

A Gyrodata Directional Survey

for

EOG RESOURCES

Well: Yellow Fin 23 No.2, 4-1/2" Drillpipe
Location: Key #17, Lea County, New Mexico

SUR: P-23-16s-35e, 948/S & 660/E
BHL: P-23-16s-35e, 1057/S & 700/E
API # 30-025-36374

Job Number: MD1003G_280

Run Date: 10/1/2003 2:36:00 PM

Surveyor: Mike Martinez

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.902806 deg. N Longitude: 103.421000 deg. W

Azimuth Correction:

Gyro: Bearings are Relative to True North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



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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 - 10884 FT RATE GYROSCOPIC DROP MULTISHOT SURVEY RUN INSIDE 4-1/2" DRILLPIPE ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO KEY #17 R.K.B.							
42.55	0.28	316.87	N 43 8 W	0.66	42.55	0.1 316.9	0.08 N 0.07 W
136.38	0.12	28.35	N 28 21 E	0.29	136.38	0.4 330.8	0.33 N 0.18 W
230.21	0.28	6.19	N 6 12 E	0.19	230.21	0.7 349.9	0.64 N 0.11 W
324.04	0.28	314.99	N 45 0 W	0.26	324.04	1.1 346.3	1.03 N 0.25 W
417.87	0.19	145.18	S 34 49 E	0.50	417.87	1.1 343.0	1.06 N 0.32 W
511.70	0.45	184.48	S 4 29 W	0.35	511.70	0.6 335.1	0.57 N 0.26 W
605.53	0.47	188.84	S 8 50 W	0.04	605.52	0.4 243.0	0.18 S 0.35 W
699.36	0.40	159.9	S 20 43 E	0.25	699.35	0.9 198.7	0.87 S 0.29 W
793.19	0.42	176.80	S 3 12 E	0.13	793.18	1.5 186.0	1.52 S 0.16 W
887.02	0.30	146.07	S 33 56 E	0.24	887.01	2.1 180.1	2.06 S 0.00 W
980.85	0.33	189.50	S 9 30 W	0.25	980.84	2.5 177.9	2.53 S 0.09 E
1074.68	0.33	188.31	S 8 19 W	0.01	1074.66	3.1 179.9	3.06 S 0.01 E
1168.51	0.45	163.43	S 16 34 E	0.22	1168.49	3.7 178.8	3.69 S 0.07 E
1262.34	0.34	155.48	S 24 31 E	0.13	1262.32	4.3 176.1	4.30 S 0.30 E
1356.17	0.12	135.27	S 44 44 E	0.25	1356.15	4.6 174.1	4.62 S 0.48 E
1450.00	0.22	284.53	N 75 28 W	0.35	1449.98	4.7 175.4	4.65 S 0.38 E
1543.83	0.23	279.74	N 80 15 W	0.03	1543.81	4.6 179.8	4.57 S 0.01 E
1637.66	0.31	276.86	N 83 8 W	0.08	1637.64	4.5 185.4	4.51 S 0.42 W
1731.49	0.14	221.76	S 47 46 W	0.26	1731.47	4.6 189.4	4.55 S 0.76 W
1825.32	0.04	154.27	S 25 44 E	0.14	1825.30	4.7 190.0	4.65 S 0.82 W

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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
1919.15	0.11	117.28	S 62 43 E	0.09	1919.13	4.8 188.8	4.72 S 0.73 W
2012.98	0.09	83.38	N 83 23 E	0.06	2012.96	4.8 187.0	4.75 S 0.59 W
2106.81	0.08	52.81	N 52 48 E	0.05	2106.79	4.7 185.6	4.71 S 0.46 W
2200.64	0.15	55.05	N 55 3 E	0.07	2200.61	4.6 183.9	4.60 S 0.31 W
2294.47	0.26	20.53	N 20 32 E	0.18	2294.44	4.3 181.8	4.32 S 0.14 W
2388.30	0.42	357.07	N 2 56 W	0.22	2388.27	3.8 181.2	3.78 S 0.08 W
2482.13	0.45	342.46	N 17 32 W	0.12	2482.10	3.1 183.9	3.08 S 0.21 W
2575.96	0.33	357.65	N 2 21 W	0.17	2575.93	2.5 187.6	2.46 S 0.33 W
2669.79	0.55	13.52	N 13 31 E	0.27	2669.76	1.8 187.7	1.75 S 0.24 W
2763.62	0.78	36.28	N 36 17 E	0.37	2763.58	0.8 162.7	0.80 S 0.25 E
2857.45	1.19	43.37	N 43 22 E	0.45	2857.39	1.4 71.8	0.42 N 1.29 E
2951.28	1.65	49.43	N 49 26 E	0.52	2951.20	3.6 56.0	2.01 N 2.99 E
3045.11	1.83	49.38	N 49 23 E	0.18	3044.98	6.4 53.1	3.87 N 5.15 E
3138.94	2.00	46.95	N 46 57 E	0.20	3138.76	9.6 51.5	5.96 N 7.48 E
3232.77	1.90	50.01	N 50 1 E	0.16	3232.54	12.8 50.7	8.07 N 9.87 E
3326.60	1.73	49.01	N 49 1 E	0.18	3326.32	15.7 50.5	10.00 N 12.13 E
3420.43	1.43	51.67	N 51 40 E	0.32	3420.11	18.3 50.5	11.65 N 14.12 E
3514.26	1.22	55.04	N 55 2 E	0.24	3513.92	20.5 50.7	12.95 N 15.85 E
3608.09	0.83	55.85	N 55 51 E	0.42	3607.73	22.1 51.1	13.91 N 17.23 E
3701.92	0.69	54.28	N 54 17 E	0.15	3701.55	23.4 51.3	14.62 N 18.25 E
3795.75	0.79	54.31	N 54 19 E	0.10	3795.38	24.6 51.5	15.33 N 19.24 E
3889.58	0.78	38.22	N 38 13 E	0.23	3889.20	25.9 51.2	16.20 N 20.16 E
3983.41	0.61	25.43	N 25 26 E	0.24	3983.02	26.9 50.4	17.16 N 20.77 E
4077.24	0.75	19.58	N 19 35 E	0.16	4076.84	27.9 49.4	18.19 N 21.19 E

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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
4171.07	0.70	3.27	N 3 16 E	0.22	4170.67	28.9 47.9	19.34 N 21.43 E
4264.90	0.62	2.10	N 2 6 E	0.09	4264.49	29.6 46.4	20.42 N 21.48 E
4358.73	0.56	351.95	N 8 3 W	0.13	4358.32	30.3 45.1	21.38 N 21.43 E
4452.56	0.48	353.15	N 6 51 W	0.09	4452.14	30.8 43.8	22.22 N 21.32 E
4546.39	0.45	3.46	N 3 28 E	0.09	4545.97	31.3 42.8	22.98 N 21.30 E
4640.22	0.58	3.60	N 3 36 E	0.13	4639.80	32.0 41.9	23.82 N 21.35 E
4734.05	0.73	359.81	N 0 11 W	0.17	4733.62	32.8 40.7	24.89 N 21.38 E
4827.88	0.76	353.99	N 6 1 W	0.09	4827.44	33.7 39.2	26.10 N 21.31 E
4921.71	0.82	343.74	N 16 16 W	0.16	4921.26	34.5 37.6	27.37 N 21.06 E
5015.54	0.86	339.70	N 20 18 W	0.08	5015.08	35.3 35.7	28.68 N 20.62 E
5109.37	0.85	337.89	N 22 7 W	0.03	5108.90	36.1 33.9	29.98 N 20.12 E
5203.20	0.92	336.86	N 23 8 W	0.08	5202.72	36.9 32.0	31.32 N 19.56 E
5297.03	0.97	330.21	N 29 47 W	0.13	5296.54	37.8 30.0	32.70 N 18.87 E
5390.86	0.85	324.64	N 35 22 W	0.17	5390.36	38.5 28.0	33.96 N 18.07 E
5484.69	0.75	318.19	N 41 48 W	0.14	5484.18	39.0 26.3	34.99 N 17.26 E
5578.52	0.54	303.90	N 56 6 W	0.28	5578.00	39.3 24.8	35.69 N 16.48 E
5672.35	0.35	287.63	N 72 22 W	0.23	5671.83	39.4 23.7	36.02 N 15.84 E
5766.18	0.42	282.65	N 77 21 W	0.08	5765.66	39.3 22.8	36.18 N 15.23 E
5860.01	0.29	309.63	N 50 22 W	0.23	5859.48	39.3 22.0	36.41 N 14.70 E
5953.84	0.35	325.1	N 34 41 W	0.11	5953.31	39.5 21.3	36.80 N 14.36 E
6047.67	0.30	339.54	N 20 27 W	0.10	6047.14	39.8 20.7	37.27 N 14.11 E
6141.50	0.45	336.74	N 23 16 W	0.17	6140.97	40.3 20.1	37.83 N 13.88 E
6235.33	0.45	338.28	N 21 43 W	0.01	6234.80	40.8 19.4	38.52 N 13.59 E
6329.16	0.51	334.92	N 25 5 W	0.07	6328.62	41.4 18.7	39.25 N 13.28 E

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6422.99	0.51	340.53	N 19 28 W	0.05	6422.45	42.1 17.9	40.02 N 12.96 E
6516.82	0.46	334.29	N 25 43 W	0.07	6516.28	42.7 17.3	40.75 N 12.66 E
6610.65	0.47	333.65	N 26 21 W	0.01	6610.10	43.2 16.6	41.43 N 12.33 E
6704.48	0.52	333.75	N 26 15 W	0.06	6703.93	43.8 15.9	42.15 N 11.97 E
6798.31	0.47	327.21	N 32 47 W	0.08	6797.76	44.4 15.1	42.86 N 11.57 E
6892.14	0.60	323.40	N 36 36 W	0.14	6891.58	45.0 14.3	43.57 N 11.07 E
6985.97	0.58	321.39	N 38 36 W	0.03	6985.41	45.6 13.3	44.34 N 10.48 E
7079.80	0.45	323.07	N 36 44 W	0.14	7079.23	46.1 12.5	45.01 N 9.96 E
7173.63	0.44	304.00	N 55 43 W	0.16	7173.06	46.5 11.7	45.51 N 9.44 E
7267.46	0.54	288.04	N 71 28 W	0.18	7266.89	46.7 10.8	45.86 N 8.73 E
7361.29	0.59	282.36	N 77 9 W	0.08	7360.71	46.8 9.7	46.10 N 7.84 E
7455.12	0.59	280.09	N 79 55 W	0.03	7454.54	46.8 8.5	46.29 N 6.90 E
7548.95	0.72	275.23	N 84 46 W	0.16	7548.36	46.8 7.2	46.43 N 5.83 E
7642.78	0.67	276.52	N 83 29 W	0.06	7642.18	46.8 5.8	46.55 N 4.70 E
7736.61	0.86	284.50	N 75 30 W	0.23	7736.01	46.9 4.2	46.79 N 3.47 E
7830.44	0.79	287.02	N 72 59 W	0.08	7829.83	47.2 2.6	47.15 N 2.17 E
7924.27	0.81	291.71	N 68 17 W	0.07	7923.65	47.6 1.1	47.59 N 0.94 E
8018.10	0.76	297.60	N 62 24 W	0.10	8017.47	48.1 359.7	48.12 N 0.24 W
8111.93	0.72	303.28	N 56 43 W	0.09	8111.29	48.8 358.5	48.74 N 1.28 W
8205.76	0.82	307.33	N 52 40 W	0.12	8205.11	49.5 357.3	49.47 N 2.31 W
8299.59	0.86	307.10	N 52 54 W	0.04	8298.93	50.4 356.1	50.30 N 3.41 W
8393.42	0.91	310.63	N 49 22 W	0.08	8392.75	51.4 354.9	51.21 N 4.54 W
8487.25	0.97	314.25	N 45 45 W	0.09	8486.57	52.6 353.8	52.25 N 5.67 W
8581.08	0.96	309.04	N 50 58 W	0.09	8580.38	53.7 352.7	53.30 N 6.85 W

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 Location: Key #17, Lea County, New Mexico
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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	
8674.91	0.86	303.29	N 56 42 W	0.14	8674.20	54.8	351.5	54.18 N	8.05 W
8768.74	0.92	301.26	N 58 44 W	0.07	8768.02	55.7	350.4	54.96 N	9.29 W
8862.57	0.91	303.27	N 56 44 W	0.04	8861.84	56.8	349.3	55.77 N	10.56 W
8956.40	0.96	300.08	N 59 55 W	0.08	8955.66	57.8	348.2	56.57 N	11.87 W
9050.23	0.95	303.14	N 56 52 W	0.06	9049.47	58.9	347.0	57.40 N	13.20 W
9144.06	0.96	298.65	N 61 21 W	0.08	9143.29	60.0	346.0	58.20 N	14.55 W
9237.89	0.88	292.02	N 67 59 W	0.14	9237.11	61.0	344.9	58.84 N	15.90 W
9331.72	0.90	295.13	N 64 52 W	0.06	9330.93	61.9	343.8	59.43 N	17.24 W
9425.55	0.95	292.01	N 67 59 W	0.08	9424.74	62.9	342.8	60.03 N	18.62 W
9519.38	0.91	283.84	N 76 9 W	0.15	9518.56	63.7	341.6	60.50 N	20.07 W
9613.21	0.85	283.24	N 76 46 W	0.06	9612.38	64.5	340.6	60.84 N	21.47 W
9707.04	0.88	272.42	N 87 35 W	0.18	9706.20	65.2	339.5	61.03 N	22.87 W
9800.87	0.81	277.63	N 82 22 W	0.11	9800.02	65.8	338.4	61.15 N	24.25 W
9894.70	0.83	279.76	N 80 14 W	0.04	9893.84	66.5	337.4	61.35 N	25.58 W
9988.53	0.72	278.28	N 81 43 W	0.12	9987.66	67.1	336.4	61.55 N	26.83 W
10082.36	0.66	274.24	N 85 45 W	0.09	10081.49	67.7	335.6	61.68 N	27.96 W
10176.19	0.75	276.42	N 83 35 W	0.10	10175.31	68.3	334.8	61.79 N	29.10 W
10270.02	0.67	280.50	N 79 30 W	0.10	10269.13	68.9	334.0	61.96 N	30.25 W
10363.85	0.79	275.52	N 84 29 W	0.14	10362.95	69.6	333.2	62.12 N	31.43 W
10457.68	1.04	275.85	N 84 9 W	0.27	10456.77	70.4	332.1	62.27 N	32.92 W
10551.51	1.06	271.05	N 88 57 W	0.10	10550.59	71.3	331.0	62.37 N	34.64 W
10645.34	0.99	270.25	N 89 45 W	0.08	10644.40	72.2	329.8	62.39 N	36.31 W
10739.17	1.32	261.15	S 81 9 W	0.41	10738.21	73.0	328.5	62.22 N	38.19 W
10833.00	1.36	268.00	S 88 0 W	0.18	10832.02	74.0	326.9	62.02 N	40.37 W

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Location: Key #17, Lea County, New Mexico

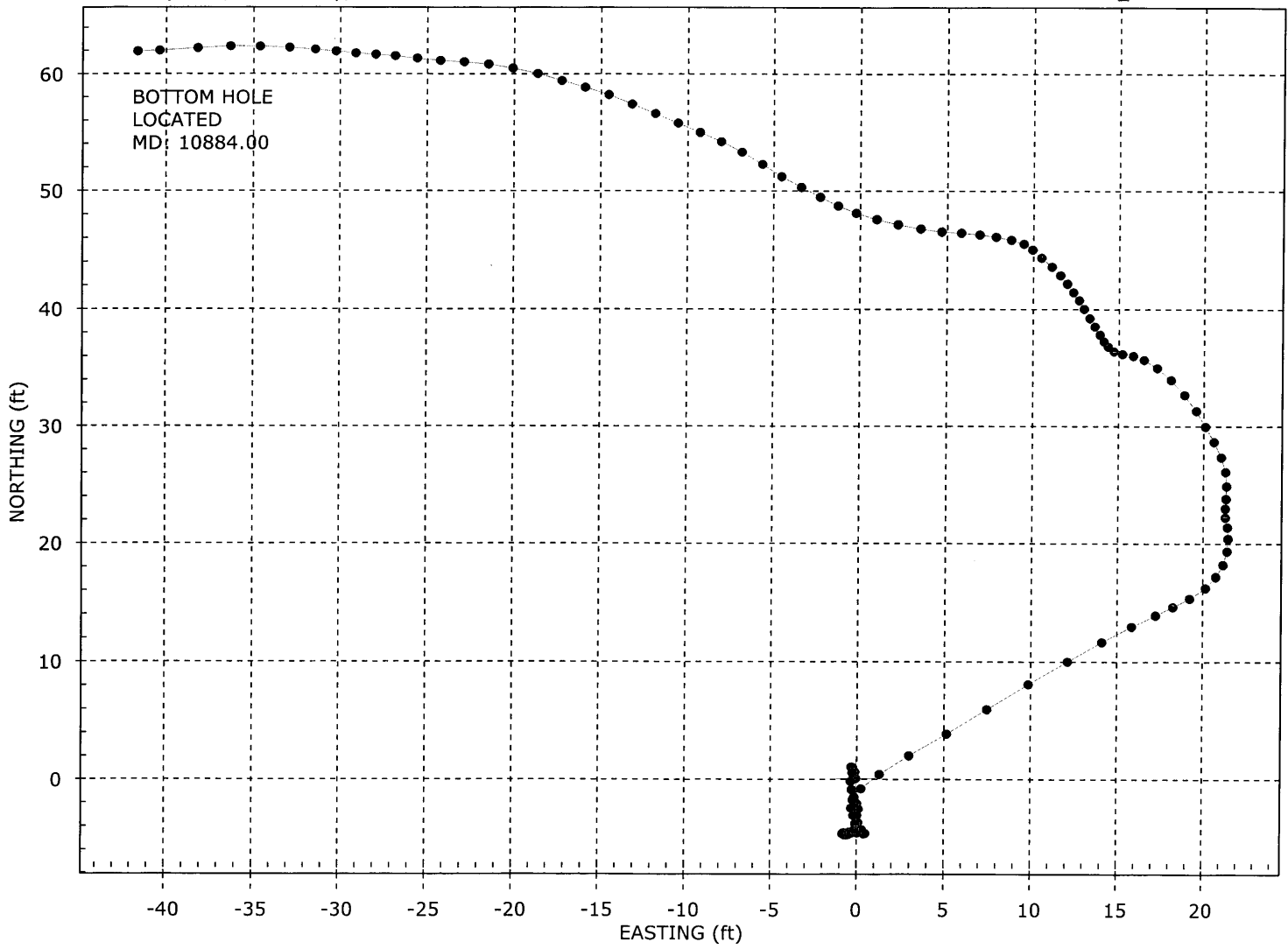
Job Number: MD1003G_280

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
10884.00	1.43	265.50	S 85 30 W	0.18	10883.00	74.6 326.1	61.95 N 41.62 W

Final Station Closure: Distance: 74.63 ft Az: 326.11 deg.

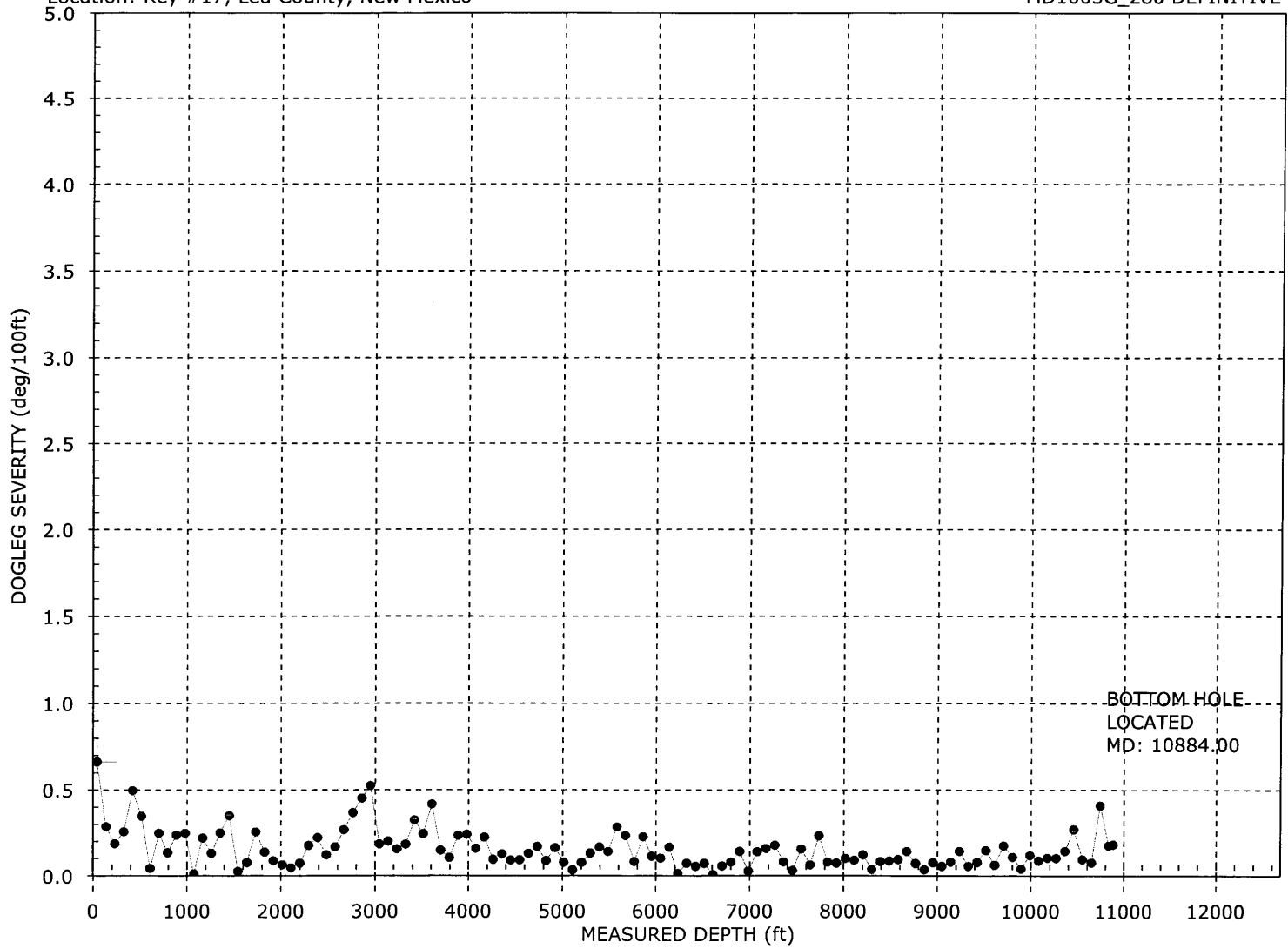
EOG Resources
Well: Yellow Fin 23 No.2 4-1/2" Drillpipe
Location: Key #17, Lea County, New Mexico

Outrun
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MD1003G_280 DEFINITIVE



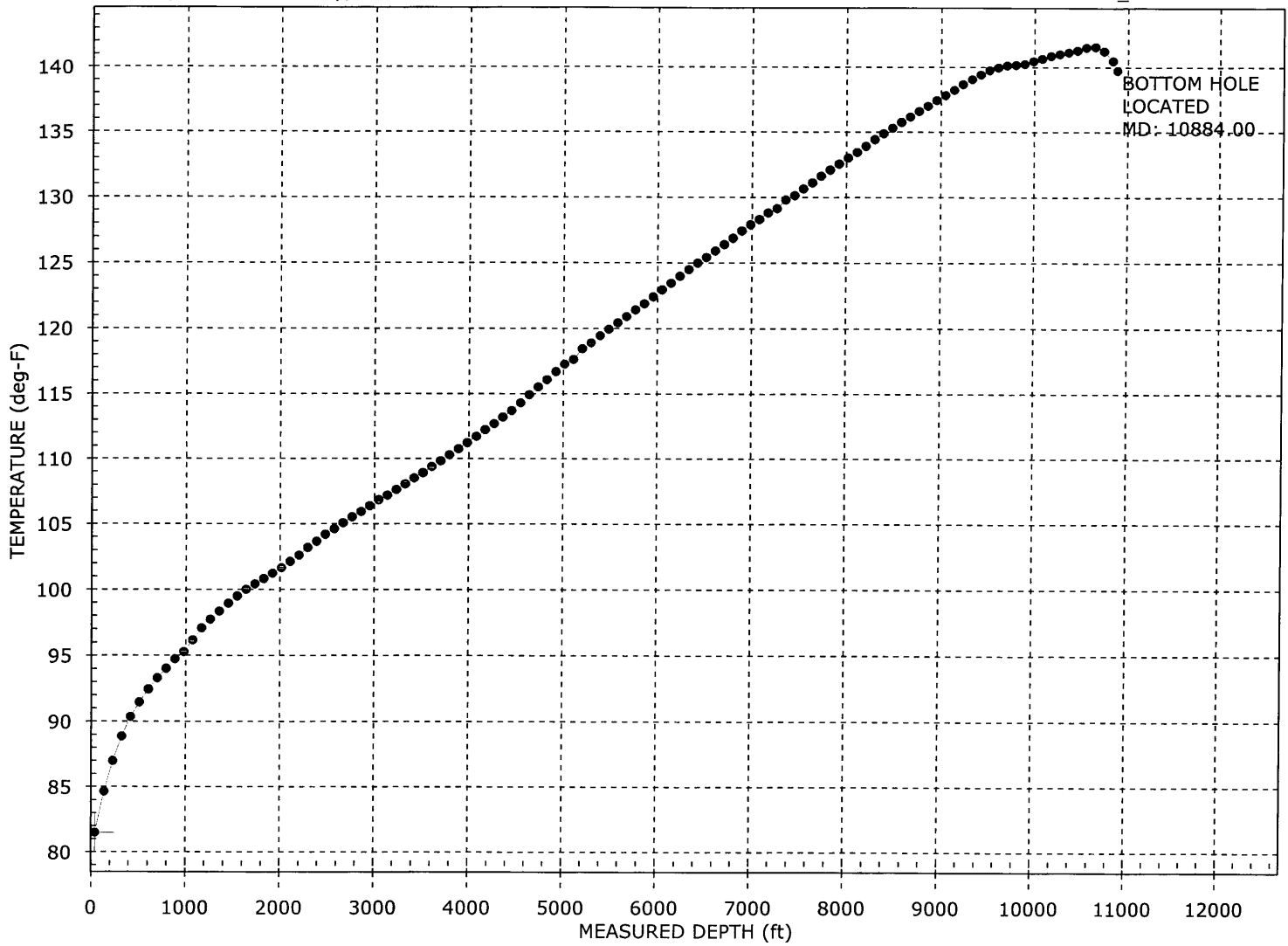
EOG Resources
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Outrun
Gyrodata
MD1003G_280 DEFINITIVE



EOG Resources
Well: Yellow Fin 23 No.2 4-1/2" Drillpipe
Location: Key #17, Lea County, New Mexico

Outrun
Gyrodata
MD1003G_280 DEFINITIVE





Company: EOG
Well: YELLOW FIN 23 #2
Location: LEA COUNTY
Rig: KEY 17

Job Number: 543813
Magnetic Decl.: 8.49
Grid Corr.: -0.50
Total Grid Corr.: 7.99
Calculation Method: min curv
Proposed Azimuth: 347.31
Depth Reference: RKB
Tie Into: Gyro

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Direction	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)											
Gyro	10884	1.43	265.00	S 85.0 W		10883		61.56 N	42.16 W					
MWD	10953	1.00	320.90	N 39.1 W	69	10951.99	69.99	61.97 N	43.40 W	75.66	326.00	1.74	-0.82	81.01
MWD	11015	2.00	345.10	N 14.9 W	62	11013.97	71.58	63.44 N	44.02 W	77.21	325.24	1.88	1.81	39.03
MWD	11078	2.50	4.50	N 4.5 E	63	11076.92	73.97	65.87 N	44.19 W	79.32	326.14	1.44	0.79	30.79
MWD	11140	2.30	4.80	N 4.8 E	62	11138.86	76.45	68.46 N	43.98 W	81.37	327.28	0.32	-0.32	0.48
MWD	11204	2.00	7.60	N 7.6 E	64	11202.82	78.72	70.84 N	43.73 W	83.25	328.32	0.50	-0.47	4.38
MWD	11265	1.70	30.10	N 30.1 E	61	11263.79	80.38	72.68 N	43.13 W	84.52	329.31	1.28	-0.49	38.89
MWD	11318	1.80	17.80	N 17.8 E	53	11316.78	81.88	74.15 N	42.48 W	85.46	330.19	0.73	0.19	-23.21
MWD	11381	1.50	0.60	N 0.6 E	63	11379.74	83.33	75.92 N	42.17 W	86.85	330.95	0.81	-0.48	-27.30
MWD	11443	1.10	334.80	N 25.4 W	62	11441.72	84.70	77.27 N	42.42 W	89.15	331.23	1.13	-0.85	-41.94
MWD	11506	1.40	342.70	N 17.3 W	63	11504.71	86.06	78.55 N	42.81 W	89.51	331.36	0.55	0.48	12.86
MWD	11599	2.60	18.90	N 18.9 E	93	11597.85	88.99	81.63 N	42.56 W	92.08	332.48	1.81	1.29	38.82
MWD	11662	2.80	32.30	N 32.3 E	63	11660.68	91.29	84.28 N	41.28 W	93.85	333.91	1.05	0.32	21.27
MWD	11724	2.40	32.30	N 32.3 E	62	11722.52	93.28	86.86 N	39.77 W	95.35	335.35	0.65	-0.65	0.00
MWD	11787	1.70	33.30	N 33.3 E	63	11785.48	94.86	88.56 N	38.56 W	96.69	336.47	1.11	-1.11	1.59
MWD	11849	0.80	21.30	N 21.3 E	62	11847.48	95.88	89.73 N	37.89 W	97.40	337.11	1.50	-1.45	-19.35
MWD	11912	1.20	26.60	N 26.6 E	63	11910.45	96.74	90.73 N	37.44 W	98.15	337.58	0.65	0.83	8.41
MWD	11974	1.90	27.00	N 27.0 E	62	11972.43	98.03	92.23 N	36.68 W	99.25	338.31	1.13	1.13	0.65
MWD	12037	0.60	35.80	N 35.8 E	63	12035.41	99.05	93.42 N	36.01 W	100.13	338.92	2.08	-2.06	13.97
MWD	12100	1.80	11.90	N 11.9 E	63	12098.40	100.17	94.68 N	35.62 W	101.14	339.38	2.02	1.90	-37.94
MWD	12162	2.00	22.80	N 22.8 E	62	12160.36	101.94	96.61 N	35.00 W	102.75	340.09	0.68	0.32	17.58
MWD	12225	2.00	21.00	N 21.0 E	63	12223.33	103.75	98.65 N	34.18 W	104.40	340.89	0.10	0.00	-2.86
MWD	12288	1.80	7.30	N 7.3 E	63	12286.29	105.49	100.55 N	33.67 W	106.04	341.49	0.93	-0.83	-21.75
MWD	12350	1.60	4.50	N 4.5 E	62	12348.27	107.13	102.27 N	33.49 W	107.61	341.87	0.13	0.00	-4.52
MWD	12391	1.60	9.00	N 9.0 E	41	12389.25	108.21	103.41 N	33.36 W	108.65	342.12	0.31	0.00	10.98
MWD	12437	1.30	11.50	N 11.5 E	46	12435.24	108.28	104.55 N	33.15 W	109.68	342.41	0.67	-0.65	5.43
MWD	12500	1.10	359.90	N 0.1 W	63	12498.23	110.52	105.86 N	33.01 W	110.89	342.68	0.50	-0.32	-18.41
MWD	12563	0.90	323.30	N 36.7 W	63	12561.22	111.57	106.86 N	33.31 W	111.93	342.69	1.04	-0.32	-58.10
MWD	12626	0.90	301.20	N 58.6 W	62	12623.21	112.35	107.50 N	34.02 W	112.75	342.44	0.56	0.00	-35.65
MWD	12687	1.10	293.80	N 68.2 W	62	12685.20	113.04	107.99 N	34.98 W	113.52	342.05	0.38	0.32	-11.84
MWD	12750	0.90	283.30	N 76.7 W	63	12748.19	113.62	108.35 N	36.01 W	114.18	341.81	0.43	-0.32	-16.67
MWD	12836	1.00	277.30	N 82.7 W	86	12834.18	114.17	108.80 N	37.41 W	114.87	340.99	0.16	0.12	-8.98
BIT	12877	1.00	277.30	N 82.7 W	41	12875.17	114.41	108.69 N	38.12 W	115.18	340.67	0.00	0.00	0.00