

HOBBS OCD

SEP 13 2017

RECEIVED



Lea County, NM (NAD 83 NME)

Braswell 16 State #705H

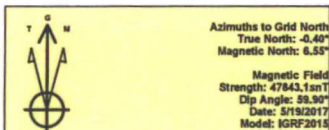
Plan #2

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: #705H

Ground Level: 3279.0
KB = 25' @ 3304.0suff
Northing: 382755.00
Easting: 775251.00
Latitude: 32° 3' 0.000 N
Longitude: 103° 34' 42.036 W



To convert a Magnetic Direction to a Grid Direction, Add 6.53°
To convert a Magnetic Direction to a True Direction, Add 6.93° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

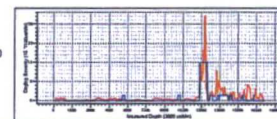
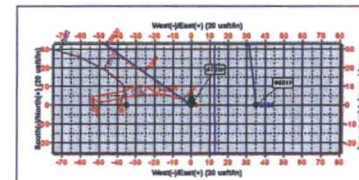
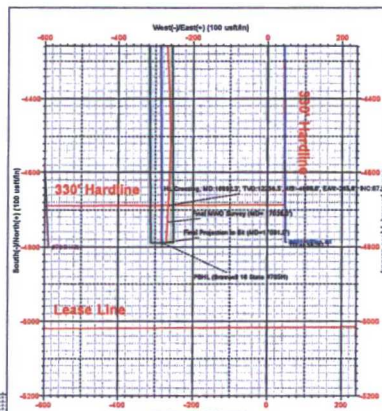
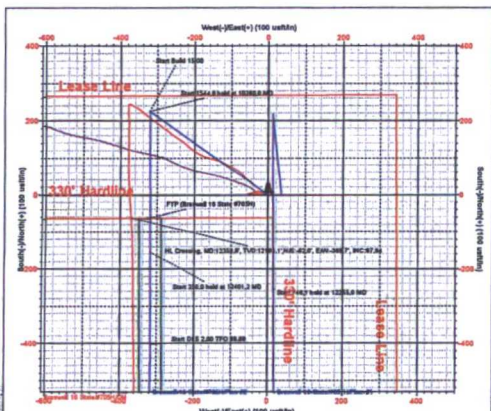
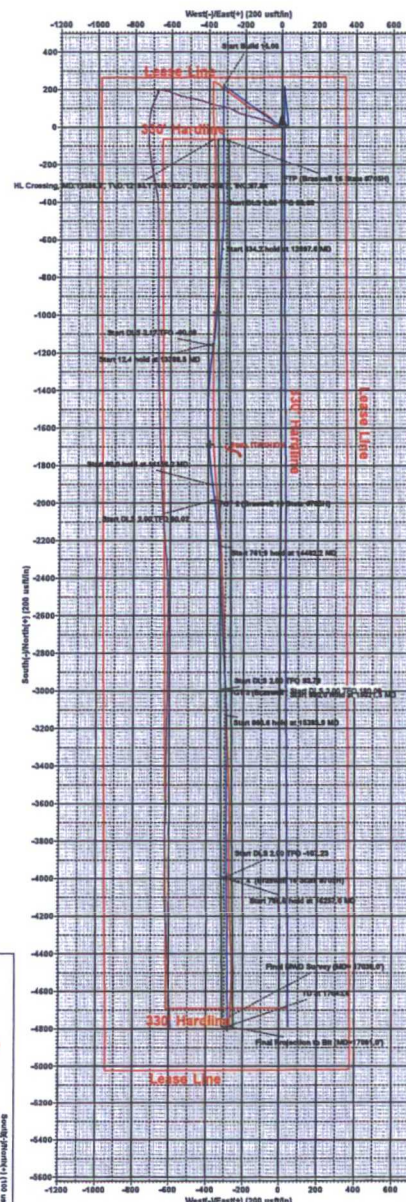
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5500.0	0.00	0.00	5500.0	0.0	0.0	0.00	0.00	0.0	
3	5750.0	5.00	305.00	5749.7	6.3	-8.9	2.00	305.00	-5.7	
4	10010.0	5.00	305.00	9993.5	219.2	-313.1	0.00	0.00	-200.4	
5	10260.0	0.00	0.00	10243.2	225.5	-322.0	2.00	180.00	-206.1	
6	11804.8	0.00	0.00	11788.0	225.5	-322.0	0.00	0.00	-206.1	
7	12401.2	89.46	179.56	12170.0	-152.9	-319.1	15.00	179.56	171.5	
8	12651.2	89.46	179.56	12172.3	-402.9	-317.2	0.00	0.00	420.9	
9	12897.6	89.56	184.49	12174.4	-649.0	-325.9	2.00	88.88	667.1	
10	13231.7	89.56	184.49	12177.0	-982.1	-352.0	0.00	0.00	1001.2	TGT 1 (Braswell 16 State #705H)
11	13399.5	89.61	188.12	12178.2	-1148.8	-370.4	2.17	89.18	1168.7	
12	13411.9	89.61	188.12	12178.3	-1161.1	-372.2	0.00	0.00	1181.1	
13	14156.2	89.60	172.00	12183.4	-1902.9	-372.9	2.17	-90.09	1921.6	
14	14235.2	89.60	172.00	12184.0	-1982.1	-361.8	0.00	0.00	2000.0	TGT 2 (Braswell 16 State #705H)
15	14482.2	89.60	176.92	12185.7	-2226.9	-336.1	2.00	90.02	2243.0	
16	15244.1	89.60	176.92	12191.0	-2987.7	-297.1	0.00	0.00	3000.0	TGT 3 (Braswell 16 State #705H)
17	15385.9	89.42	179.75	12192.2	-3129.4	-293.0	2.00	93.79	3141.2	
18	16246.4	89.42	179.75	12201.0	-3989.9	-289.3	0.00	0.00	4000.0	TGT 4 (Braswell 16 State #705H)
19	16257.0	89.35	179.55	12201.1	-4000.4	-289.2	2.00	-107.23	4010.5	
20	17043.6	89.35	179.55	12210.0	-4787.0	-283.0	0.00	0.00	4795.4	PBHL (Braswell 16 State #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
FTP (Braswell 16 State #705H)	12170.0	-42.0	-318.0	382693.00	774932.00
TGT 1 (Braswell 16 State #705H)	12177.0	-82.1	-352.0	381772.80	774898.00
AC TGT (Braswell 16 State #705H)	12182.4	-168.9	-387.4	381070.00	774863.00
TGT 2 (Braswell 16 State #705H)	12184.0	-198.1	-361.8	380772.80	774869.30
TGT 3 (Braswell 16 State #705H)	12191.0	-298.7	-297.1	379767.30	774953.87
TGT 4 (Braswell 16 State #705H)	12201.0	-398.9	-289.3	378765.10	774961.74
PBHL (Braswell 16 State #705H)	12210.0	-478.0	-283.0	377965.00	774968.00



Lea County, NM (NAD 83 NME)
Braswell 16 State #705H
Plan #2
10/10/2017

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Braswell 16 State

#705H

OH

Design: OH

PVA Report

10 July, 2017

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

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

Well	#705H		
Well Position	+N/-S	0.0 usft	Northing: 382,755.00 usft
	+E/-W	0.0 usft	Easting: 775,251.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 3' 0.090 N
		Longitude:	103° 34' 42.038 W
		Ground Level:	3,279.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	5/19/2017	6.95
			59.90
			47,843.11373324

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 (°)
			183.38

Survey Program	Date	7/10/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
187.0	17,091.0	Intrepid MWD (OH)	MWD	MWD - Standard

EOG Resources

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 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3304.0usft
 MD Reference: KB = 25' @ 3304.0usft
 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	
187.0	0.90	300.00	187.0	0.7	-1.3	0.48	0.48	0.00	-1.5	0.0	
216.0	0.60	317.00	216.0	1.0	-1.6	1.28	-1.03	58.62	-1.8	0.5	
245.0	0.80	318.00	245.0	1.2	-1.8	0.69	0.69	3.45	-2.1	0.5	
274.0	0.60	318.00	274.0	1.5	-2.0	0.69	-0.69	0.00	-2.5	0.5	
364.0	0.80	318.00	364.0	2.3	-2.8	0.22	0.22	0.00	-3.6	0.5	
395.0	0.70	300.00	395.0	2.6	-3.1	0.82	-0.32	-58.06	-4.0	-0.7	
427.0	0.60	299.70	427.0	2.7	-3.4	0.31	-0.31	-0.94	-4.3	-0.7	
458.0	0.60	286.00	458.0	2.9	-3.7	0.46	0.00	-44.19	-4.4	-1.7	
511.0	0.60	310.00	511.0	3.1	-4.2	0.47	0.00	45.28	-5.2	0.3	
542.0	0.60	282.00	542.0	3.3	-4.5	0.94	0.00	-90.32	-5.0	-2.3	
573.0	0.30	301.00	573.0	3.3	-4.7	1.07	-0.97	61.29	-5.7	-0.4	
604.0	0.50	315.00	604.0	3.5	-4.9	0.71	0.65	45.16	-5.9	1.0	
635.0	0.40	264.00	635.0	3.6	-5.1	1.28	-0.32	-164.52	-4.7	-4.1	
697.0	0.60	291.00	697.0	3.6	-5.6	0.49	0.32	43.55	-6.5	-1.4	
760.0	0.20	256.00	760.0	3.7	-6.0	0.72	-0.63	-55.56	-4.9	-5.1	
791.0	0.40	294.00	791.0	3.8	-6.1	0.88	0.65	122.58	-7.2	-0.9	
822.0	0.20	251.00	822.0	3.8	-6.3	0.93	-0.65	-138.71	-4.7	-5.6	
854.0	0.40	237.00	854.0	3.7	-6.4	0.66	0.62	-43.75	-3.4	-6.6	
886.0	0.40	239.00	886.0	3.6	-6.6	0.04	0.00	6.25	-3.8	-6.5	
948.0	0.20	313.00	948.0	3.6	-6.9	0.64	-0.32	119.35	-7.5	2.1	
1,017.0	0.20	302.00	1,017.0	3.7	-7.1	0.06	0.00	-15.94	-8.0	0.6	
1,224.0	0.40	269.90	1,224.0	3.9	-8.1	0.12	0.10	-15.51	-8.1	-3.9	
1,409.0	0.60	302.00	1,408.9	4.4	-9.6	0.18	0.11	17.35	-10.5	1.3	
1,595.0	0.70	292.60	1,594.9	5.4	-11.5	0.08	0.05	-5.05	-12.6	-0.5	
1,782.0	1.30	272.20	1,781.9	5.9	-14.6	0.37	0.32	-10.91	-14.8	-5.3	
1,970.0	1.70	268.40	1,969.8	5.9	-19.6	0.22	0.21	-2.02	-19.4	-6.4	

EOG Resources

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Braswell 16 State
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3304.0usft
 MD Reference: KB = 25' @ 3304.0usft
 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)	
2,157.0	1.80	267.10	2,156.8	5.7	-25.3	0.06	0.05	-0.70	-24.9	-6.9	
2,346.0	2.10	263.40	2,345.6	5.1	-31.7	0.17	0.16	-1.96	-30.9	-8.7	
2,533.0	2.10	256.90	2,532.5	3.9	-38.4	0.13	0.00	-3.48	-36.5	-12.6	
2,721.0	1.10	257.70	2,720.4	2.8	-43.5	0.53	-0.53	0.43	-41.9	-12.0	
2,909.0	1.00	256.70	2,908.4	2.0	-46.9	0.05	-0.05	-0.53	-45.2	-12.7	
3,096.0	1.00	280.70	3,095.4	1.9	-50.1	0.22	0.00	12.83	-49.6	7.4	
3,284.0	1.00	311.60	3,283.4	3.3	-52.9	0.28	0.00	16.44	-41.8	32.6	
3,471.0	0.50	69.00	3,470.3	4.7	-53.4	0.70	-0.27	62.78	48.1	23.5	
3,658.0	2.90	79.90	3,657.3	5.8	-48.0	1.29	1.28	5.83	46.2	14.2	
3,846.0	1.80	83.90	3,845.1	7.0	-40.3	0.59	-0.59	2.13	39.4	11.2	
4,032.0	1.00	64.00	4,031.0	8.0	-36.0	0.50	-0.43	-10.70	28.8	23.0	
4,218.0	1.30	65.10	4,217.0	9.6	-32.6	0.16	0.16	0.59	25.5	22.4	
4,405.0	2.00	82.40	4,403.9	10.9	-27.4	0.46	0.37	9.25	25.7	14.5	
4,592.0	1.40	145.60	4,590.9	9.5	-22.9	0.99	-0.32	33.80	20.8	-13.6	
4,780.0	1.50	105.40	4,778.8	6.9	-19.2	0.53	0.05	-21.38	20.4	1.6	
4,967.0	0.90	351.60	4,965.8	7.7	-17.1	1.09	-0.32	-60.86	-10.1	15.8	
5,155.0	1.00	352.10	5,153.7	10.8	-17.5	0.05	0.05	0.27	-13.1	15.9	
5,342.0	2.10	304.00	5,340.7	14.3	-20.6	0.86	0.59	-25.72	-25.1	-0.4	
5,530.0	2.20	303.50	5,528.6	18.3	-26.5	0.05	0.05	-0.27	-32.0	-0.6	
5,718.0	3.30	305.10	5,716.3	23.4	-33.9	0.59	0.59	0.85	-32.9	0.4	
5,905.0	3.20	305.90	5,903.0	29.5	-42.5	0.06	-0.05	0.43	-27.3	0.6	
6,092.0	2.90	311.90	6,089.8	35.7	-50.3	0.23	-0.16	3.21	-20.9	2.1	
6,279.0	2.80	315.40	6,276.5	42.2	-57.0	0.11	-0.05	1.87	-13.9	0.7	
6,466.0	2.80	318.30	6,463.3	48.8	-63.3	0.08	0.00	1.55	-7.1	-2.1	
6,653.0	3.50	315.00	6,650.0	56.3	-70.3	0.39	0.37	-1.76	-1.2	-5.6	
6,842.0	4.30	306.00	6,838.6	64.5	-80.1	0.53	0.42	-4.76	3.4	-6.9	
7,029.0	3.90	298.30	7,025.1	71.6	-91.4	0.36	-0.21	-4.12	7.2	-5.5	

EOG Resources

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Braswell 16 State
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3304.0usft
 MD Reference: KB = 25' @ 3304.0usft
 North Reference: Grid
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 Database: EDM 5000.14 Single User Db

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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)
7,216.0	4.00	299.90	7,211.7	77.9	-102.7	0.08	0.05	0.86	10.4	-4.0
7,403.0	3.60	296.90	7,398.3	83.8	-113.6	0.24	-0.21	-1.60	14.3	-1.5
7,590.0	3.10	295.50	7,584.9	88.6	-123.4	0.27	-0.27	-0.75	19.5	1.4
7,777.0	3.10	291.50	7,771.7	92.7	-132.6	0.12	0.00	-2.14	25.2	6.2
7,965.0	3.00	286.50	7,959.4	95.9	-142.1	0.15	-0.05	-2.66	30.1	13.1
8,154.0	4.50	284.80	8,148.0	99.2	-154.0	0.80	0.79	-0.90	32.8	19.5
8,341.0	6.70	287.70	8,334.1	104.4	-171.5	1.19	1.18	1.55	31.1	23.0
8,529.0	6.80	300.90	8,520.8	113.5	-191.5	0.83	0.05	7.02	30.0	19.1
8,716.0	6.20	311.60	8,706.6	125.9	-208.5	0.72	-0.32	5.72	28.2	13.4
8,904.0	5.50	308.70	8,893.6	138.2	-223.1	0.40	-0.37	-1.54	24.7	13.2
9,091.0	4.30	303.40	9,079.9	147.7	-236.0	0.69	-0.64	-2.83	23.7	15.0
9,279.0	5.50	304.20	9,267.2	156.7	-249.3	0.64	0.64	0.43	24.3	15.0
9,466.0	6.70	306.70	9,453.2	168.2	-265.5	0.66	0.64	1.34	21.3	13.9
9,655.0	5.90	306.20	9,641.0	180.5	-282.2	0.42	-0.42	-0.26	16.9	13.6
9,842.0	4.90	307.80	9,827.2	191.1	-296.2	0.54	-0.53	0.86	15.9	12.6
10,027.0	3.70	303.20	10,011.7	199.2	-307.5	0.67	-0.65	-2.49	17.1	13.7
10,214.0	4.40	305.10	10,198.2	206.6	-318.4	0.38	0.37	1.02	13.4	13.3
10,399.0	4.00	307.30	10,382.7	214.6	-329.3	0.23	-0.22	1.19	0.7	13.1
10,586.0	4.70	314.30	10,569.2	223.9	-340.0	0.47	0.37	3.74	-11.8	13.7
10,774.0	3.70	302.00	10,756.7	232.5	-350.7	0.71	-0.53	-6.54	-28.0	9.2
10,960.0	2.30	294.30	10,942.4	237.3	-359.1	0.78	-0.75	-4.14	-38.7	4.6
11,147.0	1.80	309.80	11,129.3	240.7	-364.8	0.40	-0.27	8.29	-42.6	15.7
11,334.0	2.20	293.90	11,316.2	244.0	-370.4	0.36	0.21	-8.50	-51.7	2.6
11,463.0	1.60	295.20	11,445.1	245.8	-374.3	0.47	-0.47	1.01	-55.9	3.9
11,650.0	2.10	196.90	11,632.0	243.6	-377.6	1.51	0.27	-52.57	1.2	-58.5
11,838.0	5.30	177.90	11,819.6	231.6	-378.3	1.80	1.70	-10.11	9.5	-56.0
11,885.0	9.80	175.00	11,866.2	225.5	-377.9	9.61	9.57	-6.17	12.7	-55.0

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Survey

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11,932.0	13.80	175.70	11,912.2	215.9	-377.1	8.52	8.51	1.49	14.6	-54.3
11,979.0	20.40	179.50	11,957.1	202.1	-376.6	14.24	14.04	8.09	14.9	-54.8
12,026.0	24.10	181.70	12,000.6	184.3	-376.8	8.07	7.87	4.68	18.0	-55.8
12,120.0	34.50	180.10	12,082.5	138.4	-377.4	11.09	11.06	-1.70	34.2	-56.6
12,151.0	40.70	180.40	12,107.0	119.5	-377.5	20.01	20.00	0.97	39.3	-57.0
12,182.0	46.00	179.30	12,129.6	98.2	-377.5	17.27	17.10	-3.55	44.3	-56.5
12,213.0	50.90	178.60	12,150.1	75.0	-377.0	15.90	15.81	-2.26	48.4	-55.9
12,234.0	57.20	178.10	12,162.4	58.0	-376.5	30.06	30.00	-2.38	50.5	-55.2
12,273.0	70.10	177.40	12,179.7	23.2	-375.2	33.12	33.08	-1.79	49.9	-54.1
12,290.0	74.50	176.20	12,184.9	7.0	-374.3	26.74	25.88	-7.06	48.3	-53.2
12,311.0	81.50	175.70	12,189.2	-13.5	-372.8	33.41	33.33	-2.38	44.5	-52.3
12,343.0	87.30	174.80	12,192.4	-45.2	-370.2	18.34	18.12	-2.81	37.5	-50.2
12,359.9	87.84	175.50	12,193.1	-62.0	-368.7	5.21	3.17	4.13	34.0	-49.0
HL Crossing, MD:12359.9', TVD:12193.1', N/S:-62.0', E/W:-368.7', INC:87.84										
12,406.0	89.30	177.40	12,194.2	-108.0	-365.9	5.21	3.18	4.13	27.2	-46.5
12,500.0	90.50	179.60	12,194.4	-202.0	-363.4	2.67	1.28	2.34	24.0	-44.7
12,593.0	90.20	179.30	12,193.8	-295.0	-362.5	0.46	-0.32	-0.32	22.5	-44.5
12,687.0	91.30	179.30	12,192.6	-388.9	-361.4	1.17	1.17	0.00	20.4	-44.1
12,780.0	88.40	178.20	12,192.8	-481.9	-359.4	3.34	-3.12	-1.18	19.9	-41.7
12,874.0	90.40	181.20	12,193.8	-575.9	-358.9	3.84	2.13	3.19	20.0	-37.7
12,968.0	88.90	180.00	12,194.4	-669.9	-359.8	2.04	-1.60	-1.28	19.9	-32.2
13,062.0	89.70	178.60	12,195.5	-763.8	-358.7	1.72	0.85	-1.49	20.3	-23.7
13,155.0	90.00	180.60	12,195.8	-856.8	-358.0	2.17	0.32	2.15	19.8	-15.8
13,186.0	90.20	181.70	12,195.7	-887.8	-358.7	3.61	0.85	3.55	19.5	-14.0
13,217.0	92.40	181.70	12,195.0	-918.8	-359.6	7.10	7.10	0.00	18.5	-12.5
13,248.0	96.00	182.30	12,192.8	-949.7	-360.7	11.77	11.61	1.94	16.0	-11.2
13,342.0	93.30	183.00	12,185.1	-1,043.3	-365.0	2.97	-2.87	0.74	7.7	-7.5

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
13,436.0	86.00	181.40	12,185.7	-1,137.1	-368.6	7.95	-7.77	-1.70	7.6	0.2
13,530.0	90.80	180.30	12,188.3	-1,231.1	-370.0	5.24	5.11	-1.17	9.6	11.1
13,624.0	87.30	179.30	12,189.9	-1,325.0	-369.7	3.87	-3.72	-1.06	10.4	20.6
13,718.0	91.90	181.20	12,190.6	-1,419.0	-370.1	5.29	4.89	2.02	10.5	26.0
13,812.0	93.80	180.30	12,185.9	-1,512.9	-371.3	2.24	2.02	-0.96	5.1	27.3
13,906.0	88.80	179.50	12,183.7	-1,606.8	-371.1	5.39	-5.32	-0.85	2.4	26.5
13,999.0	88.20	177.30	12,186.2	-1,699.8	-368.5	2.45	-0.65	-2.37	4.2	24.9
14,093.0	88.60	175.40	12,188.8	-1,793.5	-362.6	2.06	0.43	-2.02	6.1	23.3
14,187.0	90.40	175.20	12,189.6	-1,887.2	-354.9	1.93	1.91	-0.21	6.3	20.0
14,281.0	89.80	175.90	12,189.5	-1,980.9	-347.6	0.98	-0.64	0.74	5.5	14.2
14,374.0	86.90	174.90	12,192.1	-2,073.6	-340.1	3.30	-3.12	-1.08	7.5	10.3
14,468.0	87.40	174.50	12,196.8	-2,167.0	-331.4	0.68	0.53	-0.43	11.5	10.4
14,562.0	90.40	175.90	12,198.6	-2,260.7	-323.6	3.52	3.19	1.49	12.7	12.6
14,655.0	88.30	178.00	12,199.7	-2,353.5	-318.6	3.19	-2.26	2.26	13.1	12.6
14,748.0	88.50	177.40	12,202.3	-2,446.4	-314.9	0.68	0.22	-0.65	15.0	11.3
14,841.0	89.10	177.80	12,204.2	-2,539.3	-311.0	0.78	0.65	0.43	16.3	10.2
14,935.0	89.60	178.40	12,205.3	-2,633.3	-307.9	0.83	0.53	0.64	16.7	8.3
15,029.0	90.50	179.20	12,205.2	-2,727.2	-305.9	1.28	0.96	0.85	16.0	5.2
15,122.0	87.80	178.40	12,206.6	-2,820.2	-304.0	3.03	-2.90	-0.86	16.7	2.2
15,216.0	87.60	177.40	12,210.4	-2,914.1	-300.5	1.08	-0.21	-1.06	19.9	0.6
15,310.0	88.60	177.30	12,213.5	-3,007.9	-296.2	1.07	1.06	-0.11	22.3	-0.1
15,404.0	89.80	177.80	12,214.8	-3,101.8	-292.2	1.38	1.28	0.53	22.8	1.1
15,497.0	85.90	177.80	12,218.3	-3,194.7	-288.6	4.19	-4.19	0.00	25.4	4.1
15,591.0	86.90	177.20	12,224.2	-3,288.4	-284.5	1.24	1.06	-0.64	30.3	7.8
15,685.0	86.80	177.10	12,229.3	-3,382.1	-279.9	0.15	-0.11	-0.11	34.5	12.1
15,778.0	91.80	180.30	12,230.5	-3,475.1	-277.7	6.38	5.38	3.44	34.7	13.8
15,872.0	87.40	177.00	12,231.1	-3,569.0	-275.5	5.85	-4.68	-3.51	34.4	15.6

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
15,966.0	90.50	180.10	12,232.9	-3,662.9	-273.2	4.66	3.30	3.30	35.2	17.5
16,060.0	90.20	180.60	12,232.3	-3,756.9	-273.7	0.62	-0.32	0.53	33.7	16.5
16,154.0	90.40	180.00	12,231.8	-3,850.9	-274.2	0.67	0.21	-0.64	32.2	15.6
16,246.0	91.20	179.80	12,230.5	-3,942.9	-274.1	0.90	0.87	-0.22	30.0	15.4
16,340.0	92.10	179.90	12,227.8	-4,036.9	-273.8	0.96	0.96	0.11	26.3	15.1
16,434.0	87.90	178.50	12,227.8	-4,130.8	-272.5	4.71	-4.47	-1.49	25.2	15.7
16,528.0	87.80	177.70	12,231.3	-4,224.7	-269.4	0.86	-0.11	-0.85	27.7	18.1
16,621.0	86.50	177.80	12,235.9	-4,317.5	-265.7	1.40	-1.40	0.11	31.2	21.0
16,715.0	86.10	177.50	12,242.0	-4,411.2	-261.9	0.53	-0.43	-0.32	36.2	24.1
16,809.0	86.80	180.00	12,247.8	-4,505.0	-259.8	2.76	0.74	2.66	41.0	25.4
16,903.0	87.20	182.40	12,252.8	-4,598.9	-261.8	2.58	0.43	2.55	44.9	22.6
16,992.3	87.97	182.78	12,256.5	-4,688.0	-265.8	0.96	0.86	0.43	47.7	17.9
HL Crossing, MD:16992.3', TVD:12256.5', N/S:-4688.0', E/W:-265.8', INC:87.97										
16,996.0	88.00	182.80	12,256.7	-4,691.7	-266.0	0.96	0.86	0.43	47.7	17.7
17,038.0	88.20	182.30	12,258.0	-4,733.6	-267.9	1.28	0.48	-1.19	48.7	15.5
Final MWD Survey (MD= 17038.0')										
17,091.0	88.20	182.30	12,259.7	-4,786.6	-270.0	0.00	0.00	0.00	49.7	12.9
Final Projection to Bit (MD=17091.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,359.9	12,193.1	-62.0	-368.7	HL Crossing, MD:12359.9', TVD:12193.1', N/S:-62.0', E/W:-368.7', INC:87.84
16,992.3	12,256.5	-4,688.0	-265.8	HL Crossing, MD:16992.3', TVD:12256.5', N/S:-4688.0', E/W:-265.8', INC:87.97
17,038.0	12,258.0	-4,733.6	-267.9	Final MWD Survey (MD= 17038.0')
17,091.0	12,259.7	-4,786.6	-270.0	Final Projection to Bit (MD=17091.0')

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3304.0usft
MD Reference: KB = 25' @ 3304.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Checked By: _____ Approved By: _____ Date: _____