



HOBBS OCD
DEC 26 2017
RECEIVED

Lea County, NM (NAD 27 NME)

Dragon 36 State

#707H

H&P 610

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 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.52°
Magnetic Field
Strength: 47933.3nT
Dip Angle: 60.02°
Date: 3/24/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.52°
To convert a Magnetic Direction to a True Direction, Add 6.95° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #707H

Ground Level: 3475.0

KB = 25 @ 3500.0ash (H&P 610)

+N/-S +E/-W

0.0 0.0

Northings

425541.00

Eastings

751213.00

32° 10' 2.367 N

Longitude

103° 31' 17.360 W

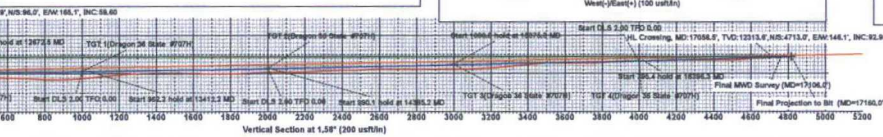
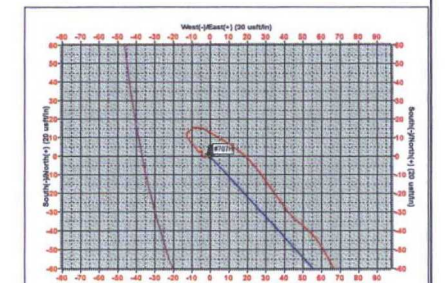
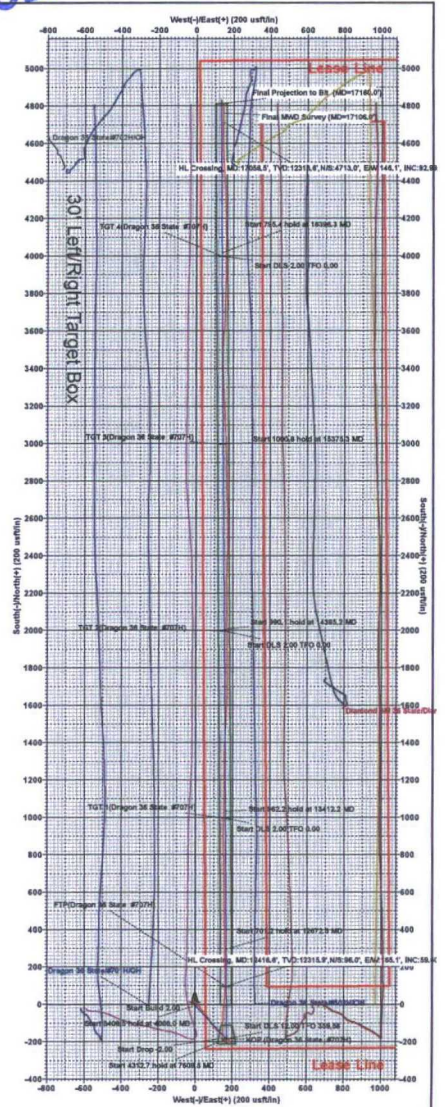
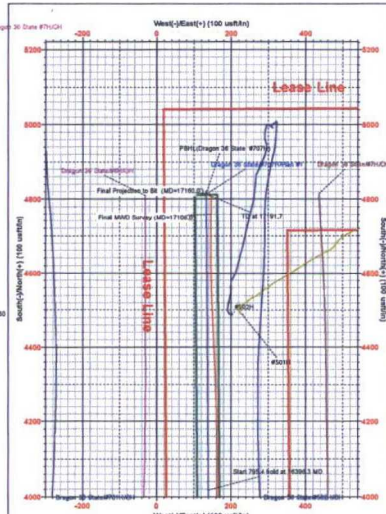
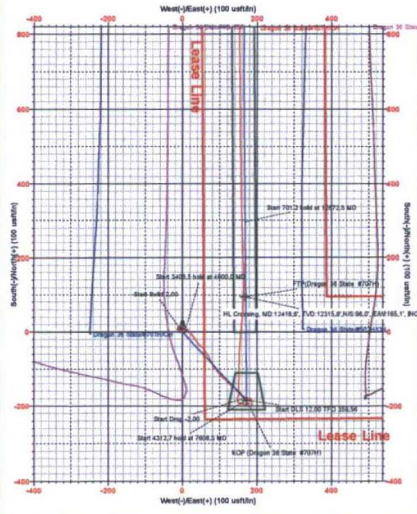
Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3800.0	0.00	0.00	3800.0	0.0	0.0	0.00	0.00	0.0	
3	4000.0	4.00	137.00	3999.8	-5.1	4.8	2.00	137.00	-5.0	
4	7408.5	4.00	137.00	7400.0	-179.0	166.9	0.00	0.00	-174.3	
5	7608.5	0.00	0.00	7599.8	-184.1	171.7	2.00	180.00	-179.3	
6	11921.1	0.00	0.00	11912.5	-184.1	171.7	0.00	0.00	-179.3	
7	12672.5	90.16	359.56	12390.0	294.7	168.0	12.00	359.56	299.2	
8	13373.7	90.16	359.56	12388.0	995.9	162.5	0.00	0.00	1000.0	TGT 1(Dragon 36 State #707H)
9	13412.2	90.93	359.56	12387.6	1034.4	162.2	2.00	0.00	1038.5	TGT 2(Dragon 36 State #707H)
10	14374.5	90.93	359.56	12372.0	1996.5	154.8	0.00	0.00	2000.0	TGT 3(Dragon 36 State #707H)
11	14385.2	91.15	359.56	12371.8	2007.3	154.7	2.00	0.00	2010.8	TGT 4(Dragon 36 State #707H)
12	13375.3	91.15	359.56	12352.0	2997.1	147.1	0.00	0.00	3000.0	
13	16376.1	91.15	359.56	12332.0	3997.7	139.3	0.00	0.00	4000.0	
14	16396.3	91.55	359.56	12331.5	4017.9	139.2	2.00	0.00	4020.2	
15	17191.7	91.55	359.56	12310.0	4813.0	133.0	0.00	0.00	4814.8	PBHL(Dragon 36 State #707H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northings	Eastings	Shape
KOP (Dragon 36 State #707H)	11912.5	-184.1	171.7	425356.90	751384.67	Polygon
PBHL(Dragon 36 State #707H)	12310.0	4813.0	133.0	430354.00	751346.00	Rectangle (Sides: L0.0 W60.0)
Interp @ 12315.3 (#707H) OH Intrepid MWD	12315.3	96.0	165.1	425637.00	751375.11	Point
TGT 1(Dragon 36 State #707H)	12332.0	3997.7	139.3	429538.70	751352.31	Point
TGT 2(Dragon 36 State #707H)	12352.0	2997.1	147.1	428538.10	751360.09	Point
TGT 3(Dragon 36 State #707H)	12372.0	1996.5	154.8	427537.50	751367.80	Point
TGT 4(Dragon 36 State #707H)	12388.0	995.9	162.5	426536.90	751375.54	Point
FTP(Dragon 36 State #707H)	12390.0	96.0	169.0	425637.00	751382.00	Point



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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Dragon 36 State

#707H

OH

Design: OH

PVA Report

09 August, 2017

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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

Site	Dragon 36 State		
Site Position:		Northing:	425,530.00 usft
From:	Map	Easting:	751,878.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.209 N
		Longitude:	103° 31' 9.625 W
		Grid Convergence:	0.43 °

Well	#707H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/24/2017	6.95
			Dip Angle (°)
			60.02
			Field Strength (nT)
			47,933.33795536

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)
	0.0	0.0	0.0
			Direction (°)
			1.58

Survey Program	Date 8/9/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
184.0	17,160.0	Intrepid MWD (OH)	MWD
			Description
			MWD - Standard

PVA Report

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Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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
184.0	0.30	259.33	184.0	-0.1	-0.5	0.16	0.16	0.00	-0.5	0.0	
242.0	0.20	278.33	242.0	-0.1	-0.7	0.22	-0.17	32.76	-0.7	0.2	
426.0	0.30	283.33	426.0	0.1	-1.5	0.06	0.05	2.72	-1.5	0.3	
645.0	0.20	196.33	645.0	-0.2	-2.2	0.16	-0.05	-39.73	-0.8	-2.0	
833.0	0.60	285.33	833.0	-0.2	-3.2	0.33	0.21	47.34	-3.0	1.1	
1,021.0	0.40	330.33	1,021.0	0.6	-4.5	0.23	-0.11	23.94	-2.7	3.6	
1,208.0	0.70	12.33	1,208.0	2.3	-4.6	0.26	0.16	22.46	-1.3	5.0	
1,251.0	0.60	56.33	1,251.0	2.7	-4.3	1.15	-0.23	102.33	2.1	4.6	
1,359.0	0.30	309.50	1,359.0	3.2	-4.1	0.69	-0.28	-98.92	-5.1	0.2	
1,543.0	0.40	249.10	1,543.0	3.2	-5.0	0.20	0.05	-32.83	-3.6	-4.8	
1,731.0	0.30	193.90	1,731.0	2.5	-5.8	0.18	-0.05	-29.36	1.1	-6.2	
1,918.0	0.40	333.00	1,918.0	2.6	-6.2	0.35	0.05	74.39	-5.2	4.3	
2,105.0	1.00	315.10	2,105.0	4.4	-7.6	0.34	0.32	-9.57	-8.5	2.3	
2,292.0	1.20	326.00	2,291.9	7.1	-9.9	0.15	0.11	5.83	-11.4	4.2	
2,478.0	1.30	326.90	2,477.9	10.5	-12.1	0.05	0.05	0.48	-15.4	4.4	
2,665.0	0.50	47.70	2,664.9	12.9	-12.7	0.70	-0.43	43.21	0.7	18.0	
2,852.0	0.80	52.60	2,851.8	14.2	-11.0	0.16	0.16	2.62	0.2	18.0	
3,039.0	1.10	55.20	3,038.8	16.0	-8.5	0.16	0.16	1.39	-2.1	18.0	
3,226.0	2.10	117.70	3,225.8	15.4	-4.0	1.00	0.53	33.42	10.7	11.8	
3,413.0	2.80	120.70	3,412.6	11.5	2.9	0.38	0.37	1.60	3.3	11.4	
3,600.0	2.90	122.90	3,599.3	6.6	10.8	0.08	0.05	1.18	-5.5	11.4	
3,787.0	2.60	129.80	3,786.1	1.3	18.1	0.24	-0.16	3.69	-13.0	12.6	
3,973.0	4.20	141.70	3,971.8	-6.7	25.5	0.94	0.86	6.40	-15.9	15.4	
4,160.0	4.00	145.50	4,158.3	-17.5	33.5	0.18	-0.11	2.03	-15.5	15.0	
4,348.0	3.50	145.30	4,345.9	-27.6	40.5	0.27	-0.27	-0.11	-14.8	13.0	
4,533.0	4.90	126.20	4,530.4	-36.9	50.0	1.06	0.76	-10.32	-18.8	8.1	

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
4,719.0	4.70	150.00	4,715.8	-48.2	60.3	1.07	-0.11	12.80	-16.2	15.2	
4,906.0	5.40	150.20	4,902.1	-62.5	68.5	0.37	0.37	0.11	-20.0	12.3	
5,092.0	2.40	156.50	5,087.6	-73.6	74.4	1.63	-1.61	3.39	-18.9	11.1	
5,279.0	2.10	151.90	5,274.5	-80.2	77.5	0.19	-0.16	-2.46	-14.4	5.9	
5,466.0	2.30	152.30	5,461.3	-86.6	80.9	0.11	0.11	0.21	-8.9	2.6	
5,653.0	2.50	146.40	5,648.2	-93.3	84.9	0.17	0.11	-3.16	-4.1	-0.9	
5,840.0	2.60	142.20	5,835.0	-100.1	89.8	0.11	0.05	-2.25	0.7	-2.7	
6,028.0	3.00	137.70	6,022.8	-107.1	95.7	0.24	0.21	-2.39	4.8	-3.1	
6,216.0	3.00	137.10	6,210.5	-114.3	102.3	0.02	0.00	-0.32	8.1	-3.1	
6,402.0	3.50	135.40	6,396.2	-121.9	109.6	0.27	0.27	-0.91	10.7	-2.7	
6,589.0	3.50	135.70	6,582.9	-130.1	117.6	0.01	0.00	0.16	12.3	-2.4	
6,777.0	3.50	134.90	6,770.5	-138.2	125.7	0.03	0.00	-0.43	13.9	-1.8	
6,965.0	3.20	129.00	6,958.2	-145.6	133.9	0.24	-0.16	-3.14	16.1	0.9	
7,151.0	3.00	127.90	7,143.9	-151.8	141.7	0.11	-0.11	-0.59	18.8	3.1	
7,338.0	2.90	130.60	7,330.7	-157.9	149.2	0.09	-0.05	1.44	22.3	3.9	
7,525.0	2.50	136.90	7,517.5	-164.0	155.6	0.27	-0.21	3.37	24.5	2.0	
7,712.0	2.30	142.40	7,704.3	-169.9	160.6	0.16	-0.11	2.94	18.0	-0.1	
7,899.0	2.30	116.80	7,891.1	-174.6	166.3	0.54	0.00	-13.69	9.1	6.1	
8,085.0	2.00	117.60	8,077.0	-177.8	172.5	0.16	-0.16	0.43	2.2	6.0	
8,273.0	0.50	82.00	8,265.0	-179.2	176.2	0.86	-0.80	-18.94	-5.2	4.2	
8,460.0	0.60	141.90	8,452.0	-179.8	177.6	0.30	0.05	32.03	-0.3	7.3	
8,648.0	2.10	48.90	8,639.9	-178.3	180.8	1.18	0.80	-49.47	-10.7	-1.7	
8,836.0	1.10	157.70	8,827.9	-177.7	184.1	1.42	-0.53	57.87	1.2	13.9	
9,024.0	0.50	133.20	9,015.8	-180.0	185.4	0.36	-0.32	-13.03	-7.2	12.4	
9,193.0	1.60	184.90	9,184.8	-182.8	185.7	0.80	0.65	30.59	2.5	13.9	
9,380.0	1.00	173.90	9,371.8	-187.1	185.7	0.35	-0.32	-5.88	-4.4	13.6	
9,566.0	0.80	169.40	9,557.7	-189.9	186.1	0.11	-0.11	-2.42	-8.4	13.1	

PVA Report

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Site:	Dragon 36 State	MD Reference:	KB = 25 @ 3500.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
9,752.0	0.90	142.70	9,743.7	-192.4	187.2	0.22	0.05	-14.35	-16.0	7.3
9,939.0	1.50	206.20	9,930.7	-195.8	187.0	0.73	0.32	33.96	-3.7	18.9
10,125.0	1.20	254.70	10,116.6	-198.5	184.1	0.61	-0.16	26.08	8.2	17.1
10,312.0	1.30	266.70	10,303.6	-199.1	180.1	0.15	0.05	6.42	7.5	15.5
10,500.0	1.50	294.50	10,491.5	-198.2	175.7	0.37	0.11	14.79	9.5	11.2
10,687.0	1.70	291.90	10,678.5	-196.1	170.9	0.11	0.11	-1.39	3.8	11.5
10,875.0	2.20	297.10	10,866.4	-193.5	165.1	0.28	0.27	2.77	-1.6	11.3
11,061.0	1.60	279.20	11,052.3	-191.4	159.3	0.45	-0.32	-9.62	-11.0	9.2
11,117.0	1.60	279.20	11,108.2	-191.2	157.8	0.00	0.00	0.00	-12.6	9.2
11,248.0	2.20	275.60	11,239.2	-190.6	153.5	0.47	0.46	-2.75	-17.5	8.3
11,434.0	1.60	341.80	11,425.1	-187.8	149.1	1.15	-0.32	35.59	-3.5	22.6
11,621.0	2.90	8.40	11,611.9	-180.7	149.0	0.87	0.70	14.22	-0.1	22.9
11,729.0	2.70	8.70	11,719.8	-175.4	149.8	0.19	-0.19	0.28	-5.2	22.9
11,817.0	2.40	15.40	11,807.7	-171.6	150.6	0.48	-0.34	7.61	-6.4	23.6
11,911.0	3.50	2.60	11,901.6	-166.8	151.2	1.36	1.17	-13.62	-16.3	21.2
11,958.0	12.10	359.80	11,948.1	-160.5	151.3	18.31	18.30	-5.96	-22.2	20.4
12,005.0	21.30	2.30	11,993.1	-147.0	151.6	19.63	19.57	5.32	-28.8	21.4
12,052.0	24.20	1.10	12,036.4	-128.8	152.1	6.25	6.17	-2.55	-37.0	20.2
12,099.0	26.50	0.40	12,078.9	-108.7	152.4	4.93	4.89	-1.49	-42.2	19.3
12,146.0	29.40	1.60	12,120.4	-86.7	152.8	6.28	6.17	2.55	-43.8	19.5
12,192.0	32.70	1.60	12,159.8	-63.0	153.5	7.17	7.17	0.00	-43.3	18.6
12,239.0	40.60	3.80	12,197.5	-35.0	154.8	17.04	16.81	4.68	-41.8	18.0
12,286.0	44.90	6.10	12,232.0	-3.2	157.6	9.73	9.15	4.89	-40.5	15.8
12,333.0	45.50	5.80	12,265.1	30.0	161.1	1.35	1.28	-0.64	-36.7	11.5
12,379.0	53.20	3.30	12,295.1	64.7	163.8	17.24	16.74	-5.43	-31.6	7.1
12,416.6	59.60	1.59	12,315.9	96.0	165.1	17.43	17.01	-4.54	-28.3	4.9
HL Crossing, MD:12416.6', TVD:12315.9', N/S:96.0', E/W:165.1', INC:59.60										

PVA Report

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

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3500.0usft (H&P 610)
 MD Reference: KB = 25 @ 3500.0usft (H&P 610)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
12,426.0	61.20	1.20	12,320.5	104.2	165.3	17.43	17.05	-4.16	-27.7	4.5
12,473.0	64.00	359.00	12,342.1	145.9	165.4	7.26	5.96	-4.68	-23.2	3.7
12,520.0	65.10	357.50	12,362.3	188.3	164.1	3.71	2.34	-3.19	-15.5	4.7
12,566.0	67.40	358.30	12,380.9	230.4	162.5	5.25	5.00	1.74	-4.8	6.0
12,613.0	74.50	357.80	12,396.2	274.8	161.0	15.14	15.11	-1.06	6.5	7.2
12,659.0	83.20	359.80	12,405.1	319.8	160.1	19.39	18.91	4.35	15.2	7.7
12,706.0	85.10	358.70	12,409.9	366.6	159.5	4.67	4.04	-2.34	20.1	8.0
12,760.0	86.10	358.20	12,414.0	420.4	158.0	2.07	1.85	-0.93	24.4	9.0
12,854.0	89.00	359.60	12,418.0	514.3	156.2	3.43	3.09	1.49	28.7	10.1
12,948.0	89.50	359.60	12,419.3	608.3	155.6	0.53	0.53	0.00	30.2	10.0
13,042.0	88.10	359.10	12,421.2	702.2	154.5	1.58	-1.49	-0.53	32.4	10.3
13,135.0	84.80	359.00	12,427.0	795.0	153.0	3.55	-3.55	-0.11	38.4	11.2
13,228.0	92.00	0.40	12,429.6	887.9	152.5	7.89	7.74	1.51	41.3	10.9
13,322.0	95.10	1.30	12,423.8	981.7	153.9	3.43	3.30	0.96	35.7	8.8
13,416.0	95.10	0.70	12,415.4	1,075.3	155.5	0.64	0.00	-0.64	28.4	6.5
13,509.0	95.60	359.80	12,406.7	1,167.9	155.9	1.10	0.54	-0.97	21.3	5.3
13,603.0	92.70	0.30	12,399.9	1,261.7	156.0	3.13	-3.09	0.53	16.0	4.5
13,696.0	92.00	1.10	12,396.1	1,354.6	157.1	1.14	-0.75	0.86	13.7	2.7
13,790.0	89.10	3.20	12,395.2	1,448.5	160.6	3.81	-3.09	2.23	14.3	-1.6
13,884.0	89.10	3.00	12,396.7	1,542.4	165.7	0.21	0.00	-0.21	17.3	-7.4
13,977.0	89.10	2.20	12,398.2	1,635.3	169.9	0.86	0.00	-0.86	20.3	-12.3
14,070.0	89.10	359.80	12,399.6	1,728.2	171.6	2.58	0.00	-2.58	23.3	-14.7
14,164.0	91.90	359.40	12,398.8	1,822.2	170.9	3.01	2.98	-0.43	24.0	-14.8
14,258.0	93.20	359.80	12,394.6	1,916.1	170.3	1.45	1.38	0.43	21.3	-14.8
14,352.0	91.20	359.60	12,391.0	2,010.0	169.8	2.14	-2.13	-0.21	19.3	-15.1
14,445.0	90.30	359.70	12,389.8	2,103.0	169.2	0.97	-0.97	0.11	19.9	-15.2
14,538.0	91.20	359.80	12,388.6	2,196.0	168.8	0.97	0.97	0.11	20.5	-15.5

PVA Report

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

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25 @ 3500.0usft (H&P 610)
 MD Reference: KB = 25 @ 3500.0usft (H&P 610)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)	
14,632.0	93.20	1.70	12,385.0	2,289.9	170.0	2.93	2.13	2.02	18.8	-17.5	
14,726.0	91.30	1.40	12,381.3	2,383.8	172.6	2.05	-2.02	-0.32	17.0	-20.7	
14,822.0	92.20	0.30	12,378.3	2,479.8	174.0	1.48	0.94	-1.15	16.0	-22.9	
14,915.0	90.60	359.40	12,376.1	2,572.7	173.7	1.97	-1.72	-0.97	15.6	-23.4	
15,008.0	90.80	358.00	12,374.9	2,665.7	171.6	1.52	0.22	-1.51	16.3	-22.0	
15,101.0	89.90	358.90	12,374.4	2,758.7	169.1	1.37	-0.97	0.97	17.6	-20.2	
15,195.0	89.70	359.10	12,374.7	2,852.6	167.5	0.30	-0.21	0.21	19.8	-19.3	
15,289.0	89.90	359.00	12,375.0	2,946.6	165.9	0.24	0.21	-0.11	22.0	-18.5	
15,382.0	90.10	357.90	12,375.0	3,039.6	163.4	1.20	0.22	-1.18	23.9	-16.7	
15,475.0	92.60	357.00	12,372.8	3,132.5	159.3	2.86	2.69	-0.97	23.5	-13.3	
15,569.0	94.90	357.10	12,366.7	3,226.1	154.4	2.45	2.45	0.11	19.2	-9.2	
15,662.0	95.20	357.40	12,358.5	3,318.7	150.0	0.46	0.32	0.32	12.9	-5.4	
15,713.0	96.10	357.30	12,353.5	3,369.4	147.6	1.78	1.76	-0.20	8.9	-3.5	
15,743.0	96.30	357.70	12,350.2	3,399.2	146.3	1.48	0.67	1.33	6.3	-2.4	
15,837.0	91.90	2.70	12,343.5	3,492.9	146.7	7.07	-4.68	5.32	1.4	-3.5	
15,931.0	89.50	4.30	12,342.4	3,586.7	152.4	3.07	-2.55	1.70	2.2	-9.9	
16,023.0	90.40	2.10	12,342.4	3,678.5	157.6	2.58	0.98	-2.39	4.1	-15.8	
16,117.0	91.80	1.00	12,340.6	3,772.5	160.1	1.89	1.49	-1.17	4.2	-19.0	
16,209.0	93.10	1.10	12,336.7	3,864.4	161.8	1.42	1.41	0.11	2.1	-21.4	
16,303.0	91.30	0.10	12,333.1	3,958.3	162.8	2.19	-1.91	-1.06	0.3	-23.1	
16,396.0	92.40	0.20	12,330.1	4,051.2	163.0	1.19	1.18	0.11	-0.5	-24.1	
16,489.0	90.70	359.60	12,327.6	4,144.2	162.8	1.94	-1.83	-0.65	-0.5	-24.7	
16,582.0	89.90	358.40	12,327.1	4,237.2	161.2	1.55	-0.86	-1.29	1.5	-23.8	
16,676.0	89.10	357.40	12,327.9	4,331.1	157.8	1.36	-0.85	-1.06	4.9	-21.0	
16,769.0	90.80	357.50	12,328.0	4,424.0	153.6	1.83	1.83	0.11	7.5	-17.6	
16,863.0	92.70	357.50	12,325.1	4,517.9	149.5	2.02	2.02	0.00	7.1	-14.3	
16,956.0	93.90	359.00	12,319.8	4,610.7	146.7	2.06	1.29	1.61	4.3	-12.1	

PVA Report

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

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25 @ 3500.0usft (H&P 610)
MD Reference: KB = 25 @ 3500.0usft (H&P 610)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)	
17,050.0	93.10	0.20	12,314.0	4,704.5	146.0	1.53	-0.85	1.28	1.1	-12.2	
17,058.5	92.98	0.31	12,313.6	4,713.0	146.1	1.90	-1.43	1.25	0.9	-12.3	
HL Crossing, MD:17058.5', TVD:12313.6', N/S:4713.0', E/W:146.1', INC:92.98											
17,106.0	92.30	0.90	12,311.4	4,760.4	146.6	1.90	-1.43	1.25	0.0	-13.2	
Final MWD Survey (MD=17106.0')											
17,160.0	92.30	0.90	12,309.2	4,814.4	147.4	0.00	0.00	0.00	-0.7	-14.4	
Final Projection to Bit (MD=17160.0')											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
12,416.6	12,315.9	96.0	165.1	HL Crossing, MD:12416.6', TVD:12315.9', N/S:96.0', E/W:165.1', INC:59.60	
17,058.5	12,313.6	4,713.0	146.1	HL Crossing, MD:17058.5', TVD:12313.6', N/S:4713.0', E/W:146.1', INC:92.98	
17,106.0	12,311.4	4,760.4	146.6	Final MWD Survey (MD=17106.0')	
17,160.0	12,309.2	4,814.4	147.4	Final Projection to Bit (MD=17160.0')	

Checked By: _____ Approved By: _____ Date: _____