MEASUREMENT WHILE DRILLING SERVICES

MWD SURVEY REPORT
MWD Services, LLC

Survey End Date :	April 22, 2015	Target +N / -S =	-5152.0'
Job Number :	15057	Target +E / -W =	539.0'
Operator :	EOG Resources, Inc.	Target TVD =	9460.0'
Lease / Well :	Diamond 5 Fed Com #8H	Magnetic Declination +E / -W =	7.16°
API Number :	30-025-41992	Grid Convergence +E / -W =	0.45°
Location :	Lea County, New Mexico	Total Correction +E / -W =	6.71°
Field / Formation :	Red Hills; Upper Bone Spring Shale	North Reference =	Grid
Contractor / Rig :	Nomac Drilling, LLC Rig 55	Magnetic Reference Model =	WMM2015
Directional Company :	EOG Resources, Inc.	Declination Date =	4/10/15
MWD Field Rep. :	Craig Oliver, Jay Miller	RKB Height =	21.00'
Tie In Survey Reference :	Surface, Assume Vertical	Ground Level Elevation =	3376'
Calculation Method :	Minimum Curvature	Vertical Section Azimuth =	174.03°

Comments :
SURVEY #0 = TIE IN SURVEY
SURVEY #161 = STRAIGHT LINE PROJECTED SURVEY TO BIT DEPTH

Srv. No.	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 Azimuth (deg)	Dogleg Severity (deg/100 ')
0	0.00'	0.00°	0.00°	0'	0.00'		0.00'	0.00'	0.00'	0.00°	
1	196.00'	2.10°	94.30°	196'	195.96'	0.64'	-0.27'	3.58'	3.59'	94.30°	1.07°
2	284.00'	2.00°	87.70°	88'	283.90'	1.03'	-0.33'	6.72'	6.73'	92.80°	0.29°
3	372.00'	1.90°	94.10°	88'	371.85'	1.38'	-0.37'	9.71'	9.72'	92.19°	0.27°
4	493.00'	1.60°	106.70°	121'	492.79'	2.38'	-1.00'	13.33'	13.37'	94.29°	0.40°
5	587.00'	1.20°	106.40°	94'	586.76'	3.26'	-1.66'	15.53'	15.62'	96.08°	0.43°
6	679.00'	1.30°	103.80°	92'	678.74'	3.98'	-2.18'	17.47'	17.61'	97.10°	0.12°
7	771.00'	1.50°	102.30°	92'	770.72'	4.71'	-2.68'	19.66'	19.84'	97.77°	0.22°
8	866.00'	1.10°	96.40°	95'	865.69'	5.30'	-3.05'	21.78'	21.99'	97.97°	0.44°
9	961.00'	1.30°	95.00°	95'	960.67'	5.70'	-3.24'	23.76'	23.98'	97.77°	0.21°
10	1056.00'	1.20°	96.60°	95'	1055.65'	6.12'	-3.45'	25.82'	26.05'	97.61°	0.11°
11	1152.00'	1.40°	99.10°	96'	1151.62'	6.64'	-3.75'	27.98'	28.23'	97.64°	0.22°
12	1195.00'	1.50°	90.30°	43'	1194.61'	6.84'	-3.84'	29.06'	29.31'	97.53°	0.57°
13	1351.00'	1.20°	96.10°	156'	1350.57'	7.41'	-4.02'	32.73'	32.97'	97.01°	0.21°
14	1446.00'	2.10°	88.10°	95'	1445.53'	7.74'	-4.07'	35.46'	35.69'	96.55°	0.98°
15	1541.00'	2.50°	92.40°	95'	1540.45'	8.16'	-4.10'	39.27'	39.48'	95.96°	0.46°
16	1637.00'	2.40°	80.30°	96'	1636.36'	8.34'	-3.85'	43.34'	43.51'	95.08°	0.55°
17	1731.00'	2.50°	72.10°	94'	1730.28'	7.78'	-2.89'	47.23'	47.32'	93.50°	0.39°
18	1827.00'	2.30°	76.10°	96'	1826.19'	7.09'	-1.78'	51.09'	51.12'	92.00°	0.27°
19	1921.00'	2.30°	74.70°	94'	1920.12'	6.52'	-0.83'	54.74'	54.75'	90.87°	0.06°
20	2016.00'	2.30°	70.30°	95'	2015.04'	5.76'	0.32'	58.38'	58.38'	89.69°	0.19°
21	2111.00'	2.30°	65.40°	95'	2109.96'	4.70'	1.75'	61.90'	61.93'	88.38°	0.21°
22	2206.00'	2.50°	61.50°	95'	2204.88'	3.29'	3.53'	65.46'	65.55'	86.91°	0.27°
23	2301.00'	2.50°	60.20°	95'	2299.79'	1.66'	5.55'	69.08'	69.30'	85.40°	0.06°
24	2396.00'	2.40°	58.30°	95'	2394.70'	-0.04'	7.63'	72.57'	72.97'	84.00°	0.14°
25	2492.00'	2.40°	55.70°	96'	2490.62'	-1.86'	9.82'	75.94'	76.57'	82.63°	0.11°
26	2586.00'	2.40°	54.90°	94'	2584.54'	-3.76'	12.06'	79.17'	80.09'	81.34°	0.04°

Srv.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates +N / -S	Coordinates +E / -W	Closure Distance	Closure Azimuth	Dogleg Severity
27	2681.00'	2.50°	56.90°	95'	2679.45'	-5.67'	14.33'	82.54'	83.77'	80.15°	0.14°
28	2776.00'	2.50°	58.70°	95'	2774.36'	-7.50'	16.54'	86.04'	87.62'	79.12°	0.08°
29	2871.00'	2.70°	62.20°	95'	2869.26'	-9.22'	18.66'	89.79'	91.71'	78.26°	0.27°
30	2967.00'	2.90°	62.10°	96'	2965.15'	-10.97'	20.85'	93.94'	96.23'	77.49°	0.21°
31	3062.00'	2.80°	66.50°	95'	3060.03'	-12.56'	22.90'	98.19'	100.83'	76.87°	0.25°
32	3157.00'	2.70°	67.30°	95'	3154.92'	-13.91'	24.69'	102.38'	105.32'	76.44°	0.11°
33	3251.00'	3.00°	65.90°	94'	3248.80'	-15.31'	26.55'	106.67'	109.92'	76.02°	0.33°
34	3346.00'	3.30°	66.20°	95'	3343.66'	-16.92'	28.67'	111.44'	115.07'	75.57°	0.32°
35	3441.00'	3.80°	69.00°	95'	3438.48'	-18.57'	30.90'	116.88'	120.90'	75.19°	0.56°
36	3537.00'	3.50°	72.90°	96'	3534.28'	-19.96'	32.90'	122.65'	126.99'	74.98°	0.41°
37	3631.00'	3.10°	75.40°	94'	3628.13'	-20.90'	34.38'	127.86'	132.40'	74.95°	0.45°
38	3726.00'	3.00°	72.80°	95'	3722.99'	-21.77'	35.77'	132.72'	137.45'	74.92°	0.18°
39	3916.00'	2.90°	65.20°	190'	3912.74'	-24.29'	39.25'	141.83'	147.16'	74.53°	0.21°
40	4011.00'	2.70°	61.90°	95'	4007.63'	-25.91'	41.31'	146.98'	151.72'	74.20°	0.27°
41	4106.00'	2.70°	59.80°	95'	4102.52'	-27.67'	43.49'	149.89'	156.07'	73.82°	0.10°
42	4201.00'	2.90°	74.60°	95'	4197.41'	-28.98'	45.26'	154.14'	160.65'	73.64°	0.79°
43	4296.00'	3.10°	81.10°	95'	4292.28'	-29.51'	46.29'	159.00'	165.60'	73.77°	0.42°
44	4391.00'	3.30°	84.10°	95'	4387.13'	-29.63'	46.97'	164.25'	170.84'	74.04°	0.27°
45	4486.00'	3.30°	82.00°	95'	4481.97'	-29.73'	47.63'	169.68'	176.24'	74.32°	0.13°
46	4582.00'	3.70°	83.60°	96'	4577.79'	-29.85'	48.36'	175.50'	182.04'	74.59°	0.43°
47	4677.00'	3.40°	85.60°	95'	4672.61'	-29.79'	48.92'	181.35'	187.83'	74.90°	0.34°
48	4772.00'	3.00°	83.30°	95'	4767.46'	-29.75'	49.43'	186.63'	193.06'	75.17°	0.44°
49	4867.00'	3.30°	89.00°	95'	4862.32'	-29.54'	49.77'	191.83'	198.18'	75.46°	0.46°
50	4963.00'	3.40°	98.00°	96'	4958.16'	-28.62'	49.42'	197.41'	203.51'	75.95°	0.56°
51	5058.00'	3.30°	100.00°	95'	5052.99'	-27.18'	48.55'	202.90'	208.62'	76.54°	0.16°
52	5104.00'	3.20°	98.30°	46'	5098.92'	-26.50'	48.14'	205.47'	211.03'	76.82°	0.30°
53	5245.00'	2.70°	100.10°	141'	5239.73'	-24.61'	46.98'	212.63'	217.76'	77.54°	0.36°
54	5340.00'	3.00°	90.40°	95'	5334.62'	-23.72'	46.57'	217.32'	222.26'	77.90°	0.60°
55	5435.00'	4.00°	86.30°	95'	5429.44'	-23.31'	46.77'	223.12'	227.97'	78.16°	1.08°
56	5530.00'	4.20°	87.80°	95'	5524.20'	-22.95'	47.12'	229.90'	234.68'	78.42°	0.24°
57	5625.00'	4.80°	73.90°	95'	5618.90'	-23.42'	48.35'	237.19'	242.07'	78.48°	1.31°
58	5721.00'	5.00°	72.50°	96'	5714.55'	-24.96'	50.73'	245.04'	250.24'	78.30°	0.24°
59	5816.00'	5.00°	71.60°	95'	5809.19'	-26.68'	53.28'	252.92'	258.47'	78.10°	0.08°
60	5912.00'	5.10°	70.70°	96'	5904.82'	-28.57'	56.01'	260.92'	266.86'	77.88°	0.13°
61	6007.00'	5.10°	67.70°	95'	5999.44'	-30.73'	59.01'	268.81'	275.21'	77.62°	0.28°
62	6102.00'	5.10°	67.30°	95'	6094.07'	-33.13'	62.24'	276.61'	283.53'	77.32°	0.04°
63	6197.00'	4.80°	67.10°	95'	6188.71'	-35.50'	65.41'	284.17'	291.60'	77.04°	0.32°
64	6292.00'	4.80°	66.20°	95'	6283.38'	-37.88'	68.57'	291.46'	299.42'	76.76°	0.08°
65	6387.00'	4.80°	66.30°	95'	6378.05'	-40.31'	71.77'	298.74'	307.24'	76.49°	0.01°
66	6482.00'	4.70°	66.40°	95'	6472.72'	-42.70'	74.92'	305.95'	314.99'	76.24°	0.11°
67	6578.00'	4.60°	66.10°	96'	6568.40'	-45.07'	78.06'	313.07'	322.65'	76.00°	0.11°
68	6673.00'	4.40°	66.70°	95'	6663.11'	-47.33'	81.04'	319.90'	330.01'	75.78°	0.22°
69	6767.00'	5.20°	68.00°	94'	6756.78'	-49.58'	84.06'	327.16'	337.79'	75.59°	0.86°
70	6862.00'	5.30°	67.90°	95'	6851.38'	-51.99'	87.33'	335.22'	346.41'	75.40°	0.11°
71	6957.00'	5.00°	68.40°	95'	6946.00'	-54.32'	90.50'	343.13'	354.87'	75.22°	0.32°
72	7053.00'	4.80°	67.60°	96'	7041.65'	-56.59'	93.57'	350.74'	363.00'	75.06°	0.22°
73	7148.00'	5.40°	74.50°	95'	7136.27'	-58.45'	96.28'	358.72'	371.42'	74.98°	0.90°
74	7244.00'	5.30°	76.30°	96'	7231.85'	-59.79'	98.54'	367.38'	380.36'	74.99°	0.20°
75	7338.00'	6.10°	77.00°	94'	7325.39'	-60.99'	100.69'	376.46'	389.70'	75.03°	0.85°
76	7434.00'	5.80°	77.40°	96'	7420.87'	-62.17'	102.90'	386.17'	399.64'	75.08°	0.32°
77	7528.00'	5.50°	77.70°	94'	7514.41'	-63.22'	104.89'	395.20'	408.89'	75.14°	0.32°

Srv.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates +N / -S	Coordinates +E / -W	Closure Distance	Closure Azimuth	Dogleg Severity
78	7623.00'	5.10°	78.30°	95'	7609.01'	-64.14'	106.72'	403.79'	417.65'	75.20°	0.43°
79	7718.00'	6.10°	76.10°	95'	7703.55'	-65.26'	108.79'	412.82'	426.92'	75.24°	1.08°
80	7814.00'	6.20°	77.30°	96'	7799.00'	-66.57'	111.15'	422.83'	437.20'	75.27°	0.17°
81	7908.00'	5.70°	79.00°	94'	7892.49'	-67.58'	113.16'	432.36'	446.93'	75.33°	0.56°
82	8004.00'	5.30°	80.40°	96'	7988.05'	-68.27'	114.81'	441.42'	456.10'	75.42°	0.44°
83	8098.00'	4.80°	80.70°	94'	8081.69'	-68.78'	116.17'	449.58'	464.34'	75.51°	0.53°
84	8194.00'	4.50°	81.50°	96'	8177.37'	-69.18'	117.37'	457.27'	472.09'	75.60°	0.32°
85	8288.00'	4.50°	83.50°	94'	8271.08'	-69.37'	118.34'	464.58'	479.41'	75.71°	0.17°
86	8384.00'	2.90°	77.40°	96'	8366.88'	-69.69'	119.29'	470.69'	485.57'	75.78°	1.71°
87	8479.00'	2.70°	80.10°	95'	8461.77'	-70.12'	120.20'	475.24'	490.20'	75.81°	0.25°
88	8574.00'	2.20°	54.10°	95'	8556.68'	-71.18'	121.65'	478.92'	494.13'	75.75°	1.27°
89	8669.00'	2.20°	55.00°	95'	8651.61'	-72.98'	123.77'	481.89'	497.53'	75.60°	0.04°
90	8752.00'	2.20°	59.60°	83'	8734.55'	-74.41'	125.49'	484.57'	500.56'	75.48°	0.21°
91	8783.00'	2.00°	56.10°	31'	8765.53'	-74.91'	126.09'	485.53'	501.64'	75.44°	0.77°
92	8830.00'	2.90°	166.00°	47'	8812.50'	-74.12'	125.40'	486.50'	502.40'	75.55°	8.60°
93	8878.00'	8.50°	174.20°	48'	8860.25'	-69.36'	120.68'	487.15'	501.88'	76.09°	11.76°
94	8925.00'	15.70°	178.60°	47'	8906.18'	-59.54'	110.86'	487.66'	500.10'	77.19°	15.43°
95	8973.00'	22.10°	180.60°	48'	8951.56'	-44.08'	95.32'	487.73'	496.95'	78.94°	13.40°
96	9068.00'	31.30°	182.30°	95'	9036.34'	-1.81'	52.70'	486.55'	489.39'	83.82°	9.72°
97	9115.00'	31.90°	185.20°	47'	9076.38'	22.46'	28.13'	484.93'	485.75'	86.68°	3.48°
98	9163.00'	35.60°	184.90°	48'	9116.28'	48.63'	1.57'	482.59'	482.59'	89.81°	7.72°
99	9210.00'	41.00°	180.30°	47'	9153.16'	77.41'	-27.50'	481.34'	482.12'	93.27°	12.99°
100	9258.00'	46.70°	177.70°	48'	9187.76'	110.53'	-60.73'	481.95'	485.77'	97.18°	12.45°
101	9304.00'	52.60°	175.60°	46'	9217.54'	145.53'	-95.70'	484.03'	493.40'	101.18°	13.29°
102	9352.00'	52.80°	175.30°	48'	9246.62'	183.70'	-133.77'	487.06'	505.09'	105.36°	0.65°
103	9398.00'	57.20°	174.00°	46'	9273.00'	221.37'	-171.27'	490.58'	519.62'	109.25°	9.84°
104	9446.00'	57.00°	172.60°	48'	9299.08'	261.66'	-211.30'	495.28'	538.47'	113.10°	2.48°
105	9493.00'	61.10°	171.80°	47'	9323.24'	301.94'	-251.22'	500.76'	560.24'	116.64°	8.84°
106	9542.00'	66.20°	173.40°	49'	9344.98'	345.82'	-294.75'	506.40'	585.93'	120.20°	10.81°
107	9589.00'	72.80°	174.10°	47'	9361.44'	389.82'	-338.49'	511.18'	613.09'	123.51°	14.11°
108	9637.00'	73.60°	174.80°	48'	9375.31'	435.77'	-384.22'	515.63'	643.04'	126.69°	2.17°
109	9684.00'	76.10°	174.90°	47'	9387.59'	481.13'	-429.40'	519.70'	674.15'	129.57°	5.32°
110	9732.00'	78.20°	175.30°	48'	9398.27'	527.91'	-476.03'	523.70'	707.71'	132.27°	4.45°
111	9780.00'	79.30°	174.80°	48'	9407.63'	574.98'	-522.93'	527.76'	742.96'	134.74°	2.51°
112	9827.00'	85.80°	174.30°	47'	9413.72'	621.56'	-569.30'	532.18'	779.31'	136.93°	13.87°
113	9861.00'	89.10°	178.40°	34'	9415.23'	655.49'	-603.18'	534.34'	805.82'	138.46°	15.47°
114	9875.00'	89.70°	179.20°	14'	9415.38'	669.44'	-617.18'	534.64'	816.54'	139.10°	7.14°
115	10052.00'	90.20°	177.60°	177'	9415.54'	845.92'	-794.10'	539.58'	960.07'	145.80°	0.95°
116	10147.00'	90.50°	177.80°	95'	9414.96'	940.72'	-889.02'	543.39'	1041.94'	148.57°	0.38°
117	10242.00'	90.00°	178.60°	95'	9414.54'	1035.47'	-983.98'	546.37'	1125.49'	150.96°	0.99°
118	10336.00'	90.20°	177.40°	94'	9414.38'	1129.24'	-1077.92'	549.66'	1209.97'	152.98°	1.29°
119	10431.00'	90.00°	179.10°	95'	9414.21'	1223.98'	-1172.87'	552.56'	1296.51'	154.77°	1.80°
120	10526.00'	89.10°	179.40°	95'	9414.96'	1318.58'	-1267.86'	553.80'	1383.53'	156.40°	1.00°
121	10621.00'	89.40°	179.80°	95'	9416.20'	1413.12'	-1362.84'	554.46'	1471.32'	157.86°	0.53°
122	10716.00'	89.50°	180.60°	95'	9417.11'	1507.57'	-1457.84'	554.13'	1559.60'	159.19°	0.85°
123	10811.00'	89.10°	181.30°	95'	9418.27'	1601.87'	-1552.82'	552.56'	1648.20'	160.41°	0.85°
124	10906.00'	89.10°	180.80°	95'	9419.77'	1696.14'	-1647.79'	550.82'	1737.41'	161.52°	0.53°
125	11000.00'	89.20°	180.40°	94'	9421.16'	1789.51'	-1741.77'	549.83'	1826.50'	162.48°	0.44°
126	11095.00'	89.50°	180.40°	95'	9422.24'	1883.92'	-1836.77'	549.17'	1917.11'	163.35°	0.32°
127	11190.00'	88.40°	181.80°	95'	9423.98'	1978.18'	-1931.73'	547.34'	2007.78'	164.18°	1.87°
128	11285.00'	88.10°	180.80°	95'	9426.88'	2072.37'	-2026.66'	545.19'	2098.71'	164.94°	1.10°

Srv.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates +N / -S	Coordinates +E / -W	Closure Distance	Closure Azimuth	Dogleg Severity
129	11380.00'	87.70°	180.60°	95'	9430.36'	2166.66'	-2121.59'	544.03'	2190.23'	165.62°	0.47°
130	11475.00'	88.60°	180.70°	95'	9433.43'	2260.98'	-2216.53'	542.95'	2282.06'	166.24°	0.95°
131	11569.00'	88.80°	180.90°	94'	9435.56'	2354.30'	-2310.50'	541.64'	2373.14'	166.81°	0.30°
132	11664.00'	90.00°	180.50°	95'	9436.55'	2448.65'	-2405.48'	540.48'	2465.46'	167.34°	1.33°
133	11759.00'	91.30°	181.70°	95'	9435.48'	2542.92'	-2500.46'	538.66'	2557.82'	167.84°	1.86°
134	11855.00'	90.20°	179.90°	96'	9434.22'	2638.24'	-2596.43'	537.32'	2651.45'	168.31°	2.20°
135	11950.00'	89.10°	178.80°	95'	9434.80'	2732.82'	-2691.42'	538.40'	2744.74'	168.69°	1.64°
136	12045.00'	89.10°	178.70°	95'	9436.29'	2827.49'	-2786.39'	540.47'	2838.32'	169.02°	0.11°
137	12140.00'	89.20°	178.40°	95'	9437.70'	2922.18'	-2881.35'	542.87'	2932.04'	169.33°	0.33°
138	12235.00'	89.40°	178.30°	95'	9438.86'	3016.91'	-2976.30'	545.61'	3025.90'	169.61°	0.24°
139	12330.00'	89.10°	178.20°	95'	9440.11'	3111.64'	-3071.25'	548.51'	3119.84'	169.87°	0.33°
140	12425.00'	88.90°	178.20°	95'	9441.76'	3206.37'	-3166.19'	551.49'	3213.86'	170.12°	0.21°
141	12521.00'	90.10°	179.60°	96'	9442.60'	3302.02'	-3262.16'	553.33'	3308.76'	170.37°	1.92°
142	12615.00'	89.40°	179.90°	94'	9443.01'	3395.55'	-3356.16'	553.74'	3401.53'	170.63°	0.81°
143	12710.00'	89.40°	180.30°	95'	9444.01'	3490.01'	-3451.15'	553.58'	3495.27'	170.89°	0.42°
144	12805.00'	89.90°	180.70°	95'	9444.59'	3584.40'	-3546.15'	552.75'	3588.97'	171.14°	0.67°
145	12900.00'	90.90°	181.40°	95'	9443.92'	3678.69'	-3641.13'	551.01'	3682.58'	171.39°	1.28°
146	12996.00'	89.20°	180.70°	96'	9443.84'	3773.96'	-3737.11'	549.25'	3777.25'	171.64°	1.92°
147	13090.00'	89.80°	180.70°	94'	9444.66'	3867.32'	-3831.10'	548.10'	3870.10'	171.86°	0.64°
148	13185.00'	89.90°	180.20°	95'	9444.91'	3961.73'	-3926.09'	547.35'	3964.06'	172.06°	0.54°
149	13280.00'	89.50°	179.00°	95'	9445.41'	4056.28'	-4021.09'	548.02'	4058.26'	172.24°	1.33°
150	13375.00'	89.20°	180.00°	95'	9446.48'	4150.84'	-4116.08'	548.85'	4152.51'	172.40°	1.10°
151	13470.00'	87.70°	179.90°	95'	9449.05'	4245.29'	-4211.04'	548.93'	4246.67'	172.57°	1.58°
152	13565.00'	88.50°	179.20°	95'	9452.20'	4339.80'	-4305.98'	549.68'	4340.92'	172.73°	1.12°
153	13660.00'	88.70°	178.90°	95'	9454.52'	4434.41'	-4400.94'	551.25'	4435.33'	172.86°	0.38°
154	13755.00'	89.80°	179.80°	95'	9455.77'	4528.99'	-4495.92'	552.33'	4529.72'	173.00°	1.50°
155	13850.00'	88.60°	179.40°	95'	9457.09'	4623.53'	-4590.91'	552.99'	4624.09'	173.13°	1.33°
156	13946.00'	89.10°	179.80°	96'	9459.02'	4719.05'	-4686.89'	553.66'	4719.48'	173.26°	0.67°
157	14041.00'	89.00°	181.30°	95'	9460.60'	4813.42'	-4781.87'	552.75'	4813.71'	173.41°	1.58°
158	14137.00'	88.30°	181.30°	96'	9462.86'	4908.62'	-4877.82'	550.57'	4908.79'	173.56°	0.73°
159	14232.00'	88.30°	181.10°	95'	9465.68'	5002.84'	-4972.75'	548.58'	5002.92'	173.70°	0.21°
160	14327.00'	88.30°	180.90°	95'	9468.50'	5097.10'	-5067.70'	546.93'	5097.12'	173.84°	0.21°
161	14420.00'	88.30°	180.90°	93'	9471.25'	5189.39'	-5160.64'	545.47'	5189.39'	173.97°	0.00°

MEASUREMENT WHILE DRILLING SERVICES

MWD Survey Certification

State of New Mexico
County of Lea

I, Craig Oliver, certify that; I am employed by MWD Services, LLC; that I did on the day(s) of 4/11/15 through 4/22/15 conduct or supervise the taking of MWD survey(s) from a depth of 196 feet to a depth of 14,327 feet; that the data is true, correct, complete and within the limitations of the tool set forth by MWD Services, LLC; that I am authorized and qualified to make this report; that this report was conducted at the request of EOG Resources, Inc., for the Diamond 5 Fed Com #8H Well, API # 30-025-41992 and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MWD Services, LLC.

Craig Oliver
MWD Field Operator

MWD Services, LLC - 219 Griffin Road - P.O. Box 750 - Youngsville, LA 70592
Ofc: 337-856-5965 Fax: 337-856-9091