

HOBBS OCD
OCT 10 2017
RECEIVED



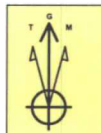
Lea County, NM (NAD 27 NME)

Endurance 36 State Com #707H

H&P 610

Plan #2

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



Azimuths to Grid North
True North: 0.43°
Magnetic North: 6.51°
Magnetic Field
Strength: 47835.5nT
Dip Angle: 69.87°
Date: 3/21/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.51°
To convert a Magnetic Direction to a True Direction, Add 6.94° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #707H

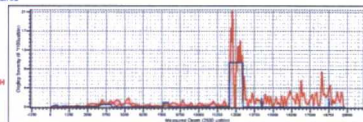
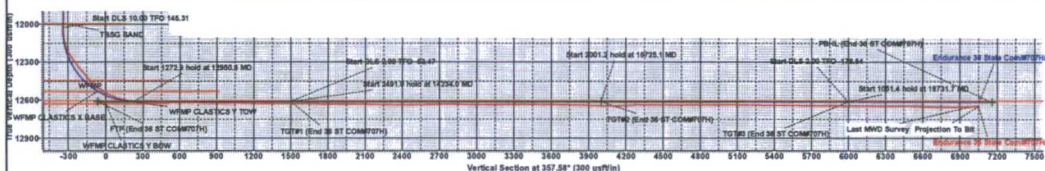
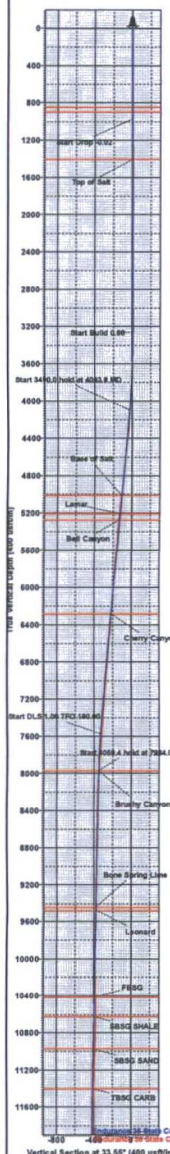
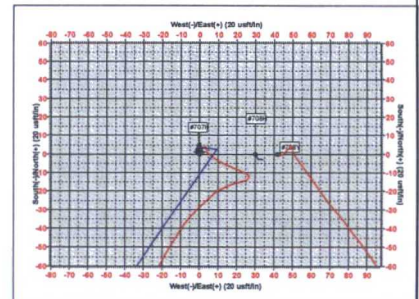
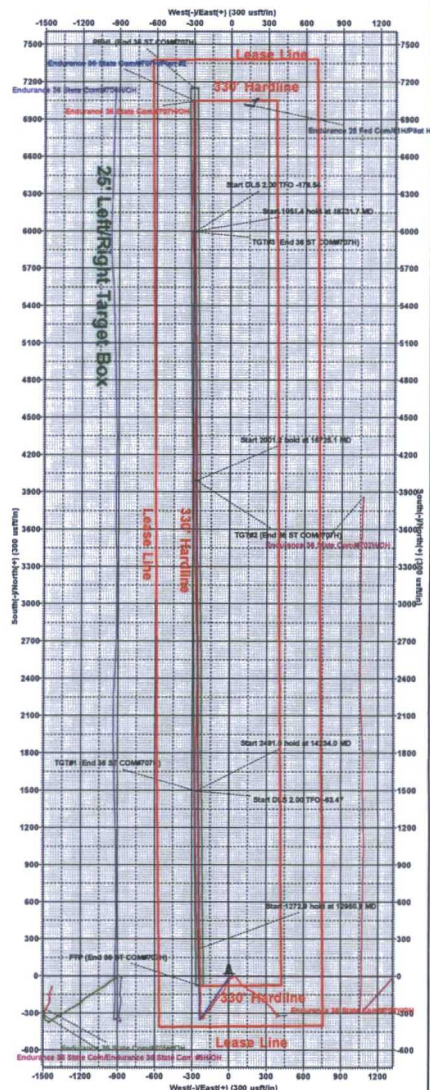
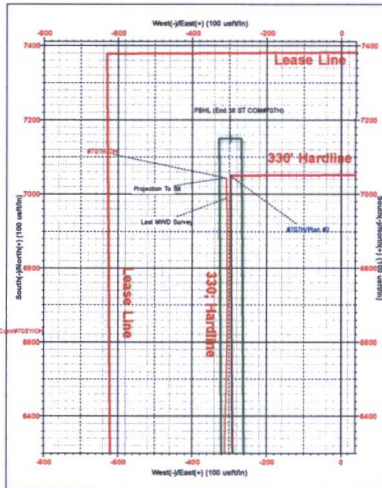
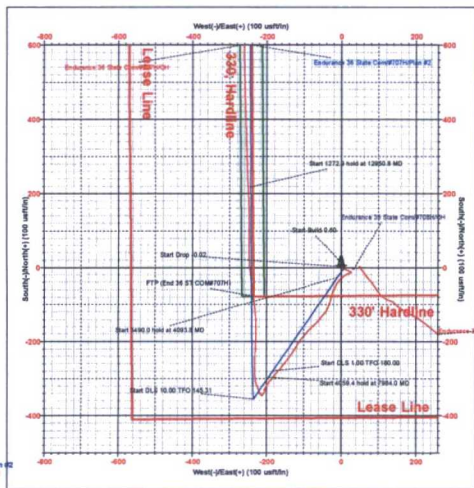
Ground Level: 3345.0
KB = 25 @ 3370 Duct (H&P 610)
Northing: 365121.00
Easting: 750968.00
Longitude: 103° 31' 25.486 W
Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect	Target
1	966.0	0.50	93.90	966.0	3.6	-0.6	0.00	0.00	3.6	
2	3260.0	0.00	0.00	3260.0	2.9	9.4	0.02	180.00	2.5	
3	4093.8	5.00	214.38	4092.7	-27.1	-11.1	0.60	214.38	-26.6	
4	7583.8	5.00	214.38	7569.4	-278.3	-183.0	0.00	0.00	-270.3	
5	7984.0	1.00	214.38	7969.0	-295.6	-194.8	1.00	180.00	-287.1	
6	12043.4	1.00	214.38	12027.8	-354.0	-234.8	0.00	0.00	-343.8	
7	12950.8	89.91	359.69	12609.0	217.9	-243.6	10.00	145.31	228.0	
8	14223.7	89.91	359.69	12611.0	1490.8	-250.4	0.00	0.00	1500.1	TGT#1 (End 36 ST COM#707H)
9	14234.0	90.00	359.51	12611.0	1501.1	-250.5	2.00	-63.47	1510.4	TGT#2 (End 36 ST COM#707H)
10	16725.1	90.00	359.51	12611.0	3992.1	-271.9	0.00	0.00	4000.0	TGT#3 (End 36 ST COM#707H)
11	18726.2	90.00	359.51	12611.0	5993.2	-289.1	0.00	0.00	6000.1	
12	18731.7	89.89	359.51	12611.0	5998.6	-289.1	2.00	-178.54	6005.5	
13	19783.1	89.89	359.51	12613.0	7050.0	-298.2	0.00	0.00	7056.3	PBHL (End 36 ST COM#707H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP (End 36 ST COM#707H)	12608.0	-76.0	-237.0	365045.00	750731.00	Point
TGT#1 (End 36 ST COM#707H)	12611.0	1490.8	-250.4	366611.80	750717.58	Point
TGT#2 (End 36 ST COM#707H)	12611.0	3992.1	-271.9	369113.10	750696.10	Point
TGT#3 (End 36 ST COM#707H)	12611.0	5993.2	-289.1	371114.20	750678.30	Point
PBHL (End 36 ST COM#707H)	12613.0	7150.0	-299.0	372271.00	750669.00	Rectangle (Sides: L0.0 W0.0)



Lea County, NM (NAD 27 NME)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level
Date: 03/21/2017
Model: IGRF2015



HOBBS OCD
OCT 1 0 2017
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Endurance 36 State Com

#707H

OH

Design: OH

PVA

07 April, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: #707H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
MD Reference: KB = 25 @ 3370.0usft (H&P 610)
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 Endurance 36 State Com

Site Position:		Northing:	365,036.00 usft	Latitude:	32° 0' 3.760 N
From:	Map	Easting:	749,506.00 usft	Longitude:	103° 31' 42.470 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well #707H

Well Position	+N/-S	0.0 usft	Northing:	365,121.00 usft	Latitude:	32° 0' 4.493 N
	+E/-W	0.0 usft	Easting:	750,968.00 usft	Longitude:	103° 31' 25.486 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,345.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/21/2017	6.94	59.87	47,836

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	357.61



EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3370.0usft (H&P 610)
Site:	Endurance 36 State Com	MD Reference:	KB = 25 @ 3370.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey Program		Date	4/7/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
198.0	966.0	Trueshot MWD #1 (OH)	MWD	MWD - Standard	
1,060.0	19,757.0	Intrepid MWD (OH)	MWD	MWD - Standard	

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	0.0
198.0	0.60	308.80	198.0	0.6	-0.8	0.30	0.30	0.00	0.0	0.0	0.0
285.0	0.70	325.40	285.0	1.4	-1.5	0.24	0.11	19.08	0.0	0.0	0.0
374.0	0.30	297.90	374.0	1.9	-2.0	0.51	-0.45	-30.90	0.0	0.0	0.0
468.0	0.20	359.50	468.0	2.2	-2.2	0.29	-0.11	65.53	0.0	0.0	0.0
562.0	0.20	12.70	562.0	2.5	-2.2	0.05	0.00	14.04	0.0	0.0	0.0
655.0	0.30	24.50	655.0	2.9	-2.0	0.12	0.11	12.69	0.0	0.0	0.0
750.0	0.30	31.10	750.0	3.4	-1.8	0.04	0.00	6.95	0.0	0.0	0.0
846.0	0.30	83.20	846.0	3.6	-1.4	0.27	0.00	54.27	0.0	0.0	0.0
966.0	0.50	93.90	966.0	3.6	-0.6	0.18	0.17	8.92	0.0	0.0	0.0
1,060.0	0.50	94.90	1,060.0	3.5	0.2	0.01	0.00	1.06	0.0	0.0	0.0
1,246.0	0.10	67.90	1,246.0	3.5	1.2	0.22	-0.22	-14.52	0.4	0.3	0.3
1,432.0	0.40	70.60	1,432.0	3.8	2.0	0.16	0.16	1.45	0.9	0.8	0.8
1,620.0	0.30	26.40	1,620.0	4.5	2.8	0.15	-0.05	-23.51	-0.4	1.9	1.9
1,806.0	0.50	153.50	1,806.0	4.2	3.4	0.39	0.11	68.33	1.8	-1.4	-1.4
1,995.0	0.40	190.60	1,995.0	2.8	3.6	0.16	-0.05	19.63	-0.8	-2.6	-2.6
2,182.0	0.40	153.20	2,182.0	1.6	3.8	0.14	0.00	-20.00	0.2	-3.7	-3.7
2,368.0	0.70	129.30	2,367.9	0.3	5.0	0.20	0.16	-12.85	0.5	-4.0	-4.0
2,555.0	1.10	129.60	2,554.9	-1.6	7.2	0.21	0.21	0.16	-2.0	-4.3	-4.3
2,742.0	1.30	117.50	2,741.9	-3.7	10.5	0.17	0.11	-6.47	-4.5	-5.2	-5.2
2,928.0	1.70	114.70	2,927.8	-5.9	14.9	0.22	0.22	-1.51	-8.8	-5.6	-5.6



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Endurance 36 State Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
 MD Reference: KB = 25 @ 3370.0usft (H&P 610)
 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)	
3,115.0	2.60	112.40	3,114.7	-8.6	21.3	0.48	0.48	-1.23	-15.5	-6.1	
3,301.0	1.30	125.80	3,300.6	-11.5	26.9	0.74	-0.70	7.20	-22.6	-1.3	
3,488.0	1.90	255.10	3,487.5	-13.5	25.7	1.55	0.32	69.14	13.5	18.3	
3,675.0	3.40	253.30	3,674.3	-15.9	17.3	0.80	0.80	-0.96	9.2	14.7	
3,863.0	2.20	229.60	3,862.1	-19.8	9.3	0.87	-0.64	-12.61	3.5	12.3	
4,051.0	4.90	226.40	4,049.7	-27.7	0.7	1.44	1.44	-1.70	4.5	9.4	
4,239.0	3.90	214.70	4,237.2	-38.5	-8.8	0.71	-0.53	-6.22	4.6	8.4	
4,425.0	6.80	210.70	4,422.4	-53.2	-18.0	1.57	1.56	-2.15	2.9	9.3	
4,613.0	5.10	189.80	4,609.4	-71.0	-25.1	1.45	-0.90	-11.12	-4.5	12.5	
4,800.0	5.70	195.50	4,795.5	-88.1	-29.0	0.43	0.32	3.05	-5.3	19.0	
4,988.0	7.30	201.50	4,982.3	-108.2	-35.9	0.92	0.85	3.19	-8.6	24.1	
5,177.0	5.80	229.30	5,170.1	-125.6	-47.5	1.83	-0.79	14.71	-0.7	26.7	
5,271.0	4.50	213.70	5,263.7	-131.8	-53.2	2.02	-1.38	-16.60	-7.9	24.4	
5,365.0	4.80	221.10	5,357.4	-137.8	-57.8	0.71	0.32	7.87	-4.2	24.7	
5,553.0	4.70	224.50	5,544.8	-149.3	-68.4	0.16	-0.05	1.81	-2.1	22.5	
5,739.0	4.00	224.10	5,730.3	-159.4	-78.2	0.38	-0.38	-0.22	-0.4	19.7	
5,926.0	4.70	220.80	5,916.7	-169.8	-87.8	0.40	0.37	-1.76	0.5	17.4	
6,113.0	4.60	222.50	6,103.1	-181.2	-97.8	0.09	-0.05	0.91	2.0	15.3	
6,300.0	3.90	220.60	6,289.6	-191.5	-107.0	0.38	-0.37	-1.02	3.9	13.4	
6,487.0	4.60	211.40	6,476.1	-202.8	-115.1	0.52	0.37	-4.92	4.2	13.6	
6,674.0	5.20	211.70	6,662.4	-216.4	-123.4	0.32	0.32	0.16	4.6	14.4	
6,861.0	5.20	211.90	6,848.6	-230.8	-132.4	0.01	0.00	0.11	4.0	15.1	
7,049.0	4.40	213.90	7,036.0	-244.0	-140.9	0.43	-0.43	1.06	5.2	15.4	
7,236.0	4.40	221.50	7,222.4	-255.3	-149.6	0.31	0.00	4.06	9.1	13.5	
7,423.0	4.10	220.80	7,408.9	-265.8	-158.8	0.16	-0.16	-0.37	11.3	11.7	
7,611.0	4.70	218.90	7,596.3	-276.8	-168.0	0.33	0.32	-1.01	12.8	10.6	
7,797.0	4.00	219.20	7,781.8	-287.8	-176.9	0.38	-0.38	0.16	11.0	9.5	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: #707H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
MD Reference: KB = 25 @ 3370.0usft (H&P 610)
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)	
7,985.0	3.60	215.60	7,969.4	-297.7	-184.5	0.25	-0.21	-1.91	4.3	9.6	
8,174.0	2.10	233.60	8,158.1	-304.6	-190.7	0.91	-0.79	9.52	1.1	8.6	
8,361.0	0.90	179.00	8,345.1	-308.1	-193.4	0.93	-0.64	-29.20	-7.2	4.9	
8,548.0	1.50	211.40	8,532.0	-311.6	-194.7	0.47	0.32	17.33	-3.8	9.0	
8,735.0	1.10	249.40	8,719.0	-314.3	-197.6	0.50	-0.21	20.32	1.5	9.1	
8,922.0	0.40	223.20	8,906.0	-315.4	-199.8	0.41	-0.37	-14.01	-1.7	7.5	
9,109.0	1.00	161.40	9,093.0	-317.5	-199.7	0.47	0.32	-33.05	-7.4	4.0	
9,295.0	0.80	217.50	9,279.0	-320.0	-200.0	0.46	-0.11	30.16	0.3	9.6	
9,481.0	1.30	220.10	9,464.9	-322.7	-202.1	0.27	0.27	1.40	0.5	9.3	
9,669.0	1.10	202.60	9,652.9	-326.0	-204.2	0.22	-0.11	-9.31	-2.9	9.0	
9,855.0	1.50	226.80	9,838.8	-329.3	-206.6	0.36	0.22	13.01	0.1	9.5	
10,040.0	0.40	3.30	10,023.8	-330.3	-208.4	0.98	-0.59	73.78	4.7	-7.0	
10,226.0	1.40	55.50	10,209.8	-328.4	-206.5	0.64	0.54	28.06	-8.3	-6.3	
10,412.0	0.60	91.80	10,395.8	-327.1	-203.6	0.53	-0.43	19.52	-15.0	3.9	
10,599.0	0.40	289.20	10,582.8	-326.9	-203.3	0.53	-0.11	-86.95	14.3	-11.6	
10,785.0	0.90	86.50	10,768.8	-326.6	-202.4	0.69	0.27	84.57	-20.5	8.0	
10,972.0	2.00	204.00	10,955.7	-329.5	-202.3	1.36	0.59	62.83	17.2	16.4	
11,158.0	1.80	212.60	11,141.6	-334.9	-205.2	0.19	-0.11	4.62	16.6	14.2	
11,346.0	1.30	215.80	11,329.5	-339.2	-208.0	0.27	-0.27	1.70	15.6	13.3	
11,532.0	1.30	215.30	11,515.5	-342.6	-210.5	0.01	0.00	-0.27	14.5	13.4	
11,719.0	0.40	208.90	11,702.5	-344.9	-212.0	0.48	-0.48	-3.42	13.4	15.0	
11,868.0	0.20	126.70	11,851.5	-345.5	-212.0	0.28	-0.13	-55.17	-13.3	17.4	
12,011.0	0.00	274.80	11,994.5	-345.7	-211.8	0.14	-0.14	0.00	-7.9	-22.6	
12,056.0	0.70	261.70	12,039.5	-345.7	-212.1	1.56	1.56	0.00	23.8	-5.0	
12,105.0	5.30	314.10	12,088.4	-344.2	-214.0	10.01	9.39	106.94	10.1	-20.3	
12,150.0	12.90	331.60	12,132.8	-338.3	-217.9	17.78	16.89	38.89	1.8	-19.4	
12,199.0	19.90	336.90	12,179.8	-325.8	-223.8	14.59	14.29	10.82	-4.2	-15.3	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Endurance 36 State Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
 MD Reference: KB = 25 @ 3370.0usft (H&P 610)
 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)	
12,244.0	28.50	347.90	12,220.8	-308.2	-229.1	21.50	19.11	24.44	-12.6	-10.6	
12,292.0	36.10	358.50	12,261.4	-282.8	-231.8	19.70	15.83	22.08	-22.8	-6.3	
12,337.0	38.60	2.40	12,297.2	-255.5	-231.6	7.65	5.56	8.67	-31.6	-5.3	
12,385.0	38.60	2.50	12,334.7	-225.6	-230.3	0.13	0.00	0.21	-37.7	-6.9	
12,430.0	38.60	2.50	12,369.8	-197.6	-229.1	0.00	0.00	0.00	-39.6	-8.7	
12,479.0	40.90	0.40	12,407.5	-166.2	-228.3	5.43	4.69	-4.29	-37.9	-11.2	
12,524.0	44.00	355.20	12,440.7	-135.9	-229.5	10.40	6.89	-11.56	-34.1	-12.6	
12,572.0	47.50	352.70	12,474.2	-101.7	-233.2	8.19	7.29	-5.21	-29.3	-9.8	
12,617.0	53.60	352.00	12,502.8	-67.3	-237.8	13.61	13.56	-1.56	-25.1	-5.2	
12,666.0	58.60	352.00	12,530.1	-27.1	-243.5	10.20	10.20	0.00	-21.1	0.5	
12,711.0	63.40	356.50	12,551.9	12.1	-247.4	13.79	10.67	10.00	-17.2	4.9	
12,760.0	67.20	0.10	12,572.4	56.6	-248.7	10.23	7.76	7.35	-12.5	6.2	
12,805.0	73.80	1.20	12,587.4	98.9	-248.2	14.85	14.67	2.44	-8.6	5.4	
12,853.0	78.40	359.20	12,599.0	145.5	-248.0	10.40	9.58	-4.17	-5.2	4.8	
12,898.0	83.40	357.50	12,606.1	189.9	-249.3	11.72	11.11	-3.78	-2.2	5.8	
12,946.0	83.80	357.00	12,611.4	237.6	-251.6	1.33	0.83	-1.04	2.4	7.9	
13,039.0	89.90	359.00	12,616.5	330.3	-254.8	6.90	6.56	2.15	7.4	10.6	
13,133.0	88.80	357.90	12,617.6	424.3	-257.4	1.65	-1.17	-1.17	8.3	12.6	
13,225.0	90.30	358.70	12,618.3	516.2	-260.1	1.85	1.63	0.87	8.9	14.9	
13,319.0	90.50	358.70	12,617.7	610.2	-262.2	0.21	0.21	0.00	8.1	16.5	
13,413.0	88.80	359.10	12,618.2	704.2	-264.0	1.86	-1.81	0.43	8.5	17.8	
13,507.0	87.80	358.90	12,621.0	798.1	-265.7	1.08	-1.06	-0.21	11.1	19.0	
13,600.0	90.70	359.40	12,622.2	891.1	-267.1	3.16	3.12	0.54	12.2	19.8	
13,694.0	90.30	358.30	12,621.4	985.1	-268.9	1.25	-0.43	-1.17	11.2	21.2	
13,788.0	89.60	358.10	12,621.5	1,079.0	-271.9	0.77	-0.74	-0.21	11.2	23.7	
13,881.0	89.10	359.90	12,622.6	1,172.0	-273.5	2.01	-0.54	1.94	12.1	24.8	
13,975.0	90.40	359.70	12,623.0	1,266.0	-273.8	1.40	1.38	-0.21	12.3	24.6	



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Endurance 36 State Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
 MD Reference: KB = 25 @ 3370.0usft (H&P 610)
 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)	
14,069.0	88.80	359.70	12,623.6	1,360.0	-274.3	1.70	-1.70	0.00	12.8	24.6	
14,162.0	89.60	359.70	12,624.9	1,453.0	-274.8	0.86	0.86	0.00	14.0	24.6	
14,256.0	89.60	359.90	12,625.6	1,547.0	-275.2	0.21	0.00	0.21	14.6	24.2	
14,349.0	89.90	359.00	12,626.0	1,640.0	-276.0	1.02	0.32	-0.97	15.0	24.3	
14,444.0	87.90	0.90	12,627.8	1,735.0	-276.1	2.90	-2.11	2.00	16.8	23.6	
14,538.0	88.70	1.10	12,630.6	1,828.9	-274.5	0.88	0.85	0.21	19.6	21.2	
14,631.0	90.50	2.50	12,631.2	1,921.8	-271.6	2.45	1.94	1.51	20.3	17.4	
14,726.0	90.60	1.90	12,630.3	2,016.8	-267.9	0.64	0.11	-0.63	19.3	13.0	
14,820.0	88.80	0.50	12,630.8	2,110.7	-266.0	2.43	-1.91	-1.49	19.8	10.2	
14,914.0	89.00	0.70	12,632.6	2,204.7	-265.0	0.30	0.21	0.21	21.6	8.4	
15,008.0	88.60	0.80	12,634.6	2,298.7	-263.7	0.44	-0.43	0.11	23.6	6.4	
15,101.0	89.40	0.50	12,636.2	2,391.7	-262.7	0.92	0.86	-0.32	25.2	4.5	
15,193.0	91.30	359.60	12,635.7	2,483.7	-262.6	2.29	2.07	-0.98	24.7	3.7	
15,287.0	91.60	359.00	12,633.3	2,577.6	-263.8	0.71	0.32	-0.64	22.3	4.0	
15,381.0	90.50	358.90	12,631.6	2,671.6	-265.5	1.18	-1.17	-0.11	20.6	4.9	
15,475.0	90.70	359.00	12,630.6	2,765.6	-267.2	0.24	0.21	0.11	19.6	5.8	
15,568.0	88.30	358.70	12,631.4	2,858.5	-269.1	2.60	-2.58	-0.32	20.4	6.9	
15,661.0	88.40	358.50	12,634.1	2,951.5	-271.3	0.24	0.11	-0.22	23.1	8.4	
15,754.0	90.70	358.70	12,634.8	3,044.4	-273.6	2.48	2.47	0.22	23.8	9.8	
15,874.0	90.30	358.60	12,633.8	3,164.4	-276.4	0.34	-0.33	-0.08	22.7	11.6	
15,940.0	90.20	357.40	12,633.5	3,230.4	-278.7	1.82	-0.15	-1.82	22.5	13.4	
16,034.0	89.30	355.20	12,633.9	3,324.1	-284.8	2.53	-0.96	-2.34	22.9	18.6	
16,127.0	91.00	358.30	12,633.6	3,417.0	-290.1	3.80	1.83	3.33	22.6	23.1	
16,221.0	89.00	359.70	12,633.6	3,511.0	-291.7	2.60	-2.13	1.49	22.6	23.9	
16,314.0	90.80	0.30	12,633.8	3,604.0	-291.7	2.04	1.94	0.65	22.8	23.1	
16,407.0	89.40	1.20	12,633.6	3,696.9	-290.5	1.79	-1.51	0.97	22.6	21.1	
16,500.0	88.60	1.00	12,635.3	3,789.9	-288.7	0.89	-0.86	-0.22	24.3	18.5	



EOG Resources, Inc.
PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: #707H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
MD Reference: KB = 25 @ 3370.0usft (H&P 610)
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)
16,592.0	87.20	358.40	12,638.6	3,881.8	-289.2	3.21	-1.52	-2.83	27.6	18.3
16,686.0	88.80	359.10	12,641.9	3,975.8	-291.2	1.86	1.70	0.74	30.9	19.5
16,779.0	88.80	359.00	12,643.9	4,068.7	-292.8	0.11	0.00	-0.11	32.9	20.2
16,872.0	94.10	0.90	12,641.5	4,161.7	-292.9	6.05	5.70	2.04	30.5	19.6
16,965.0	91.90	1.10	12,636.6	4,254.5	-291.2	2.38	-2.37	0.22	25.6	17.1
17,058.0	88.80	1.40	12,636.1	4,347.5	-289.2	3.35	-3.33	0.32	25.1	14.3
17,151.0	90.10	1.80	12,637.0	4,440.4	-286.6	1.46	1.40	0.43	26.0	10.9
17,244.0	90.90	2.10	12,636.1	4,533.4	-283.5	0.92	0.86	0.32	25.1	6.9
17,338.0	90.30	2.20	12,635.2	4,627.3	-279.9	0.65	-0.64	0.11	24.2	2.6
17,431.0	89.10	1.20	12,635.6	4,720.3	-277.2	1.68	-1.29	-1.08	24.7	-1.0
17,525.0	90.90	1.80	12,635.6	4,814.2	-274.7	2.02	1.91	0.64	24.7	-4.2
17,618.0	89.90	359.20	12,635.0	4,907.2	-273.9	3.00	-1.08	-2.80	24.0	-5.9
17,710.0	89.50	359.10	12,635.5	4,999.2	-275.3	0.45	-0.43	-0.11	24.5	-5.3
17,804.0	90.20	1.30	12,635.7	5,093.2	-274.9	2.46	0.74	2.34	24.7	-6.4
17,898.0	89.40	358.20	12,636.1	5,187.2	-275.3	3.41	-0.85	-3.30	25.1	-6.8
17,991.0	89.90	358.70	12,636.6	5,280.1	-277.9	0.76	0.54	0.54	25.6	-5.1
18,085.0	89.80	359.00	12,636.9	5,374.1	-279.7	0.34	-0.11	0.32	25.9	-4.0
18,178.0	90.80	0.60	12,636.4	5,467.1	-280.1	2.03	1.08	1.72	25.4	-4.5
18,271.0	86.70	354.40	12,638.4	5,559.9	-284.1	7.99	-4.41	-6.67	27.4	-1.2
18,364.0	89.10	355.50	12,641.8	5,652.5	-292.3	2.84	2.58	1.18	30.8	6.1
18,458.0	90.90	357.70	12,641.8	5,746.3	-297.9	3.02	1.91	2.34	30.8	10.9
18,551.0	89.80	355.90	12,641.3	5,839.2	-303.1	2.27	-1.18	-1.94	30.3	15.3
18,644.0	88.70	353.60	12,642.5	5,931.8	-311.6	2.74	-1.18	-2.47	31.5	23.0
18,738.0	88.90	357.80	12,644.4	6,025.5	-318.6	4.47	0.21	4.47	33.4	29.3
18,832.0	90.50	2.20	12,644.9	6,119.4	-318.6	4.98	1.70	4.68	33.7	28.4
18,926.0	91.00	2.00	12,643.7	6,213.4	-315.2	0.57	0.53	-0.21	32.3	24.2
19,019.0	89.50	1.20	12,643.3	6,306.3	-312.6	1.83	-1.61	-0.86	31.7	20.8



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Endurance 36 State Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3370.0usft (H&P 610)
 MD Reference: KB = 25 @ 3370.0usft (H&P 610)
 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)	
19,112.0	90.30	0.80	12,643.5	6,399.3	-311.0	0.96	0.86	-0.43	31.7	18.4	
19,206.0	89.50	2.30	12,643.6	6,493.3	-308.4	1.81	-0.85	1.60	31.7	15.0	
19,299.0	87.20	0.00	12,646.3	6,586.2	-306.5	3.50	-2.47	-2.47	34.2	12.4	
19,392.0	88.70	0.30	12,649.6	6,679.1	-306.3	1.64	1.61	0.32	37.3	11.3	
19,486.0	89.10	359.30	12,651.4	6,773.1	-306.6	1.15	0.43	-1.06	39.0	10.8	
19,578.0	92.20	0.20	12,650.4	6,865.1	-307.0	3.51	3.37	0.98	37.7	10.4	
19,672.0	90.70	359.20	12,648.0	6,959.1	-307.5	1.92	-1.60	-1.06	35.2	10.1	
19,702.0	90.50	359.00	12,647.7	6,989.1	-308.0	0.94	-0.67	-0.67	34.8	10.3	
Last MWD Survey											
19,757.0	90.50	359.00	12,647.2	7,044.1	-309.0	0.00	0.00	0.00	34.2	10.8	
Projection To Bit											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
19,702.0	12,647.7	6,989.1	-308.0	Last MWD Survey	
19,757.0	12,647.2	7,044.1	-309.0	Projection To Bit	

Checked By: _____ Approved By: _____ Date: _____