

DRILTECH MWD SURVEY REPORT



Company: EOG Resources, Inc
 Well: Hawk 35 Fed #9H
 Location: Lea County NM
 Rig: H&P 415

Job Number: 2015-056-EODT-NM
 Vertical Section Plane: 357.98
 WELL API #: 30-025-42412
 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		Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')
								N/S (ft)	E/W (ft)				
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	198.00	1.40	99.80	198	197.98	-0.50	0.41	S 2.38	E 2.42	99.80	0.71	0.71
2	MWD	359.00	1.80	86.20	161	358.92	-0.82	0.58	S 6.84	E 6.87	94.83	0.34	0.25
3	MWD	450.00	1.90	89.40	91	449.87	-0.81	0.47	S 9.78	E 9.79	92.74	0.16	0.11
4	MWD	542.00	0.50	119.80	92	541.85	-1.06	0.65	S 11.65	E 11.67	93.20	1.62	-1.52
5	MWD	634.00	2.10	248.00	92	633.83	-1.85	1.48	S 10.44	E 10.54	98.09	2.65	1.74
6	MWD	726.00	2.60	227.60	92	725.75	-3.78	3.52	S 7.33	E 8.14	115.65	1.05	0.54
7	MWD	820.00	2.50	208.40	94	819.66	-6.93	6.76	S 4.78	E 8.28	144.72	0.91	-0.11
8	MWD	914.00	2.30	188.70	94	913.58	-10.55	10.43	S 3.52	E 11.01	161.33	0.90	-0.21
9	MWD	1009.00	1.40	158.50	95	1008.53	-13.52	13.39	S 3.66	E 13.89	164.71	1.37	-0.95
10	MWD	1103.00	0.90	125.40	94	1102.51	-15.05	14.89	S 4.68	E 15.61	162.54	0.86	-0.53
11	MWD	1197.00	0.50	85.20	94	1196.51	-15.48	15.28	S 5.69	E 16.31	159.57	0.65	-0.43
12	MWD	1252.00	0.70	82.90	55	1251.50	-15.43	15.22	S 6.27	E 16.46	157.62	0.37	0.36
13	MWD	1363.00	1.20	87.80	111	1362.49	-15.37	15.09	S 8.10	E 17.13	151.78	0.46	0.45
14	MWD	1552.00	1.20	88.70	189	1551.45	-15.39	14.97	S 12.06	E 19.22	141.16	0.01	0.00
15	MWD	1646.00	0.70	323.70	94	1645.44	-14.93	14.49	S 12.70	E 19.27	138.76	1.81	-0.53
16	MWD	1741.00	2.80	297.50	95	1740.39	-13.30	12.95	S 10.30	E 16.55	141.50	2.31	2.21
17	MWD	1835.00	3.50	297.90	94	1834.25	-10.74	10.55	S 5.73	E 12.00	151.50	0.75	0.74
18	MWD	2024.00	3.20	301.60	189	2022.93	-4.94	5.08	S 3.86	W 6.38	217.25	0.20	-0.16
19	MWD	2118.00	3.00	299.50	94	2116.79	-2.20	2.50	S 8.24	W 8.61	253.14	0.24	-0.21
20	MWD	2212.00	3.00	300.00	94	2210.66	0.39	0.06	S 12.51	W 12.51	269.75	0.03	0.00
21	MWD	2307.00	2.60	305.30	95	2305.55	3.01	2.43	N 16.42	W 16.60	278.43	0.50	-0.42
22	MWD	2401.00	2.60	301.70	94	2399.45	5.49	4.79	N 19.98	W 20.54	283.47	0.17	0.00
23	MWD	2496.00	3.00	303.70	95	2494.34	8.13	7.30	N 23.88	W 24.97	286.99	0.43	0.42
24	MWD	2590.00	3.00	311.60	94	2588.21	11.27	10.29	N 27.76	W 29.61	290.34	0.44	0.00
25	MWD	2684.00	2.80	315.30	94	2682.09	14.65	13.56	N 31.22	W 34.04	293.48	0.29	-0.21
26	MWD	2779.00	2.60	314.70	95	2776.98	17.93	16.72	N 34.38	W 38.23	295.94	0.21	-0.21
27	MWD	2967.00	2.60	319.80	188	2964.79	24.38	22.98	N 40.17	W 46.28	299.78	0.12	0.00
28	MWD	3062.00	2.50	322.10	95	3059.69	27.76	26.26	N 42.83	W 50.24	301.52	0.15	-0.11
29	MWD	3156.00	1.80	321.30	94	3153.63	30.60	29.03	N 45.01	W 53.56	302.82	0.75	-0.74
30	MWD	3250.00	2.30	300.70	94	3247.57	32.80	31.15	N 47.56	W 56.85	303.22	0.94	0.53
31	MWD	3345.00	1.90	284.90	95	3342.51	34.29	32.52	N 50.72	W 60.25	302.67	0.74	-0.42
32	MWD	3439.00	1.20	266.60	94	3436.47	34.72	32.87	N 53.21	W 62.54	301.71	0.90	-0.74
33	MWD	3534.00	1.40	275.90	95	3531.45	34.86	32.93	N 55.35	W 64.41	300.75	0.31	0.21
34	MWD	3628.00	1.40	283.30	94	3625.42	35.32	33.31	N 57.61	W 66.55	300.04	0.19	0.00

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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		Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')
35	MWD	3723.00	0.90	285.60	95	3720.40	35.85	N/S (ft)	E/W (ft)				
36	MWD	3817.00	0.50	298.60	94	3814.39	36.28	33.78	N 59.46 W	68.39	299.60	0.53	-0.53
37	MWD	3911.00	0.70	314.90	94	3908.39	36.91	34.17	N 60.53 W	69.51	299.45	0.46	-0.43
38	MWD	4005.00	0.70	326.50	94	4002.38	37.82	34.77	N 61.30 W	70.48	299.57	0.28	0.21
39	MWD	4100.00	0.70	326.50	95	4097.37	38.81	35.66	N 62.02 W	71.54	299.90	0.15	0.00
40	MWD	4194.00	0.70	330.20	94	4191.37	39.81	36.63	N 62.66 W	72.58	300.31	0.00	0.00
41	MWD	4289.00	0.50	319.30	95	4286.36	40.65	37.60	N 63.27 W	73.60	300.73	0.05	0.00
42	MWD	4383.00	0.90	266.20	94	4380.35	40.94	38.42	N 63.82 W	74.50	301.05	0.24	-0.21
43	MWD	4478.00	0.40	240.90	95	4475.35	40.77	38.68	N 64.83 W	75.49	300.82	0.77	0.43
44	MWD	4572.00	0.70	129.10	94	4569.35	40.24	38.47	N 65.86 W	76.28	300.29	0.59	-0.53
45	MWD	4666.00	1.10	142.00	94	4663.33	39.13	37.95	N 65.70 W	75.88	300.01	0.99	0.32
46	MWD	4760.00	1.10	127.00	94	4757.32	37.84	36.88	N 64.70 W	74.47	299.68	0.47	0.43
47	MWD	4949.00	2.80	127.00	189	4946.20	33.79	35.62	N 63.43 W	72.75	299.32	0.31	0.00
48	MWD	5044.00	2.80	123.10	95	5041.09	30.99	31.75	N 58.29 W	66.38	298.58	0.90	0.90
49	MWD	5075.00	2.80	127.20	31	5072.05	30.08	29.09	N 54.49 W	61.77	298.09	0.20	0.00
50	MWD	5207.00	2.30	124.70	132	5203.92	26.46	28.22	N 53.26 W	60.27	297.92	0.65	0.00
51	MWD	5301.00	1.40	167.20	94	5297.87	24.20	24.76	N 48.51 W	54.46	297.04	0.39	-0.38
52	MWD	5395.00	2.30	219.80	94	5391.83	21.67	22.57	N 46.71 W	51.87	295.79	1.68	-0.96
53	MWD	5489.00	2.30	215.70	94	5485.75	18.77	20.00	N 47.66 W	51.68	292.76	1.94	0.96
54	MWD	5584.00	2.50	236.10	95	5580.67	16.17	17.02	N 49.97 W	52.78	288.81	0.18	0.00
55	MWD	5678.00	3.00	244.20	94	5674.56	14.09	14.31	N 52.80 W	54.70	285.17	0.92	0.21
56	MWD	5773.00	2.60	243.00	95	5769.45	12.18	12.10	N 56.71 W	57.99	282.04	0.67	0.53
57	MWD	5867.00	2.50	246.50	94	5863.36	10.53	10.04	N 60.87 W	61.69	279.37	0.43	-0.42
58	MWD	5962.00	2.50	248.20	95	5958.27	9.07	8.25	N 64.65 W	65.18	277.28	0.20	-0.11
59	MWD	6056.00	2.50	241.90	94	6052.18	7.47	6.66	N 68.48 W	68.80	275.55	0.08	0.00
60	MWD	6150.00	2.30	243.50	94	6146.09	5.79	4.93	N 72.19 W	72.36	273.91	0.29	0.00
61	MWD	6245.00	2.50	240.50	95	6241.01	4.04	3.12	N 75.68 W	75.75	272.36	0.22	-0.21
62	MWD	6339.00	2.30	236.10	94	6334.93	2.10	1.25	N 79.19 W	79.20	270.91	0.25	0.21
63	MWD	6433.00	2.50	236.50	94	6428.85	0.04	0.81	S 82.54 W	82.55	269.44	0.29	-0.21
64	MWD	6527.00	2.10	237.20	94	6522.77	-1.92	2.99	S 85.82 W	85.87	268.00	0.21	0.21
65	MWD	6622.00	2.30	243.00	95	6617.70	-3.61	5.06	S 88.98 W	89.12	266.75	0.43	-0.43
66	MWD	6717.00	2.30	240.90	95	6712.62	-5.29	6.86	S 92.14 W	92.39	265.74	0.31	0.21
67	MWD	6811.00	2.30	242.10	94	6806.55	-6.97	8.66	S 95.50 W	95.89	264.82	0.09	0.00
68	MWD	6905.00	2.30	235.90	94	6900.47	-8.79	10.46	S 98.82 W	99.37	263.96	0.05	0.00
69	MWD	6999.00	1.90	239.40	94	6994.41	-10.54	12.40	S 102.05 W	102.80	263.07	0.26	0.00
70	MWD	7094.00	1.90	241.60	95	7089.36	-11.99	14.25	S 104.95 W	105.91	262.27	0.45	-0.43
71	MWD	7188.00	1.80	239.10	94	7183.31	-13.40	15.80	S 107.69 W	108.84	261.65	0.08	0.00
72	MWD	7283.00	1.90	230.00	95	7278.26	-15.09	17.30	S 110.33 W	111.68	261.09	0.14	-0.11
								19.08	S 112.81 W	114.42	260.40	0.33	0.11



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73	MWD	7377.00	1.60	227.80	94	7372.21	-16.89	20.96	S 114.98 W	116.87	259.67	0.33	-0.32
74	MWD	7471.00	1.80	229.20	94	7466.17	-18.67	22.81	S 117.07 W	119.27	258.98	0.22	0.21
75	MWD	7566.00	1.60	226.80	95	7561.13	-20.47	24.69	S 119.17 W	121.70	258.30	0.22	-0.21
76	MWD	7660.00	1.60	220.50	94	7655.09	-22.30	26.58	S 120.97 W	123.86	257.61	0.19	0.00
77	MWD	7754.00	1.90	216.10	94	7749.05	-24.50	28.84	S 122.75 W	126.09	256.78	0.35	0.32
78	MWD	7943.00	1.60	212.40	189	7937.96	-29.14	33.60	S 126.01 W	130.41	255.07	0.17	-0.16
79	MWD	8037.00	1.80	209.60	94	8031.92	-31.48	35.99	S 127.44 W	132.42	254.23	0.23	0.21
80	MWD	8131.00	1.60	213.40	94	8125.88	-33.81	38.37	S 128.89 W	134.48	253.42	0.24	-0.21
81	MWD	8226.00	1.80	208.90	95	8220.84	-36.17	40.79	S 130.34 W	136.57	252.62	0.25	0.21
82	MWD	8320.00	1.80	203.90	94	8314.79	-38.76	43.43	S 131.65 W	138.63	251.74	0.17	0.00
83	MWD	8415.00	1.60	202.70	95	8409.75	-41.31	46.02	S 132.77 W	140.52	250.88	0.21	-0.21
84	MWD	8509.00	1.60	201.50	94	8503.71	-43.70	48.45	S 133.76 W	142.26	250.09	0.04	0.00
85	MWD	8603.00	1.20	215.20	94	8597.68	-45.69	50.47	S 134.80 W	143.94	249.47	0.55	-0.43
86	MWD	8697.00	1.20	213.80	94	8691.66	-47.27	52.09	S 135.92 W	145.56	249.03	0.03	0.00
87	MWD	8766.00	1.20	215.50	69	8760.65	-48.43	53.28	S 136.74 W	146.76	248.71	0.05	0.00
88	MWD	8801.00	1.10	216.80	35	8795.64	-48.98	53.85	S 137.15 W	147.35	248.56	0.30	-0.29
89	MWD	8848.00	1.80	350.80	47	8842.63	-48.60	53.48	S 137.54 W	147.58	248.75	5.71	1.49
90	MWD	8895.00	7.90	4.80	47	8889.44	-44.66	49.53	S 137.39 W	146.05	250.17	13.13	12.98
91	MWD	8942.00	13.00	9.00	47	8935.65	-36.26	41.09	S 136.29 W	142.35	253.22	10.96	10.85
92	MWD	8989.00	18.70	11.00	47	8980.84	-23.72	28.46	S 134.03 W	137.01	258.01	12.18	12.13
93	MWD	9036.00	20.80	16.20	47	9025.08	-8.45	13.05	S 130.26 W	130.91	264.28	5.82	4.47
94	MWD	9083.00	23.60	13.80	47	9068.59	8.54	4.11	N 125.69 W	125.75	271.87	6.26	5.96
95	MWD	9130.00	25.70	12.70	47	9111.31	27.45	23.19	N 121.20 W	123.40	280.83	4.57	4.47
96	MWD	9178.00	28.20	13.10	48	9154.09	48.46	44.39	N 116.34 W	124.52	290.88	5.22	5.21
97	MWD	9225.00	30.80	9.40	47	9195.00	70.99	67.08	N 111.86 W	130.43	300.95	6.75	5.53
98	MWD	9272.00	33.60	11.50	47	9234.77	95.43	91.71	N 107.30 W	141.15	310.52	6.41	5.96
99	MWD	9319.00	36.80	9.00	47	9273.17	121.90	118.36	N 102.50 W	156.58	319.11	7.47	6.81
100	MWD	9366.00	41.30	8.30	47	9309.66	150.99	147.63	N 98.06 W	177.23	326.41	9.62	9.57
101	MWD	9413.00	46.60	9.40	47	9343.49	183.01	179.84	N 93.03 W	202.48	332.65	11.39	11.28
102	MWD	9461.00	53.00	12.20	48	9374.46	218.72	215.82	N 86.12 W	232.37	338.25	14.06	13.33
103	MWD	9508.00	62.30	12.60	47	9399.58	257.14	254.56	N 77.60 W	266.12	343.05	19.80	19.79
104	MWD	9555.00	71.60	9.90	47	9417.96	299.18	296.93	N 69.21 W	304.89	346.88	20.48	19.79
105	MWD	9587.00	77.40	6.00	32	9426.51	329.54	327.45	N 64.96 W	333.83	348.78	21.59	18.13
106	MWD	9618.00	82.90	2.20	31	9431.82	359.89	357.90	N 62.78 W	363.37	350.05	21.46	17.74
107	MWD	9684.00	89.60	356.40	66	9436.13	425.67	423.69	N 63.60 W	428.43	351.46	13.41	10.15
108	MWD	9778.00	90.40	356.60	94	9436.13	519.63	517.51	N 69.34 W	522.14	352.37	0.88	0.85
109	MWD	9872.00	90.10	354.80	94	9435.72	613.55	611.24	N 76.39 W	616.00	352.88	1.94	-0.32
110	MWD	9967.00	90.60	354.80	95	9435.14	708.41	705.85	N 85.00 W	710.95	353.13	0.53	0.53



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111	MWD	10061.00	91.10	355.30	94	9433.75	802.27	799.49	N 93.11 W	804.89	353.36	0.75	0.53
112	MWD	10155.00	90.60	354.30	94	9432.35	896.12	893.09	N 101.62 W	898.85	353.51	1.19	-0.53
113	MWD	10249.00	90.80	354.30	94	9431.21	989.92	986.62	N 110.96 W	992.84	353.58	0.21	0.21
114	MWD	10343.00	89.90	353.40	94	9430.63	1083.67	1080.07	N 121.03 W	1086.83	353.61	1.35	-0.96
115	MWD	10437.00	89.90	353.20	94	9430.80	1177.35	1173.43	N 132.00 W	1180.83	353.58	0.21	0.00
116	MWD	10531.00	89.90	352.70	94	9430.96	1270.99	1266.72	N 143.53 W	1274.83	353.54	0.53	0.00
117	MWD	10626.00	89.90	353.70	95	9431.13	1365.66	1361.05	N 154.78 W	1369.82	353.51	1.05	0.00
118	MWD	10720.00	91.00	355.00	94	9430.39	1459.46	1454.59	N 164.04 W	1463.81	353.57	1.81	1.17
119	MWD	10814.00	91.70	356.20	94	9428.17	1553.36	1548.28	N 171.25 W	1557.72	353.69	1.48	0.74
120	MWD	10908.00	89.70	356.90	94	9427.02	1647.31	1642.10	N 176.90 W	1651.60	353.85	2.25	-2.13
121	MWD	11003.00	89.00	356.70	95	9428.10	1742.29	1736.94	N 182.20 W	1746.47	354.01	0.77	-0.74
122	MWD	11097.00	89.90	357.60	94	9429.00	1836.27	1830.82	N 186.88 W	1840.33	354.17	1.35	0.96
123	MWD	11191.00	91.00	359.90	94	9428.27	1930.25	1924.79	N 188.93 W	1934.04	354.39	2.71	1.17
124	MWD	11286.00	91.00	0.40	95	9426.61	2025.17	2019.77	N 188.68 W	2028.57	354.66	0.53	0.00
125	MWD	11380.00	91.30	359.70	94	9424.72	2119.09	2113.75	N 188.60 W	2122.15	354.90	0.81	0.32
126	MWD	11475.00	91.00	0.10	95	9422.82	2214.01	2208.73	N 188.76 W	2216.78	355.12	0.53	-0.32
127	MWD	11569.00	91.70	0.20	94	9420.60	2307.92	2302.71	N 188.52 W	2310.41	355.32	0.75	0.74
128	MWD	11663.00	90.10	359.40	94	9419.12	2401.86	2396.69	N 188.85 W	2404.12	355.49	1.90	-1.70
129	MWD	11758.00	89.70	359.40	95	9419.29	2496.83	2491.69	N 189.84 W	2498.91	355.64	0.42	-0.42
130	MWD	11852.00	89.60	359.50	94	9419.86	2590.80	2585.68	N 190.74 W	2592.70	355.78	0.15	-0.11
131	MWD	11946.00	89.20	359.20	94	9420.85	2684.76	2679.67	N 191.81 W	2686.52	355.91	0.53	-0.43
132	MWD	12041.00	89.60	0.60	95	9421.84	2779.70	2774.66	N 191.97 W	2781.29	356.04	1.53	0.42
133	MWD	12135.00	89.70	1.30	94	9422.42	2873.57	2868.64	N 190.42 W	2874.96	356.20	0.75	0.11
134	MWD	12229.00	91.30	0.40	94	9421.60	2967.45	2962.63	N 189.02 W	2968.65	356.35	1.95	1.70
135	MWD	12323.00	91.50	359.90	94	9419.30	3061.35	3056.60	N 188.78 W	3062.42	356.47	0.57	0.21
136	MWD	12418.00	91.50	0.80	95	9416.81	3156.24	3151.56	N 188.20 W	3157.18	356.58	0.95	0.00
137	MWD	12512.00	89.90	0.60	94	9415.67	3250.12	3245.55	N 187.05 W	3250.93	356.70	1.72	-1.70
138	MWD	12607.00	89.60	0.40	95	9416.08	3345.03	3340.54	N 186.22 W	3345.73	356.81	0.38	-0.32
139	MWD	12701.00	91.00	0.10	94	9415.59	3438.95	3434.54	N 185.81 W	3439.56	356.90	1.52	1.49
140	MWD	12795.00	92.20	0.40	94	9412.96	3532.84	3528.50	N 185.40 W	3533.36	356.99	1.32	1.28
141	MWD	12890.00	91.00	359.50	95	9410.31	3627.74	3623.46	N 185.48 W	3628.20	357.07	1.58	-1.26
142	MWD	12984.00	91.00	359.00	94	9408.67	3721.71	3717.43	N 186.71 W	3722.12	357.12	0.53	0.00
143	MWD	13079.00	89.90	359.90	95	9407.92	3816.67	3812.42	N 187.62 W	3817.04	357.18	1.50	-1.16
144	MWD	13173.00	89.90	359.40	94	9408.09	3910.63	3906.42	N 188.20 W	3910.95	357.24	0.53	0.00
145	MWD	13268.00	89.70	358.30	95	9408.42	4005.62	4001.40	N 190.10 W	4005.91	357.28	1.18	-0.21
146	MWD	13362.00	89.60	358.10	94	9408.99	4099.61	4095.35	N 193.06 W	4099.90	357.30	0.24	-0.11
147	MWD	13456.00	88.90	358.80	94	9410.22	4193.60	4189.31	N 195.60 W	4193.87	357.33	1.05	-0.74
148	MWD	13551.00	88.90	0.90	95	9412.05	4288.53	4284.29	N 195.85 W	4288.76	357.38	2.21	0.00



EOG Resources, Inc
Hawk 35 Fed #9H
Lea County NM
H&P 415

Job Number:
Vertical Section Plane:
WELL API #:
Tie Into:

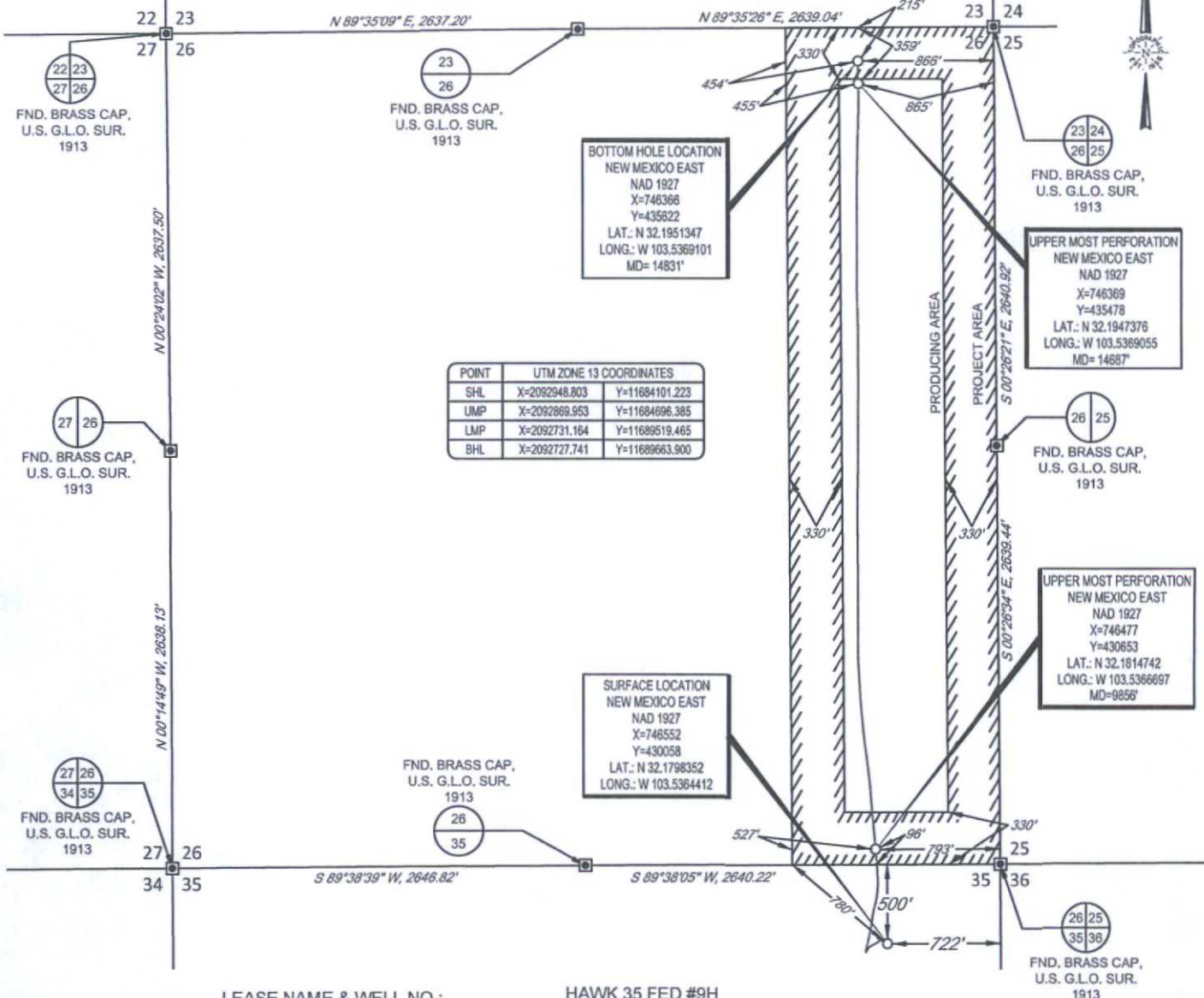
2015-056-EODT-NM
357.98
30-025-42412
Surface

Calculation Method	Minimum Curvature
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100	100

[illegible]

SCALE: 1" = 1000'

SECTION 35, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: HAWK 35 FED #9H
 SECTION 35 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3528'
 DESCRIPTION 500' FNL & 722' FEL



TOPOGRAPHIC
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 WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
 JULY 21, 2015



HAWK 35 FED #9H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 07/21/15		
FILE:AD_HAWK35FED_9H		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.