

AUG 11 2017

RECEIVED



Lea County, NM (NAD 27 NME)

Diamond 5 Fed Com #7H

Nomac 55

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1886
 Zone: New Mexico East 3061
 System Datum: Mean Sea Level

WELL DETAILS: #7H

Ground Level: 3277.6
 KB #21 @ 3798.9usft (Nomac 55)
 Northing: 420210.00 Easting: 781351.00 Latitude: 32° 8' 3.543" N Longitude: 103° 23' 19.911" W

SECTION DETAILS

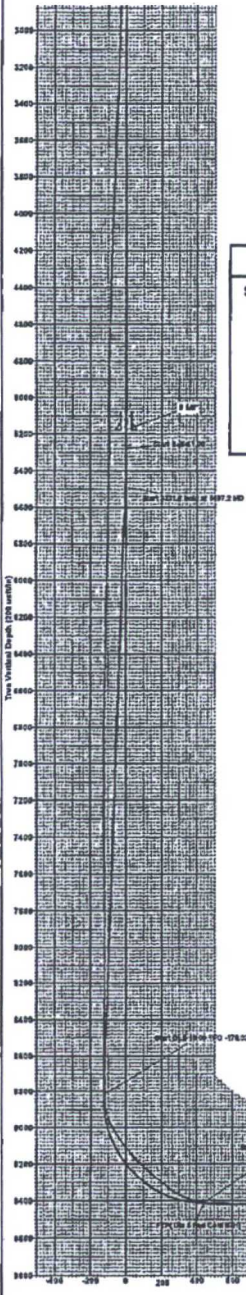
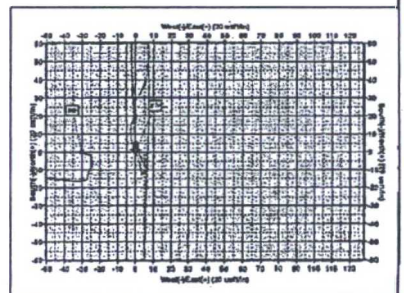
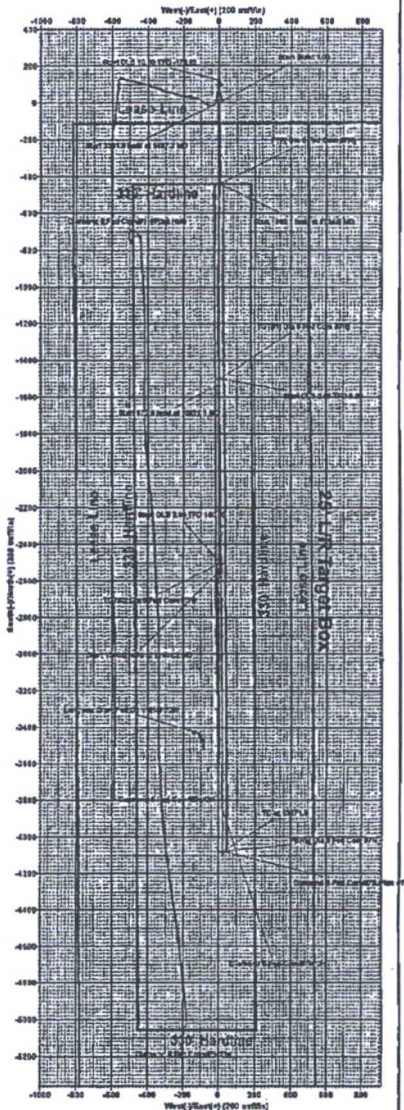
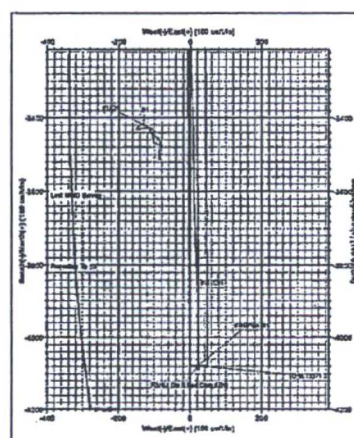
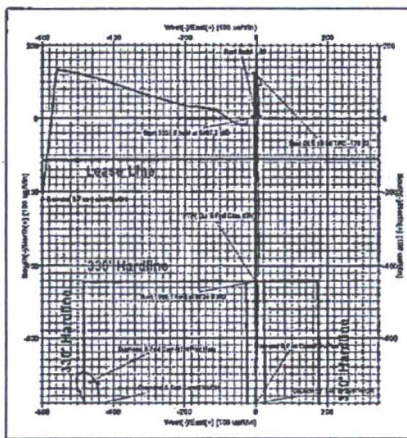
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5275.0	0.00	0.00	5275.0	0.0	0.0	0.00	0.00	0.0	
3	5487.2	2.12	357.61	5487.1	3.9	-0.2	1.00	357.61	-3.9	
4	8818.2	2.12	357.61	8815.9	127.2	-5.3	0.00	0.00	-127.2	
5	9734.0	89.46	179.59	9410.0	-440.0	-2.0	10.00	-178.02	440.0	FTP (Dia 5 Fed Com #7H)
6	10734.1	89.46	179.59	9420.0	-1500.0	5.5	0.00	0.00	1500.0	TGT#1 (Dia 5 Fed Com #7H)
7	10821.5	90.01	179.59	9420.1	-1527.4	5.8	2.00	0.00	1527.4	
8	11794.1	90.01	179.59	9420.0	-2500.0	12.7	0.00	0.00	2500.0	TGT#2 (Dia 5 Fed Com #7H)
9	11831.2	89.26	179.59	9420.2	-2537.1	13.0	2.00	180.00	2537.2	
10	13371.3	89.26	179.59	9440.0	-4077.0	24.0	0.00	0.00	4077.1	PBHL (Dia 5 Fed Com #7H)

CASINO DETAILS

TVD	MD	Name	Size
1200.0	1205.0	13 3/8"	13-3/8
5175.0	5175.0	9 5/8"	9-5/8

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP (Dia 5 Fed Com #7H)	9410.0	-440.0	-3.9	418778.00	781543.00
TGT#1 (Dia 5 Fed Com #7H)	9420.0	-1500.0	5.5	418710.00	781466.50
TGT#2 (Dia 5 Fed Com #7H)	9420.0	-2500.0	12.7	417710.00	781353.75
PBHL (Dia 5 Fed Com #7H)	9440.0	-4077.0	24.0	416133.00	781375.00

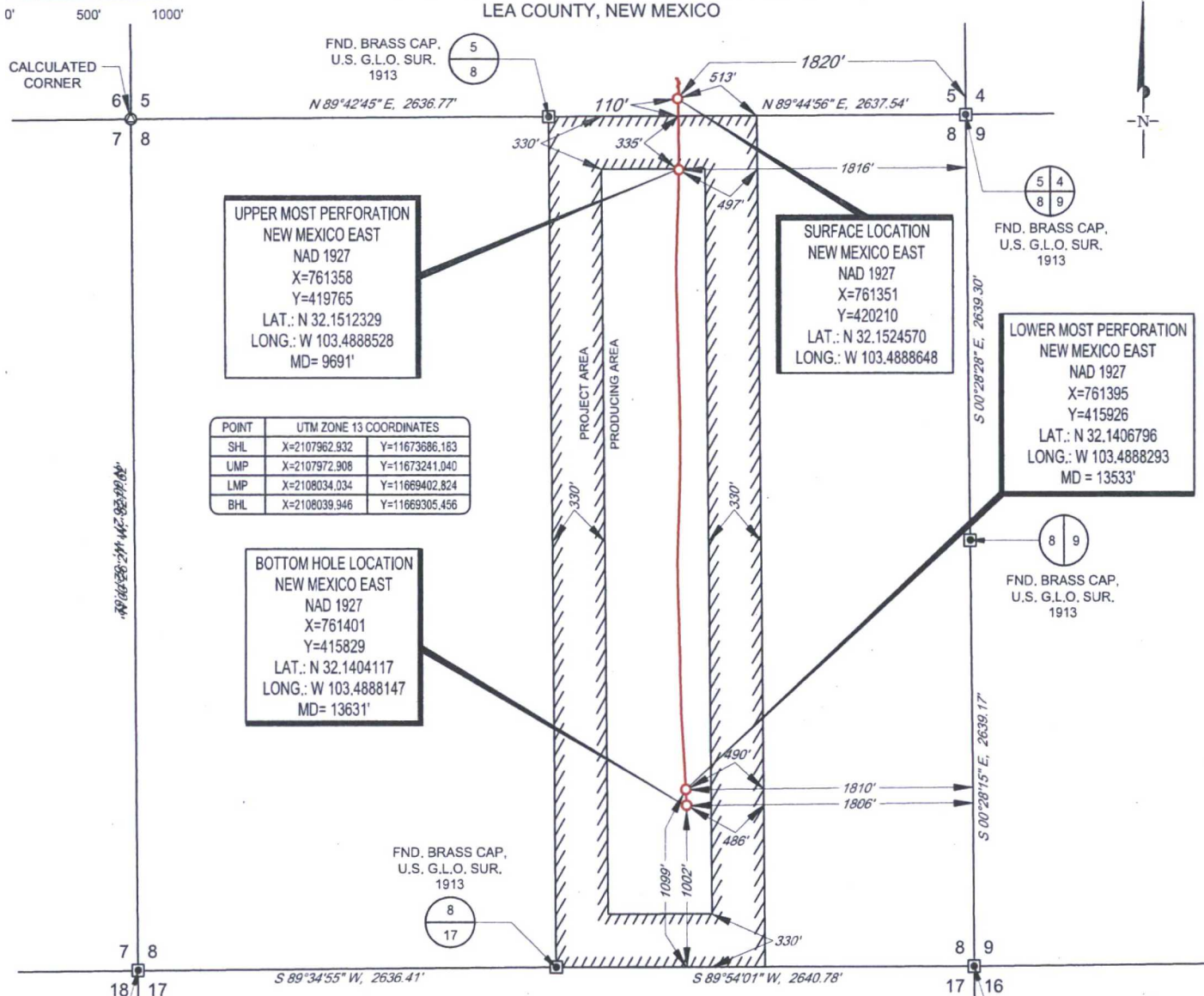


Vertical Section at 179.59° (200' width)

Lea County, NM (NAD 27 NME)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1886
 Zone: New Mexico East 3061
 System Datum: Mean Sea Level

SCALE: 1" = 1000'

SECTION 5, TOWNSHIP 25-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



UPPER MOST PERFORATION
NEW MEXICO EAST
NAD 1927
X=761358
Y=419765
LAT.: N 32.1512329
LONG.: W 103.4888528
MD= 9691'

SURFACE LOCATION
NEW MEXICO EAST
NAD 1927
X=761351
Y=420210
LAT.: N 32.1524570
LONG.: W 103.4888648

LOWER MOST PERFORATION
NEW MEXICO EAST
NAD 1927
X=761395
Y=415926
LAT.: N 32.1406796
LONG.: W 103.4888293
MD = 13533'

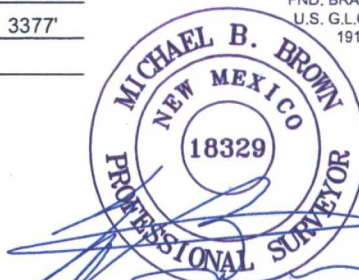
POINT	UTM ZONE 13 COORDINATES	
SHL	X=2107962.932	Y=11673686.183
UMP	X=2107972.908	Y=11673241.040
LMP	X=2108034.034	Y=11669402.824
BHL	X=2108039.946	Y=11669305.456

BOTTOM HOLE LOCATION
NEW MEXICO EAST
NAD 1927
X=761401
Y=415829
LAT.: N 32.1404117
LONG.: W 103.4888147
MD= 13631'

LEASE NAME & WELL NO.: DIAMOND 5 FED COM #7H
SECTION 5 TWP 25-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3377'
DESCRIPTION 110' FSL & 1820' FEL



1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
MARCH 10, 2017



DIAMOND 5 FED COM #7H AS-COMPLETED	REVISION:	
DATE:	03/10/17	
FILE:	AD_DIAMOND5FEDCOM_7H	
DRAWN BY:	A.C.C.	
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 19 27.
 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.



MWD SURVEY REPORT

MWD Services, LLC

Survey End Date : April 08, 2015
 Job Number : 15053
 Operator : EOG Resources, Inc.
 Lease / Well : Diamond 5 Fed Com #7H
 API Number : 30-025-41991
 Location : Lea County, New Mexico
 Field / Formation : Red Hills; Upper Bone Spring Shale
 Contractor / Rig : Nomac Drilling, LLC Rig 55
 Directional Company : EOG Resources, Inc.
 MWD Field Rep. : Craig Oliver, Jay Miller
 Tie In Survey Reference : Surface, Assume Vertical
 Calculation Method : Minimum Curvature

Target +N / -S = -4077.0'
 Target +E / -W = 24.0'
 Target TVD = 9440.0'
 Magnetic Declination +E / -W = 7.16°
 Grid Convergence +E / -W = 0.45°
 Total Correction +E / -W = 6.71°
 North Reference = Grid
 Magnetic Reference Model = WMM2015
 Declination Date = 3/28/15
 RKB Height = 21.00'
 Ground Level Elevation = 3377'
 Vertical Section Azimuth = 179.66°

Comments :

SURVEY #0 = TIE IN SURVEY
 SURVEY #148 = 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)	+E / -W (ft)	Closure Distance (ft)	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	180.00'	0.20°	167.50°	180'	180.00'	0.31'	-0.31'	0.07'	0.31'	167.50°	0.11°
2	268.00'	0.80°	141.00°	88'	268.00'	0.94'	-0.93'	0.49'	1.05'	152.42°	0.71°
3	355.00'	1.00°	152.90°	87'	354.99'	2.09'	-2.08'	1.22'	2.41'	149.71°	0.31°
4	508.00'	1.30°	168.40°	153'	507.95'	4.98'	-4.97'	2.17'	5.42'	156.39°	0.28°
5	692.00'	1.60°	166.20°	184'	691.90'	9.53'	-9.51'	3.21'	10.04'	161.37°	0.17°
6	787.00'	1.10°	173.20°	95'	786.87'	11.72'	-11.70'	3.63'	12.25'	162.77°	0.55°
7	882.00'	0.30°	311.40°	95'	881.86'	12.47'	-12.44'	3.55'	12.94'	164.07°	1.41°
8	1072.00'	0.40°	59.90°	190'	1071.86'	11.80'	-11.78'	3.75'	12.37'	162.34°	0.30°
9	1177.00'	0.50°	72.40°	105'	1176.86'	11.49'	-11.46'	4.51'	12.31'	158.54°	0.13°
10	1271.00'	0.40°	43.70°	94'	1270.86'	11.13'	-11.10'	5.12'	12.22'	155.22°	0.26°
11	1366.00'	0.50°	58.20°	95'	1365.85'	10.67'	-10.64'	5.70'	12.07'	151.80°	0.16°
12	1461.00'	0.60°	41.10°	95'	1460.85'	10.09'	-10.05'	6.38'	11.90'	147.57°	0.20°
13	1555.00'	1.30°	334.80°	94'	1554.84'	8.75'	-8.71'	6.25'	10.72'	144.33°	1.27°
14	1651.00'	1.50°	332.20°	96'	1650.81'	6.65'	-6.62'	5.20'	8.42'	141.81°	0.22°
15	1746.00'	1.50°	329.70°	95'	1745.78'	4.47'	-4.44'	4.00'	5.98'	138.02°	0.07°
16	1841.00'	1.70°	328.60°	95'	1840.74'	2.18'	-2.17'	2.64'	3.41'	129.41°	0.21°
17	1936.00'	1.80°	333.70°	95'	1935.69'	-0.37'	0.37'	1.24'	1.30'	73.18°	0.19°
18	2031.00'	1.90°	330.70°	95'	2030.65'	-3.09'	3.09'	-0.19'	3.09'	356.44°	0.15°
19	2127.00'	2.10°	334.10°	96'	2126.59'	-6.07'	6.06'	-1.74'	6.30'	343.98°	0.24°
20	2222.00'	1.70°	358.50°	95'	2221.54'	-9.05'	9.03'	-2.54'	9.38'	344.31°	0.94°
21	2315.00'	1.80°	4.90°	93'	2314.49'	-11.88'	11.86'	-2.45'	12.11'	348.34°	0.24°
22	2410.00'	1.80°	9.20°	95'	2409.45'	-14.84'	14.82'	-2.08'	14.97'	352.01°	0.14°
23	2505.00'	2.10°	15.20°	95'	2504.39'	-17.98'	17.98'	-1.39'	18.03'	355.59°	0.38°
24	2600.00'	2.20°	15.90°	95'	2599.32'	-21.41'	21.41'	-0.43'	21.41'	358.85°	0.11°
25	2695.00'	1.40°	353.20°	95'	2694.28'	-24.32'	24.32'	-0.07'	24.32'	359.84°	1.11°
26	2790.00'	1.40°	3.70°	95'	2789.25'	-26.63'	26.63'	-0.13'	26.63'	359.72°	0.27°

Srv.	Survey	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates		Closure		Dogleg Severity
	Depth						+N / -S	+E / -W	Distance	Azimuth	
27	2886.00'	1.50°	18.80°	96'	2885.22'	-28.98'	28.99'	0.35'	28.99'	0.69°	0.41°
28	2980.00'	1.80°	32.00°	94'	2979.18'	-31.39'	31.40'	1.53'	31.44'	2.79°	0.51°
29	3075.00'	2.10°	35.70°	95'	3074.12'	-34.06'	34.08'	3.33'	34.24'	5.59°	0.34°
30	3170.00'	1.90°	18.90°	95'	3169.07'	-36.96'	36.99'	4.86'	37.30'	7.49°	0.65°
31	3265.00'	2.20°	18.20°	95'	3264.01'	-40.17'	40.21'	5.94'	40.64'	8.40°	0.32°
32	3361.00'	2.50°	359.80°	96'	3359.93'	-44.01'	44.05'	6.51'	44.53'	8.40°	0.84°
33	3456.00'	2.80°	4.80°	95'	3454.83'	-48.40'	48.44'	6.70'	48.90'	7.87°	0.40°
34	3551.00'	3.00°	18.90°	95'	3549.71'	-53.05'	53.10'	7.69'	53.65'	8.25°	0.78°
35	3645.00'	2.30°	344.60°	94'	3643.61'	-57.20'	57.25'	7.99'	57.80'	7.95°	1.81°
36	3740.00'	2.40°	333.80°	95'	3738.53'	-60.83'	60.87'	6.61'	61.23'	6.19°	0.48°
37	3835.00'	2.30°	340.90°	95'	3833.45'	-64.42'	64.45'	5.10'	64.66'	4.53°	0.32°
38	3931.00'	2.40°	340.30°	96'	3929.37'	-68.14'	68.17'	3.80'	68.27'	3.19°	0.11°
39	4026.00'	2.30°	339.20°	95'	4024.29'	-71.81'	71.82'	2.45'	71.86'	1.95°	0.12°
40	4120.00'	2.30°	326.70°	94'	4118.21'	-75.16'	75.16'	0.74'	75.17'	0.57°	0.53°
41	4216.00'	2.30°	20.70°	96'	4214.15'	-78.57'	78.57'	0.37'	78.57'	0.27°	2.17°
42	4311.00'	2.50°	28.90°	95'	4309.07'	-82.16'	82.17'	2.04'	82.20'	1.42°	0.42°
43	4406.00'	1.50°	6.00°	95'	4404.01'	-85.20'	85.22'	3.17'	85.28'	2.13°	1.33°
44	4596.00'	2.00°	50.20°	190'	4593.93'	-89.78'	89.82'	5.98'	90.02'	3.81°	0.73°
45	4691.00'	1.20°	40.50°	95'	4688.89'	-91.59'	91.64'	7.90'	91.97'	4.93°	0.89°
46	4786.00'	0.80°	349.80°	95'	4783.88'	-92.99'	93.04'	8.43'	93.43'	5.18°	0.98°
47	4881.00'	0.60°	33.40°	95'	4878.87'	-94.06'	94.11'	8.59'	94.50'	5.21°	0.58°
48	4977.00'	1.00°	99.00°	96'	4974.86'	-94.34'	94.40'	9.69'	94.90'	5.86°	0.97°
49	5136.00'	1.30°	106.60°	159'	5133.83'	-93.59'	93.67'	12.79'	94.54'	7.77°	0.21°
50	5241.00'	1.40°	108.40°	105'	5238.80'	-92.83'	92.92'	15.15'	94.15'	9.26°	0.10°
51	5336.00'	1.30°	338.50°	95'	5333.79'	-93.46'	93.56'	15.85'	94.89'	9.62°	2.58°
52	5432.00'	1.30°	344.30°	96'	5429.76'	-95.53'	95.62'	15.16'	96.82'	9.01°	0.14°
53	5527.00'	1.30°	337.40°	95'	5524.74'	-97.57'	97.65'	14.45'	98.72'	8.42°	0.16°
54	5622.00'	1.40°	334.40°	95'	5619.71'	-99.61'	99.70'	13.54'	100.61'	7.73°	0.13°
55	5812.00'	1.30°	334.70°	190'	5809.66'	-103.67'	103.74'	11.61'	104.39'	6.39°	0.05°
56	5908.00'	1.30°	341.80°	96'	5905.64'	-105.69'	105.76'	10.81'	106.31'	5.84°	0.17°
57	6002.00'	1.20°	335.60°	94'	5999.61'	-107.60'	107.67'	10.07'	108.14'	5.34°	0.18°
58	6098.00'	1.70°	314.00°	96'	6095.58'	-109.52'	109.57'	8.63'	109.91'	4.50°	0.76°
59	6193.00'	1.70°	301.50°	95'	6190.54'	-111.25'	111.29'	6.41'	111.47'	3.30°	0.39°
60	6289.00'	1.80°	307.70°	96'	6286.50'	-112.93'	112.95'	4.01'	113.02'	2.03°	0.22°
61	6384.00'	2.00°	311.80°	95'	6381.44'	-114.96'	114.97'	1.59'	114.98'	0.79°	0.25°
62	6479.00'	2.00°	317.20°	95'	6476.39'	-117.29'	117.29'	-0.77'	117.29'	359.62°	0.20°
63	6574.00'	1.90°	318.00°	95'	6571.33'	-119.69'	119.68'	-2.95'	119.74'	358.59°	0.11°
64	6668.00'	2.00°	315.60°	94'	6665.28'	-122.03'	122.01'	-5.14'	122.11'	357.59°	0.14°
65	6763.00'	1.60°	321.40°	95'	6760.23'	-124.27'	124.23'	-7.13'	124.43'	356.72°	0.46°
66	6859.00'	1.60°	322.90°	96'	6856.19'	-126.39'	126.34'	-8.77'	126.65'	356.03°	0.04°
67	6958.00'	1.00°	263.00°	99'	6955.17'	-127.40'	127.34'	-10.47'	127.77'	355.30°	1.41°
68	7052.00'	0.90°	105.50°	94'	7049.17'	-127.10'	127.04'	-10.57'	127.48'	355.24°	1.98°
69	7148.00'	0.90°	126.90°	96'	7145.15'	-126.44'	126.39'	-9.24'	126.73'	355.82°	0.35°
70	7243.00'	0.80°	110.40°	95'	7240.14'	-125.76'	125.71'	-8.02'	125.97'	356.35°	0.28°
71	7338.00'	0.80°	123.80°	95'	7335.13'	-125.15'	125.11'	-6.85'	125.30'	356.87°	0.20°
72	7433.00'	0.80°	121.50°	95'	7430.13'	-124.43'	124.39'	-5.73'	124.53'	357.36°	0.03°
73	7528.00'	0.70°	105.20°	95'	7525.12'	-123.92'	123.90'	-4.61'	123.98'	357.87°	0.25°
74	7623.00'	0.70°	115.70°	95'	7620.11'	-123.51'	123.49'	-3.52'	123.54'	358.37°	0.13°
75	7718.00'	0.80°	105.20°	95'	7715.10'	-123.08'	123.07'	-2.36'	123.09'	358.90°	0.18°
76	7813.00'	1.00°	121.90°	95'	7810.09'	-122.46'	122.45'	-1.02'	122.46'	359.52°	0.35°
77	8003.00'	0.50°	89.60°	190'	8000.07'	-121.57'	121.58'	1.22'	121.59'	0.58°	0.33°

Srv.	Survey Depth	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates		Closure		Dogleg Severity
							+N / -S	+E / -W	Distance	Azimuth	
78	8099.00'	0.70°	98.70°	96'	8096.07'	-121.48'	121.50'	2.22'	121.52'	1.05°	0.23°
79	8193.00'	0.70°	97.20°	94'	8190.06'	-121.32'	121.34'	3.36'	121.39'	1.58°	0.02°
80	8289.00'	1.10°	336.80°	96'	8286.06'	-122.09'	122.11'	3.58'	122.17'	1.68°	1.64°
81	8384.00'	1.10°	328.60°	95'	8381.04'	-123.71'	123.73'	2.74'	123.76'	1.27°	0.17°
82	8573.00'	0.40°	332.00°	189'	8570.02'	-125.85'	125.86'	1.49'	125.87'	0.68°	0.37°
83	8668.00'	0.20°	128.00°	95'	8665.02'	-126.04'	126.05'	1.46'	126.06'	0.66°	0.62°
84	8763.00'	0.50°	140.80°	95'	8760.02'	-125.61'	125.63'	1.85'	125.64'	0.85°	0.32°
85	8772.00'	0.40°	157.40°	9'	8769.02'	-125.56'	125.57'	1.89'	125.58'	0.86°	1.81°
86	8830.00'	1.40°	182.10°	58'	8827.01'	-124.66'	124.67'	1.94'	124.69'	0.89°	1.81°
87	8877.00'	8.60°	178.10°	47'	8873.80'	-120.57'	120.58'	2.04'	120.60'	0.97°	15.33°
88	8924.00'	17.90°	175.30°	47'	8919.50'	-109.83'	109.85'	2.75'	109.88'	1.43°	19.83°
89	8972.00'	26.00°	175.60°	48'	8963.98'	-91.95'	91.98'	4.16'	92.07'	2.59°	16.88°
90	9019.00'	28.90°	175.00°	47'	9005.69'	-70.35'	70.39'	5.94'	70.64'	4.83°	6.20°
91	9067.00'	33.60°	177.50°	48'	9046.71'	-45.50'	45.55'	7.53'	46.17'	9.39°	10.16°
92	9115.00'	36.70°	182.80°	48'	9085.97'	-17.90'	17.94'	7.41'	19.41'	22.45°	9.06°
93	9162.00'	39.60°	182.00°	47'	9122.92'	11.10'	-11.06'	6.20'	12.68'	150.72°	6.26°
94	9209.00'	43.90°	181.00°	47'	9157.98'	42.37'	-42.34'	5.40'	42.68'	172.74°	9.26°
95	9257.00'	46.50°	180.60°	48'	9191.80'	76.42'	-76.39'	4.92'	76.55'	176.31°	5.45°
96	9304.00'	48.60°	179.30°	47'	9223.52'	111.10'	-111.07'	4.96'	111.18'	177.44°	4.91°
97	9351.00'	50.80°	177.20°	47'	9253.92'	146.93'	-146.89'	6.06'	147.02'	177.64°	5.79°
98	9398.00'	52.50°	179.70°	47'	9283.08'	183.77'	-183.73'	7.05'	183.87'	177.80°	5.52°
99	9446.00'	52.70°	180.60°	48'	9312.24'	221.90'	-221.86'	6.95'	221.97'	178.21°	1.55°
100	9494.00'	58.10°	179.80°	48'	9339.48'	261.39'	-261.36'	6.82'	261.45'	178.50°	11.33°
101	9540.00'	63.00°	179.20°	46'	9362.09'	301.44'	-301.40'	7.18'	301.49'	178.64°	10.71°
102	9588.00'	68.80°	179.80°	48'	9381.69'	345.24'	-345.20'	7.55'	345.28'	178.75°	12.14°
103	9636.00'	75.40°	180.30°	48'	9396.43'	390.89'	-390.85'	7.51'	390.92'	178.90°	13.79°
104	9668.00'	80.80°	180.20°	32'	9403.03'	422.18'	-422.15'	7.37'	422.21'	179.00°	16.88°
105	9765.00'	87.30°	181.00°	97'	9413.08'	518.60'	-518.57'	6.36'	518.61'	179.30°	6.75°
106	9861.00'	89.10°	181.50°	96'	9416.09'	614.51'	-614.49'	4.27'	614.51'	179.60°	1.95°
107	9955.00'	89.50°	182.40°	94'	9417.24'	708.42'	-708.43'	1.07'	708.43'	179.91°	1.05°
108	10050.00'	90.50°	182.40°	95'	9417.24'	803.31'	-803.35'	-2.91'	803.35'	180.21°	1.05°
109	10145.00'	90.20°	181.50°	95'	9416.66'	898.24'	-898.29'	-6.14'	898.31'	180.39°	1.00°
110	10240.00'	88.40°	181.80°	95'	9417.82'	993.17'	-993.24'	-8.88'	993.28'	180.51°	1.92°
111	10335.00'	88.10°	179.10°	95'	9420.72'	1088.11'	-1088.18'	-9.62'	1088.22'	180.51°	2.86°
112	10366.00'	88.30°	179.20°	31'	9421.70'	1119.09'	-1119.16'	-9.16'	1119.20'	180.47°	0.72°
113	10429.00'	88.30°	179.00°	63'	9423.56'	1182.06'	-1182.13'	-8.17'	1182.16'	180.40°	0.32°
114	10524.00'	90.00°	178.40°	95'	9424.97'	1277.03'	-1277.09'	-6.02'	1277.10'	180.27°	1.90°
115	10619.00'	90.40°	178.40°	95'	9424.64'	1372.01'	-1372.05'	-3.37'	1372.05'	180.14°	0.42°
116	10714.00'	90.50°	178.50°	95'	9423.90'	1466.98'	-1467.01'	-0.80'	1467.01'	180.03°	0.15°
117	10809.00'	90.80°	179.00°	95'	9422.82'	1561.96'	-1561.98'	1.28'	1561.98'	179.95°	0.61°
118	10904.00'	89.60°	178.20°	95'	9422.49'	1656.94'	-1656.95'	3.60'	1656.96'	179.88°	1.52°
119	11000.00'	89.20°	178.20°	96'	9423.49'	1752.91'	-1752.90'	6.61'	1752.91'	179.78°	0.42°
120	11095.00'	89.30°	178.70°	95'	9424.74'	1847.88'	-1847.86'	9.18'	1847.88'	179.72°	0.54°
121	11191.00'	89.60°	179.10°	96'	9425.66'	1943.87'	-1943.83'	11.02'	1943.87'	179.68°	0.52°
122	11286.00'	88.00°	179.30°	95'	9427.65'	2038.84'	-2038.80'	12.35'	2038.84'	179.65°	1.70°
123	11381.00'	88.20°	180.00°	95'	9430.80'	2133.79'	-2133.75'	12.93'	2133.79'	179.65°	0.77°
124	11476.00'	88.60°	180.20°	95'	9433.45'	2228.75'	-2228.71'	12.77'	2228.75'	179.67°	0.47°
125	11571.00'	89.50°	181.10°	95'	9435.02'	2323.72'	-2323.69'	11.69'	2323.72'	179.71°	1.34°
126	11667.00'	88.70°	181.60°	96'	9436.53'	2419.66'	-2419.65'	9.43'	2419.67'	179.78°	0.98°
127	11762.00'	88.50°	182.10°	95'	9438.85'	2514.56'	-2514.57'	6.36'	2514.58'	179.86°	0.57°
128	11857.00'	88.40°	182.10°	95'	9441.42'	2609.44'	-2609.47'	2.88'	2609.47'	179.94°	0.11°

Srv.	Survey	Inclination	Azimuth	Course Length	True Vertical	Vertical Section	Coordinates		Closure		Dogleg Severity
	Depth						+N / -S	+E / -W	Distance	Azimuth	
129	11952.00'	88.30°	182.40°	95'	9444.16'	2704.31'	-2704.36'	-0.85'	2704.36'	180.02°	0.33°
130	12046.00'	89.40°	181.60°	94'	9446.04'	2798.21'	-2798.28'	-4.13'	2798.28'	180.08°	1.45°
131	12142.00'	89.40°	179.30°	96'	9447.05'	2894.19'	-2894.27'	-4.88'	2894.27'	180.10°	2.40°
132	12174.00'	89.40°	178.80°	32'	9447.39'	2926.18'	-2926.26'	-4.35'	2926.26'	180.09°	1.56°
133	12237.00'	89.80°	179.60°	63'	9447.83'	2989.18'	-2989.25'	-3.47'	2989.25'	180.07°	1.42°
134	12332.00'	89.60°	178.40°	95'	9448.32'	3084.17'	-3084.23'	-1.81'	3084.23'	180.03°	1.28°
135	12427.00'	89.60°	178.20°	95'	9448.99'	3179.14'	-3179.19'	1.00'	3179.19'	179.98°	0.21°
136	12523.00'	89.80°	178.40°	96'	9449.49'	3275.11'	-3275.15'	3.85'	3275.15'	179.93°	0.29°
137	12617.00'	88.30°	178.20°	94'	9451.05'	3369.07'	-3369.09'	6.64'	3369.09'	179.89°	1.61°
138	12713.00'	88.30°	179.10°	96'	9453.90'	3465.01'	-3465.02'	8.90'	3465.03'	179.85°	0.94°
139	12808.00'	88.40°	179.60°	95'	9456.63'	3559.97'	-3559.97'	9.98'	3559.99'	179.84°	0.54°
140	12904.00'	87.80°	177.80°	96'	9459.81'	3655.90'	-3655.89'	12.16'	3655.91'	179.81°	1.98°
141	12999.00'	88.00°	177.70°	95'	9463.29'	3750.78'	-3750.75'	15.88'	3750.79'	179.76°	0.24°
142	13093.00'	89.70°	177.80°	94'	9465.18'	3844.71'	-3844.66'	19.57'	3844.71'	179.71°	1.81°
143	13189.00'	89.10°	176.30°	96'	9466.19'	3940.60'	-3940.52'	24.51'	3940.60'	179.64°	1.68°
144	13283.00'	90.90°	176.40°	94'	9466.19'	4034.44'	-4034.33'	30.50'	4034.44'	179.57°	1.92°
145	13378.00'	91.80°	176.90°	95'	9463.95'	4129.28'	-4129.14'	36.05'	4129.30'	179.50°	1.08°
146	13473.00'	90.70°	176.80°	95'	9461.88'	4224.14'	-4223.97'	41.26'	4224.17'	179.44°	1.16°
147	13568.00'	91.00°	176.90°	95'	9460.47'	4319.02'	-4318.82'	46.48'	4319.07'	179.38°	0.33°
148	13631.00'	91.00°	176.90°	63'	9459.37'	4381.93'	-4381.72'	49.89'	4382.00'	179.35°	0.00°



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 3/28/15 through 4/8/15 conduct or supervise the taking of MWD survey(s) from a depth of 180 feet to a depth of 13,568 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 #7H Well, API # 30-025-41991 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