7131.30	38.1 120.1	19.07 S 32.94 E
7226.46	0.57	159.02	S 20 59 E	0.43	7225.72	38.9 120.5	19.70 S 33.49 E
7320.88	0.60	137.74	S 42 16 E	0.23	7320.13	39.7 121.1	20.51 S 33.99 E
7415.30	0.53	114.19	S 65 49 E	0.25	7414.55	40.6 121.2	21.05 S 34.72 E
7509.72	0.52	136.89	S 43 7 E	0.22	7508.97	41.5 121.3	21.54 S 35.42 E
7604.14	0.57	135.16	S 44 50 E	0.06	7603.38	42.3 121.6	22.19 S 36.04 E
7698.56	0.60	156.80	S 23 12 E	0.23	7697.80	43.2 122.1	22.98 S 36.57 E
7792.98	0.59	132.28	S 47 43 E	0.27	7792.21	44.1 122.6	23.76 S 37.12 E
7887.40	0.70	70.23	N 70 14 E	0.71	7886.63	44.9 122.1	23.89 S 38.02 E
7981.82	0.77	114.51	S 65 30 E	0.59	7981.04	45.9 121.5	23.96 S 39.14 E
8076.24	0.91	113.61	S 66 23 E	0.14	8075.45	47.3 121.3	24.52 S 40.41 E
8170.66	0.88	114.65	S 65 21 E	0.03	8169.86	48.7 121.0	25.12 S 41.75 E
8265.08	1.03	111.73	S 68 16 E	0.17	8264.27	50.3 120.8	25.74 S 43.21 E
8359.50	1.17	121.58	S 58 26 E	0.24	8358.67	52.1 120.7	26.56 S 44.81 E
8453.92	1.12	147.04	S 32 58 E	0.53	8453.07	53.9 121.1	27.84 S 46.13 E
8548.34	1.09	110.15	S 69 51 E	0.74	8547.47	55.6 121.3	28.92 S 47.48 E
8642.76	1.03	108.41	S 71 35 E	0.07	8641.88	57.3 121.0	29.49 S 49.12 E
8737.18	1.15	119.14	S 60 52 E	0.25	8736.28	59.1 120.8	30.22 S 50.76 E

A Gyrodata Directional Survey

EOG Resources

Well: Ginseng 27 State Com. No.1, 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Job Number: MD1103G_304

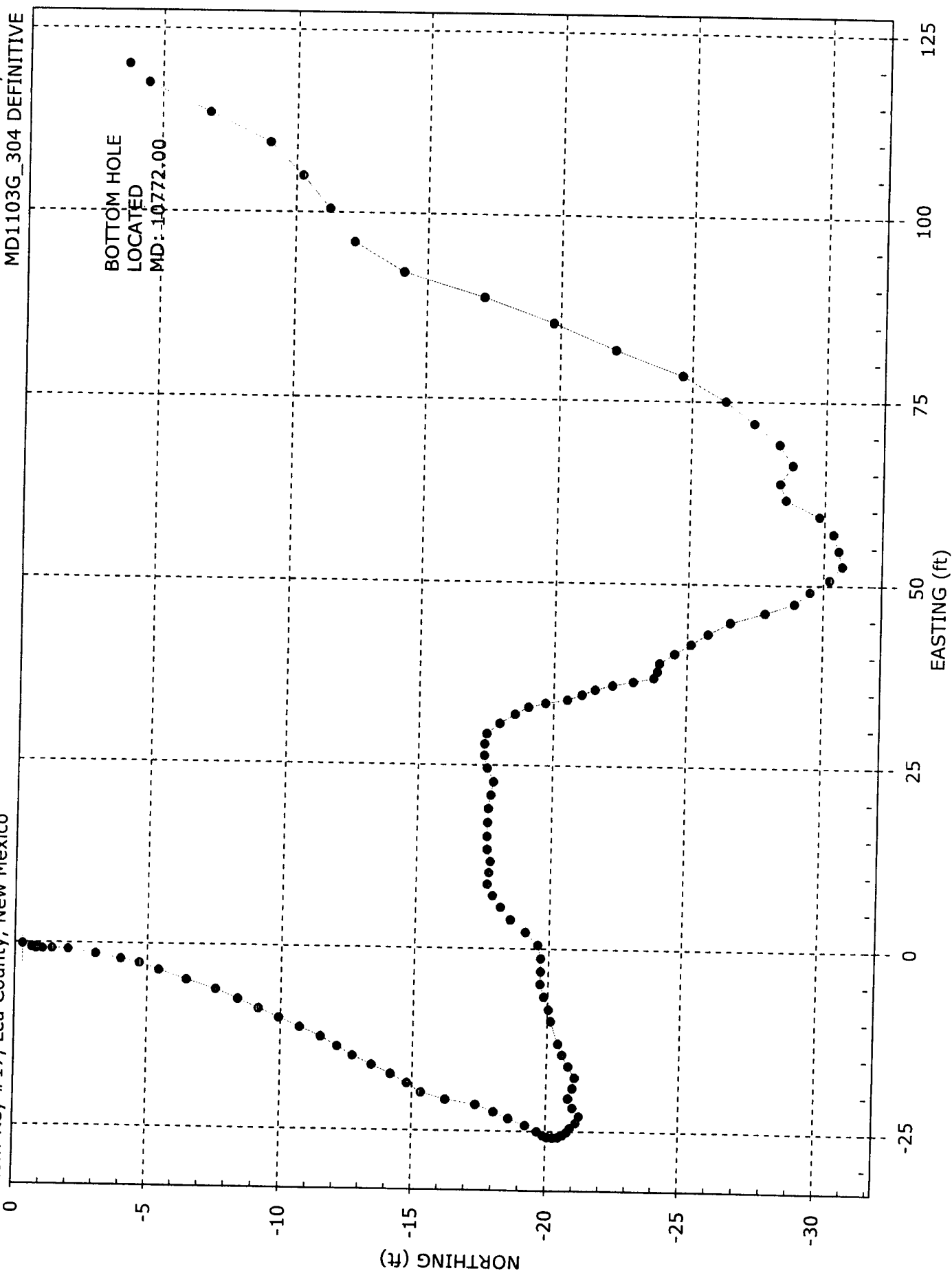
MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet	
8831.60	1.26	90.50	S 89 30 E	0.64	8830.68	60.9	120.3	30.69 S	52.63 E
8926.02	1.33	82.09	N 82 6 E	0.21	8925.08	62.7	119.2	30.55 S	54.75 E
9020.44	1.40	86.98	N 86 59 E	0.14	9019.47	64.6	118.0	30.34 S	56.98 E
9114.86	1.54	67.55	N 67 33 E	0.55	9113.86	66.4	116.7	29.80 S	59.30 E
9209.28	1.60	53.78	N 53 47 E	0.40	9208.24	67.8	114.9	28.53 S	61.54 E
9303.70	1.56	115.45	S 64 33 E	1.72	9302.63	69.8	113.9	28.31 S	63.77 E
9398.12	1.66	85.69	N 85 41 E	0.88	9397.02	72.3	113.5	28.76 S	66.30 E
9492.54	1.86	75.09	N 75 6 E	0.41	9491.39	74.7	112.2	28.26 S	69.15 E
9586.96	1.82	68.22	N 68 13 E	0.24	9585.77	77.0	110.8	27.31 S	72.02 E
9681.38	2.09	72.59	N 72 35 E	0.32	9680.13	79.5	109.3	26.24 S	75.06 E
9775.80	2.49	57.98	N 57 59 E	0.75	9774.48	82.2	107.4	24.64 S	78.44 E
9870.22	2.64	48.25	N 48 15 E	0.49	9868.80	84.7	105.1	22.10 S	81.80 E
9964.64	2.60	64.71	N 64 43 E	0.80	9963.12	87.6	103.0	19.74 S	85.36 E
10059.06	2.68	40.90	N 40 54 E	1.16	10057.45	90.4	100.9	17.15 S	88.74 E
10153.48	2.71	52.51	N 52 30 E	0.58	10151.76	93.0	98.7	14.12 S	91.96 E
10247.90	2.80	76.53	N 76 32 E	1.22	10246.08	96.7	97.3	12.23 S	95.97 E
10342.32	2.78	79.74	N 79 44 E	0.17	10340.39	101.1	96.4	11.28 S	100.46 E
10436.74	2.86	74.46	N 74 28 E	0.29	10434.69	105.5	95.6	10.24 S	104.98 E
10531.16	2.85	75.30	N 75 18 E	0.04	10528.99	109.9	94.7	9.02 S	109.52 E
10625.58	2.91	47.15	N 47 9 E	1.48	10623.30	113.8	93.4	6.79 S	113.55 E
10720.00	2.91	73.61	N 73 36 E	1.41	10717.60	117.7	92.2	4.49 S	117.61 E
10772.00	2.94	73.29	N 73 18 E	0.05	10769.53	120.2	91.8	3.73 S	120.15 E

Final Station Closure: Distance: 120.21 ft Az: 91.78 deg.

EOG Resources

Well: Ginseng 27 State Com. No.1 4-1/2" Drillpipe
Location: Key #17, Lea County, New Mexico

MD1103G_304 DEFINITIVE
Gyrodata
Outrun



EOG Resources

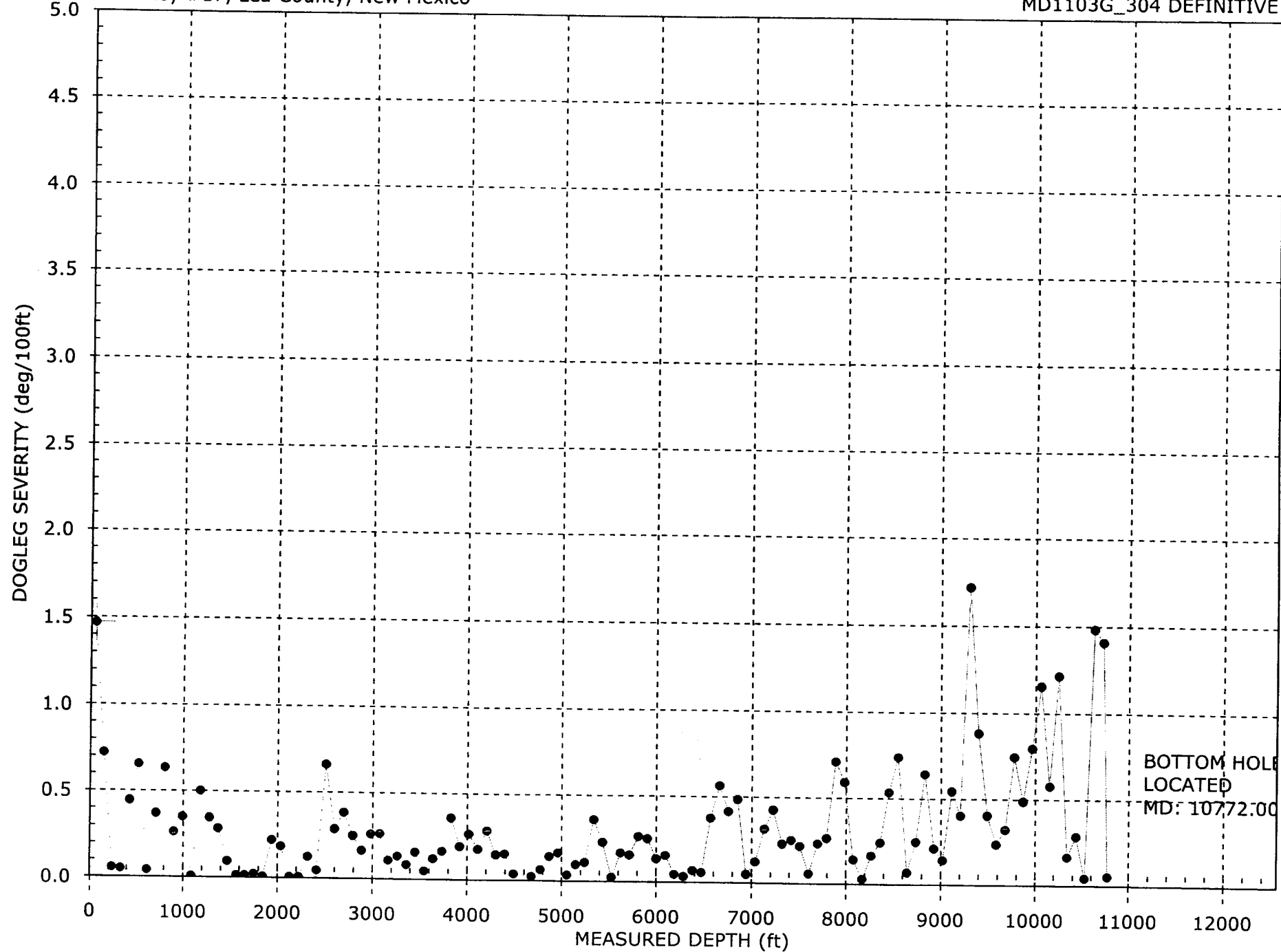
Well: Ginseng 27 State Com. No.1 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Outrun

Gyrodata

MD1103G_304 DEFINITIVE



EOG Resources

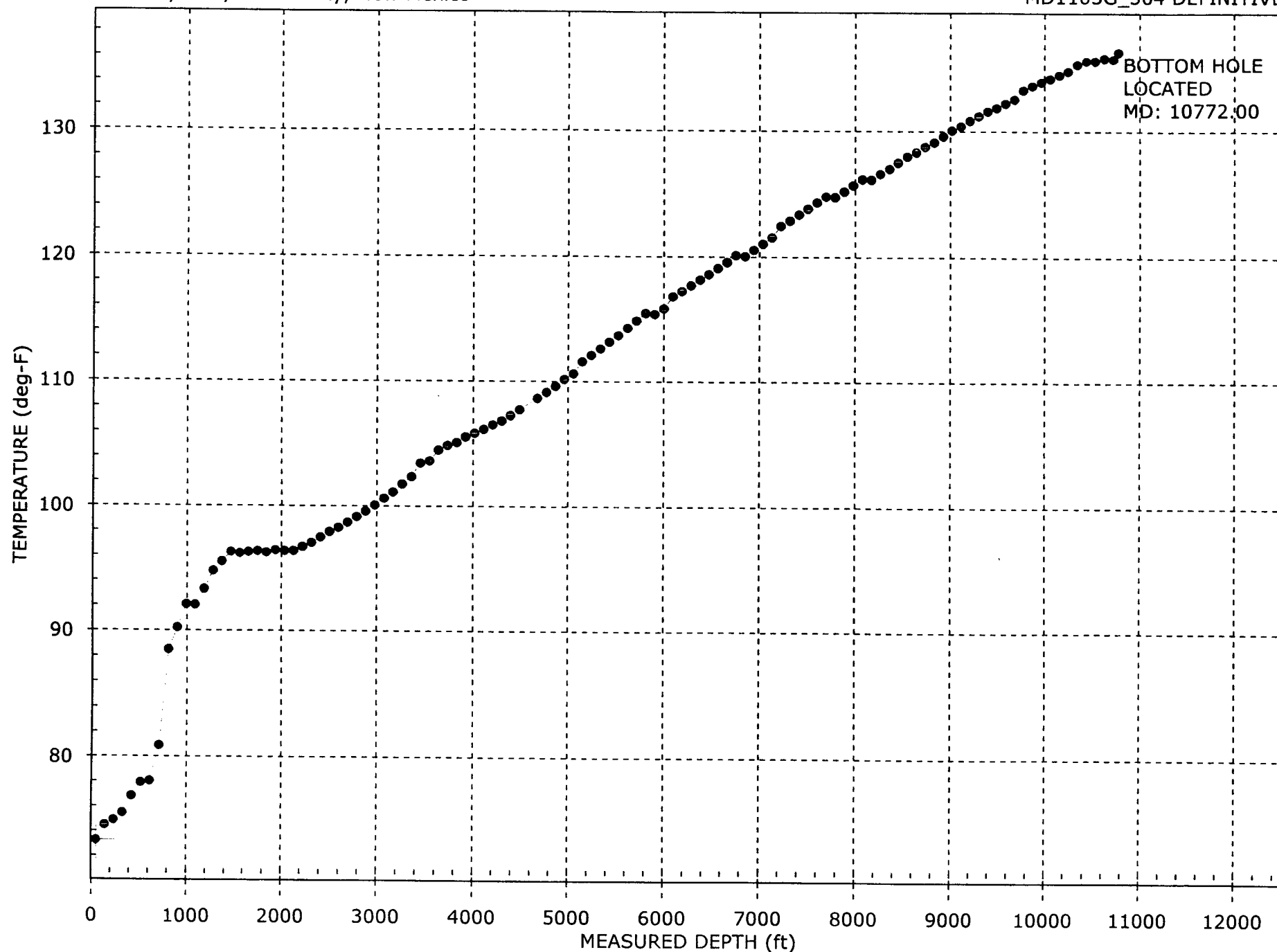
Well: Ginseng 27 State Com. No.1 4-1/2" Drillpipe

Location: Key #17, Lea County, New Mexico

Outrun

Gyrodata

MD1103G_304 DEFINITIVE



SCANNED



MEASUREMENT WHILE DRILLING SERVICES

MWD SURVEY REPORT

MWD Services, Inc.

Report Date : NOVEMBER 28, 2003
 Job Number : 03132B
 Operator : EOG RESOURCES, INC.
 Lease / Well : GINSENG -27- STATE COM #1 S/T 1
 Location : LEA COUNTY, NEW MEXICO
 Field : TOWNSEND
 Contractor / Rig : KEY ENERGY 17
 Directional Company : BLACK VIPER ENERGY SERVICES, LTD.
 MWD Field Rep. : JOE COVINGTON
 Tie In Survey Reference : GYRODATA
 Calculation Method : MINIMUM CURVATURE

Target +N / -S = 51.1'
 Target +E / -W = -9.3'
 Target TVD = 13367.3'
 Magnetic Declination +E / -W = 8.63°
 Grid Convergence +E / -W = 0.48°
 Total Correction +E / -W = 8.15°
 North Reference = Grid
 RKB Height = 18.00'
 Ground Level Elevation =
 Vertical Section Azimuth = 67.32°

Comments :

SURVEY #0 = TIE IN SURVEY

SURVEY #61 = STRAIGHT LINE PROJECTED SURVEY TO BIT DEPTH

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
0	10772.00'	2.94°	73.29°		10769.53'	119.32'	-3.73'	120.15'	120.21'	91.78°	
1	10782.00'	3.10°	78.80°	10'	10779.52'	109.94'	-3.60'	120.66'	120.71'	91.71°	3.31°
2	10877.00'	3.50°	78.90°	95'	10874.36'	115.30'	-2.55'	126.03'	126.05'	91.16°	0.42°
3	10972.00'	3.60°	80.00°	95'	10969.18'	121.05'	-1.47'	131.81'	131.82'	90.64°	0.13°
4	11067.00'	3.70°	80.90°	95'	11063.98'	126.94'	-0.47'	137.77'	137.77'	90.19°	0.12°
5	11162.00'	4.00°	79.30°	95'	11158.77'	133.16'	0.63'	144.06'	144.06'	89.75°	0.34°
6	11257.00'	4.20°	77.70°	95'	11253.53'	139.82'	1.99'	150.71'	150.72'	89.24°	0.24°
7	11352.00'	4.20°	77.40°	95'	11348.27'	146.67'	3.49'	157.50'	157.54'	88.73°	0.02°
8	11447.00'	4.40°	79.80°	95'	11443.00'	153.65'	4.89'	164.49'	164.56'	88.30°	0.28°
9	11542.00'	4.80°	80.90°	95'	11537.70'	161.07'	6.17'	172.00'	172.11'	87.95°	0.43°
10	11637.00'	5.40°	78.80°	95'	11632.32'	169.32'	7.66'	180.31'	180.47'	87.57°	0.66°
11	11732.00'	5.70°	77.70°	95'	11726.88'	178.34'	9.54'	189.30'	189.54'	87.12°	0.34°
12	11796.00'	6.60°	81.00°	64'	11790.51'	185.04'	10.79'	196.04'	196.34'	86.85°	1.51°
13	11849.00'	6.90°	78.70°	53'	11843.14'	191.12'	11.89'	202.17'	202.52'	86.63°	0.76°
14	11879.00'	6.60°	77.80°	30'	11872.93'	194.58'	12.61'	205.62'	206.01'	86.49°	1.06°
15	11911.00'	6.20°	77.80°	32'	11904.73'	198.09'	13.36'	209.11'	209.53'	86.34°	1.25°
16	11943.00'	5.50°	74.20°	32'	11936.56'	201.31'	14.14'	212.27'	212.74'	86.19°	2.47°
17	11974.00'	4.80°	70.80°	31'	11967.44'	204.08'	14.97'	214.93'	215.45'	86.01°	2.46°
18	12006.00'	4.20°	58.10°	32'	11999.34'	206.57'	16.03'	217.19'	217.78'	85.78°	3.62°
19	12038.00'	3.60°	46.30°	32'	12031.27'	208.67'	17.35'	218.91'	219.59'	85.47°	3.12°
20	12070.00'	3.50°	33.40°	32'	12063.21'	210.42'	18.86'	220.17'	220.98'	85.10°	2.51°
21	12101.00'	3.10°	19.00°	31'	12094.16'	211.76'	20.44'	220.97'	221.91'	84.72°	2.96°
22	12133.00'	3.70°	354.60°	32'	12126.10'	212.64'	22.29'	221.15'	222.27'	84.25°	4.85°
23	12165.00'	4.30°	338.70°	32'	12158.02'	212.98'	24.43'	220.62'	221.97'	83.68°	3.92°
24	12197.00'	5.60°	333.20°	32'	12189.90'	212.89'	26.94'	219.48'	221.13'	83.00°	4.32°
25	12228.00'	6.90°	323.90°	31'	12220.72'	212.35'	29.80'	217.70'	219.73'	82.21°	5.30°
26	12260.00'	8.20°	317.60°	32'	12252.44'	211.14'	33.04'	215.03'	217.55'	81.27°	4.81°
27	12292.00'	9.80°	310.80°	32'	12284.05'	209.15'	36.50'	211.43'	214.55'	80.20°	6.00°
28	12324.00'	11.50°	307.20°	32'	12315.50'	206.33'	40.21'	206.82'	210.70'	79.00°	5.70°

Srv. No.	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (deg/100 ')
							+N / -S (ft)	+E / -W (ft)	Distance (ft)	Azimuth (deg)	
29	12356.00'	12.50°	305.60°	32'	12346.80'	202.91'	44.15'	201.47'	206.25'	77.64°	3.29°
30	12387.00'	13.20°	304.10°	31'	12377.02'	199.21'	48.09'	195.81'	201.63'	76.20°	2.50°
31	12419.00'	13.40°	301.40°	32'	12408.16'	195.03'	52.07'	189.62'	196.64'	74.64°	2.04°
32	12451.00'	13.40°	293.90°	32'	12439.29'	190.31'	55.51'	183.06'	191.29'	73.13°	5.43°
33	12482.00'	14.40°	286.10°	31'	12469.39'	184.83'	58.03'	176.07'	185.39'	71.76°	6.84°
34	12501.00'	14.30°	281.60°	19'	12487.80'	181.05'	59.16'	171.50'	181.42'	70.97°	5.89°
35	12554.00'	13.90°	281.30°	53'	12539.20'	170.37'	61.72'	158.85'	170.42'	68.77°	0.77°
36	12586.00'	13.90°	282.40°	32'	12570.26'	164.03'	63.30'	151.33'	164.03'	67.30°	0.83°
37	12617.00'	13.60°	282.70°	31'	12600.37'	158.01'	64.90'	144.14'	158.07'	65.76°	0.99°
38	12649.00'	13.10°	282.20°	32'	12631.51'	151.97'	66.49'	136.92'	152.21'	64.10°	1.60°
39	12680.00'	12.90°	282.00°	31'	12661.71'	146.24'	67.96'	130.10'	146.78'	62.42°	0.66°
40	12712.00'	12.60°	279.30°	32'	12692.93'	140.35'	69.26'	123.16'	141.30'	60.65°	2.08°
41	12744.00'	12.90°	274.20°	32'	12724.14'	134.20'	70.09'	116.16'	135.66'	58.89°	3.64°
42	12775.00'	13.40°	268.30°	31'	12754.33'	127.76'	70.24'	109.11'	129.77'	57.23°	4.62°
43	12807.00'	13.30°	263.60°	32'	12785.46'	120.76'	69.72'	101.75'	123.34'	55.58°	3.40°
44	12839.00'	13.10°	259.30°	32'	12816.62'	113.68'	68.63'	94.53'	116.82'	54.02°	3.13°
45	12871.00'	13.20°	257.30°	32'	12847.78'	106.54'	67.16'	87.40'	110.22'	52.46°	1.46°
46	12903.00'	12.90°	256.80°	32'	12878.95'	99.41'	65.54'	80.36'	103.69'	50.80°	1.00°
47	12934.00'	12.70°	257.10°	31'	12909.18'	92.64'	63.99'	73.67'	97.58'	49.02°	0.68°
48	12966.00'	12.50°	257.40°	32'	12940.41'	85.77'	62.44'	66.86'	91.49'	46.96°	0.66°
49	12998.00'	12.30°	257.80°	32'	12971.66'	79.01'	60.97'	60.15'	85.65'	44.61°	0.68°
50	13030.00'	11.50°	257.00°	32'	13002.98'	72.51'	59.53'	53.71'	80.18'	42.06°	2.55°
51	13061.00'	11.20°	257.40°	31'	13033.37'	66.50'	58.18'	47.76'	75.27'	39.38°	1.00°
52	13093.00'	10.70°	258.20°	32'	13064.79'	60.52'	56.89'	41.82'	70.61'	36.32°	1.63°
53	13125.00'	10.50°	260.40°	32'	13096.24'	54.77'	55.80'	36.04'	66.42'	32.85°	1.41°
54	13155.00'	10.20°	261.90°	30'	13125.75'	49.53'	54.97'	30.71'	62.97'	29.19°	1.34°
55	13187.00'	10.10°	262.60°	32'	13157.25'	44.08'	54.21'	25.12'	59.75'	24.87°	0.50°
56	13218.00'	9.90°	262.50°	31'	13187.78'	38.89'	53.51'	19.79'	57.05'	20.29°	0.65°
57	13250.00'	9.40°	262.80°	32'	13219.33'	33.72'	52.82'	14.47'	54.77'	15.31°	1.57°
58	13282.00'	9.10°	263.60°	32'	13250.91'	28.77'	52.22'	9.36'	53.05'	10.16°	1.02°
59	13313.00'	8.60°	264.30°	31'	13281.54'	24.20'	51.71'	4.62'	51.92'	5.10°	1.65°
60	13345.00'	8.50°	264.10°	32'	13313.19'	19.65'	51.23'	-0.12'	51.23'	359.87°	0.33°
61	13400.00'	8.50°	264.10°	55'	13367.58'	11.86'	50.40'	-8.20'	51.06'	350.75°	0.00°