

HOBBS OCD

SEP 13 2017

RECEIVED



Lea County, NM (NAD 83 NME)

Braswell 16 State #704H

Plan #1



Azimuths to Grid North
True North: 0.40°
Magnetic North: 6.55°
Magnetic Field
Strength: 47843.1nT
Dip Angle: 58.50°
Date: 5/19/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.55°
To convert a Magnetic Direction to a True Direction, Add 6.95°
To convert a True Direction to a Grid Direction, Subtract 0.40°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #704H

Ground Level: 3279.0
KB = 25' @ 3304.0usft
Northing 382755.00 Easting 775286.00 Latitude 32° 3' 0.088 N Longitude 103° 34' 41.632 W

SECTION DETAILS

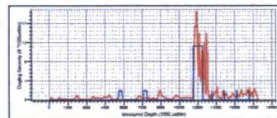
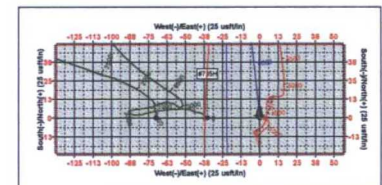
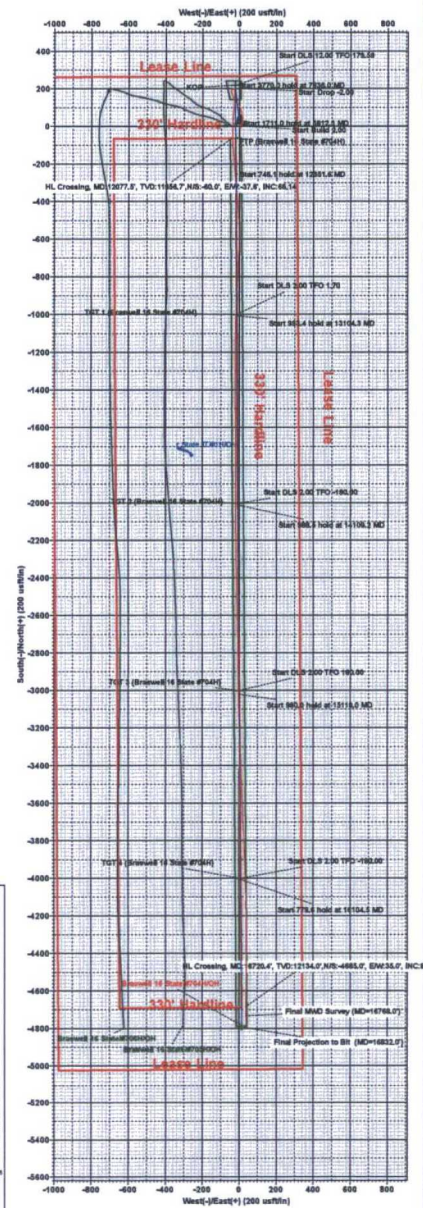
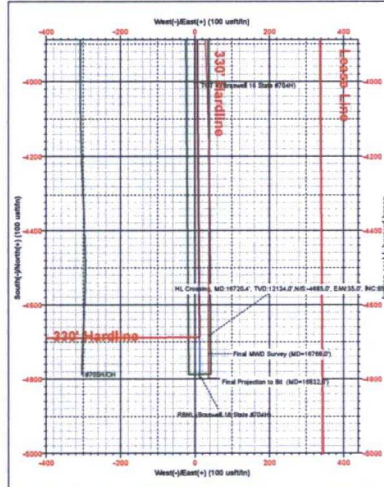
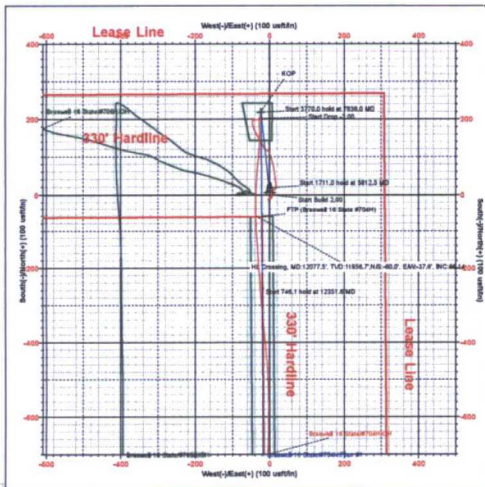
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	
2	5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	
3	5812.5	6.25	353.77	5811.9	16.9	-1.8	2.00	353.77	-16.9	
4	7523.5	6.25	353.77	7512.7	202.1	-22.1	0.00	0.00	-202.2	
5	7836.0	0.00	0.00	7824.6	219.0	-23.9	2.00	180.00	-219.1	
6	11606.0	0.00	0.00	11594.6	219.0	-23.9	0.00	0.00	-219.1	
7	12351.6	89.47	179.59	12072.0	-254.0	-20.5	12.00	179.59	253.9	KOP
8	13097.6	89.47	179.59	12079.0	-1000.0	-15.1	0.00	0.00	1000.0	TGT 1 (Braswell 16 State #704H)
9	13104.3	89.50	179.59	12079.1	-1006.7	-15.0	2.00	1.70	1006.6	TGT 2 (Braswell 16 State #704H)
10	14097.7	89.60	179.59	12086.0	-2000.0	-7.9	0.00	0.00	2000.0	TGT 3 (Braswell 16 State #704H)
11	14109.2	89.37	179.59	12086.1	-2011.5	-7.9	2.00	-180.00	2011.5	TGT 4 (Braswell 16 State #704H)
12	15097.8	89.37	179.59	12097.0	-3000.0	-0.8	0.00	0.00	3000.0	
13	15118.0	88.96	179.59	12097.3	-3020.2	-0.6	2.00	180.00	3020.2	
14	16098.0	88.96	179.59	12115.0	-4000.0	6.4	0.00	0.00	4000.0	
15	16104.5	88.83	179.59	12115.1	-4006.6	6.4	2.00	-180.00	4006.6	
16	16884.1	88.83	179.59	12131.0	-4786.0	12.0	0.00	0.00	4786.0	PBHL (Braswell 16 State #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP	11594.6	219.0	-23.9	382874.03	775282.10
FTP (Braswell 16 State #704H)	12072.0	-41.0	-21.0	382694.00	775265.00
TGT 1 (Braswell 16 State #704H)	12079.0	-1000.0	-15.1	381755.00	775270.91
TGT 2 (Braswell 16 State #704H)	12086.0	-2000.0	-7.9	380755.00	775278.96
TGT 3 (Braswell 16 State #704H)	12097.0	-3000.0	-0.8	379755.00	775286.22
TGT 4 (Braswell 16 State #704H)	12115.0	-4000.0	6.4	378755.00	775282.38
PBHL (Braswell 16 State #704H)	12131.0	-4786.0	12.0	377959.00	775286.00



Lea County, NM (NAD 83 NME)
Braswell 16 State #704H
Plan #1
SEP 13 2017

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Braswell 16 State

#704H

OH

Design: OH

PVA Report

24 July, 2017

PVA Report

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Braswell 16 State Well: #704H Wellbore: OH Design: OH	Local Co-ordinate Reference: Well #704H TVD Reference: KB = 25' @ 3304.0usft MD Reference: KB = 25' @ 3304.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14
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Project Lea County, NM (NAD 83 NME)	
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level

Site Braswell 16 State		
Site Position: From: Map Position Uncertainty: 0.0 usft	Northing: 382,755.00 usft Easting: 775,286.00 usft Slot Radius: 13-3/16 "	Latitude: 32° 3' 0.088 N Longitude: 103° 34' 41.632 W Grid Convergence: 0.40 °

Well #704H		
Well Position +N/-S 0.0 usft +E/-W 0.0 usft Position Uncertainty 0.0 usft	Northing: 382,755.00 usft Easting: 775,286.00 usft Wellhead Elevation: usft	Latitude: 32° 3' 0.088 N Longitude: 103° 34' 41.632 W Ground Level: 3,279.0 usft

Wellbore OH												
<table border="1"> <thead> <tr> <th>Magnetics</th> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td></td> <td>IGRF2015</td> <td>5/19/2017</td> <td>6.95</td> <td>59.90</td> <td>47,843.12527413</td> </tr> </tbody> </table>	Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2015	5/19/2017	6.95	59.90	47,843.12527413
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)							
	IGRF2015	5/19/2017	6.95	59.90	47,843.12527413							

Design OH								
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0								
Vertical Section: <table border="1"> <thead> <tr> <th>Depth From (TVD) (usft)</th> <th>+N/-S (usft)</th> <th>+E/-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>179.86</td> </tr> </tbody> </table>	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	0.0	0.0	0.0	179.86
Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)					
0.0	0.0	0.0	179.86					

Survey Program	Date 7/24/2017									
<table border="1"> <thead> <tr> <th>From (usft)</th> <th>To (usft)</th> <th>Survey (Wellbore)</th> <th>Tool Name</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>151.0</td> <td>16,832.0</td> <td>Intrepid MWD (OH)</td> <td>MWD</td> <td>MWD - Standard</td> </tr> </tbody> </table>	From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	151.0	16,832.0	Intrepid MWD (OH)	MWD	MWD - Standard
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description						
151.0	16,832.0	Intrepid MWD (OH)	MWD	MWD - Standard						

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft
Well:	#704H	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
151.0	0.90	101.40	151.0	-0.2	1.2	0.60	0.60	0.00	-1.2	0.0	
250.0	0.70	101.10	250.0	-0.5	2.5	0.20	-0.20	-0.30	-2.6	0.0	
382.0	0.50	101.40	382.0	-0.8	3.9	0.15	-0.15	0.23	-4.0	0.0	
473.0	0.50	107.70	473.0	-1.0	4.6	0.06	0.00	6.92	-4.7	0.5	
593.0	0.40	120.40	593.0	-1.3	5.5	0.12	-0.08	10.58	-5.4	1.6	
712.0	0.70	157.50	712.0	-2.2	6.1	0.38	0.25	31.18	-4.4	4.8	
774.0	0.70	192.20	774.0	-2.9	6.2	0.67	0.00	55.97	-1.6	6.7	
866.0	0.50	182.80	866.0	-3.9	6.1	0.24	-0.22	-10.22	-3.6	6.2	
1,055.0	0.70	222.50	1,054.9	-5.6	5.2	0.24	0.11	21.01	-0.6	7.6	
1,242.0	0.40	259.70	1,241.9	-6.5	3.8	0.24	-0.16	19.89	2.6	7.1	
1,427.0	0.40	225.80	1,426.9	-7.1	2.7	0.13	0.00	-18.32	-3.0	7.0	
1,613.0	0.60	215.60	1,612.9	-8.3	1.7	0.12	0.11	-5.48	-5.8	6.2	
1,800.0	0.80	235.10	1,799.9	-9.9	0.1	0.16	0.11	10.43	-5.6	8.1	
1,989.0	1.30	241.30	1,988.9	-11.7	-2.9	0.27	0.26	3.28	-8.1	8.8	
2,176.0	0.70	73.10	2,175.9	-12.4	-3.7	1.06	-0.32	-89.95	7.1	-10.8	
2,364.0	0.20	26.10	2,363.9	-11.7	-2.4	0.31	-0.27	-25.00	11.6	-3.0	
2,551.0	0.20	298.90	2,550.9	-11.3	-2.6	0.15	0.00	-46.63	3.2	11.1	
2,739.0	0.30	354.70	2,738.9	-10.6	-2.9	0.13	0.05	29.68	10.3	3.9	
2,927.0	0.30	313.10	2,926.9	-9.8	-3.3	0.11	0.00	-22.13	4.3	9.4	
3,114.0	0.10	323.20	3,113.9	-9.3	-3.8	0.11	-0.11	5.40	5.2	8.6	
3,302.0	0.30	315.80	3,301.9	-8.9	-4.2	0.11	0.11	-3.94	3.4	9.2	
3,489.0	1.50	69.20	3,488.8	-7.6	-2.3	0.88	0.64	60.64	4.8	-6.3	
3,676.0	1.80	45.90	3,675.8	-4.7	2.1	0.39	0.16	-12.46	1.7	-4.9	
3,864.0	1.50	10.90	3,863.7	-0.2	4.7	0.55	-0.16	-18.62	-0.7	-4.7	
4,051.0	1.80	348.50	4,050.6	5.0	4.6	0.38	0.16	-11.98	-4.0	-5.5	
4,236.0	1.80	13.40	4,235.5	10.7	4.7	0.42	0.00	13.46	-11.5	-2.1	

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Braswell 16 State
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25' @ 3304.0usft
 MD Reference: KB = 25' @ 3304.0usft
 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)
4,423.0	1.40	65.40	4,422.5	14.5	7.5	0.77	-0.21	27.81	-12.8	10.1
4,610.0	1.80	101.50	4,609.4	14.9	12.4	0.57	0.21	19.30	-9.2	17.1
4,798.0	1.50	13.00	4,797.3	16.7	15.9	1.23	-0.16	-47.07	-19.8	-11.7
4,986.0	1.90	359.00	4,985.3	22.2	16.4	0.31	0.21	-7.45	-21.9	-16.7
5,173.0	1.80	357.70	5,172.2	28.2	16.2	0.06	-0.05	-0.70	-27.6	-17.3
5,360.0	2.20	351.80	5,359.0	34.7	15.6	0.24	0.21	-3.16	-32.1	-20.4
5,548.0	1.90	352.30	5,546.9	41.4	14.6	0.16	-0.16	0.27	-38.7	-20.0
5,736.0	1.80	355.20	5,734.8	47.4	14.0	0.07	-0.05	1.54	-36.3	-18.1
5,923.0	1.50	353.10	5,921.7	52.8	13.4	0.16	-0.16	-1.12	-21.6	-19.4
6,111.0	1.60	354.30	6,109.7	57.8	12.9	0.06	0.05	0.64	-6.6	-19.0
6,297.0	1.50	350.80	6,295.6	62.8	12.2	0.07	-0.05	-1.88	9.8	-18.5
6,484.0	1.30	353.40	6,482.6	67.3	11.6	0.11	-0.11	1.39	24.7	-18.7
6,671.0	1.30	347.70	6,669.5	71.5	10.9	0.07	0.00	-3.05	42.5	-14.2
6,857.0	1.30	351.30	6,855.5	75.7	10.1	0.04	0.00	1.94	57.6	-15.9
7,044.0	0.90	333.40	7,042.4	79.1	9.1	0.28	-0.21	-9.57	75.3	9.0
7,231.0	2.90	346.60	7,229.3	85.0	7.4	1.09	1.07	7.06	89.4	-5.5
7,418.0	2.20	347.00	7,416.1	93.1	5.5	0.37	-0.37	0.21	101.3	-3.7
7,605.0	1.60	346.10	7,603.0	99.1	4.0	0.32	-0.32	-0.48	114.3	0.4
7,792.0	0.90	312.70	7,790.0	102.7	2.3	0.53	-0.37	-17.86	98.0	67.6
7,980.0	1.80	344.60	7,977.9	106.5	0.5	0.61	0.48	16.97	115.0	6.4
8,168.0	1.70	342.80	8,165.8	112.0	-1.1	0.06	-0.05	-0.96	109.0	9.9
8,355.0	0.90	313.60	8,352.8	115.7	-3.0	0.54	-0.43	-15.61	86.4	60.5
8,543.0	1.00	291.60	8,540.8	117.3	-5.6	0.20	0.05	-11.70	54.4	87.9
8,708.0	0.80	257.80	8,705.7	117.6	-8.1	0.34	-0.12	-20.48	-6.0	102.5
8,899.0	4.40	321.60	8,896.5	123.0	-13.9	2.15	1.88	33.40	81.3	51.9
9,086.0	3.80	343.50	9,083.1	134.6	-20.2	0.89	-0.32	11.71	82.0	20.4
9,273.0	3.30	322.30	9,269.7	144.8	-25.2	0.75	-0.27	-11.34	57.9	46.5

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3304.0usft
MD Reference: KB = 25' @ 3304.0usft
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)	
9,461.0	3.00	328.20	9,457.4	153.3	-31.1	0.23	-0.16	3.14	52.1	40.8	
9,648.0	3.20	334.10	9,644.2	162.1	-36.0	0.20	0.11	3.16	45.9	35.7	
9,830.0	2.90	333.70	9,825.9	170.8	-40.2	0.17	-0.16	-0.22	36.0	36.0	
10,024.0	4.00	341.30	10,019.5	181.6	-44.6	0.61	0.57	3.92	28.8	31.6	
10,209.0	2.00	354.10	10,204.3	191.0	-47.0	1.13	-1.08	6.92	25.6	25.8	
10,396.0	0.80	24.20	10,391.2	195.4	-46.8	0.73	-0.64	16.10	30.9	11.2	
10,583.0	1.50	48.40	10,578.2	198.2	-44.4	0.45	0.37	12.94	29.2	-2.0	
10,770.0	1.00	88.40	10,765.1	199.9	-40.9	0.52	-0.27	21.39	17.6	-18.7	
10,958.0	2.10	89.70	10,953.1	199.9	-35.9	0.59	0.59	0.69	12.1	-19.0	
11,144.0	1.50	60.00	11,139.0	201.2	-30.3	0.59	-0.32	-15.97	14.5	-12.2	
11,331.0	0.80	20.20	11,326.0	203.6	-27.8	0.55	-0.37	-21.28	15.8	-1.7	
11,436.0	0.50	5.50	11,430.9	204.8	-27.5	0.32	-0.29	-14.00	14.5	2.2	
11,555.0	0.80	301.40	11,549.9	205.7	-28.1	0.62	0.25	-53.87	3.3	13.6	
11,648.0	6.10	180.40	11,642.8	201.1	-28.7	7.04	5.70	-130.11	-15.4	-4.7	
11,742.0	21.70	176.80	11,733.7	178.6	-27.8	16.61	16.60	-3.83	-18.5	-5.1	
11,836.0	36.70	182.60	11,815.6	132.9	-28.1	16.22	15.96	6.17	-28.2	-3.6	
11,883.0	45.80	185.40	11,850.9	102.1	-30.3	19.75	19.36	5.96	-35.6	-4.4	
11,930.0	53.70	184.40	11,881.2	66.4	-33.4	16.89	16.81	-2.13	-44.8	-7.9	
11,977.0	57.50	183.20	11,907.8	27.7	-35.9	8.35	8.09	-2.55	-53.7	-11.3	
12,024.0	59.70	181.70	11,932.3	-12.4	-37.6	5.42	4.68	-3.19	-59.9	-14.2	
12,071.0	65.20	178.70	11,954.0	-54.0	-37.7	13.00	11.70	-6.38	-63.8	-16.4	
12,077.5	66.14	178.44	11,956.7	-60.0	-37.6	14.90	14.45	-3.99	-64.4	-16.4	
HL Crossing, MD:12077.5', TVD:11956.7', N/S:-60.0', E/W:-37.6', INC:66.14											
12,118.0	72.00	176.90	11,971.1	-97.7	-36.1	14.90	14.47	-3.80	-67.8	-15.7	
12,165.0	74.60	176.00	11,984.6	-142.7	-33.3	5.83	5.53	-1.91	-70.4	-13.2	
12,211.0	76.50	176.30	11,996.1	-187.1	-30.3	4.18	4.13	0.65	-69.6	-10.0	
12,258.0	80.00	176.10	12,005.7	-233.0	-27.2	7.46	7.45	-0.43	-65.6	-6.9	

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3304.0usft
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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)
12,304.0	85.00	175.00	12,011.7	-278.5	-23.7	11.12	10.87	-2.39	-60.6	-3.4
12,398.0	86.30	174.00	12,018.8	-371.8	-14.7	1.74	1.38	-1.06	-54.3	4.9
12,429.0	85.30	174.50	12,021.1	-402.5	-11.6	3.60	-3.23	1.61	-52.3	7.7
12,461.0	82.60	175.00	12,024.5	-434.2	-8.7	8.58	-8.44	1.56	-49.3	10.5
12,493.0	79.20	175.60	12,029.5	-465.7	-6.1	10.79	-10.62	1.87	-44.5	12.9
12,524.0	76.00	177.90	12,036.2	-495.9	-4.4	12.61	-10.32	7.42	-38.0	14.7
12,555.0	75.10	179.00	12,043.9	-525.9	-3.6	4.50	-2.90	3.55	-30.5	15.3
12,586.0	75.60	179.40	12,051.8	-555.9	-3.1	2.04	1.61	1.29	-22.9	15.5
12,617.0	75.80	179.80	12,059.4	-586.0	-2.9	1.41	0.65	1.29	-15.5	15.4
12,648.0	78.50	180.00	12,066.3	-616.2	-2.9	8.73	8.71	0.65	-9.0	15.1
12,679.0	82.90	181.40	12,071.3	-646.8	-3.3	14.88	14.19	4.52	-4.3	14.4
12,734.0	88.20	183.80	12,075.6	-701.5	-5.8	10.57	9.64	4.36	-0.6	11.5
12,780.0	89.10	183.20	12,076.7	-747.4	-8.6	2.35	1.96	-1.30	0.0	8.4
12,874.0	89.00	182.80	12,078.2	-841.3	-13.5	0.44	-0.11	-0.43	0.7	2.8
12,968.0	88.00	182.30	12,080.7	-935.1	-17.7	1.19	-1.06	-0.53	2.3	-2.1
13,032.0	88.00	182.30	12,082.9	-999.1	-20.2	0.00	0.00	0.00	3.9	-5.1
13,062.0	88.00	182.10	12,084.0	-1,029.0	-21.4	0.67	0.00	-0.67	4.7	-6.5
13,155.0	88.40	181.40	12,086.9	-1,121.9	-24.2	0.87	0.43	-0.75	7.0	-10.0
13,248.0	88.30	180.50	12,089.6	-1,214.9	-25.8	0.97	-0.11	-0.97	9.0	-12.2
13,342.0	90.00	179.80	12,091.0	-1,308.9	-26.0	1.96	1.81	-0.74	9.8	-13.1
13,436.0	89.00	178.80	12,091.8	-1,402.8	-24.9	1.50	-1.06	-1.06	10.0	-12.6
13,530.0	91.70	179.50	12,091.2	-1,496.8	-23.5	2.97	2.87	0.74	8.7	-11.9
13,623.0	91.40	179.80	12,088.7	-1,589.8	-22.9	0.46	-0.32	0.32	5.6	-12.0
13,718.0	90.80	179.70	12,086.9	-1,684.8	-22.5	0.64	-0.63	-0.11	3.1	-12.3
13,812.0	91.20	179.80	12,085.2	-1,778.8	-22.1	0.44	0.43	0.11	0.8	-12.5
13,906.0	91.10	179.90	12,083.3	-1,872.7	-21.8	0.15	-0.11	0.11	-1.8	-13.0
13,999.0	89.20	179.90	12,083.1	-1,965.7	-21.7	2.04	-2.04	0.00	-2.7	-13.5

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft
Well:	#704H	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)
14,093.0	88.50	179.70	12,085.0	-2,059.7	-21.3	0.77	-0.74	-0.21	-1.7	-13.8
14,187.0	87.90	179.00	12,087.9	-2,153.7	-20.3	0.98	-0.64	-0.74	0.3	-13.4
14,281.0	89.30	179.20	12,090.2	-2,247.6	-18.8	1.50	1.49	0.21	1.5	-12.6
14,374.0	88.70	179.20	12,091.9	-2,340.6	-17.5	0.65	-0.65	0.00	2.1	-12.0
14,468.0	88.60	179.10	12,094.1	-2,434.6	-16.1	0.15	-0.11	-0.11	3.3	-11.3
14,562.0	88.00	178.60	12,096.9	-2,528.5	-14.2	0.83	-0.64	-0.53	5.1	-10.1
14,655.0	88.50	178.50	12,099.7	-2,621.4	-11.9	0.55	0.54	-0.11	6.9	-8.4
14,748.0	88.90	179.70	12,101.8	-2,714.4	-10.4	1.36	0.43	1.29	8.0	-7.6
14,841.0	90.20	179.50	12,102.5	-2,807.4	-9.8	1.41	1.40	-0.22	7.7	-7.6
14,935.0	89.60	179.20	12,102.7	-2,901.4	-8.7	0.71	-0.64	-0.32	6.8	-7.2
15,028.0	89.00	179.00	12,103.8	-2,994.4	-7.2	0.68	-0.65	-0.22	6.9	-6.4
15,122.0	90.20	178.40	12,104.5	-3,088.3	-5.1	1.43	1.28	-0.64	6.0	-4.9
15,216.0	89.20	178.00	12,105.0	-3,182.3	-2.1	1.15	-1.06	-0.43	4.8	-2.7
15,310.0	89.00	177.40	12,106.5	-3,276.2	1.6	0.67	-0.21	-0.64	4.5	0.4
15,404.0	87.80	176.80	12,109.1	-3,370.0	6.4	1.43	-1.28	-0.64	5.5	4.5
15,497.0	89.30	178.30	12,111.4	-3,462.9	10.4	2.28	1.61	1.61	6.1	7.8
15,590.0	88.90	177.80	12,112.9	-3,555.8	13.5	0.69	-0.43	-0.54	5.9	10.3
15,684.0	90.20	177.90	12,113.6	-3,649.8	17.0	1.39	1.38	0.11	5.0	13.2
15,778.0	89.30	177.00	12,114.0	-3,743.7	21.2	1.35	-0.96	-0.96	3.7	16.7
15,872.0	89.10	178.00	12,115.4	-3,837.6	25.3	1.08	-0.21	1.06	3.3	20.1
15,966.0	87.00	177.50	12,118.6	-3,931.4	29.0	2.30	-2.23	-0.53	4.8	23.1
16,060.0	88.30	177.80	12,122.4	-4,025.3	32.9	1.42	1.38	0.32	6.9	26.3
16,153.0	90.70	178.60	12,123.2	-4,118.2	35.8	2.72	2.58	0.86	5.8	28.6
16,247.0	91.50	178.80	12,121.4	-4,212.2	37.9	0.88	0.85	0.21	2.1	30.0
16,340.0	90.60	180.40	12,119.7	-4,305.2	38.6	1.97	-0.97	1.72	-1.5	30.0
16,434.0	90.20	180.80	12,119.1	-4,399.2	37.6	0.60	-0.43	0.43	-4.1	28.4
16,528.0	87.70	180.70	12,120.8	-4,493.1	36.4	2.66	-2.66	-0.11	-4.2	26.5

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #704H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #704H
TVD Reference: KB = 25' @ 3304.0usft
MD Reference: KB = 25' @ 3304.0usft
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)
16,621.0	85.80	180.60	12,126.1	-4,586.0	35.3	2.05	-2.04	-0.11	-0.8	24.7
16,715.0	85.10	179.80	12,133.5	-4,679.7	35.0	1.13	-0.74	-0.85	4.7	23.7
16,720.4	85.16	179.79	12,134.0	-4,685.0	35.0	1.15	1.13	-0.19	5.0	23.7
HL Crossing, MD:16720.4', TVD:12134.0',N/S:-4685.0', E/W:35.0', INC:85.16										
16,768.0	85.70	179.70	12,137.8	-4,732.5	35.2	1.15	1.13	-0.19	7.8	23.6
Final MWD Survey (MD=16768.0')										
16,832.0	85.70	179.70	12,142.6	-4,796.3	35.5	0.00	0.00	0.00	11.7	25.6
Final Projection to Bit (MD=16832.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,077.5	11,956.7	-60.0	-37.6	HL Crossing, MD:12077.5', TVD:11956.7',N/S:-60.0', E/W:-37.6', INC:66.14
16,720.4	12,134.0	-4,685.0	35.0	HL Crossing, MD:16720.4', TVD:12134.0',N/S:-4685.0', E/W:35.0', INC:85.16
16,768.0	12,137.8	-4,732.5	35.2	Final MWD Survey (MD=16768.0')
16,832.0	12,142.6	-4,796.3	35.5	Final Projection to Bit (MD=16832.0')

Checked By: _____ Approved By: _____ Date: _____