DRILTECH MWD SURVEY REPORT

Company:	EOG Resources, Inc.	Job Number:	M-2015-097-EODT-NM
Well:	Tour Bus 23 State #502H	Vertical Section Plane:	179.67
Location:	Lea County, NM	WELL API #:	30-025-42735
Rig:	H&P 415	Tie Into:	Surface

Calculation Method: Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Tie In	Surf	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	MWD	199.00	0.40	164.30	199	199.00	0.67	0.67 S	0.19 E	0.69	164.30	0.20	0.20	82.56
2	MWD	261.00	0.40	166.10	62	261.00	1.09	1.09 S	0.30 E	1.13	164.65	0.02	0.00	2.90
3	MWD	322.00	0.70	179.10	61	321.99	1.67	1.67 S	0.36 E	1.70	167.96	0.53	0.49	21.31
4	MWD	418.00	0.70	211.60	96	417.99	2.75	2.75 S	0.06 E	2.75	178.80	0.41	0.00	33.85
5	MWD	508.00	0.90	228.30	90	507.98	3.69	3.69 S	0.76 W	3.77	191.61	0.34	0.22	18.56
6	MWD	600.00	0.50	158.50	92	599.97	4.54	4.54 S	1.15 W	4.69	194.21	0.94	-0.43	-75.87
7	MWD	692.00	0.90	154.80	92	691.97	5.57	5.57 S	0.70 W	5.62	187.12	0.44	0.43	-4.02
8	MWD	881.00	0.70	134.90	189	880.95	7.73	7.73 S	0.75 E	7.77	174.43	0.18	-0.11	-10.53
9	MWD	975.00	0.70	153.90	94	974.94	8.66	8.65 S	1.41 E	8.77	170.72	0.25	0.00	20.21
10	MWD	1070.00	1.10	170.80	95	1069.93	10.08	10.07 S	1.81 E	10.23	169.79	0.50	0.42	17.79
11	MWD	1164.00	0.90	182.20	94	1163.91	11.71	11.70 S	1.93 E	11.86	170.63	0.30	-0.21	12.13
12	MWD	1259.00	0.90	195.90	95	1258.90	13.17	13.16 S	1.70 E	13.27	172.65	0.23	0.00	14.42
13	MWD	1353.00	1.20	217.40	94	1352.89	14.66	14.66 S	0.90 E	14.68	176.50	0.52	0.32	22.87
14	MWD	1476.00	2.50	227.40	123	1475.82	17.48	17.49 S	1.86 W	17.59	186.07	1.09	1.06	8.13
15	MWD	1571.00	2.60	225.60	95	1570.73	20.38	20.40 S	4.92 W	20.99	193.57	0.13	0.11	-1.89
16	MWD	1665.00	2.10	204.50	94	1664.65	23.42	23.46 S	7.16 W	24.53	196.97	1.05	-0.53	-22.45
17	MWD	1722.00	2.50	188.90	57	1721.60	25.60	25.64 S	7.79 W	26.80	196.89	1.30	0.70	-27.37
18	MWD	1841.00	2.60	185.20	119	1840.49	30.85	30.89 S	8.43 W	32.02	195.27	0.16	0.08	-3.11
19	MWD	1935.00	0.20	232.50	94	1934.45	33.07	33.12 S	8.76 W	34.26	194.81	2.63	-2.55	50.32
20	MWD	2029.00	1.10	354.70	94	2028.45	32.27	32.32 S	8.97 W	33.54	195.51	1.30	0.96	130.00
21	MWD	2123.00	0.70	4.70	94	2122.43	30.80	30.85 S	9.01 W	32.14	196.28	0.46	-0.43	-372.34
22	MWD	2218.00	0.70	1.90	95	2217.43	29.64	29.69 S	8.94 W	31.01	196.76	0.04	0.00	-2.95
23	MWD	2312.00	0.70	354.30	94	2311.42	28.49	28.55 S	8.98 W	29.92	197.46	0.10	0.00	374.89
24	MWD	2407.00	0.50	357.10	95	2406.42	27.50	27.55 S	9.06 W	29.00	198.20	0.21	-0.21	2.95
25	MWD	2501.00	0.50	358.90	94	2500.41	26.68	26.73 S	9.09 W	28.24	198.77	0.02	0.00	1.91
26	MWD	2596.00	0.50	344.30	95	2595.41	25.87	25.92 S	9.21 W	27.51	199.55	0.13	0.00	-15.37
27	MWD	2690.00	0.50	348.00	94	2689.40	25.07	25.12 S	9.40 W	26.83	200.52	0.03	0.00	3.94
28	MWD	2784.00	0.50	32.80	94	2783.40	24.32	24.38 S	9.26 W	26.08	200.81	0.41	0.00	-335.32
29	MWD	2878.00	0.70	12.20	94	2877.40	23.42	23.47 S	8.92 W	25.11	200.81	0.31	0.21	-21.91
30	MWD	2973.00	0.70	203.00	95	2972.39	23.39	23.44 S	9.03 W	25.12	201.06	1.47	0.00	200.84
31	MWD	3067.00	0.70	57.60	94	3066.39	23.61	23.66 S	8.77 W	25.23	200.33	1.42	0.00	-154.68
32	MWD	3161.00	0.90	50.40	94	3160.38	22.84	22.88 S	7.71 W	24.15	198.62	0.24	0.21	-7.66
33	MWD	3255.00	0.90	69.90	94	3254.37	22.12	22.16 S	6.45 W	23.08	196.23	0.32	0.00	20.74
34	MWD	3350.00	1.10	64.50	95	3349.36	21.48	21.51 S	4.93 W	22.07	192.90	0.23	0.21	-5.68
35	MWD	3444.00	1.10	56.00	94	3443.34	20.60	20.62 S	3.36 W	20.89	189.27	0.17	0.00	-9.04
36	MWD	3539.00	0.70	68.50	95	3538.33	19.88	19.89 S	2.07 W	20.00	185.93	0.47	-0.42	13.16
37	MWD	3633.00	0.70	54.60	94	3632.32	19.34	19.35 S	1.06 W	19.38	183.15	0.18	0.00	-14.79

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Well: Tour Bus 23 State #502H
Location: Lea County, NM
Rig: H&P 415

Job Number: M-2015-097-EODT-NM
Vertical Section Plane: 179.67
WELL API #: 30-025-42735
Tie Into: Surface

Calculation Method Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)		Coordinates E/W (ft)		Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
38	MWD	3698.00	0.70	72.70	65	3697.31	19.00	19.00	S	0.36	W	19.01	181.09	0.34	0.00	27.85
39	MWD	3793.00	0.70	50.20	95	3792.31	18.46	18.46	S	0.64	E	18.47	178.02	0.29	0.00	-23.68
40	MWD	3887.00	0.50	66.70	94	3886.30	17.94	17.93	S	1.46	E	17.99	175.36	0.28	-0.21	17.55
41	MWD	3982.00	0.50	49.50	95	3981.30	17.51	17.50	S	2.15	E	17.63	172.99	0.16	0.00	-18.11
42	MWD	4077.00	0.50	12.40	95	4076.30	16.84	16.82	S	2.56	E	17.01	171.36	0.33	0.00	-39.05
43	MWD	4159.00	0.40	5.20	82	4158.29	16.20	16.19	S	2.66	E	16.40	170.67	0.14	-0.12	-8.78
44	MWD	4260.00	0.40	311.20	101	4259.29	15.62	15.60	S	2.43	E	15.79	171.17	0.36	0.00	302.97
45	MWD	4355.00	1.40	357.00	95	4354.28	14.24	14.23	S	2.11	E	14.38	171.54	1.22	1.05	48.21
46	MWD	4543.00	4.60	18.60	188	4542.00	4.81	4.78	S	4.40	E	6.50	137.40	1.78	1.70	-180.00
47	MWD	4638.00	4.00	19.80	95	4636.73	-1.90	1.94	N	6.74	E	7.01	73.91	0.64	-0.63	1.26
48	MWD	4732.00	2.80	15.80	94	4730.57	-7.19	7.24	N	8.47	E	11.14	49.50	1.30	-1.28	-4.26
49	MWD	4826.00	2.80	23.70	94	4824.45	-11.49	11.55	N	10.02	E	15.29	40.95	0.41	0.00	8.40
50	MWD	4920.00	2.80	24.40	94	4918.34	-15.67	15.74	N	11.89	E	19.73	37.07	0.04	0.00	0.74
51	MWD	5014.00	3.00	25.60	94	5012.22	-19.97	20.05	N	13.90	E	24.40	34.74	0.22	0.21	1.28
52	MWD	5109.00	3.00	14.90	95	5107.09	-24.61	24.70	N	15.62	E	29.22	32.31	0.59	0.00	-11.26
53	MWD	5203.00	3.00	13.10	94	5200.96	-29.37	29.47	N	16.81	E	33.92	29.70	0.10	0.00	-1.91
54	MWD	5392.00	2.80	20.20	189	5389.72	-38.50	38.62	N	19.52	E	43.27	26.82	0.22	-0.11	3.76
55	MWD	5487.00	2.60	352.00	95	5484.62	-42.81	42.93	N	20.02	E	47.37	25.01	1.40	-0.21	349.26
56	MWD	5581.00	3.50	344.50	94	5578.49	-47.70	47.81	N	18.96	E	51.43	21.63	1.05	0.96	-7.98
57	MWD	5675.00	3.50	334.10	94	5672.31	-53.05	53.15	N	16.94	E	55.79	17.68	0.67	0.00	-11.06
58	MWD	5769.00	4.00	338.00	94	5766.11	-58.69	58.77	N	14.46	E	60.53	13.82	0.60	0.53	4.15
59	MWD	5863.00	4.00	340.60	94	5859.88	-64.83	64.91	N	12.14	E	66.03	10.60	0.19	0.00	2.77
60	MWD	5957.00	4.20	336.40	94	5953.64	-71.09	71.15	N	9.67	E	71.81	7.74	0.38	0.21	-4.47
61	MWD	6051.00	3.90	331.80	94	6047.41	-77.08	77.12	N	6.79	E	77.42	5.03	0.47	-0.32	-4.89
62	MWD	6146.00	3.90	339.50	95	6142.19	-82.97	83.00	N	4.13	E	83.10	2.85	0.55	0.00	8.11
63	MWD	6240.00	4.00	339.40	94	6235.96	-89.05	89.06	N	1.85	E	89.08	1.19	0.11	0.11	-0.11
64	MWD	6334.00	4.40	331.80	94	6329.71	-95.31	95.31	N	1.00	W	95.31	359.40	0.73	0.43	-8.09
65	MWD	6429.00	4.60	338.80	95	6424.42	-102.09	102.07	N	4.10	W	102.15	357.70	0.61	0.21	7.37
66	MWD	6523.00	4.40	334.10	94	6518.13	-108.87	108.83	N	7.04	W	109.06	356.30	0.45	-0.21	-5.00
67	MWD	6617.00	4.40	334.60	94	6611.85	-115.39	115.33	N	10.16	W	115.78	354.96	0.04	0.00	0.53
68	MWD	6712.00	4.40	332.00	95	6706.57	-121.91	121.84	N	13.44	W	122.58	353.71	0.21	0.00	-2.74
69	MWD	6806.00	4.60	334.60	94	6800.28	-128.52	128.43	N	16.75	W	129.51	352.57	0.30	0.21	2.77
70	MWD	6901.00	3.50	334.80	95	6895.05	-134.60	134.49	N	19.62	W	135.92	351.70	1.16	-1.16	0.21
71	MWD	6995.00	3.90	332.30	94	6988.85	-140.05	139.92	N	22.32	W	141.69	350.94	0.46	0.43	-2.66
72	MWD	7090.00	3.70	340.30	95	7083.64	-145.81	145.67	N	24.86	W	147.77	350.32	0.60	-0.21	8.42
73	MWD	7184.00	2.60	347.50	94	7177.50	-150.75	150.60	N	26.34	W	152.89	350.08	1.24	-1.17	7.66
74	MWD	7278.00	2.60	351.50	94	7271.40	-154.95	154.79	N	27.12	W	157.15	350.06	0.19	0.00	4.26
75	MWD	7373.00	2.30	338.10	95	7366.31	-158.85	158.69	N	28.15	W	161.17	349.94	0.68	-0.32	-14.11
76	MWD	7467.00	2.60	1.90	94	7460.23	-162.74	162.57	N	28.78	W	165.10	349.96	1.12	0.32	-357.66
77	MWD	7561.00	2.60	3.80	94	7554.13	-166.99	166.83	N	28.57	W	169.26	350.28	0.09	0.00	2.02

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Vertical Section Plane: 179.67
WELL API #: 30-025-42735
Tie Into: Surface

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Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
78	MWD	7750.00	1.90	358.90	189	7742.99	-174.40	174.24 N	28.34 W	176.53	350.76	0.38	-0.37	187.88
79	MWD	7845.00	1.60	2.90	95	7837.94	-177.30	177.14 N	28.31 W	179.39	350.92	0.34	-0.32	-374.74
80	MWD	7939.00	1.60	0.60	94	7931.91	-179.92	179.76 N	28.23 W	181.97	351.08	0.07	0.00	-2.45
81	MWD	8033.00	1.60	341.30	94	8025.87	-182.48	182.32 N	28.63 W	184.55	351.07	0.57	0.00	362.45
82	MWD	8127.00	0.90	338.30	94	8119.85	-184.41	184.25 N	29.33 W	186.57	350.96	0.75	-0.74	-3.19
83	MWD	8221.00	0.90	21.40	94	8213.84	-185.79	185.62 N	29.33 W	187.92	351.02	0.70	0.00	-337.13
84	MWD	8316.00	0.90	31.10	95	8308.83	-187.12	186.96 N	28.67 W	189.14	351.28	0.16	0.00	10.21
85	MWD	8411.00	1.10	29.80	95	8403.81	-188.54	188.39 N	27.84 W	190.43	351.59	0.21	0.21	-1.37
86	MWD	8505.00	0.90	62.90	94	8497.80	-189.66	189.50 N	26.73 W	191.38	351.97	0.64	-0.21	35.21
87	MWD	8600.00	1.10	36.50	95	8592.78	-190.72	190.58 N	25.52 W	192.28	352.37	0.52	0.21	-27.79
88	MWD	8694.00	0.70	15.60	94	8686.77	-192.00	191.86 N	24.83 W	193.46	352.62	0.54	-0.43	-22.23
89	MWD	8788.00	0.70	40.90	94	8780.76	-192.98	192.84 N	24.30 W	194.37	352.82	0.33	0.00	26.91
90	MWD	8883.00	0.50	26.80	95	8875.76	-193.78	193.65 N	23.74 W	195.10	353.01	0.26	-0.21	-14.84
91	MWD	8977.00	0.70	354.10	94	8969.75	-194.72	194.59 N	23.61 W	196.02	353.08	0.41	0.21	348.19
92	MWD	9072.00	0.50	46.00	95	9064.75	-195.59	195.45 N	23.37 W	196.85	353.18	0.58	-0.21	-324.32
93	MWD	9166.00	0.20	280.80	94	9158.75	-195.90	195.77 N	23.24 W	197.14	353.23	0.68	-0.32	249.79
94	MWD	9260.00	0.40	295.80	94	9252.75	-196.08	195.94 N	23.69 W	197.37	353.11	0.23	0.21	15.96
95	MWD	9362.00	0.20	342.70	102	9354.75	-196.40	196.27 N	24.07 W	197.74	353.01	0.30	-0.20	45.98
96	MWD	9456.00	0.40	324.80	94	9448.74	-196.83	196.69 N	24.31 W	198.19	352.96	0.23	0.21	-19.04
97	MWD	9550.00	0.40	335.30	94	9542.74	-197.40	197.26 N	24.63 W	198.79	352.88	0.08	0.00	11.17
98	MWD	9645.00	0.40	307.70	95	9637.74	-197.90	197.76 N	25.03 W	199.34	352.79	0.20	0.00	-29.05
99	MWD	9739.00	1.60	185.70	94	9731.73	-196.80	196.66 N	25.42 W	198.29	352.63	1.96	1.28	-129.79
100	MWD	9786.00	6.50	187.50	47	9778.60	-193.51	193.37 N	25.84 W	195.08	352.39	10.43	10.43	3.83
101	MWD	9834.00	11.30	187.30	48	9826.01	-186.15	186.00 N	26.79 W	187.92	351.80	10.00	10.00	-0.42
102	MWD	9881.00	16.50	181.50	47	9871.62	-174.91	174.76 N	27.55 W	176.91	351.04	11.44	11.06	-12.34
103	MWD	9928.00	20.40	174.70	47	9916.20	-160.07	159.92 N	26.97 W	162.18	350.43	9.46	8.30	-14.47
104	MWD	9975.00	25.50	173.60	47	9959.46	-141.84	141.70 N	25.08 W	143.90	349.96	10.89	10.85	-2.34
105	MWD	10022.00	30.40	173.80	47	10000.97	-119.94	119.81 N	22.67 W	121.93	349.29	10.43	10.43	0.43
106	MWD	10069.00	36.80	174.70	47	10040.09	-94.05	93.94 N	20.08 W	96.06	347.93	13.66	13.62	1.91
107	MWD	10116.00	42.60	175.90	47	10076.24	-64.13	64.03 N	17.64 W	66.42	344.60	12.45	12.34	2.55
108	MWD	10163.00	48.20	177.80	47	10109.23	-30.72	30.63 N	15.83 W	34.48	332.67	12.26	11.91	4.04
109	MWD	10210.00	50.10	179.20	47	10139.97	4.82	4.90 S	14.90 W	15.69	251.79	4.63	4.04	2.98
110	MWD	10257.00	52.80	178.70	47	10169.26	41.57	41.65 S	14.23 W	44.01	198.86	5.80	5.74	-1.06
111	MWD	10305.00	58.60	178.90	48	10196.30	81.20	81.28 S	13.40 W	82.38	189.36	12.09	12.08	0.42
112	MWD	10352.00	64.80	179.40	47	10218.57	122.56	122.64 S	12.79 W	123.30	185.95	13.22	13.19	1.06
113	MWD	10399.00	68.10	179.40	47	10237.35	165.64	165.71 S	12.34 W	166.17	184.26	7.02	7.02	0.00
114	MWD	10446.00	69.90	179.10	47	10254.19	209.51	209.59 S	11.77 W	209.92	183.21	3.88	3.83	-0.64
115	MWD	10493.00	70.90	179.60	47	10269.95	253.79	253.86 S	11.26 W	254.11	182.54	2.35	2.13	1.06
116	MWD	10540.00	72.80	179.60	47	10284.59	298.45	298.52 S	10.95 W	298.72	182.10	4.04	4.04	0.00
117	MWD	10588.00	74.40	179.20	48	10298.15	344.49	344.56 S	10.47 W	344.72	181.74	3.43	3.33	-0.83

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Calculation Method Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
118	MWD	10635.00	75.80	178.90	47	10310.23	389.91	389.97 S	9.72 W	390.09	181.43	3.04	2.98	-0.64
119	MWD	10682.00	79.20	179.20	47	10320.40	435.79	435.85 S	8.96 W	435.94	181.18	7.26	7.23	0.64
120	MWD	10729.00	83.40	179.10	47	10327.51	482.23	482.29 S	8.27 W	482.36	180.98	8.94	8.94	-0.21
121	MWD	10776.00	86.90	178.00	47	10331.48	529.05	529.10 S	7.08 W	529.15	180.77	7.80	7.45	-2.34
122	MWD	10843.00	87.80	178.40	67	10334.58	595.95	595.99 S	4.98 W	596.01	180.48	1.47	1.34	0.60
123	MWD	10899.00	87.30	178.40	56	10336.97	651.89	651.92 S	3.42 W	651.93	180.30	0.89	-0.89	0.00
124	MWD	10994.00	86.70	179.20	95	10341.95	746.75	746.77 S	1.43 W	746.77	180.11	1.05	-0.63	0.84
125	MWD	11089.00	86.00	179.80	95	10347.99	841.55	841.57 S	0.60 W	841.57	180.04	0.97	-0.74	0.63
126	MWD	11183.00	86.90	179.10	94	10353.81	935.37	935.38 S	0.30 E	935.38	179.98	1.21	0.96	-0.74
127	MWD	11277.00	86.70	179.20	94	10359.06	1029.22	1029.23 S	1.69 E	1029.23	179.91	0.24	-0.21	0.11
128	MWD	11372.00	87.30	179.80	95	10364.03	1124.09	1124.09 S	2.52 E	1124.09	179.87	0.89	0.63	0.63
129	MWD	11466.00	89.60	179.40	94	10366.58	1218.05	1218.05 S	3.18 E	1218.05	179.85	2.48	2.45	-0.43
130	MWD	11561.00	89.70	179.40	95	10367.16	1313.04	1313.04 S	4.17 E	1313.05	179.82	0.11	0.11	0.00
131	MWD	11655.00	89.70	179.80	94	10367.65	1407.04	1407.04 S	4.83 E	1407.05	179.80	0.43	0.00	0.43
132	MWD	11750.00	88.20	179.20	95	10369.39	1502.02	1502.01 S	5.66 E	1502.03	179.78	1.70	-1.58	-0.63
133	MWD	11844.00	87.60	179.80	94	10372.83	1595.96	1595.95 S	6.47 E	1595.96	179.77	0.90	-0.64	0.64
134	MWD	11939.00	87.30	180.50	95	10377.06	1690.86	1690.85 S	6.23 E	1690.86	179.79	0.80	-0.32	0.74
135	MWD	12033.00	88.90	180.10	94	10380.18	1784.80	1784.80 S	5.73 E	1784.81	179.82	1.75	1.70	-0.43
136	MWD	12127.00	88.50	180.50	94	10382.31	1878.77	1878.77 S	5.24 E	1878.78	179.84	0.60	-0.43	0.43
137	MWD	12221.00	88.20	180.80	94	10385.02	1972.72	1972.72 S	4.18 E	1972.73	179.88	0.45	-0.32	0.32
138	MWD	12315.00	88.50	179.40	94	10387.72	2066.67	2066.68 S	4.01 E	2066.69	179.89	1.52	0.32	-1.49
139	MWD	12410.00	88.70	179.20	95	10390.04	2161.64	2161.65 S	5.17 E	2161.65	179.86	0.30	0.21	-0.21
140	MWD	12504.00	89.00	179.60	94	10391.93	2255.62	2255.62 S	6.16 E	2255.63	179.84	0.53	0.32	0.43
141	MWD	12599.00	88.50	179.80	95	10394.00	2350.60	2350.60 S	6.65 E	2350.61	179.84	0.57	-0.53	0.21
142	MWD	12693.00	90.30	179.10	94	10394.99	2444.59	2444.59 S	7.56 E	2444.60	179.82	2.05	1.91	-0.74
143	MWD	12788.00	90.80	179.10	95	10394.08	2539.58	2539.57 S	9.05 E	2539.58	179.80	0.53	0.53	0.00
144	MWD	12882.00	88.30	179.20	94	10394.81	2633.56	2633.55 S	10.44 E	2633.57	179.77	2.66	-2.66	0.11
145	MWD	12977.00	89.60	179.40	95	10396.56	2728.54	2728.52 S	11.60 E	2728.55	179.76	1.38	1.37	0.21
146	MWD	13071.00	90.10	179.90	94	10396.80	2822.54	2822.52 S	12.18 E	2822.55	179.75	0.75	0.53	0.53
147	MWD	13166.00	89.90	180.10	95	10396.80	2917.54	2917.52 S	12.18 E	2917.55	179.76	0.30	-0.21	0.21
148	MWD	13260.00	89.70	180.80	94	10397.13	3011.53	3011.52 S	11.44 E	3011.54	179.78	0.77	-0.21	0.74
149	MWD	13354.00	89.40	179.20	94	10397.87	3105.52	3105.51 S	11.44 E	3105.53	179.79	1.73	-0.32	-1.70
150	MWD	13449.00	90.10	178.50	95	10398.28	3200.51	3200.49 S	13.35 E	3200.52	179.76	1.04	0.74	-0.74
151	MWD	13543.00	90.40	178.90	94	10397.87	3294.50	3294.46 S	15.48 E	3294.50	179.73	0.53	0.32	0.43
152	MWD	13638.00	90.40	179.60	95	10397.21	3389.49	3389.45 S	16.72 E	3389.49	179.72	0.74	0.00	0.74
153	MWD	13732.00	90.10	179.90	94	10396.80	3483.49	3483.45 S	17.13 E	3483.49	179.72	0.45	-0.32	0.32
154	MWD	13826.00	89.60	180.50	94	10397.04	3577.49	3577.45 S	16.80 E	3577.49	179.73	0.83	-0.53	0.64
155	MWD	13920.00	89.20	180.80	94	10398.03	3671.47	3671.44 S	15.74 E	3671.47	179.75	0.53	-0.43	0.32
156	MWD	14015.00	90.10	180.10	95	10398.61	3766.45	3766.43 S	14.99 E	3766.46	179.77	1.20	0.95	-0.74
157	MWD	14109.00	89.90	180.10	94	10398.61	3860.45	3860.43 S	14.83 E	3860.46	179.78	0.21	-0.21	0.00

DRILTECH MWD SURVEY REPORT

Company: EOG Resources, Inc.
Well: Tour Bus 23 State #502H
Location: Lea County, NM
Rig: H&P 415

Job Number: M-2015-097-EODT-NM
Vertical Section Plane: 179.67
WELL API #: 30-025-42735
Tie Into: Surface

Calculation Method Minimum Curvature

Survey #	Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
158	MWD	14204.00	89.40	180.50	95	10399.19	3955.44	3955.43 S	14.33 E	3955.45	179.79	0.67	-0.53	0.42
159	MWD	14298.00	89.40	178.70	94	10400.17	4049.44	4049.42 S	14.99 E	4049.44	179.79	1.91	0.00	-1.91
160	MWD	14393.00	89.60	178.50	95	10401.00	4144.41	4144.38 S	17.31 E	4144.42	179.76	0.30	0.21	-0.21
161	MWD	14488.00	89.70	178.50	95	10401.58	4239.39	4239.35 S	19.79 E	4239.40	179.73	0.11	0.11	0.00
162	MWD	14582.00	89.40	178.20	94	10402.32	4333.37	4333.31 S	22.50 E	4333.37	179.70	0.45	-0.32	-0.32
163	MWD	14677.00	88.50	178.20	95	10404.06	4428.32	4428.24 S	25.48 E	4428.32	179.67	0.95	-0.95	0.00
164	MWD	14771.00	87.60	178.00	94	10407.26	4522.23	4522.14 S	28.60 E	4522.23	179.64	0.98	-0.96	-0.21
165	MWD	14865.00	88.70	179.20	94	10410.30	4616.16	4616.06 S	30.89 E	4616.16	179.62	1.73	1.17	1.28
166	MWD	14960.00	88.30	179.10	95	10412.78	4711.12	4711.01 S	32.30 E	4711.12	179.61	0.43	-0.42	-0.11
167	PTB	15083.00	88.30	179.10	123	10416.43	4834.06	4833.94 S	34.23 E	4834.06	179.59	0.00	0.00	0.00