DRILTECH MWD SURVEY REPORT

Company:	EOG Resources, Inc.	Job Number:	2015-069-EODT-NM
Well:	Ross Draw 8 Fed #1H	Vertical Section Plane:	181.53
Location:	Eddy County, NM	WELL API #:	30-015-39248
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')
Tie In	Surface	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	197.00	1.60	310.40	197	196.97	-1.73	1.78 N	2.09 W	2.75	310.40	0.81	0.81
2	MWD	257.00	1.60	300.60	60	256.95	-2.66	2.75 N	3.45 W	4.42	308.55	0.46	0.00
3	MWD	318.00	1.60	297.90	61	317.93	-3.45	3.58 N	4.94 W	6.10	305.97	0.12	0.00
4	MWD	416.00	1.20	297.40	98	415.90	-4.51	4.70 N	7.06 W	8.48	303.63	0.41	-0.41
5	MWD	508.00	1.20	294.20	92	507.88	-5.30	5.53 N	8.79 W	10.39	302.19	0.07	0.00
6	MWD	600.00	0.70	335.00	92	599.87	-6.17	6.44 N	9.91 W	11.82	303.01	0.88	-0.54
7	MWD	691.00	0.70	327.60	91	690.86	-7.13	7.41 N	10.44 W	12.81	305.37	0.10	0.00
8	MWD	786.00	0.20	349.40	95	785.86	-7.77	8.06 N	10.78 W	13.47	306.79	0.55	-0.53
9	MWD	881.00	0.90	96.30	95	880.85	-7.87	8.15 N	10.07 W	12.95	308.96	1.03	0.74
10	MWD	975.00	1.10	103.20	94	974.84	-7.63	7.86 N	8.46 W	11.55	312.89	0.25	0.21
11	MWD	1070.00	1.20	124.60	95	1069.82	-6.90	7.09 N	6.75 W	9.79	316.37	0.46	0.11
12	MWD	1165.00	1.90	158.70	95	1164.79	-4.91	5.05 N	5.36 W	7.37	313.30	1.19	0.74
13	MWD	1259.00	2.10	164.50	94	1258.73	-1.83	1.94 N	4.34 W	4.75	294.13	0.30	0.21
14	MWD	1353.00	2.60	168.90	94	1352.65	1.90	1.81 S	3.47 W	3.91	242.43	0.57	0.53
15	MWD	1448.00	3.30	185.60	95	1447.52	6.73	6.65 S	3.32 W	7.43	206.53	1.16	0.74
16	MWD	1473.00	3.50	187.70	25	1472.48	8.21	8.12 S	3.49 W	8.84	203.27	0.94	0.80
17	MWD	1646.00	4.00	199.30	173	1645.11	19.20	19.05 S	6.19 W	20.03	198.01	0.52	0.29
18	MWD	1741.00	2.80	209.30	95	1739.94	24.41	24.20 S	8.42 W	25.62	199.19	1.40	-1.26
19	MWD	1835.00	1.60	268.20	94	1833.88	26.52	26.24 S	10.86 W	28.40	202.48	2.56	-1.28
20	MWD	1929.00	2.80	328.70	94	1927.82	24.67	24.32 S	13.36 W	27.75	208.79	2.60	1.28
21	MWD	2024.00	3.50	339.80	95	2022.68	20.02	19.62 S	15.57 W	25.04	218.44	0.97	0.74
22	MWD	2118.00	3.70	347.50	94	2116.49	14.42	13.96 S	17.22 W	22.17	230.96	0.56	0.21
23	MWD	2213.00	3.90	353.80	95	2211.29	8.24	7.76 S	18.23 W	19.81	246.95	0.49	0.21
24	MWD	2307.00	3.70	1.70	94	2305.08	2.04	1.55 S	18.49 W	18.55	265.21	0.60	-0.21
25	MWD	2496.00	3.20	7.20	189	2493.74	-9.31	9.78 N	17.64 W	20.17	299.01	0.32	-0.26
26	MWD	2590.00	3.00	357.20	94	2587.60	-14.37	14.84 N	17.43 W	22.90	310.41	0.61	-0.21
27	MWD	2684.00	3.00	353.30	94	2681.47	-19.26	19.74 N	17.84 W	26.61	317.89	0.22	0.00
28	MWD	2779.00	2.60	354.30	95	2776.36	-23.86	24.35 N	18.35 W	30.49	323.01	0.42	-0.42
29	MWD	2873.00	2.50	355.00	94	2870.26	-28.01	28.52 N	18.74 W	34.12	326.70	0.11	-0.11
30	MWD	2967.00	2.50	352.10	94	2964.18	-32.07	32.59 N	19.20 W	37.82	329.50	0.13	0.00
31	MWD	3061.00	2.60	352.40	94	3058.08	-36.19	36.74 N	19.76 W	41.71	331.72	0.11	0.11
32	MWD	3156.00	2.50	353.60	95	3152.99	-40.37	40.93 N	20.28 W	45.68	333.65	0.12	-0.11
33	MWD	3250.00	2.50	352.80	94	3246.90	-44.43	45.00 N	20.76 W	49.56	335.23	0.04	0.00
34	MWD	3345.00	2.10	357.00	95	3341.82	-48.21	48.80 N	21.11 W	53.17	336.60	0.46	-0.42
35	MWD	3439.00	1.20	14.60	94	3435.78	-50.89	51.47 N	20.95 W	55.57	337.85	1.09	-0.96
36	MWD	3533.00	1.40	18.40	94	3529.76	-52.95	53.51 N	20.34 W	57.25	339.18	0.23	0.21
37	MWD	3628.00	1.10	28.10	95	3624.74	-54.87	55.42 N	19.55 W	58.76	340.57	0.39	-0.32

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Well: Ross Draw 8 Fed #1H | Vertical Section Plane: 181.53
Location: Eddy County, NM | WELL API #: 30-015-39248
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')
38	MWD	3722.00	1.10	51.60	94	3718.72	-56.26	56.77 N	18.42 W	59.68	342.03	0.48	0.00
39	MWD	3816.00	1.20	78.90	94	3812.70	-57.05	57.52 N	16.74 W	59.91	343.77	0.59	0.11
40	MWD	3992.00	1.10	78.70	176	3988.67	-57.83	58.21 N	13.28 W	59.70	347.15	0.06	-0.06
41	MWD	4086.00	1.90	351.20	94	4082.64	-59.57	59.92 N	12.63 W	61.24	348.10	2.29	0.85
42	MWD	4181.00	3.90	339.60	95	4177.52	-64.11	64.51 N	14.00 W	66.01	347.76	2.18	2.11
43	MWD	4275.00	3.70	339.80	94	4271.31	-69.90	70.35 N	16.16 W	72.18	347.06	0.21	-0.21
44	MWD	4369.00	3.90	336.10	94	4365.10	-75.60	76.12 N	18.50 W	78.34	346.34	0.34	0.21
45	MWD	4464.00	3.70	335.90	95	4459.89	-81.28	81.87 N	21.06 W	84.54	345.57	0.21	-0.21
46	MWD	4558.00	3.70	335.50	94	4553.70	-86.74	87.40 N	23.56 W	90.52	344.91	0.03	0.00
47	MWD	4652.00	3.70	334.00	94	4647.50	-92.16	92.89 N	26.15 W	96.50	344.28	0.10	0.00
48	MWD	4746.00	3.90	330.80	94	4741.29	-97.59	98.40 N	29.04 W	102.60	343.56	0.31	0.21
49	MWD	4840.00	4.00	332.50	94	4835.07	-103.21	104.10 N	32.11 W	108.94	342.86	0.16	0.11
50	MWD	4934.00	4.00	331.30	94	4928.84	-108.91	109.89 N	35.20 W	115.39	342.24	0.09	0.00
51	MWD	5029.00	3.70	329.40	95	5023.63	-114.37	115.43 N	38.35 W	121.64	341.62	0.34	-0.32
52	MWD	5123.00	3.90	328.30	94	5117.42	-119.61	120.76 N	41.57 W	127.72	341.00	0.23	0.21
53	MWD	5217.00	3.90	326.90	94	5211.20	-124.91	126.16 N	45.00 W	133.94	340.37	0.10	0.00
54	MWD	5312.00	4.00	326.70	95	5305.98	-130.29	131.64 N	48.58 W	140.31	339.74	0.11	0.11
55	MWD	5407.00	4.20	327.80	95	5400.73	-135.90	137.35 N	52.25 W	146.95	339.17	0.23	0.21
56	MWD	5595.00	4.40	330.10	188	5588.21	-147.78	149.43 N	59.52 W	160.84	338.28	0.14	0.11
57	MWD	5690.00	4.00	327.80	95	5682.95	-153.65	155.39 N	63.10 W	167.71	337.90	0.46	-0.42
58	MWD	5784.00	4.20	328.20	94	5776.71	-159.25	161.09 N	66.66 W	174.34	337.52	0.21	0.21
59	MWD	5878.00	3.90	327.80	94	5870.47	-164.79	166.72 N	70.18 W	180.89	337.17	0.32	-0.32
60	MWD	5973.00	4.00	327.80	95	5965.25	-170.23	172.26 N	73.67 W	187.35	336.85	0.11	0.11
61	MWD	6067.00	3.90	324.10	94	6059.03	-175.49	177.62 N	77.29 W	193.71	336.48	0.29	-0.11
62	MWD	6162.00	3.90	319.40	95	6153.81	-180.46	182.69 N	81.28 W	199.96	336.01	0.34	0.00
63	MWD	6256.00	3.70	320.40	94	6247.60	-185.11	187.45 N	85.30 W	205.95	335.53	0.22	-0.21
64	MWD	6350.00	3.50	320.10	94	6341.41	-189.55	191.99 N	89.07 W	211.65	335.11	0.21	-0.21
65	MWD	6445.00	3.50	315.70	95	6436.24	-193.74	196.29 N	92.96 W	217.19	334.66	0.28	0.00
66	MWD	6539.00	3.20	325.70	94	6530.08	-197.87	200.51 N	96.44 W	222.50	334.31	0.70	-0.32
67	MWD	6633.00	3.20	330.30	94	6623.93	-202.24	204.96 N	99.22 W	227.71	334.17	0.27	0.00
68	MWD	6727.00	2.60	329.20	94	6717.81	-206.28	209.07 N	101.61 W	232.45	334.08	0.64	-0.64
69	MWD	6822.00	2.80	320.90	95	6812.70	-209.86	212.72 N	104.18 W	236.86	333.91	0.46	0.21
70	MWD	6916.00	2.50	320.90	94	6906.60	-213.16	216.09 N	106.92 W	241.10	333.68	0.32	-0.32
71	MWD	7010.00	2.50	322.50	94	7000.51	-216.31	219.31 N	109.46 W	245.11	333.48	0.07	0.00
72	MWD	7105.00	2.30	319.50	95	7095.43	-219.34	222.41 N	111.96 W	249.00	333.28	0.25	-0.21
73	MWD	7199.00	1.90	344.70	94	7189.37	-222.23	225.34 N	113.59 W	252.36	333.25	1.06	-0.43
74	MWD	7293.00	1.90	353.50	94	7283.32	-225.26	228.39 N	114.18 W	255.35	333.44	0.31	0.00
75	MWD	7387.00	1.80	1.00	94	7377.27	-228.28	231.42 N	114.33 W	258.12	333.71	0.28	-0.11
76	MWD	7481.00	1.60	0.80	94	7471.23	-231.07	234.21 N	114.29 W	260.60	333.99	0.21	-0.21
77	MWD	7575.00	1.80	1.90	94	7565.19	-233.86	236.99 N	114.22 W	263.08	334.27	0.22	0.21
78	MWD	7670.00	1.60	1.60	95	7660.14	-236.68	239.81 N	114.13 W	265.59	334.55	0.21	-0.21

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Location: Eddy County, NM | WELL API #: 30-015-39248
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')
79	MWD	7764.00	1.40	5.20	94	7754.11	-239.14	242.27 N	113.99 W	267.75	334.80	0.24	-0.21
80	MWD	7858.00	0.90	352.10	94	7848.09	-241.01	244.14 N	113.99 W	269.44	334.97	0.60	-0.53
81	MWD	7953.00	1.60	334.00	95	7943.07	-242.92	246.07 N	114.67 W	271.48	335.01	0.84	0.74
82	MWD	8047.00	1.60	333.40	94	8037.03	-245.24	248.43 N	115.84 W	274.11	335.00	0.02	0.00
83	MWD	8141.00	1.20	323.10	94	8131.01	-247.17	250.39 N	117.02 W	276.38	334.95	0.50	-0.43
84	MWD	8236.00	1.40	331.70	95	8225.98	-248.96	252.20 N	118.16 W	278.51	334.90	0.29	0.21
85	MWD	8330.00	1.10	359.30	94	8319.96	-250.86	254.12 N	118.72 W	280.48	334.96	0.71	-0.32
86	MWD	8424.00	1.10	16.30	94	8413.94	-252.63	255.89 N	118.48 W	281.98	335.16	0.35	0.00
87	MWD	8518.00	1.60	13.30	94	8507.92	-254.79	258.03 N	117.92 W	283.70	335.44	0.54	0.53
88	MWD	8613.00	1.80	9.80	95	8602.87	-257.56	260.79 N	117.36 W	285.98	335.77	0.24	0.21
89	MWD	8707.00	1.40	15.40	94	8696.84	-260.14	263.35 N	116.81 W	288.09	336.08	0.46	-0.43
90	MWD	8801.00	1.40	14.90	94	8790.81	-262.37	265.57 N	116.21 W	289.88	336.37	0.01	0.00
91	MWD	8896.00	0.70	6.60	95	8885.79	-264.08	267.27 N	115.84 W	291.29	336.57	0.75	-0.74
92	MWD	8990.00	0.70	317.40	94	8979.79	-265.06	268.26 N	116.16 W	292.33	336.59	0.62	0.00
93	MWD	9085.00	0.70	315.30	95	9074.78	-265.88	269.10 N	116.96 W	293.42	336.51	0.03	0.00
94	MWD	9179.00	0.50	291.10	94	9168.77	-266.41	269.65 N	117.75 W	294.24	336.41	0.34	-0.21
95	MWD	9273.00	0.90	280.00	94	9262.77	-266.66	269.93 N	118.86 W	294.94	336.23	0.45	0.43
96	MWD	9366.00	3.20	194.70	93	9355.71	-264.24	267.55 N	120.24 W	293.32	335.80	3.50	2.47
97	MWD	9413.00	9.50	176.10	47	9402.41	-259.10	262.40 N	120.31 W	288.67	335.37	13.93	13.40
98	MWD	9461.00	13.70	176.30	48	9449.41	-249.49	252.77 N	119.67 W	279.67	334.67	8.75	8.75
99	MWD	9508.00	17.20	176.50	47	9494.71	-237.02	240.28 N	118.89 W	268.08	333.67	7.45	7.45
100	MWD	9555.00	19.70	174.90	47	9539.29	-222.23	225.45 N	117.76 W	254.35	332.42	5.43	5.32
101	MWD	9602.00	24.10	173.60	47	9582.89	-204.84	208.02 N	115.99 W	238.17	330.86	9.42	9.36
102	MWD	9649.00	29.20	174.00	47	9624.88	-183.96	187.06 N	113.72 W	218.92	328.70	10.86	10.85
103	MWD	9696.00	35.00	175.40	47	9664.68	-159.17	162.20 N	111.43 W	196.79	325.51	12.44	12.34
104	MWD	9744.00	37.70	179.40	48	9703.34	-130.81	133.80 N	110.18 W	173.32	320.53	7.48	5.63
105	MWD	9791.00	39.10	182.40	47	9740.18	-101.62	104.62 N	110.65 W	152.27	313.40	4.96	2.98
106	MWD	9838.00	42.10	182.80	47	9775.86	-71.05	74.06 N	112.04 W	134.30	303.47	6.41	6.38
107	MWD	9885.00	45.40	182.80	47	9809.80	-38.56	41.61 N	113.62 W	121.00	290.11	7.02	7.02
108	MWD	9932.00	48.40	181.40	47	9841.92	-4.25	7.32 N	114.87 W	115.10	273.64	6.74	6.38
109	MWD	9979.00	53.10	183.50	47	9871.65	32.13	29.03 S	116.45 W	120.01	256.00	10.58	10.00
110	MWD	10026.00	57.50	185.60	47	9898.40	70.70	67.54 S	119.53 W	137.29	240.53	10.06	9.36
111	MWD	10073.00	63.90	187.70	47	9921.39	111.50	108.22 S	124.30 W	164.81	228.96	14.16	13.62
112	MWD	10121.00	68.60	185.60	48	9940.72	155.25	151.85 S	129.37 W	199.48	220.43	10.58	9.79
113	MWD	10168.00	73.50	185.60	47	9955.98	199.57	196.07 S	133.71 W	237.32	214.29	10.43	10.43
114	MWD	10215.00	77.80	183.70	47	9967.62	245.03	241.44 S	137.39 W	277.80	209.64	9.95	9.15
115	MWD	10271.00	83.60	183.50	56	9976.67	300.23	296.58 S	140.86 W	328.33	205.41	10.36	10.36
116	MWD	10310.00	85.90	180.50	39	9980.24	339.06	335.38 S	142.21 W	364.29	202.98	9.67	5.90
117	MWD	10341.00	89.90	178.40	31	9981.37	370.01	366.35 S	141.91 W	392.88	201.17	14.57	12.90
118	MWD	10373.00	93.30	176.80	32	9980.48	401.92	398.30 S	140.57 W	422.38	199.44	11.74	10.63
119	MWD	10404.00	94.30	176.30	31	9978.43	432.73	429.18 S	138.71 W	451.04	197.91	3.60	3.23

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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')
120	MWD	10445.00	95.90	177.20	41	9974.78	473.42	469.95 S	136.40 W	489.34	196.18	4.47	3.90
121	MWD	10467.00	96.60	177.30	22	9972.39	495.23	491.79 S	135.35 W	510.08	195.39	3.21	3.18
122	MWD	10498.00	97.50	177.00	31	9968.58	525.91	522.52 S	133.82 W	539.38	194.36	3.06	2.90
123	MWD	10561.00	97.30	178.00	63	9960.47	588.23	584.94 S	131.09 W	599.45	192.63	1.61	-0.32
124	MWD	10593.00	94.80	178.60	32	9957.09	620.00	616.74 S	130.15 W	630.32	191.92	8.03	-7.81
125	MWD	10624.00	92.70	178.60	31	9955.07	650.89	647.66 S	129.39 W	660.46	191.30	6.77	-6.77
126	MWD	10656.00	91.10	178.20	32	9954.01	682.82	679.63 S	128.50 W	691.67	190.71	5.15	-5.00
127	MWD	10687.00	91.10	178.00	31	9953.41	713.76	710.61 S	127.47 W	721.95	190.17	0.65	0.00
128	MWD	10718.00	92.00	178.40	31	9952.57	744.70	741.58 S	126.50 W	752.29	189.68	3.18	2.90
129	MWD	10815.00	90.80	178.20	97	9950.20	841.51	838.51 S	123.62 W	847.57	188.39	1.25	-1.24
130	MWD	10910.00	91.00	178.70	95	9948.71	936.36	933.46 S	121.05 W	941.28	187.39	0.57	0.21
131	MWD	11004.00	91.10	178.90	94	9946.99	1030.24	1027.43 S	119.09 W	1034.30	186.61	0.24	0.11
132	MWD	11099.00	89.90	178.70	95	9946.16	1125.13	1122.40 S	117.10 W	1128.49	185.96	1.28	-1.26
133	MWD	11193.00	90.80	178.90	94	9945.58	1219.02	1216.38 S	115.13 W	1221.81	185.41	0.98	0.96
134	MWD	11287.00	90.10	179.40	94	9944.85	1312.93	1310.36 S	113.73 W	1315.29	184.96	0.92	-0.74
135	MWD	11382.00	90.80	180.00	95	9944.10	1407.88	1405.36 S	113.24 W	1409.91	184.61	0.97	0.74
136	MWD	11477.00	89.70	180.30	95	9943.69	1502.85	1500.35 S	113.49 W	1504.64	184.33	1.20	-1.16
137	MWD	11571.00	90.80	180.70	94	9943.28	1596.83	1594.35 S	114.31 W	1598.44	184.10	1.25	1.17
138	MWD	11665.00	90.40	180.80	94	9942.29	1690.82	1688.33 S	115.54 W	1692.28	183.91	0.44	-0.43
139	MWD	11760.00	88.50	180.80	95	9943.20	1785.80	1783.32 S	116.86 W	1787.14	183.75	2.00	-2.00
140	MWD	11854.00	90.30	181.40	94	9944.19	1879.79	1877.29 S	118.67 W	1881.04	183.62	2.02	1.91
141	MWD	11948.00	90.40	181.00	94	9943.61	1973.79	1971.27 S	120.63 W	1974.96	183.50	0.44	0.11
142	MWD	12042.00	90.10	180.50	94	9943.20	2067.78	2065.26 S	121.87 W	2068.85	183.38	0.62	-0.32
143	MWD	12136.00	89.00	179.60	94	9943.94	2161.74	2159.25 S	121.95 W	2162.69	183.23	1.51	-1.17
144	MWD	12230.00	89.20	179.60	94	9945.42	2255.67	2253.24 S	121.29 W	2256.50	183.08	0.21	0.21
145	MWD	12325.00	91.50	179.60	95	9944.84	2350.61	2348.23 S	120.63 W	2351.32	182.94	2.42	2.42
146	MWD	12419.00	91.00	180.70	94	9942.79	2444.56	2442.20 S	120.87 W	2445.19	182.83	1.29	-0.53
147	MWD	12514.00	89.00	181.00	95	9942.79	2539.55	2537.19 S	122.28 W	2540.13	182.76	2.13	-2.11
148	MWD	12608.00	88.90	180.10	94	9944.51	2633.52	2631.17 S	123.19 W	2634.05	182.68	0.96	-0.11
149	MWD	12702.00	87.10	179.30	94	9947.79	2727.41	2725.10 S	122.69 W	2727.86	182.58	2.10	-1.91
150	MWD	12797.00	88.20	179.40	95	9951.69	2822.26	2820.02 S	121.62 W	2822.64	182.47	1.16	1.16
151	MWD	12891.00	87.60	179.60	94	9955.13	2916.14	2913.95 S	120.80 W	2916.45	182.37	0.67	-0.64
152	MWD	12985.00	89.20	179.80	94	9957.75	3010.05	3007.91 S	120.31 W	3010.31	182.29	1.72	1.70
153	MWD	13079.00	89.00	178.70	94	9959.23	3103.96	3101.89 S	119.08 W	3104.17	182.20	1.19	-0.21
154	MWD	13174.00	90.60	178.60	95	9959.56	3198.84	3196.86 S	116.84 W	3198.99	182.09	1.69	1.68
155	MWD	13268.00	89.70	178.60	94	9959.32	3292.71	3290.83 S	114.54 W	3292.82	181.99	0.96	-0.96
156	MWD	13363.00	88.50	179.60	95	9960.81	3387.61	3385.80 S	113.05 W	3387.69	181.91	1.64	-1.26
157	MWD	13457.00	90.30	180.30	94	9961.79	3481.57	3479.79 S	112.97 W	3481.62	181.86	2.05	1.91
158	MWD	13552.00	89.40	181.40	95	9962.04	3576.56	3574.78 S	114.38 W	3576.61	181.83	1.50	-0.95
159	MWD	13647.00	90.60	182.30	95	9962.04	3671.55	3669.73 S	117.44 W	3671.61	181.83	1.58	1.26
160	MWD	13741.00	90.10	180.70	94	9961.47	3765.55	3763.69 S	119.90 W	3765.60	181.82	1.78	-0.53

DRILTECH MWD SURVEY REPORT

Company: EOG Resources Inc
Well: Ross Draw 8 Fed #1H
Location: Eddy County, NM
Rig: H&P 415

Job Number: 2015-009-EODT-NM
Vertical Section Plane: 181.53
WELL API #: 30-015-39248
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')
161	MWD	13836.00	89.20	180.00	95	9962.05	3860.53	3858.68 S	120.48 W	3860.56	181.79	1.20	-0.95
162	MWD	13930.00	91.00	180.30	94	9961.88	3954.49	3952.68 S	120.73 W	3954.52	181.75	1.94	1.91
163	MWD	14025.00	90.30	180.30	95	9960.81	4049.47	4047.67 S	121.23 W	4049.49	181.72	0.74	-0.74
164	MWD	14119.00	89.00	179.60	94	9961.38	4143.43	4141.67 S	121.15 W	4143.44	181.68	1.57	-1.38
165	MWD	14214.00	90.80	180.00	95	9961.55	4238.38	4236.66 S	120.81 W	4238.38	181.63	1.94	1.89
166	MWD	14308.00	90.60	181.20	94	9960.40	4332.36	4330.65 S	121.80 W	4332.36	181.61	1.29	-0.21
167	MWD	14402.00	88.50	181.40	94	9961.14	4426.35	4424.62 S	123.93 W	4426.35	181.60	2.24	-2.23
168	MWD	14497.00	89.70	181.70	95	9962.63	4521.33	4519.57 S	126.50 W	4521.34	181.60	1.30	1.26
169	MWD	14591.00	93.40	183.00	94	9960.09	4615.27	4613.44 S	130.35 W	4615.28	181.62	4.17	3.94
170	PRJ	14750.00	93.40	183.00	159	9950.66	4773.94	4771.94 S	138.66 W	4773.95	181.66	0.00	0.00