



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 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #7H

Ground Level: 3377.0
KB = 21 @ 3398.0usft (Nomac 55)
Northing: 420210.00 Easting: 761351.00 Latitude: 32° 9' 8.843 N Longitude: 103° 29' 19.911 W

Azimuths to Grid North
True North: -0.45°
Magnetic North: 6.70°

Magnetic Field
Strength: 48133.9nT
Dip Angle: 60.04°
Date: 3/26/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.70°
To convert a Magnetic Direction to a True Direction, Add 7.15° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

SECTION DETAILS

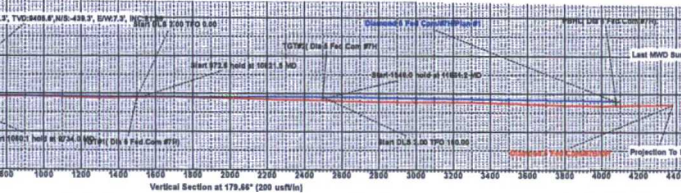
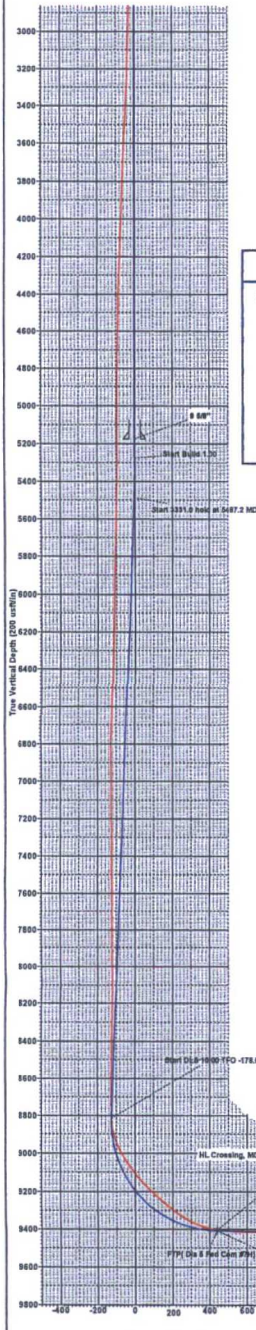
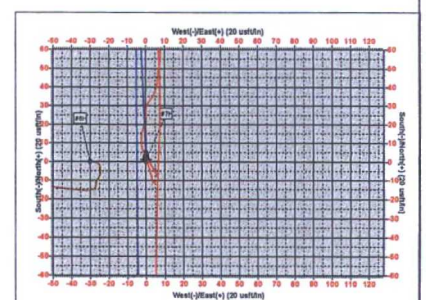
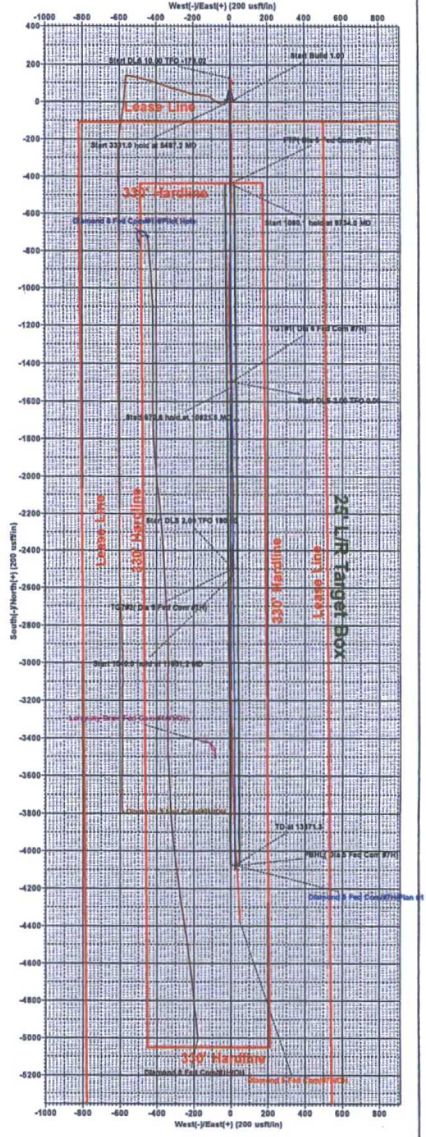
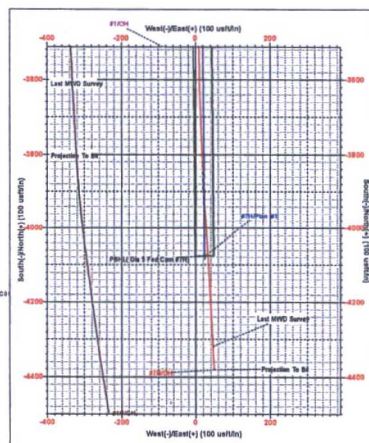
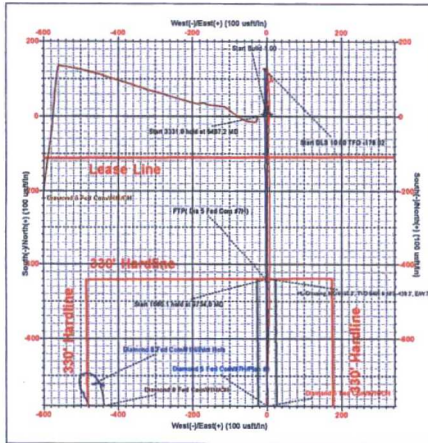
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5275.0	0.00	0.00	5275.0	0.0	0.0	0.00	0.00	0.0	
3	5487.2	2.12	357.61	5487.1	3.9	-0.2	1.00	357.61	-3.9	
4	8818.2	2.12	357.61	8815.9	127.2	-5.3	0.00	0.00	-127.2	
5	9734.0	89.46	179.59	9410.0	-440.0	-2.0	10.00	-178.02	440.0	FTP (Dia 5 Fed Com #7H)
6	10794.1	89.46	179.59	9420.0	-1500.0	5.6	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)

CASING DETAILS

TVD	MD	Name	Size
1200.0	1200.0	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	-2.0	419775.00	761348.00
TGT#1 (Dia 5 Fed Com #7H)	9420.0	-1500.0	5.6	419710.00	761356.00
TGT#2 (Dia 5 Fed Com #7H)	9420.0	-2500.0	12.7	417710.00	761363.73
PBHL (Dia 5 Fed Com #7H)	9440.0	-4077.0	24.0	416133.00	761376.00



Lea County, NM (NAD 27 NME)
Diamond 5 Fed Com #7H
Nomac 55
Plan #1
3/26/2015



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Diamond 5 Fed Com

#7H

OH

Design: OH

EOG PVA

08 April, 2015

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EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Diamond 5 Fed Com
Well: #7H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #7H
TVD Reference: KB = 21 @ 3398.0usft (Nomac 55)
MD Reference: KB = 21 @ 3398.0usft (Nomac 55)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project Lea County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site Diamond 5 Fed Com
Site Position: Northing: 420,210.00 usft Latitude: 32° 9' 8.845 N
From: Map Easting: 761,321.00 usft Longitude: 103° 29' 20.260 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.45 °

Well #7H
Well Position +N/-S 0.0 usft Northing: 420,210.00 usft Latitude: 32° 9' 8.843 N
+E/-W 0.0 usft Easting: 761,351.00 usft Longitude: 103° 29' 19.911 W
Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,377.0 usft

Wellbore OH
Magnetics

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
IGRF2015	3/26/2015	7.15	60.04	48,134

Design OH
Audit Notes:
Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.0
Vertical Section:

Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
0.0	0.0	0.0	179.66

Survey Program Date 4/8/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
180.0	13,631.0	MWD ser MWD #1 (OH)	MWD	MWD - Standard



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EOG PVA

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Local Co-ordinate Reference: Well #7H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
180.0	0.20	167.50	180.0	-0.3	0.1	0.11	0.11	0.00	-0.3	0.0
268.0	0.80	141.00	268.0	-0.9	0.5	0.71	0.68	-30.11	-1.0	-0.2
355.0	1.00	152.90	355.0	-2.1	1.2	0.31	0.23	13.68	-2.4	0.1
508.0	1.30	168.40	508.0	-5.0	2.2	0.28	0.20	10.13	-5.3	1.1
692.0	1.60	166.20	691.9	-9.5	3.2	0.17	0.16	-1.20	-10.0	0.8
787.0	1.10	173.20	786.9	-11.7	3.6	0.55	-0.53	7.37	-12.1	2.2
882.0	0.30	311.40	881.9	-12.4	3.6	1.41	-0.84	145.47	10.9	7.0
1,072.0	0.40	59.90	1,071.9	-11.8	3.8	0.30	0.05	57.11	2.7	-12.1
1,177.0	0.50	72.40	1,176.9	-11.5	4.5	0.13	0.10	11.90	-0.8	-12.3
1,271.0	0.40	43.70	1,270.9	-11.1	5.1	0.26	-0.11	-30.53	4.5	-11.4
1,366.0	0.50	58.20	1,365.9	-10.6	5.7	0.16	0.11	15.26	0.8	-12.0
1,461.0	0.60	41.10	1,460.8	-10.0	6.4	0.20	0.11	-18.00	3.4	-11.4
1,555.0	1.30	334.80	1,554.8	-8.7	6.3	1.27	0.74	-70.53	10.5	-1.9
1,651.0	1.50	332.20	1,650.8	-6.6	5.2	0.22	0.21	-2.71	8.3	-1.5
1,746.0	1.50	329.70	1,745.8	-4.4	4.0	0.07	0.00	-2.63	5.9	-1.2
1,841.0	1.70	328.60	1,840.7	-2.2	2.6	0.21	0.21	-1.16	3.2	-1.1
1,936.0	1.80	333.70	1,935.7	0.4	1.2	0.19	0.11	5.37	0.2	-1.3
2,031.0	1.90	330.70	2,030.6	3.1	-0.2	0.15	0.11	-3.16	-2.8	-1.3
2,127.0	2.10	334.10	2,126.6	6.1	-1.7	0.24	0.21	3.54	-6.2	-1.1
2,222.0	1.70	358.50	2,221.5	9.0	-2.5	0.94	-0.42	25.68	-9.1	2.3
2,315.0	1.80	4.90	2,314.5	11.9	-2.4	0.24	0.11	6.88	-11.6	3.5
2,410.0	1.80	9.20	2,409.4	14.8	-2.1	0.14	0.00	4.53	-14.3	4.4
2,505.0	2.10	15.20	2,504.4	18.0	-1.4	0.38	0.32	6.32	-17.0	6.1
2,600.0	2.20	15.90	2,599.3	21.4	-0.4	0.11	0.11	0.74	-20.5	6.3
2,695.0	1.40	353.20	2,694.3	24.3	-0.1	1.11	-0.84	-23.89	-24.2	-2.8
2,790.0	1.40	3.70	2,789.2	26.6	-0.1	0.27	0.00	11.05	-26.6	1.8



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Diamond 5 Fed Com
Well: #7H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #7H
TVD Reference: KB = 21 @ 3398.0usft (Nomac 55)
MD Reference: KB = 21 @ 3398.0usft (Nomac 55)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,886.0	1.50	18.80	2,885.2	29.0	0.3	0.41	0.10	15.73	-27.6	9.0	
2,980.0	1.80	32.00	2,979.2	31.4	1.5	0.51	0.32	14.04	-27.4	15.4	
3,075.0	2.10	35.70	3,074.1	34.1	3.3	0.34	0.32	3.89	-29.6	17.2	
3,170.0	1.90	18.90	3,169.1	37.0	4.9	0.65	-0.21	-17.68	-36.6	7.4	
3,265.0	2.20	18.20	3,264.0	40.2	5.9	0.32	0.32	-0.74	-40.1	6.9	
3,361.0	2.50	359.80	3,359.9	44.1	6.5	0.84	0.31	-19.17	-44.0	-6.7	
3,456.0	2.80	4.80	3,454.8	48.4	6.7	0.40	0.32	5.26	-48.8	-2.6	
3,551.0	3.00	18.90	3,549.7	53.1	7.7	0.78	0.21	14.84	-52.7	9.9	
3,645.0	2.30	344.60	3,643.6	57.2	8.0	1.81	-0.74	-36.49	-53.1	-22.9	
3,740.0	2.40	333.80	3,738.5	60.9	6.6	0.48	0.11	-11.37	-51.7	-32.8	
3,835.0	2.30	340.90	3,833.5	64.5	5.1	0.32	-0.11	7.47	-59.2	-25.9	
3,931.0	2.40	340.30	3,929.4	68.2	3.8	0.11	0.10	-0.62	-62.9	-26.6	
4,026.0	2.30	339.20	4,024.3	71.8	2.4	0.12	-0.11	-1.16	-66.3	-27.8	
4,120.0	2.30	326.70	4,118.2	75.2	0.7	0.53	0.00	-13.30	-62.4	-41.9	
4,216.0	2.30	20.70	4,214.1	78.6	0.4	2.17	0.00	56.25	-73.6	27.5	
4,311.0	2.50	28.90	4,309.1	82.2	2.0	0.42	0.21	8.63	-72.9	38.0	
4,406.0	1.50	6.00	4,404.0	85.2	3.2	1.33	-1.05	-24.11	-85.1	5.8	
4,596.0	2.00	50.20	4,593.9	89.8	6.0	0.73	0.26	23.26	-62.1	65.2	
4,691.0	1.20	40.50	4,688.9	91.6	7.9	0.89	-0.84	-10.21	-74.8	53.5	
4,786.0	0.80	349.80	4,783.9	93.0	8.4	0.98	-0.42	-53.37	-90.1	-24.8	
4,881.0	0.60	33.40	4,878.9	94.1	8.6	0.58	-0.21	45.89	-83.3	44.6	
4,977.0	1.00	99.00	4,974.9	94.4	9.7	0.97	0.42	68.33	5.2	94.8	
5,136.0	1.30	106.60	5,133.8	93.7	12.8	0.21	0.19	4.78	14.5	93.4	
5,241.0	1.40	108.40	5,238.8	92.9	15.1	0.10	0.10	1.71	15.0	93.0	
5,336.0	1.30	338.50	5,333.8	93.6	15.9	2.58	-0.11	-136.74	-80.9	-48.9	
5,432.0	1.30	344.30	5,429.8	95.6	15.2	0.14	0.00	6.04	-85.9	-40.0	
5,527.0	1.30	337.40	5,524.7	97.7	14.5	0.16	0.00	-7.26	-79.6	-49.0	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #7H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 21 @ 3398.0usft (Nomac 55)
Site:	Diamond 5 Fed Com	MD Reference:	KB = 21 @ 3398.0usft (Nomac 55)
Well:	#7H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,622.0	1.40	334.40	5,619.7	99.7	13.5	0.13	0.11	-3.16	-75.9	-51.8	
5,812.0	1.30	334.70	5,809.7	103.7	11.6	0.05	-0.05	0.16	-74.2	-48.6	
5,908.0	1.30	341.80	5,905.6	105.8	10.8	0.17	0.00	7.40	-78.3	-38.0	
6,002.0	1.20	335.60	5,999.6	107.7	10.1	0.18	-0.11	-6.60	-72.6	-45.0	
6,098.0	1.70	314.00	6,095.6	109.6	8.6	0.76	0.52	-22.50	-50.7	-66.5	
6,193.0	1.70	301.50	6,190.5	111.3	6.4	0.39	0.00	-13.16	-36.0	-73.3	
6,289.0	1.80	307.70	6,286.5	113.0	4.0	0.22	0.10	6.46	-44.3	-86.1	
6,384.0	2.00	311.80	6,381.4	115.0	1.6	0.25	0.21	4.32	-49.6	-60.1	
6,479.0	2.00	317.20	6,476.4	117.3	-0.8	0.20	0.00	5.68	-55.7	-52.8	
6,574.0	1.90	318.00	6,571.3	119.7	-3.0	0.11	-0.11	0.84	-56.9	-49.7	
6,668.0	2.00	315.60	6,665.3	122.0	-5.1	0.14	0.11	-2.55	-55.4	-49.8	
6,763.0	1.60	321.40	6,760.2	124.2	-7.1	0.46	-0.42	6.11	-60.3	-41.7	
6,859.0	1.60	322.90	6,856.2	126.3	-8.8	0.04	0.00	1.56	-61.1	-38.0	
6,958.0	1.00	263.00	6,955.2	127.3	-10.5	1.41	-0.61	-60.51	0.4	-69.5	
7,052.0	0.90	105.50	7,049.2	127.0	-10.6	1.98	-0.11	-167.55	25.1	60.8	
7,148.0	0.90	126.90	7,145.2	126.4	-9.2	0.35	0.00	22.29	41.8	44.9	
7,243.0	0.80	110.40	7,240.1	125.7	-8.0	0.28	-0.11	-17.37	24.6	51.5	
7,338.0	0.80	123.80	7,335.1	125.1	-6.8	0.20	0.00	14.11	32.5	41.7	
7,433.0	0.80	121.50	7,430.1	124.4	-5.7	0.03	0.00	-2.42	27.5	40.0	
7,528.0	0.70	105.20	7,525.1	123.9	-4.6	0.25	-0.11	-17.16	12.9	42.6	
7,623.0	0.70	115.70	7,620.1	123.5	-3.5	0.13	0.00	11.05	17.6	36.5	
7,718.0	0.80	105.20	7,715.1	123.1	-2.4	0.18	0.11	-11.05	8.4	35.7	
7,813.0	1.00	121.90	7,810.1	122.5	-1.0	0.35	0.21	17.58	14.8	29.1	
8,003.0	0.50	89.60	8,000.1	121.6	1.2	0.33	-0.26	-17.00	-5.4	24.6	
8,099.0	0.70	98.70	8,096.1	121.5	2.2	0.23	0.21	9.48	-3.2	21.7	
8,193.0	0.70	97.20	8,190.1	121.3	3.4	0.02	0.00	-1.60	-5.5	18.2	
8,289.0	1.10	336.80	8,286.1	122.1	3.6	1.64	0.42	-125.42	-10.2	-13.1	



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8,384.0	1.10	328.60	8,381.0	123.7	2.7	0.17	0.00	-8.63	-7.0	-12.9
8,573.0	0.40	332.00	8,570.0	125.9	1.5	0.37	-0.37	1.80	-3.9	-9.3
8,668.0	0.20	128.00	8,665.0	126.1	1.5	0.62	-0.21	164.21	-2.4	7.6
8,763.0	0.50	140.80	8,760.0	125.6	1.9	0.32	0.32	13.47	-4.0	5.8
8,772.0	0.40	157.40	8,769.0	125.6	1.9	1.81	-1.11	184.44	-2.6	6.6
8,830.0	1.40	182.10	8,827.0	124.7	1.9	1.81	1.72	42.59	-2.5	7.4
8,877.0	8.60	178.10	8,873.8	120.6	2.0	15.33	15.32	-8.51	-6.0	7.2
8,924.0	17.90	175.30	8,919.5	109.8	2.7	19.83	19.79	-5.96	-12.2	7.3
8,972.0	26.00	175.60	8,964.0	92.0	4.2	16.88	16.87	0.62	-21.4	8.2
9,019.0	28.90	175.00	9,005.7	70.4	5.9	6.20	6.17	-1.28	-31.1	8.9
9,067.0	33.60	177.50	9,046.7	45.5	7.5	10.16	9.79	5.21	-39.5	11.4
9,115.0	36.70	182.80	9,086.0	17.9	7.4	9.06	6.46	11.04	-46.4	14.7
9,162.0	39.60	182.00	9,122.9	-11.1	6.2	6.26	6.17	-1.70	-52.6	12.9
9,209.0	43.90	181.00	9,158.0	-42.3	5.4	9.26	9.15	-2.13	-57.6	11.1
9,257.0	46.50	180.60	9,191.8	-76.4	4.9	5.45	5.42	-0.83	-61.0	10.1
9,304.0	48.60	179.30	9,223.5	-111.1	5.0	4.91	4.47	-2.77	-62.0	8.9
9,351.0	50.80	177.20	9,253.9	-146.9	6.1	5.79	4.68	-4.47	-60.5	8.6
9,398.0	52.50	179.70	9,283.1	-183.7	7.1	5.52	3.62	5.32	-55.9	10.9
9,446.0	52.70	180.60	9,312.2	-221.9	7.0	1.55	0.42	1.87	-47.7	11.0
9,494.0	58.10	179.80	9,339.5	-261.4	6.8	11.33	11.25	-1.67	-37.8	10.3
9,540.0	63.00	179.20	9,362.1	-301.4	7.2	10.71	10.65	-1.30	-28.5	10.3
9,588.0	68.80	179.80	9,381.7	-345.2	7.6	12.14	12.08	1.25	-19.1	10.4
9,636.0	75.40	180.30	9,396.4	-390.8	7.5	13.79	13.75	1.04	-10.9	9.9
9,668.0	80.80	180.20	9,403.0	-422.1	7.4	16.88	16.87	-0.31	-6.5	9.5
9,685.3	81.96	180.34	9,405.6	-439.3	7.3	6.75	6.70	0.83	-4.3	9.3
HL Crossing, MD:9685.3', TVD:9405.6', N/S:-439.3', E/W:7.3', INC:81.96										
9,765.0	87.30	181.00	9,413.1	-518.6	6.4	6.75	6.70	0.82	2.3	7.8



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Diamond 5 Fed Com
Well: #7H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #7H
TVD Reference: KB = 21 @ 3398.0usft (Nomac 55)
MD Reference: KB = 21 @ 3398.0usft (Nomac 55)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,861.0	89.10	181.50	9,416.1	-614.5	4.3	1.95	1.87	0.52	4.4	5.0
9,955.0	89.50	182.40	9,417.2	-708.4	1.1	1.05	0.43	0.96	4.7	1.1
10,050.0	90.50	182.40	9,417.2	-803.3	-2.9	1.05	1.05	0.00	3.8	-3.5
10,145.0	90.20	181.50	9,416.7	-898.3	-6.1	1.00	-0.32	-0.95	2.3	-7.4
10,240.0	88.40	181.80	9,417.8	-993.2	-8.9	1.92	-1.89	0.32	2.6	-10.8
10,335.0	88.10	179.10	9,420.7	-1,088.2	-9.6	2.86	-0.32	-2.84	4.6	-12.3
10,366.0	88.30	179.20	9,421.7	-1,119.2	-9.2	0.72	0.65	0.32	5.3	-12.0
10,429.0	88.30	179.00	9,423.6	-1,182.1	-8.2	0.32	0.00	-0.32	6.6	-11.5
10,524.0	90.00	178.40	9,425.0	-1,277.1	-6.0	1.90	1.79	-0.63	7.1	-10.0
10,619.0	90.40	178.40	9,424.6	-1,372.1	-3.4	0.42	0.42	0.00	5.8	-8.0
10,714.0	90.50	178.50	9,423.9	-1,467.0	-0.8	0.15	0.11	0.11	4.2	-6.1
10,809.0	90.80	179.00	9,422.8	-1,562.0	1.3	0.61	0.32	0.53	2.7	-4.7
10,904.0	89.60	178.20	9,422.5	-1,657.0	3.6	1.52	-1.26	-0.84	2.4	-3.1
11,000.0	89.20	178.20	9,423.5	-1,752.9	6.6	0.42	-0.42	0.00	3.4	-0.8
11,095.0	89.30	178.70	9,424.7	-1,847.9	9.2	0.54	0.11	0.53	4.7	1.1
11,191.0	89.60	179.10	9,425.7	-1,943.8	11.0	0.52	0.31	0.42	5.6	2.3
11,286.0	88.00	179.30	9,427.6	-2,038.8	12.4	1.70	-1.68	0.21	7.6	2.9
11,381.0	88.20	180.00	9,430.8	-2,133.7	12.9	0.77	0.21	0.74	10.7	2.8
11,476.0	88.60	180.20	9,433.4	-2,228.7	12.8	0.47	0.42	0.21	13.4	2.0
11,571.0	89.50	181.10	9,435.0	-2,323.7	11.7	1.34	0.95	0.95	15.0	0.2
11,667.0	88.70	181.60	9,436.5	-2,419.6	9.4	0.98	-0.83	0.52	16.5	-2.7
11,762.0	88.50	182.10	9,438.9	-2,514.6	6.4	0.57	-0.21	0.53	18.8	-6.5
11,857.0	88.40	182.10	9,441.4	-2,609.5	2.9	0.11	-0.11	0.00	20.3	-10.6
11,952.0	88.30	182.40	9,444.2	-2,704.4	-0.8	0.33	-0.11	0.32	21.8	-15.0
12,046.0	89.40	181.60	9,446.0	-2,798.3	-4.1	1.45	1.17	-0.85	22.5	-19.0
12,142.0	89.40	179.30	9,447.1	-2,894.3	-4.9	2.40	0.00	-2.40	22.2	-20.4
12,174.0	89.40	178.80	9,447.4	-2,926.3	-4.4	1.56	0.00	-1.56	22.2	-20.1



EOG Resources, Inc.
EOG PVA

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Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,237.0	89.80	179.60	9,447.8	-2,989.3	-3.5	1.42	0.63	1.27	21.8	-19.7
12,332.0	89.60	178.40	9,448.3	-3,084.2	-1.8	1.28	-0.21	-1.26	21.1	-18.7
12,427.0	89.60	178.20	9,449.0	-3,179.2	1.0	0.21	0.00	-0.21	20.5	-16.6
12,523.0	89.80	178.40	9,449.5	-3,275.1	3.9	0.29	0.21	0.21	19.8	-14.4
12,617.0	88.30	178.20	9,451.0	-3,369.1	6.6	1.61	-1.60	-0.21	20.1	-12.3
12,713.0	88.30	179.10	9,453.9	-3,465.0	8.9	0.94	0.00	0.94	21.8	-10.7
12,808.0	88.40	179.60	9,456.6	-3,560.0	10.0	0.54	0.11	0.53	23.3	-10.3
12,904.0	87.80	177.80	9,459.8	-3,655.9	12.2	1.98	-0.62	-1.87	25.2	-8.8
12,999.0	88.00	177.70	9,463.3	-3,750.8	15.9	0.24	0.21	-0.11	27.5	-5.8
13,093.0	89.70	177.80	9,465.2	-3,844.7	19.6	1.81	1.81	0.11	28.2	-2.8
13,189.0	89.10	176.30	9,466.2	-3,940.5	24.5	1.68	-0.62	-1.56	27.9	1.5
13,283.0	90.90	176.40	9,466.2	-4,034.3	30.5	1.92	1.91	0.11	26.7	6.8
13,378.0	91.80	176.90	9,463.9	-4,129.1	36.0	1.08	0.95	0.53	55.2	19.8
13,473.0	90.70	176.80	9,461.9	-4,224.0	41.3	1.16	-1.16	-0.11	139.8	53.3
13,568.0	91.00	176.90	9,460.5	-4,318.8	46.5	0.33	0.32	0.11	227.9	86.5
Last MWD Survey										
13,631.0	91.00	176.90	9,459.4	-4,381.7	49.9	0.00	0.00	0.00	286.5	108.7
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,685.3	9,405.6	-439.3	7.3	HL Crossing, MD:9685.3', TVD:9405.6', N/S:-439.3', E/W:7.3', INC:81.96
13,568.0	9,460.5	-4,318.8	46.5	Last MWD Survey
13,631.0	9,459.4	-4,381.7	49.9	Projection To Bit



EOG Resources, Inc.

EOG PVA

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Checked By: _____ Approved By: _____ Date: _____