



Lea County, NM (NAD 27 NME)

Pistolero 15 Fed #701H

H&P 642

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: #701H

Ground Level: 3334.0
KB = 25' @ 3399.0usft (H&P 642)
Northing: 414685.00 Easting: 768914.00 32° 8' 13.575 N 103° 27' 52.464 W



Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.44°
Magnetic Field
Strength: 47897.6nT
Dip Angle: 60.00°
Date: 6/20/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.43°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.46°

SECTION DETAILS

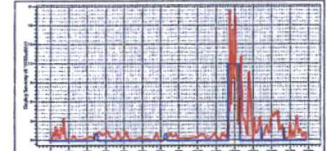
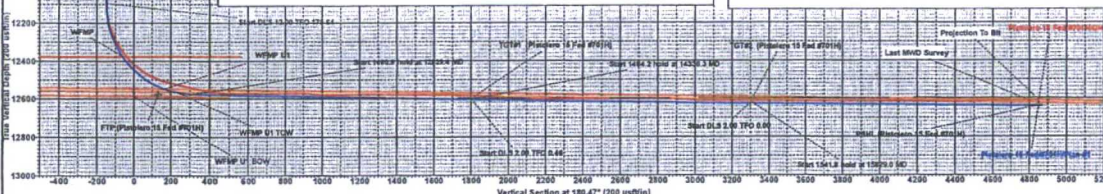
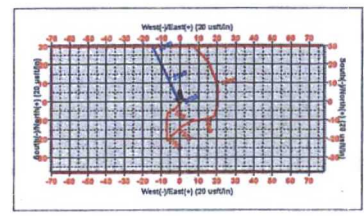
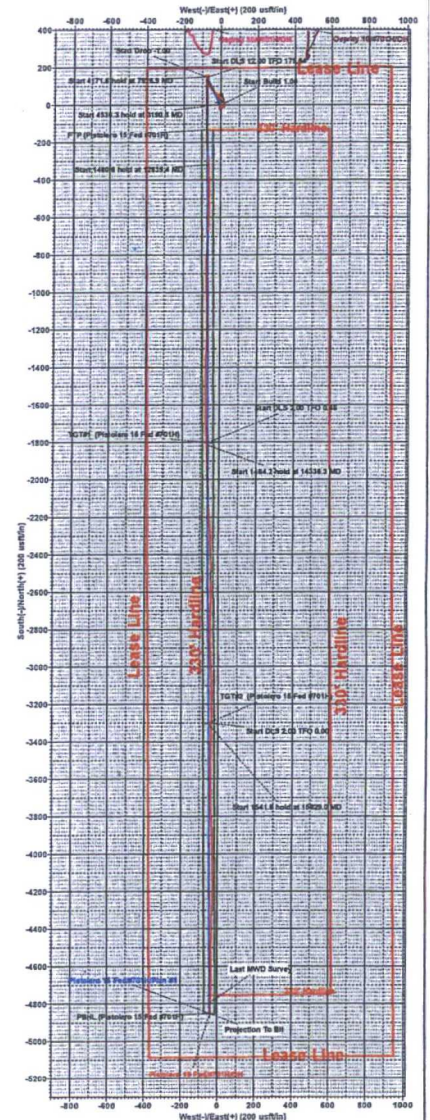
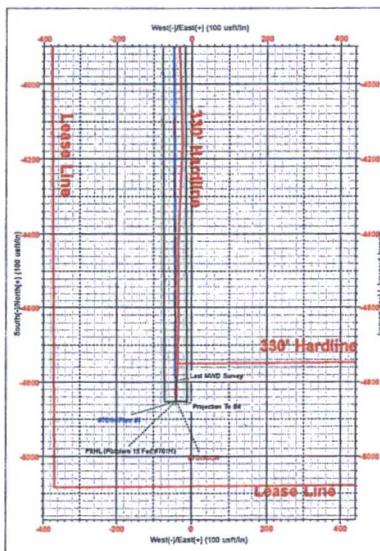
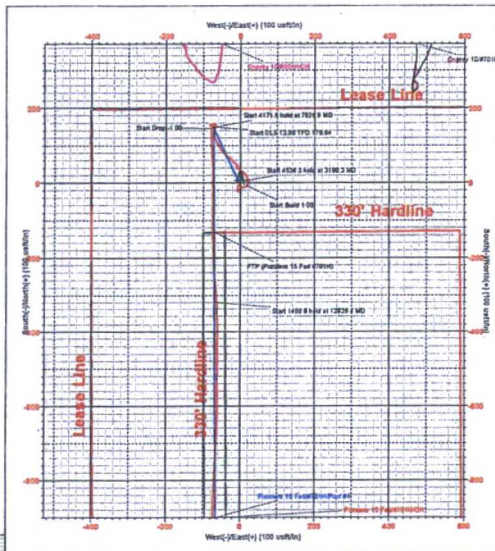
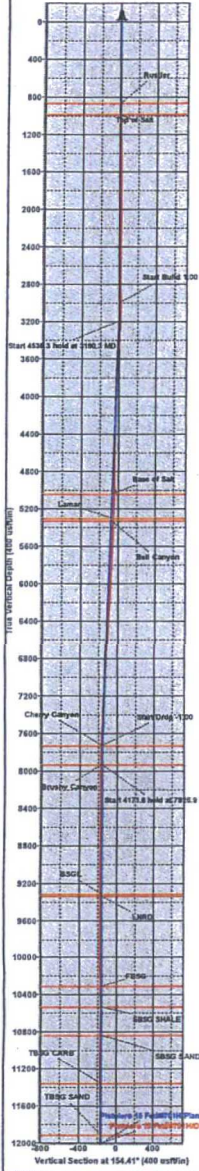
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	2990.0	0.00	0.00	2990.0	0.0	0.0	0.00	0.00	0.0		
3	3190.3	2.00	334.41	3190.3	3.2	-1.5	1.00	334.41	-3.1		
4	7726.6	2.00	334.41	7726.6	148.2	-70.0	0.00	0.00	-148.6		
5	7926.9	0.00	0.00	7926.9	148.3	-71.5	1.00	180.00	-148.7		
6	12096.5	0.00	0.00	12096.5	148.3	-71.5	0.00	0.00	-148.7		
7	12339.4	88.92	179.64	12339.4	-318.1	-69.5	12.00	179.64	318.7		
8	14320.2	88.92	179.64	14320.2	-1799.6	-69.2	0.00	0.00	1800.0	TGT#1 (Pistolero 15 Fed #701H)	
9	14336.3	88.24	179.64	14336.3	-1915.7	-59.1	2.00	0.46	1916.1	TGT#2 (Pistolero 15 Fed #701H)	
10	15929.5	88.24	179.64	15929.5	-3298.7	-49.7	0.00	0.00	3300.0		
11	15929.5	88.41	179.64	15929.5	-3308.3	-49.7	2.00	0.00	3308.6		
12	17370.9	88.41	179.64	17370.9	-4850.0	-40.0	0.00	0.00	4850.2	PBHL (Pistolero 15 Fed #701H)	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT#1 (Pistolero 15 Fed #701H)	12601.0	-1799.6	-69.2	412895.40	768954.83
TGT#2 (Pistolero 15 Fed #701H)	12621.0	-2299.7	-49.7	411385.30	768964.26
PBHL (Pistolero 15 Fed #701H)	12637.0	-4850.0	-40.0	409835.00	768974.00
FTP (Pistolero 15 Fed #701H)	12673.0	-131.0	-69.0	414554.00	768945.00



Lea County, NM (NAD 27 NME)
Pistolero 15 Fed #701H
H&P 642
Plan #1
Date: 6/20/2017



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Pistolero 15 Fed

#701H

OH

Design: OH

PVA

02 June, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Pistolero 15 Fed
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3359.0usft (H&P 642)
MD Reference: KB = 25' @ 3359.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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 Pistolero 15 Fed

Site Position:	From:	Map	Position Uncertainty:	0.0 usft	Northing:	414,685.00 usft	Easting:	768,914.00 usft	Slot Radius:	13-3/16 "	Latitude:	32° 8' 13.575 N	Longitude:	103° 27' 52.464 W	Grid Convergence:	0.46 °
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Well #701H

Well Position	+N/-S	0.0 usft	Wellhead Elevation:	0.0 usft	Northing:	414,685.00 usft	Easting:	768,914.00 usft	Latitude:	32° 8' 13.575 N	Longitude:	103° 27' 52.464 W	Ground Level:	3,334.0 usft
	+E/-W	0.0 usft												

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/20/2017	6.90	60.00	47,897.56860319

Design OH

Audit Notes:

Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	180.47

Survey Program Date 6/2/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
-132.0	17,351.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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	
132.0	0.50	177.90	132.0	-0.6	0.0	0.38	0.38	0.00	-0.6	0.0	
189.0	1.00	221.90	189.0	-1.2	-0.3	1.28	0.88	77.19	-1.1	0.6	
218.0	0.70	236.90	218.0	-1.5	-0.6	1.28	-1.03	51.72	-1.3	0.9	
248.0	1.00	224.90	248.0	-1.8	-1.0	1.16	1.00	-40.00	-1.9	0.6	
276.0	0.80	228.90	276.0	-2.1	-1.3	0.75	-0.71	14.29	-2.3	0.7	
334.0	0.40	182.90	334.0	-2.5	-1.6	1.03	-0.69	-79.31	-2.6	-1.5	
366.0	0.90	229.90	366.0	-2.8	-1.8	2.16	1.56	146.87	-3.2	1.0	
397.0	0.90	228.90	397.0	-3.1	-2.2	0.05	0.00	-3.23	-3.7	0.9	
428.0	0.40	225.90	428.0	-3.4	-2.4	1.62	-1.61	-9.68	-4.1	0.7	
461.0	0.60	245.90	461.0	-3.5	-2.7	0.80	0.61	60.61	-3.9	2.1	
492.0	0.70	208.90	492.0	-3.7	-2.9	1.37	0.32	-119.35	-4.7	-0.7	
524.0	0.50	219.90	524.0	-4.0	-3.1	0.72	-0.62	34.37	-5.1	0.2	
556.0	0.80	259.90	556.0	-4.2	-3.4	1.65	0.94	125.00	-4.1	3.5	
587.0	0.90	260.90	587.0	-4.2	-3.8	0.33	0.32	3.23	-4.5	3.6	
618.0	0.80	259.90	618.0	-4.3	-4.3	0.33	-0.32	-3.23	-5.0	3.5	
645.0	0.60	242.90	645.0	-4.4	-4.6	1.06	-0.74	-62.96	-6.1	1.8	
681.0	0.70	238.90	681.0	-4.6	-5.0	0.30	0.28	-11.11	-6.6	1.4	
713.0	1.20	236.90	713.0	-4.9	-5.4	1.57	1.56	-6.25	-7.2	1.1	
744.0	0.60	220.90	743.9	-5.2	-5.8	2.08	-1.94	-51.61	-7.7	-1.0	
775.0	1.20	219.90	774.9	-5.6	-6.1	1.94	1.94	-3.23	-8.2	-1.1	
807.0	1.00	190.90	806.9	-6.1	-6.4	1.82	-0.62	-90.62	-7.2	-5.1	
839.0	1.30	201.90	838.9	-6.7	-6.6	1.16	0.94	34.37	-8.7	-3.6	
870.0	1.00	207.90	869.9	-7.3	-6.8	1.04	-0.97	19.35	-9.6	-2.6	
902.0	1.30	200.90	901.9	-7.9	-7.1	1.03	0.94	-21.87	-9.9	-3.8	
915.0	1.00	183.90	914.9	-8.1	-7.1	3.47	-2.31	-130.77	-8.6	-6.6	
1,041.0	1.50	176.50	1,040.9	-10.9	-7.1	0.42	0.40	-5.87	-10.4	-7.8	



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1,226.0	1.40	179.20	1,225.8	-15.5	-6.9	0.07	-0.05	1.46	-15.4	-7.2	
1,412.0	1.10	183.40	1,411.8	-19.6	-7.0	0.17	-0.16	2.26	-20.0	-5.8	
1,598.0	0.40	45.80	1,597.8	-20.9	-6.7	0.76	-0.38	-73.98	19.4	-10.4	
1,786.0	0.30	33.30	1,785.8	-20.1	-5.9	0.07	-0.05	-6.65	20.0	-6.1	
1,973.0	0.60	43.10	1,972.8	-18.9	-5.0	0.17	0.16	5.24	17.2	-9.3	
2,160.0	0.50	51.30	2,159.8	-17.7	-3.7	0.07	-0.05	4.39	13.9	-11.5	
2,348.0	0.90	45.60	2,347.7	-16.2	-2.0	0.22	0.21	-3.03	12.7	-10.2	
2,536.0	1.60	42.30	2,535.7	-13.2	0.8	0.37	0.37	-1.76	9.2	-9.5	
2,724.0	2.20	75.50	2,723.6	-10.3	6.1	0.65	0.32	17.66	-3.3	-11.5	
2,912.0	2.50	83.90	2,911.4	-9.0	13.7	0.24	0.16	4.47	-12.6	-10.4	
3,099.0	0.70	44.50	3,098.4	-7.8	18.5	1.07	-0.96	-21.07	-7.1	-19.6	
3,286.0	3.10	13.60	3,285.2	-2.0	20.5	1.35	1.28	-16.52	2.4	-24.7	
3,474.0	3.70	349.70	3,472.9	8.9	20.6	0.81	0.32	-12.71	7.9	-25.4	
3,661.0	4.80	329.00	3,659.4	21.5	15.5	1.00	0.59	-11.07	9.3	-22.5	
3,848.0	3.10	296.70	3,846.0	30.5	7.0	1.46	-0.91	-17.27	13.4	-14.2	
4,035.0	2.10	316.50	4,032.8	35.3	0.1	0.71	-0.53	10.59	5.8	-14.2	
4,223.0	2.20	300.90	4,220.7	39.6	-5.4	0.31	0.05	-8.30	8.0	-9.4	
4,410.0	1.70	300.80	4,407.6	42.9	-10.8	0.27	-0.27	-0.05	7.1	-5.8	
4,597.0	0.90	96.20	4,594.5	44.1	-11.8	1.36	-0.43	83.10	-11.3	-2.1	
4,785.0	0.90	114.90	4,782.5	43.4	-8.9	0.16	0.00	9.95	-19.3	-2.1	
4,972.0	0.90	47.60	4,969.5	43.7	-6.5	0.53	0.00	-35.99	-5.7	-26.2	
5,158.0	2.50	321.40	5,155.4	47.9	-8.0	1.40	0.86	-46.34	27.9	-7.4	
5,345.0	2.80	313.00	5,342.2	54.2	-13.9	0.26	0.16	-4.49	26.2	-1.4	
5,533.0	2.50	314.10	5,530.0	60.2	-20.2	0.16	-0.16	0.59	23.6	0.4	
5,720.0	2.40	316.40	5,716.9	65.9	-25.8	0.07	-0.05	1.23	21.9	1.7	
5,907.0	2.70	303.50	5,903.7	71.1	-32.2	0.35	0.16	-6.90	18.3	9.0	
6,093.0	3.20	317.20	6,089.4	77.3	-39.3	0.46	0.27	7.37	16.7	7.3	



EOG Resources, Inc.

PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
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MD Reference: KB = 25' @ 3359.0usft (H&P 642)
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6,279.0	3.40	320.60	6,275.1	85.4	-46.4	0.15	0.11	1.83	12.7	8.2	
6,466.0	3.20	325.80	6,461.8	94.0	-52.8	0.19	-0.11	2.78	9.1	8.5	
6,654.0	2.90	330.70	6,649.5	102.5	-58.1	0.21	-0.16	2.61	6.4	8.6	
6,843.0	2.90	331.00	6,838.3	110.9	-62.8	0.01	0.00	0.16	3.5	9.0	
7,030.0	3.30	329.40	7,025.0	119.6	-67.8	0.22	0.21	-0.86	-0.4	9.5	
7,218.0	2.60	9.90	7,212.8	128.5	-69.8	1.14	-0.37	21.54	2.8	7.2	
7,406.0	2.40	8.90	7,400.6	136.6	-68.5	0.11	-0.11	-0.53	-0.1	3.4	
7,595.0	2.50	6.30	7,589.4	144.6	-67.4	0.08	0.05	-1.38	-2.7	-0.3	
7,783.0	2.20	6.00	7,777.3	152.3	-66.6	0.16	-0.16	-0.16	-5.0	-3.6	
7,970.0	1.60	359.10	7,964.2	158.4	-66.3	0.34	-0.32	-3.69	-9.0	-5.4	
8,157.0	0.80	241.40	8,151.2	160.4	-67.4	1.12	-0.43	-62.94	8.9	-7.8	
8,344.0	1.70	226.30	8,338.1	157.9	-70.6	0.51	0.48	-8.07	6.6	-5.6	
8,532.0	0.50	335.70	8,526.1	156.7	-72.9	1.02	-0.64	58.19	-7.3	-1.7	
8,724.0	0.30	297.30	8,718.1	157.7	-73.7	0.17	-0.10	-20.00	-5.8	-6.4	
8,913.0	0.80	277.00	8,907.1	158.1	-75.5	0.28	0.26	-10.74	-5.0	-8.2	
9,100.0	0.50	217.20	9,094.1	157.6	-77.3	0.37	-0.16	-31.98	3.1	-9.6	
9,288.0	0.90	240.30	9,282.0	156.2	-79.1	0.26	0.21	12.29	-3.1	-9.7	
9,476.0	0.70	276.70	9,470.0	155.6	-81.5	0.28	-0.11	19.36	-10.6	-5.1	
9,664.0	0.40	345.00	9,658.0	156.4	-82.8	0.35	-0.16	36.33	-9.7	9.1	
9,851.0	0.90	35.30	9,845.0	158.2	-82.1	0.38	0.27	26.90	-1.1	13.8	
10,036.0	1.30	96.30	10,030.0	159.2	-79.2	0.63	0.22	32.97	8.7	8.9	
10,222.0	2.20	154.60	10,215.9	155.7	-75.6	1.01	0.48	31.34	7.5	-0.9	
10,410.0	0.50	176.80	10,403.8	151.6	-74.0	0.93	-0.90	11.81	2.4	-2.3	
10,597.0	0.10	189.80	10,590.8	150.6	-73.9	0.22	-0.21	6.95	0.9	-2.6	
10,784.0	0.30	49.30	10,777.8	150.8	-73.6	0.20	0.11	-75.13	0.6	2.5	
10,972.0	1.20	333.00	10,965.8	152.9	-74.1	0.62	0.48	-40.59	-4.4	0.7	
11,159.0	1.10	155.50	11,152.8	153.0	-74.3	1.23	-0.05	-94.92	4.5	-1.0	



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11,347.0	0.80	120.00	11,340.8	150.7	-72.4	0.34	-0.16	-18.88	1.5	0.8	
11,442.0	0.70	116.20	11,435.8	150.1	-71.3	0.12	-0.11	-4.00	0.2	0.8	
11,565.0	0.40	110.50	11,558.8	149.6	-70.2	0.25	-0.24	-4.63	-1.1	0.7	
11,659.0	0.70	272.80	11,652.8	149.5	-70.5	1.16	0.32	172.66	1.0	-0.3	
11,753.0	1.30	271.20	11,746.8	149.6	-72.1	0.64	0.64	-1.70	-0.6	-0.3	
11,846.0	0.50	257.50	11,839.7	149.5	-73.6	0.88	-0.86	-14.73	-2.0	-0.7	
11,940.0	0.70	275.80	11,933.7	149.5	-74.5	0.29	0.21	19.47	-3.0	0.1	
12,034.0	1.80	334.10	12,027.7	150.9	-75.8	1.65	1.17	62.02	-3.3	3.1	
12,126.0	2.80	200.10	12,119.7	150.1	-77.2	4.62	1.09	-145.65	-0.7	-5.8	
12,173.0	12.20	182.70	12,166.2	144.0	-77.8	20.35	20.00	-37.02	-0.3	-6.3	
12,220.0	19.80	177.60	12,211.4	131.1	-77.7	16.43	16.17	-10.85	-3.6	-6.4	
12,267.0	22.40	176.20	12,255.2	114.2	-76.8	5.63	5.53	-2.98	-6.8	-5.9	
12,313.0	28.00	177.80	12,296.8	94.6	-75.8	12.26	12.17	3.48	-9.1	-4.9	
12,360.0	36.20	177.40	12,336.6	69.7	-74.7	17.45	17.45	-0.85	-12.1	-4.1	
12,407.0	40.60	179.00	12,373.4	40.5	-73.8	9.60	9.36	3.40	-15.8	-3.1	
12,454.0	46.70	181.00	12,407.4	8.1	-73.8	13.31	12.98	4.26	-18.9	-2.9	
12,501.0	52.10	180.40	12,438.0	-27.6	-74.3	11.53	11.49	-1.28	-21.8	-3.7	
12,548.0	61.20	180.40	12,463.8	-66.8	-74.5	19.36	19.36	0.00	-25.9	-4.2	
12,594.0	66.50	179.80	12,484.1	-108.1	-74.6	11.58	11.52	-1.30	-31.0	-4.7	
12,641.0	70.60	178.20	12,501.3	-151.8	-73.8	9.28	8.72	-3.40	-35.1	-4.6	
12,689.0	76.10	176.80	12,515.0	-197.7	-71.8	11.79	11.46	-2.92	-38.2	-3.1	
12,736.0	77.20	175.90	12,525.9	-243.3	-68.9	2.99	2.34	-1.91	-38.9	-0.4	
12,783.0	76.70	174.80	12,536.5	-289.0	-65.2	2.52	-1.06	-2.34	-34.9	3.3	
12,830.0	78.10	177.60	12,546.7	-334.7	-62.2	6.53	2.98	5.96	-26.5	6.3	
12,876.0	77.80	178.00	12,556.3	-379.7	-60.4	1.07	-0.65	0.87	-17.7	7.8	
12,923.0	82.90	181.40	12,564.2	-426.0	-60.2	12.98	10.85	7.23	-10.7	7.7	
12,970.0	84.90	180.70	12,569.2	-472.7	-61.1	4.51	4.26	-1.49	-6.7	6.5	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Pistolero 15 Fed
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3359.0usft (H&P 642)
 MD Reference: KB = 25' @ 3359.0usft (H&P 642)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 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)	
13,017.0	88.50	180.10	12,571.9	-519.6	-61.4	7.76	7.66	-1.28	-4.9	5.9	
13,064.0	90.00	179.70	12,572.5	-566.6	-61.3	3.30	3.19	-0.85	-5.1	5.7	
13,167.0	91.70	182.60	12,571.0	-669.6	-63.4	3.26	1.65	2.82	-8.6	2.9	
13,260.0	89.90	182.80	12,569.7	-762.5	-67.8	1.95	-1.94	0.22	-11.7	-2.0	
13,353.0	90.50	183.30	12,569.4	-855.3	-72.7	0.84	0.65	0.54	-13.8	-7.5	
13,447.0	83.90	175.80	12,574.0	-949.1	-72.0	10.62	-7.02	-7.98	-10.9	-7.5	
13,541.0	89.10	180.20	12,579.7	-1,042.8	-68.7	7.24	5.53	4.68	-7.0	-4.8	
13,634.0	92.00	180.20	12,578.8	-1,135.8	-69.0	3.12	3.12	0.00	-9.6	-5.7	
13,728.0	92.00	180.10	12,575.5	-1,229.7	-69.3	0.11	0.00	-0.11	-14.7	-6.5	
13,822.0	89.00	181.50	12,574.7	-1,323.7	-70.6	3.52	-3.19	1.49	-17.3	-8.4	
13,916.0	89.10	180.50	12,576.3	-1,417.7	-72.2	1.07	0.11	-1.06	-17.5	-10.7	
14,009.0	90.20	179.80	12,576.9	-1,510.7	-72.5	1.40	1.18	-0.75	-18.7	-11.5	
14,103.0	91.50	179.10	12,575.5	-1,604.7	-71.6	1.57	1.38	-0.74	-21.8	-11.2	
14,196.0	88.20	178.40	12,575.7	-1,697.6	-69.6	3.63	-3.55	-0.75	-23.4	-9.8	
14,288.0	86.20	178.00	12,580.2	-1,789.5	-66.7	2.22	-2.17	-0.43	-20.6	-7.5	
14,382.0	86.60	178.70	12,586.1	-1,883.2	-64.0	0.86	0.43	0.74	-16.1	-5.3	
14,476.0	86.60	177.90	12,591.7	-1,977.0	-61.2	0.85	0.00	-0.85	-11.7	-3.1	
14,571.0	88.10	178.30	12,596.1	-2,071.9	-58.0	1.63	1.58	0.42	-8.6	-0.6	
14,665.0	88.40	176.10	12,598.9	-2,165.7	-53.5	2.36	0.32	-2.34	-7.0	3.4	
14,760.0	89.80	176.20	12,600.4	-2,260.5	-47.1	1.48	1.47	0.11	-6.8	9.2	
14,854.0	90.80	176.40	12,599.9	-2,354.3	-41.0	1.08	1.06	0.21	-8.5	14.7	
14,947.0	90.00	178.90	12,599.3	-2,447.2	-37.2	2.82	-0.86	2.69	-10.4	17.9	
15,041.0	91.50	182.40	12,598.1	-2,541.2	-38.3	4.05	1.60	3.72	-12.9	16.2	
15,134.0	89.20	179.80	12,597.5	-2,634.1	-40.0	3.73	-2.47	-2.80	-14.7	13.9	
15,228.0	91.50	183.20	12,596.9	-2,728.1	-42.5	4.37	2.45	3.62	-16.5	10.8	
15,322.0	88.80	180.60	12,596.7	-2,822.0	-45.6	3.99	-2.87	-2.77	-18.0	7.1	
15,416.0	86.30	177.10	12,600.7	-2,915.9	-43.7	4.57	-2.66	-3.72	-15.2	8.4	



EOG Resources, Inc.

PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3359.0usft (H&P 642)
MD Reference: KB = 25' @ 3359.0usft (H&P 642)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)	
15,510.0	87.70	177.60	12,605.6	-3,009.7	-39.4	1.58	1.49	0.53	-11.5	12.2	
15,604.0	89.00	178.70	12,608.3	-3,103.6	-36.4	1.81	1.38	1.17	-10.1	14.6	
15,697.0	89.90	180.70	12,609.2	-3,196.6	-35.9	2.36	0.97	2.15	-10.4	14.5	
15,791.0	89.60	180.60	12,609.6	-3,290.6	-36.9	0.34	-0.32	-0.11	-11.3	12.9	
15,885.0	89.80	180.80	12,610.1	-3,384.5	-38.1	0.30	0.21	0.21	-11.8	11.1	
15,978.0	89.90	180.60	12,610.4	-3,477.5	-39.2	0.24	0.11	-0.22	-12.5	9.4	
16,071.0	89.80	180.40	12,610.6	-3,570.5	-40.0	0.24	-0.11	-0.22	-13.2	8.0	
16,164.0	90.00	179.80	12,610.8	-3,663.5	-40.2	0.68	0.22	-0.65	-14.0	7.3	
16,258.0	89.80	177.20	12,610.9	-3,757.5	-37.7	2.77	-0.21	-2.77	-14.8	9.1	
16,352.0	89.90	177.00	12,611.2	-3,851.4	-33.0	0.24	0.11	-0.21	-15.5	13.3	
16,445.0	90.60	178.30	12,610.8	-3,944.3	-29.2	1.59	0.75	1.40	-16.9	16.5	
16,538.0	90.90	178.00	12,609.5	-4,037.2	-26.2	0.46	0.32	-0.32	-19.1	18.9	
16,632.0	89.10	179.30	12,609.5	-4,131.2	-24.0	2.36	-1.91	1.38	-20.0	20.6	
16,725.0	89.80	182.70	12,610.4	-4,224.2	-25.6	3.73	0.75	3.66	-20.1	18.3	
16,820.0	88.90	182.40	12,611.5	-4,319.1	-29.8	1.00	-0.95	-0.32	-20.0	13.5	
16,914.0	89.90	181.10	12,612.5	-4,413.0	-32.7	1.74	1.06	-1.38	-20.0	10.1	
17,007.0	90.20	180.10	12,612.4	-4,506.0	-33.7	1.12	0.32	-1.08	-21.0	8.5	
17,101.0	90.30	179.70	12,612.0	-4,600.0	-33.5	0.44	0.11	-0.43	-22.4	8.1	
17,194.0	90.20	180.80	12,611.6	-4,693.0	-33.9	1.19	-0.11	1.18	-23.8	7.1	
17,295.0	89.70	181.80	12,611.7	-4,794.0	-36.2	1.11	-0.50	0.99	-24.7	4.2	
Last MWD Survey											
17,351.0	89.70	181.80	12,612.0	-4,849.9	-37.9	0.00	0.00	0.00	-25.0	2.1	
Projection To Bit											



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Survey Calculation Method: Minimum Curvature
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Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,295.0	12,611.7	-4,794.0	-36.2	Last MWD Survey
17,351.0	12,612.0	-4,849.9	-37.9	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____