

Scientific Drilling

MARBOB ENERGY

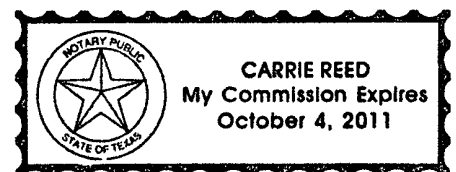
Field: Delaware River
Site: Eddy County, NM
Well: SRO State Unit #1H
Wellpath: VH - Job #32K0709283
Survey: 07/29/09

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*K. Wharton*.....Company Representative

Notorized this date 2nd of September, 2009.

Carrie Reed
Notary Signature
County of Midland
State of Texas



WR



Scientific
Drilling

Scientific Drilling International Survey Report

Company: MARBOB ENERGY Date: 09/01/2009 Time: 15:51:36 Page: 1
Field: Delaware River Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: SRO State Unit #1H Section (VS) Reference: Well (0.00N,0.00E;89.95Azi)
Wellpath: VH - Job #32K0709283 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 07/29/09 Start Date: 07/29/2009
Company: Scientific Drilling Internatio Engineer: Garza/Rowe/Paradez
Tool: Keeper, Keeper Gyro Tied-to: From Surface

Site: Eddy County, NM

Site Position: Northing: ft Latitude:
From: Local Only Easting: ft Longitude:
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 0.00 ft Grid Convergence: deg

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.54	167.07	100.00	0.11	-0.46	0.11	0.54	0.47	167.07
200.00	0.50	145.47	199.99	0.46	-1.28	0.46	0.20	1.36	160.28
300.00	0.53	148.18	299.99	0.95	-2.03	0.95	0.04	2.24	154.94
400.00	0.54	149.20	399.99	1.43	-2.83	1.43	0.01	3.17	153.10
500.00	0.45	138.56	499.98	1.93	-3.53	1.94	0.13	4.02	151.24
600.00	0.72	133.05	599.98	2.65	-4.25	2.65	0.28	5.01	148.01
700.00	0.84	141.79	699.97	3.56	-5.26	3.57	0.17	6.35	145.83
800.00	1.01	144.85	799.95	4.52	-6.55	4.53	0.18	7.96	145.35
900.00	1.29	151.04	899.93	5.57	-8.26	5.58	0.31	9.97	145.95
1000.00	1.29	165.31	999.91	6.40	-10.33	6.41	0.32	12.16	148.18
1100.00	1.39	162.36	1099.88	7.05	-12.58	7.06	0.12	14.42	150.68
1200.00	1.29	143.33	1199.86	8.09	-14.63	8.10	0.45	16.73	151.03
1300.00	1.31	130.87	1299.83	9.63	-16.29	9.64	0.28	18.93	149.38
1400.00	0.92	137.85	1399.81	11.03	-17.63	11.04	0.41	20.80	147.93
1500.00	0.83	119.55	1499.80	12.20	-18.58	12.21	0.29	22.24	146.69
1600.00	0.69	104.73	1599.79	13.41	-19.09	13.42	0.24	23.34	144.89
1700.00	1.30	83.93	1699.78	15.12	-19.12	15.14	0.70	24.39	141.64
1800.00	2.08	71.59	1799.73	17.97	-18.43	17.99	0.86	25.75	135.70
1900.00	1.93	69.57	1899.67	21.27	-17.27	21.29	0.17	27.41	129.06
2000.00	2.09	67.60	1999.61	24.53	-15.99	24.55	0.17	29.30	123.08
2100.00	2.21	72.82	2099.54	28.06	-14.72	28.08	0.23	31.70	117.67
2200.00	2.37	75.05	2199.46	31.90	-13.62	31.92	0.18	34.70	113.11
2300.00	1.92	86.13	2299.39	35.57	-12.97	35.59	0.61	37.88	110.03
2400.00	1.28	90.46	2399.35	38.36	-12.87	38.37	0.65	40.47	108.54
2500.00	1.10	82.19	2499.33	40.43	-12.75	40.44	0.25	42.40	107.50
2600.00	1.14	83.54	2599.31	42.37	-12.51	42.38	0.05	44.19	106.44
2700.00	0.98	73.72	2699.29	44.18	-12.15	44.19	0.24	45.83	105.38
2800.00	0.96	83.47	2799.28	45.83	-11.82	45.84	0.17	47.34	104.46
2900.00	0.78	86.48	2899.27	47.35	-11.68	47.36	0.19	48.78	103.86
3000.00	0.65	70.22	2999.26	48.56	-11.45	48.57	0.24	49.90	103.26
3100.00	0.63	85.18	3099.25	49.64	-11.21	49.65	0.17	50.90	102.72
3200.00	0.48	85.95	3199.25	50.61	-11.13	50.62	0.15	51.83	102.41
3300.00	0.42	99.17	3299.24	51.39	-11.16	51.40	0.12	52.59	102.26
3400.00	0.34	120.96	3399.24	52.00	-11.37	52.01	0.16	53.24	102.34
3500.00	0.19	153.80	3499.24	52.33	-11.68	52.34	0.21	53.63	102.58
3600.00	0.23	81.97	3599.24	52.60	-11.80	52.61	0.25	53.92	102.64
3700.00	0.36	127.67	3699.24	53.05	-11.96	53.06	0.26	54.39	102.70
3800.00	0.36	157.97	3799.24	53.41	-12.44	53.43	0.19	54.86	103.11
3900.00	0.32	183.62	3899.24	53.51	-13.01	53.53	0.16	55.08	103.67
4000.00	0.15	194.67	3999.23	53.46	-13.42	53.47	0.18	55.13	104.09
4100.00	0.31	151.90	4099.23	53.56	-13.78	53.57	0.22	55.31	104.43



Scientific Drilling International

Survey Report

Company: MARBOB ENERGY	Date: 09/01/2009	Time: 15:51:36	Page: 2
Field: Delaware River	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: SRO State Unit #1H	Section (VS) Reference:	Well: (0.00N,0.00E,89.95Azi)	
Wellpath: VH - Job #32K0709283	Survey Calculation Method:	Minimum Curvature	Db: Sybase

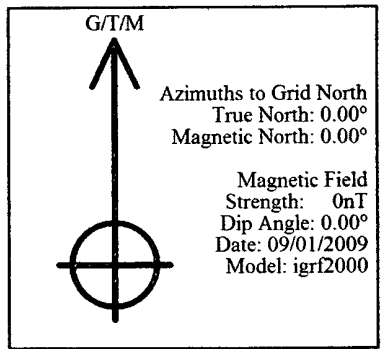
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4200.00	0.22	181.24	4199.23	53.68	-14.22	53.69	0.16	55.54	104.83
4300.00	0.27	181.28	4299.23	53.67	-14.64	53.68	0.05	55.64	105.26
4400.00	0.28	163.72	4399.23	53.73	-15.11	53.75	0.08	55.83	105.71
4500.00	0.34	155.10	4499.23	53.93	-15.62	53.94	0.08	56.15	106.15
4600.00	0.43	189.38	4599.23	53.99	-16.26	54.00	0.24	56.40	106.75
4700.00	0.27	213.50	4699.22	53.80	-16.82	53.81	0.21	56.38	107.36
4800.00	0.40	197.33	4799.22	53.56	-17.35	53.58	0.16	56.32	107.95
4900.00	0.35	200.48	4899.22	53.35	-17.97	53.37	0.05	56.31	108.61
5000.00	0.35	220.25	4999.22	53.05	-18.49	53.06	0.12	56.19	109.21
5100.00	0.36	208.97	5099.22	52.70	-19.00	52.71	0.07	56.03	109.82
5200.00	0.35	215.27	5199.22	52.37	-19.52	52.38	0.04	55.90	110.44
5300.00	0.44	211.64	5299.21	51.99	-20.10	52.01	0.09	55.76	111.13
5400.00	0.47	175.55	5399.21	51.82	-20.84	51.84	0.28	55.87	111.90
5500.00	0.37	178.77	5499.21	51.86	-21.57	51.88	0.10	56.18	112.57
5600.00	0.42	184.13	5599.21	51.84	-22.26	51.86	0.06	56.43	113.23
5700.00	0.54	183.02	5699.20	51.79	-23.09	51.81	0.12	56.72	114.02
5800.00	0.48	179.38	5799.20	51.76	-23.98	51.79	0.07	57.07	114.85
5900.00	0.53	166.51	5899.19	51.88	-24.85	51.90	0.12	57.54	115.59
6000.00	0.65	169.05	5999.19	52.09	-25.86	52.11	0.12	58.17	116.39
6100.00	0.42	186.08	6099.18	52.16	-26.78	52.18	0.28	58.65	117.16
6200.00	0.51	192.08	6199.18	52.03	-27.58	52.05	0.10	58.90	117.92
6300.00	0.42	194.98	6299.18	51.84	-28.37	51.86	0.09	59.11	118.68
6400.00	0.45	173.88	6399.17	51.78	-29.11	51.81	0.16	59.43	119.33
6500.00	0.31	166.62	6499.17	51.89	-29.76	51.91	0.15	59.84	119.83
6600.00	0.40	141.54	6599.17	52.17	-30.30	52.19	0.18	60.35	120.14
6700.00	0.15	204.22	6699.17	52.33	-30.69	52.36	0.36	60.69	120.38
6800.00	0.24	210.19	6799.17	52.17	-30.99	52.20	0.09	60.71	120.70
6900.00	0.14	188.57	6899.17	52.05	-31.30	52.07	0.12	60.76	121.01
7000.00	0.35	223.36	6999.17	51.82	-31.64	51.85	0.25	60.74	121.39
7100.00	0.72	241.26	7099.16	51.06	-32.16	51.09	0.40	60.37	122.19
7200.00	0.83	240.38	7199.15	49.88	-32.82	49.91	0.11	59.73	123.33
7300.00	0.86	246.83	7299.14	48.56	-33.48	48.59	0.10	59.00	124.57
7400.00	1.03	260.92	7399.13	46.98	-33.91	47.01	0.29	57.96	125.81
7500.00	0.92	258.60	7499.11	45.30	-34.21	45.33	0.12	56.80	127.04
7600.00	1.12	253.11	7599.10	43.58	-34.66	43.61	0.22	55.71	128.47
7700.00	1.39	266.76	7699.08	41.44	-35.01	41.47	0.40	54.27	130.17
7800.00	1.17	267.42	7799.05	39.20	-35.12	39.23	0.22	52.66	131.84
7900.00	1.12	269.93	7899.03	37.21	-35.17	37.24	0.07	51.22	133.36
8000.00	0.99	281.74	7999.01	35.38	-35.00	35.41	0.25	49.79	134.66



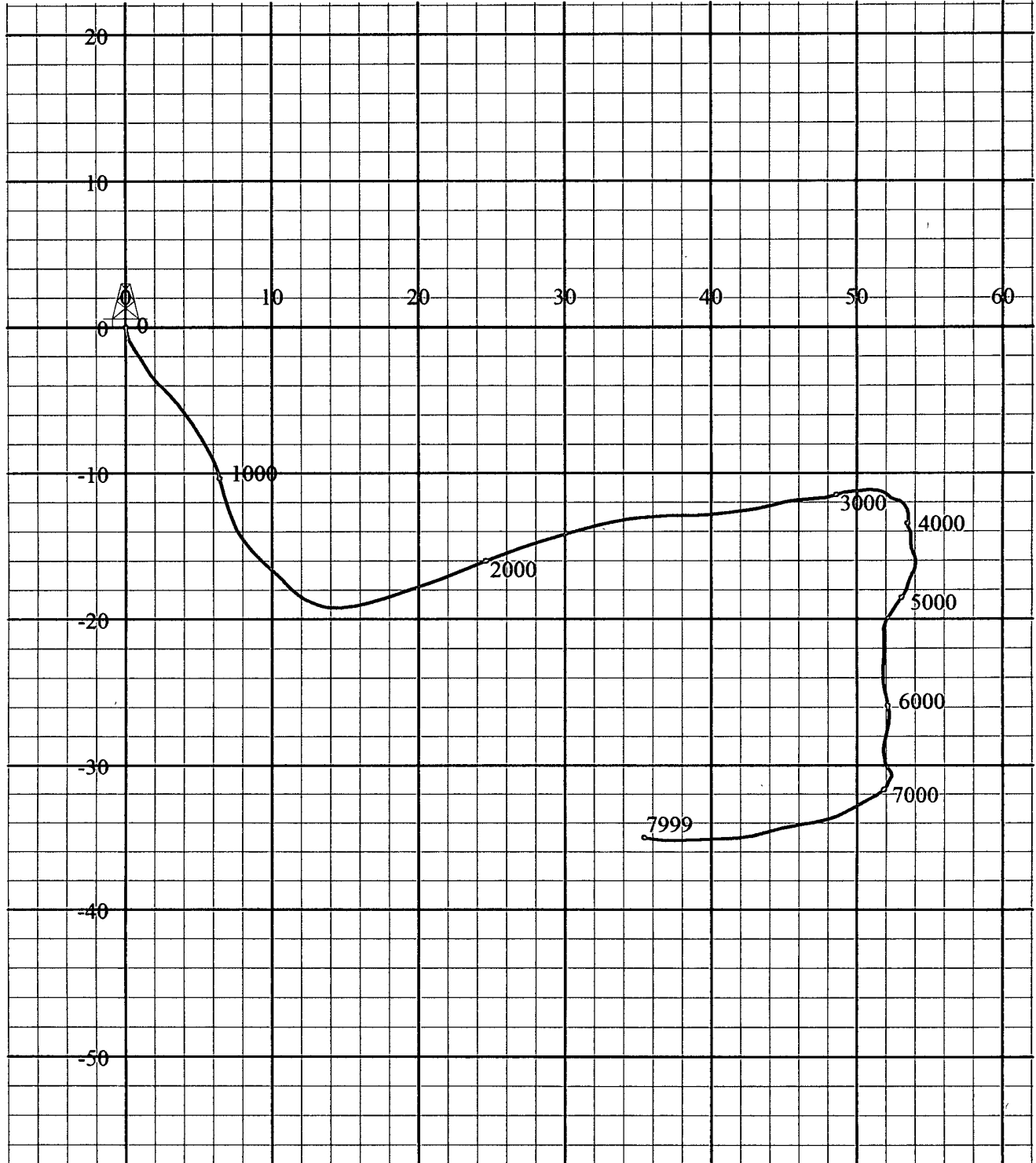
**Scientific
Drilling**

Field: Delaware River
Site: Eddy County, NM
Well: SRO State Unit #1H
Wellpath: VH - Job #32K0709283
Survey: 07/29/09



West(-)/East(+) [10ft/in]

South(-)/North(+) [10ft/in]



A Gyrodata Directional Survey

for

MARBOB ENERGY CORPORATION

Lease: Sro State Unit Well: 1H, 4-1/2 Xh Drillpipe
Location: Patriot #2, Eddy County, New Mexico

Job Number: MD0809VCW172

Run Date: 04 Aug 2009

Surveyor: Oscar Velasquez; Steve Winther

Calculation Method: MINIMUM CURVATURE

Survey surface coordinates obtained from: Directional Drilling Company

Survey Latitude: 32.076989-deg. N -Longitude: -104.099283 -deg. W

Azimuth Correction:

Gyro: -0.12000 deg 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

Marbob Energy Corporation

Lease: Sro State Unit Well: 1H, 4-1/2 Xh Drillpipe

Location: Patriot #2, Eddy County, New Mexico

Job Number: MD0809VCW172

MEASURED DEPTH feet	INCL 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 TO 7509 FT. RATE GYROSCOPIC VERTICAL CONTINUOUS SURVEY RUN INSIDE 4-1/2" XH DRILLPIPE							
ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO PATRIOT #2 R.K.B.							

100.00	0.38	170.59	S 9 25 E	0.38	100.00	0.3 170.6	0.33 S 0.05 E
200.00	0.46	150.63	S 29 22 E	0.16	200.00	1.1 163.1	1.01 S 0.31 E
300.00	0.45	137.03	S 42 58 E	0.11	299.99	1.8 154.9	1.64 S 0.77 E
400.00	0.29	128.56	S 51 26 E	0.17	399.99	2.4 149.4	2.09 S 1.24 E
500.00	0.48	115.78	S 64 13 E	0.21	499.99	3.0 143.3	2.43 S 1.81 E
600.00	0.41	120.11	S 59 53 E	0.08	599.99	3.7 138.2	2.79 S 2.50 E
700.00	0.78	118.47	S 61 32 E	0.37	699.98	4.7 134.0	3.30 S 3.41 E
800.00	1.03	134.13	S 45 52 E	0.35	799.97	6.3 132.4	4.25 S 4.65 E
900.00	1.11	141.51	S 38 30 E	0.16	899.95	8.2 133.7	5.64 S 5.90 E
1000.00	1.24	159.59	S 20 25 E	0.39	999.93	10.1 137.1	7.41 S 6.89 E
1100.00	1.07	159.22	S 20 47 E	0.17	1099.91	12.0 140.8	9.30 S 7.60 E
1200.00	1.24	134.01	S 46 0 E	0.53	1199.89	14.0 141.5	10.93 S 8.71 E
1300.00	1.32	122.50	S 57 30 E	0.27	1299.86	16.2 139.6	12.31 S 10.46 E
1400.00	1.08	128.40	S 51 36 E	0.28	1399.84	18.2 138.0	13.51 S 12.17 E
1500.00	0.94	125.53	S 54 28 E	0.15	1499.83	19.9 137.0	14.57 S 13.57 E
1600.00	0.61	102.29	S 77 43 E	0.45	1599.82	21.1 135.8	15.15 S 14.75 E
1700.00	1.30	70.46	N 70 27 E	0.85	1699.80	22.1 132.3	14.89 S 16.34 E
1800.00	1.97	66.11	N 66 6 E	0.68	1799.76	23.5 126.0	13.81 S 18.99 E
1900.00	1.98	63.35	N 63 21 E	0.10	1899.70	25.3 119.2	12.34 S 22.10 E
2000.00	1.91	64.63	N 64 38 E	0.08	1999.65	27.4 113.3	10.85 S 25.15 E

A Gyrodata Directional Survey

Marbob Energy Corporation

Lease: Sro State Unit Well: 1H, 4-1/2 Xh Drillpipe

Location: Patriot #2, Eddy County, New Mexico

Job Number: MD0809VCW172

MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
2100.00	1.97	68.55	N 68 33 E	0.15	2099.59	29.8 108.6	9.51 S 28.26 E
2200.00	2.17	69.47	N 69 28 E	0.20	2199.52	32.7 104.6	8.22 S 31.63 E
2300.00	1.91	76.74	N 76 44 E	0.37	2299.46	35.7 101.6	7.17 S 35.01 E
2400.00	1.30	73.45	N 73 27 E	0.61	2399.42	38.3 99.7	6.47 S 37.72 E
2500.00	1.04	72.39	N 72 23 E	0.26	2499.40	40.1 98.4	5.87 S 39.66 E
2600.00	1.16	72.46	N 72 28 E	0.13	2599.38	41.8 97.3	5.29 S 41.49 E
2700.00	0.91	75.52	N 75 31 E	0.26	2699.37	43.5 96.3	4.79 S 43.23 E
2800.00	0.89	74.50	N 74 30 E	0.03	2799.35	45.0 95.6	4.38 S 44.75 E
2900.00	0.72	75.95	N 75 57 E	0.16	2899.34	46.3 95.0	4.02 S 46.11 E
3000.00	0.69	70.91	N 70 55 E	0.07	2999.34	47.4 94.4	3.67 S 47.29 E
3100.00	0.71	71.61	N 71 37 E	0.02	3099.33	48.6 93.9	3.28 S 48.46 E
3200.00	0.48	74.12	N 74 7 E	0.23	3199.32	49.5 93.4	2.96 S 49.45 E
3300.00	0.40	85.07	N 85 4 E	0.11	3299.32	50.3 93.2	2.82 S 50.21 E
3400.00	0.32	79.91	N 79 55 E	0.09	3399.32	50.9 93.1	2.74 S 50.83 E
3500.00	0.20	106.45	S 73 33 E	0.17	3499.32	51.4 93.1	2.74 S 51.28 E
3600.00	0.17	100.80	S 79 12 E	0.03	3599.32	51.7 93.1	2.82 S 51.60 E
3700.00	0.29	105.56	S 74 27 E	0.12	3699.31	52.1 93.2	2.92 S 51.99 E
3800.00	0.33	108.38	S 71 37 E	0.04	3799.31	52.6 93.4	3.07 S 52.51 E
3900.00	0.24	136.38	S 43 37 E	0.16	3899.31	53.0 93.6	3.32 S 52.93 E
4000.00	0.31	118.50	S 61 30 E	0.11	3999.31	53.4 93.9	3.60 S 53.31 E
4100.00	0.25	137.16	S 42 50 E	0.11	4099.31	53.8 94.1	3.89 S 53.70 E
4200.00	0.30	142.37	S 37 38 E	0.06	4199.31	54.2 94.5	4.25 S 54.00 E
4300.00	0.30	152.82	S 27 11 E	0.06	4299.31	54.5 94.9	4.70 S 54.29 E
4400.00	0.19	128.63	S 51 22 E	0.15	4399.31	54.8 95.3	5.04 S 54.53 E

A Gyrodata Directional Survey

Marbob Energy Corporation

Lease: Sro State Unit Well: 1H, 4-1/2 Xh Drillpipe

Location: Patriot #2, Eddy County, New Mexico

Job Number: MD0809VCW172

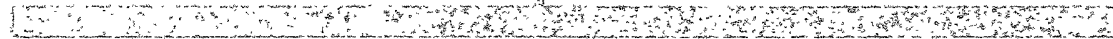
MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
4500.00	0.40	135.30	S 44 42 E	0.21	4499.31	55.2 95.6	5.38 S 54.90 E
4600.00	0.29	147.60	S 32 24 E	0.13	4599.30	55.6 96.0	5.85 S 55.28 E
4700.00	0.26	175.95	S 4 3 E	0.14	4699.30	55.8 96.5	6.29 S 55.44 E
4800.00	0.39	183.04	S 3 3 W	0.14	4799.30	55.9 97.0	6.85 S 55.43 E
4900.00	0.34	179.57	S 0 26 E	0.05	4899.30	55.9 97.7	7.49 S 55.42 E
5000.00	0.26	211.51	S 31 31 W	0.18	4999.30	55.9 98.2	7.98 S 55.30 E
5100.00	0.21	190.74	S 10 44 W	0.10	5099.30	55.8 98.6	8.35 S 55.15 E
5200.00	0.32	195.59	S 15 35 W	0.11	5199.30	55.7 99.1	8.80 S 55.04 E
5300.00	0.46	176.91	S 3 5 E	0.19	5299.29	55.8 99.8	9.46 S 54.99 E
5400.00	0.27	160.49	S 19 31 E	0.21	5399.29	56.0 100.4	10.09 S 55.09 E
5500.00	0.33	155.64	S 24 22 E	0.06	5499.29	56.3 100.8	10.58 S 55.29 E
5600.00	0.44	157.71	S 22 17 E	0.10	5599.29	56.7 101.4	11.20 S 55.56 E
5700.00	0.54	149.09	S 30 55 E	0.13	5699.28	57.2 102.1	11.95 S 55.94 E
5800.00	0.50	146.99	S 33 1 E	0.04	5799.28	57.8 102.7	12.72 S 56.42 E
5900.00	0.52	147.19	S 32 49 E	0.02	5899.28	58.5 103.3	13.47 S 56.91 E
6000.00	0.42	150.25	S 29 45 E	0.11	5999.27	59.1 103.9	14.17 S 57.33 E
6100.00	0.27	184.29	S 4 17 W	0.24	6099.27	59.4 104.4	14.72 S 57.50 E
6200.00	0.22	185.96	S 5 58 W	0.05	6199.27	59.4 104.8	15.14 S 57.46 E
6300.00	0.29	182.47	S 2 28 W	0.08	6299.27	59.5 105.2	15.58 S 57.43 E
6400.00	0.24	167.51	S 12 29 E	0.09	6399.27	59.7 105.6	16.05 S 57.46 E
6500.00	0.25	158.91	S 21 6 E	0.04	6499.27	59.9 105.9	16.45 S 57.59 E
6600.00	0.18	183.62	S 3 37 W	0.11	6599.27	60.1 106.3	16.81 S 57.65 E
6700.00	2.03	83.81	N 83 49 E	2.07	6699.25	61.7 105.8	16.77 S 59.41 E
6800.00	14.63	88.80	N 88 48 E	12.60	6797.99	75.6 102.5	16.32 S 73.86 E

A Gyrodata Directional Survey

Marbob Energy Corporation
 Lease: Sro State Unit Well: 1H, 4-1/2 Xh Drillpipe
 Location: Patriot #2, Eddy County, New Mexico
 Job Number: MD0809VCW172

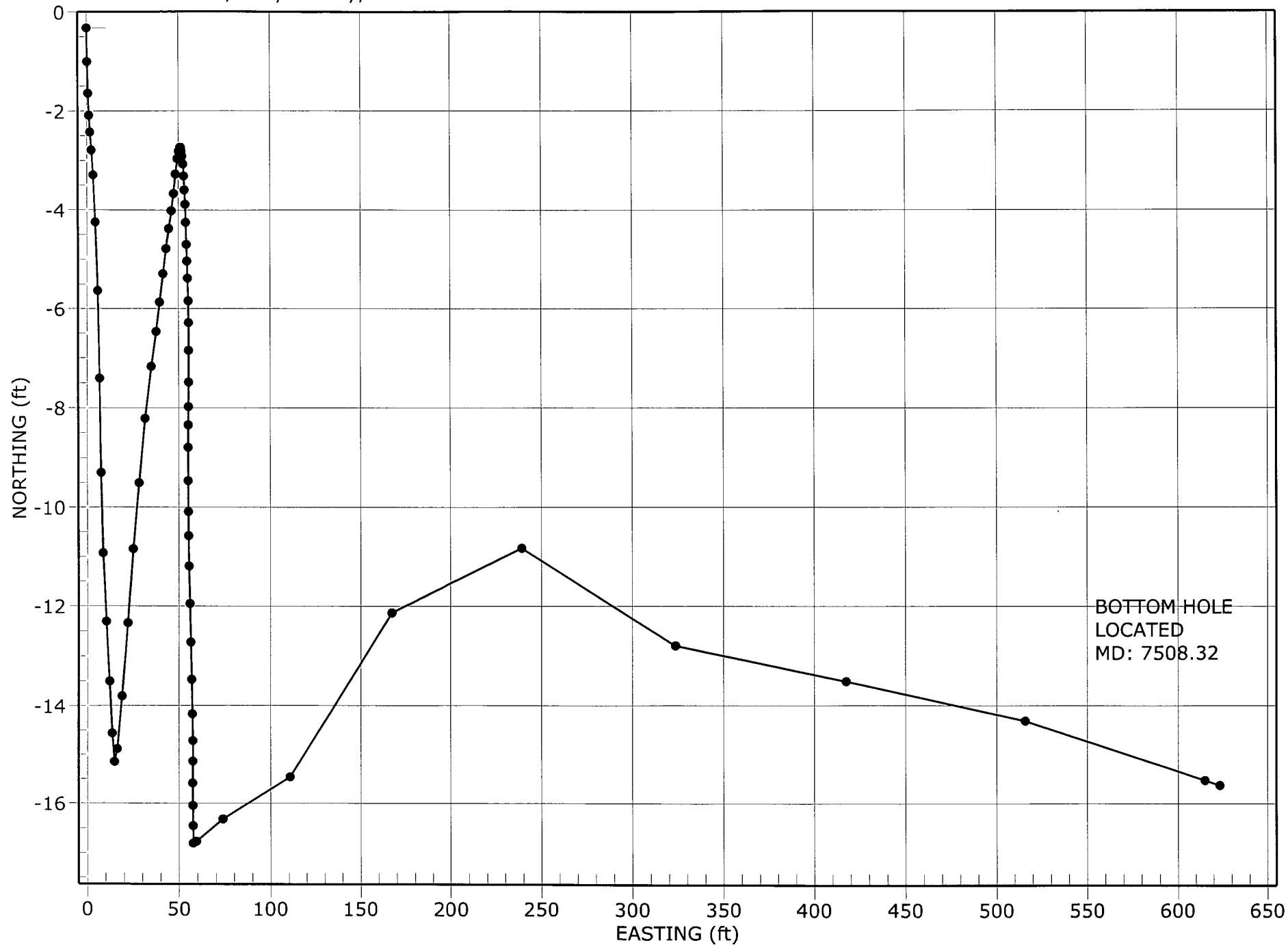
MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	BORE HOLE BEARING deg. min.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. AZIMUTH feet deg.	HORIZONTAL COORDINATES feet
6900.00	28.76	88.59	N 88 35 E	14.14	6890.67	111.8 97.9	15.46 S 110.72 E
7000.00	40.39	85.18	N 85 11 E	11.79	6972.87	167.7 94.1	12.13 S 167.26 E
7100.00	52.06	92.07	S 87 56 E	12.67	7041.98	239.5 92.6	10.83 S 239.25 E
7200.00	63.55	90.68	S 89 19 E	11.55	7095.17	324.0 92.3	12.79 S 323.71 E
7300.00	76.77	90.22	S 89 47 E	13.22	7129.03	417.8 91.9	13.51 S 417.56 E
7400.00	82.76	90.70	S 89 18 E	6.01	7146.79	516.1 91.6	14.31 S 515.92 E
7500.00	82.76	90.70	S 89 18 E	0.00	7159.40	615.3 91.4	15.52 S 615.11 E
7508.32	82.76	90.70	S 89 18 E	0.00	7160.45	623.6 91.4	15.62 S 623.37 E

Final Station Closure: Distance: 623.56 ft Az: 91.44 deg.



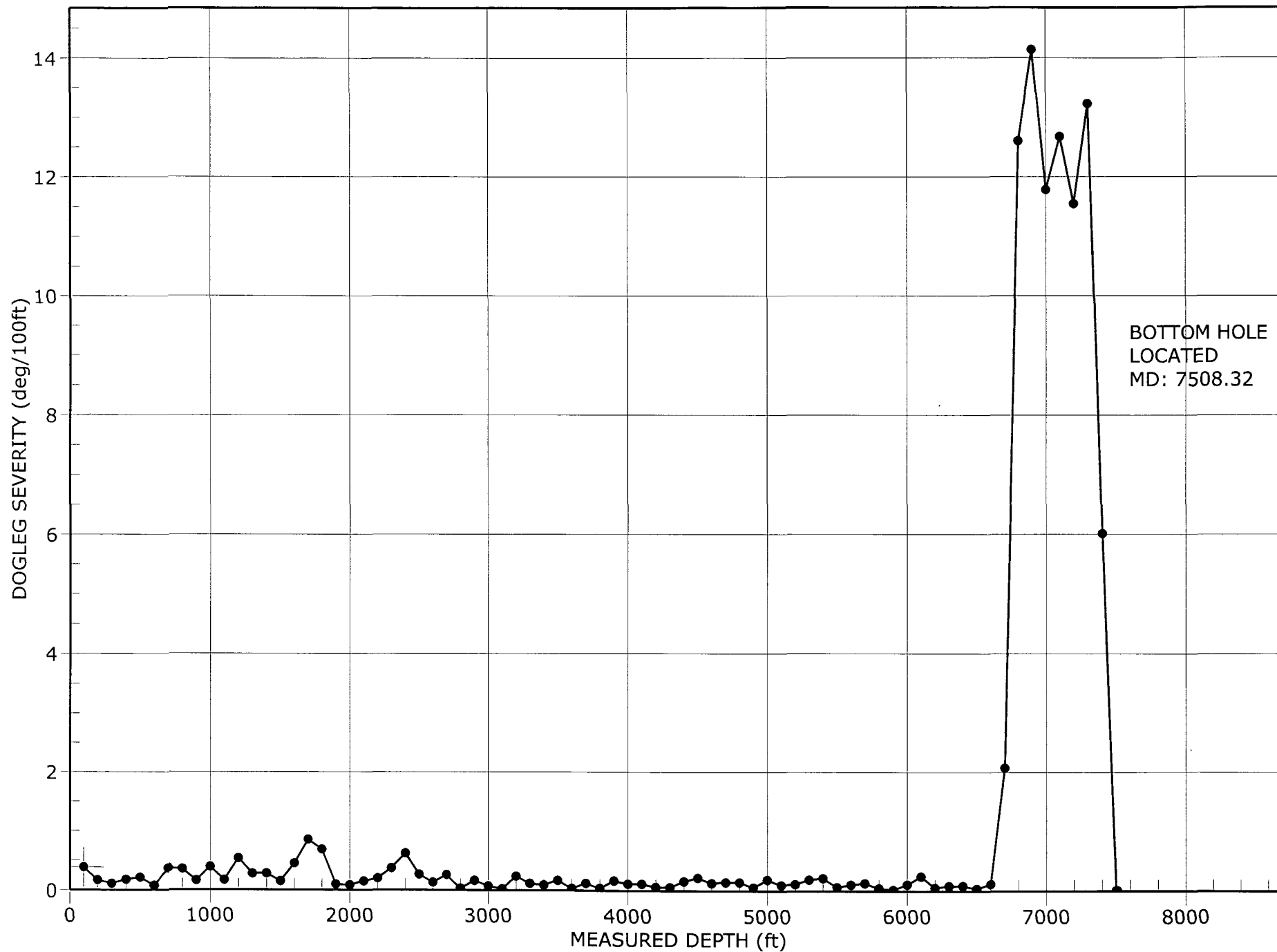
Marbob Energy Corporation
Well: Sro State Unit 1H 4-1/2 Xh Drillpipe
Location: Patriot #2, Eddy County, New Mexico

Interp Outrun_Oc
Gyrodata
MD0809VCW172 DEFINITIVE



Marbob Energy Corporation
Well: Sro State Unit 1H 4-1/2 Xh Drillpipe
Location: Patriot #2, Eddy County, New Mexico

Interp Outrun_Oc
Gyrodata
MD0809VCW172 DEFINITIVE



Marbob Energy Corporation
Well: Sro State Unit 1H 4-1/2 Xh Drillpipe
Location: Patriot #2, Eddy County, New Mexico

Interp Outrun_Oc
Gyrodata
MD0809VCW172 DEFINITIVE

