

HOBBS OCD
SEP 13 2017
RECEIVED



Lea County, NM (NAD 83 NME)

Braswell 16 State #706H

H&P 642

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: #706H

Ground Level: 3279.0

KB = 25' @ 3304.0usft (H&P 642)

Eastings: 32755.00

775216.00

32° 3' 0.093 N

103° 34' 42.445 W

Longitude

103° 34' 42.445 W

SECTION DETAILS

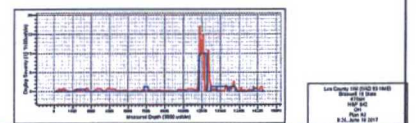
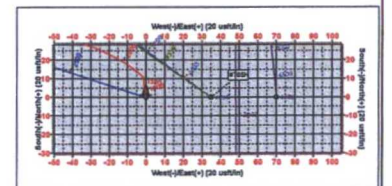
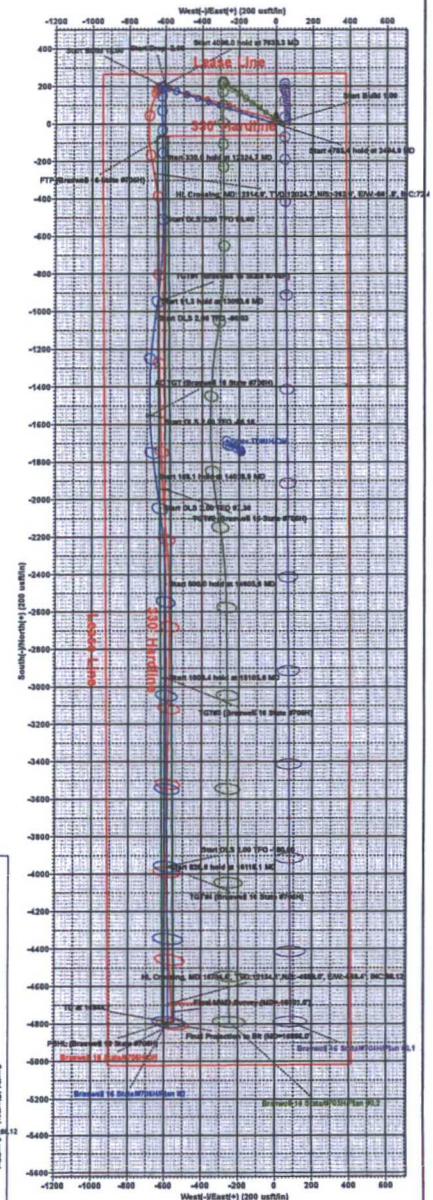
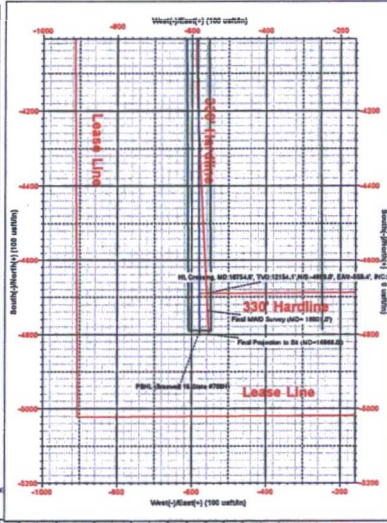
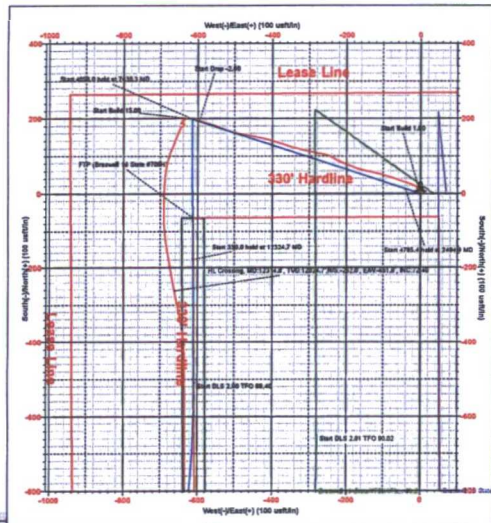
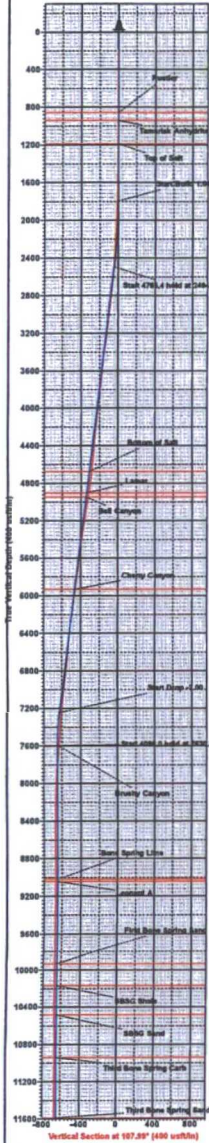
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1795.0	0.00	0.00	1795.0	0.0	0.0	0.00	0.00	0.0	
3	2494.9	7.00	287.99	2493.2	13.2	-40.6	1.00	287.99	-8.2	
4	7280.3	7.00	287.99	7242.9	193.3	-595.2	0.00	0.00	-120.6	
5	7630.3	0.00	0.00	7592.0	199.9	-615.5	2.00	180.00	-124.7	
6	11728.3	0.00	0.00	11690.0	199.9	-615.5	0.00	0.00	-124.7	
7	12324.7	89.47	179.57	12072.0	-178.5	-612.7	15.00	179.57	250.6	
8	12854.7	89.47	179.57	12075.0	-508.5	-610.2	0.00	0.00	577.9	
9	13093.6	89.57	188.35	12078.7	-945.8	-640.4	2.00	89.40	1015.8	
10	13184.9	89.57	188.35	12079.4	-1036.2	-653.7	0.00	0.00	1107.1	
11	13702.2	89.57	178.00	12083.3	-1552.0	-682.3	2.00	-90.03	1622.6	AC TGT (Braswell 16 State #706H)
12	14028.9	90.01	171.48	12084.5	-1877.1	-652.4	2.00	-86.16	1941.8	
13	14197.9	90.01	171.48	12084.5	-2044.3	-627.3	0.00	0.00	2104.7	
14	14605.6	88.98	179.57	12088.1	-2450.4	-595.6	2.00	97.30	2504.1	
15	15105.6	88.98	179.57	12097.0	-2950.3	-591.8	0.00	0.00	3000.0	TGT#3 (Braswell 16 State #706H)
16	16114.0	88.98	179.57	12115.0	-3958.5	-584.2	0.00	0.00	4000.0	TGT#4 (Braswell 16 State #706H)
17	16118.1	88.98	179.57	12115.1	-3962.6	-584.2	2.00	-180.00	4004.0	
18	16944.7	88.98	179.57	12131.0	-4789.0	-578.0	0.00	0.00	4823.8	PBHL (Braswell 16 State #706H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Eastings
FTP (Braswell 16 State #706H)	12072.0	-64.0	-613.0	382691.00	774603.00
TGT#1 (Braswell 16 State #706H)	12079.5	-634.0	-656.3	381821.00	774609.07
AC TGT (Braswell 16 State #706H)	12083.3	-1552.0	-682.3	381203.00	774533.70
TGT#2 (Braswell 16 State #706H)	12086.0	-1942.2	-699.4	380812.80	774616.83
TGT#3 (Braswell 16 State #706H)	12097.0	-2950.3	-691.8	379854.70	774624.30
TGT#4 (Braswell 16 State #706H)	12115.0	-3958.5	-684.2	378796.50	774631.77
PBHL (Braswell 16 State #706H)	12131.0	-4789.0	-578.0	377966.00	774638.00



Lea County, NM (NAD 83 NME)
Braswell 16 State #706H
H&P 642
Plan #2
SEP 13 2017

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Braswell 16 State

#706H

OH

Design: OH

PVA Report

19 June, 2017

HOBS OCD
SEP 13 2017
RECEIVED

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3304.0usft (H&P 642)
Site:	Braswell 16 State	MD Reference:	KB = 25' @ 3304.0usft (H&P 642)
Well:	#706H	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	#706H					
Well Position	+N/-S	0.0 usft	Northing:	382,755.00 usft	Latitude:	32° 3' 0.093 N
	+E/-W	0.0 usft	Easting:	775,216.00 usft	Longitude:	103° 34' 42.445 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,279.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/7/2017	6.95	59.90	47,837.76068074

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	186.88	

Survey Program		Date 6/19/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
107.0	16,866.0	Intrepid MWD (OH)	MWD	MWD - Standard

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
MD Reference: KB = 25' @ 3304.0usft (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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
107.0	0.20	18.00	107.0	0.2	0.1	0.19	0.19	0.00	-0.2	0.0	
129.0	0.20	18.00	129.0	0.3	0.1	0.00	0.00	0.00	-0.3	0.0	
188.0	0.40	342.00	188.0	0.5	0.0	0.45	0.34	-61.02	-0.5	-0.2	
217.0	0.60	348.00	217.0	0.8	0.0	0.71	0.69	20.69	-0.8	-0.2	
305.0	0.40	327.00	305.0	1.5	-0.3	0.30	-0.23	-23.86	-1.4	-0.6	
334.0	0.30	336.00	334.0	1.7	-0.4	0.39	-0.34	31.03	-1.7	-0.3	
365.0	0.50	15.00	365.0	1.9	-0.4	1.05	0.65	125.81	-1.7	0.8	
396.0	0.50	349.00	396.0	2.1	-0.4	0.73	0.00	-83.87	-2.1	-0.1	
428.0	0.10	35.00	428.0	2.3	-0.4	1.36	-1.25	143.75	-1.7	1.6	
490.0	0.20	70.00	490.0	2.4	-0.2	0.21	0.16	56.45	-0.6	2.3	
552.0	0.50	2.00	552.0	2.7	-0.1	0.75	0.48	-109.68	-2.7	0.2	
583.0	0.40	46.00	583.0	2.9	0.0	1.13	-0.32	141.94	-2.0	2.1	
615.0	0.40	21.00	615.0	3.1	0.1	0.54	0.00	-78.12	-2.9	1.0	
647.0	0.20	292.00	647.0	3.2	0.1	1.39	-0.62	-278.12	-1.1	-3.0	
678.0	0.40	338.00	678.0	3.3	0.0	0.96	0.65	148.39	-3.1	-1.2	
709.0	0.20	23.00	709.0	3.5	0.0	0.95	-0.65	145.16	-3.2	1.4	
740.0	0.00	322.00	740.0	3.5	0.0	0.65	-0.65	0.00	-3.5	0.0	
803.0	0.40	328.00	803.0	3.7	-0.1	0.63	0.63	0.00	-3.2	-1.8	
835.0	0.00	353.00	835.0	3.8	-0.2	1.25	-1.25	0.00	-3.8	0.2	
866.0	0.40	323.00	866.0	3.9	-0.3	1.29	1.29	0.00	-3.2	-2.1	
959.0	0.10	344.00	959.0	4.2	-0.5	0.33	-0.32	22.58	-4.2	-0.7	
1,141.0	0.70	343.60	1,141.0	5.4	-0.8	0.33	0.33	-0.22	-5.4	-0.7	
1,326.0	0.70	349.50	1,326.0	7.6	-1.4	0.04	0.00	3.19	-7.7	-0.1	
1,513.0	0.70	8.20	1,513.0	9.9	-1.4	0.12	0.00	10.00	-9.6	2.8	
1,701.0	2.00	308.50	1,700.9	13.1	-3.8	0.93	0.69	-31.76	-11.1	-7.9	
1,889.0	2.00	307.80	1,888.8	17.1	-9.0	0.01	0.00	-0.37	-16.8	-8.3	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
MD Reference: KB = 25' @ 3304.0usft (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)	
2,076.0	2.90	295.90	2,075.6	21.2	-15.8	0.55	0.48	-6.36	-16.6	-13.1	
2,264.0	2.60	295.50	2,263.4	25.1	-23.9	0.16	-0.16	-0.21	-13.3	-14.9	
2,451.0	3.60	285.20	2,450.1	28.5	-33.4	0.61	0.53	-5.51	-2.2	-16.9	
2,639.0	6.50	290.30	2,637.4	33.7	-49.1	1.56	1.54	2.71	2.6	-17.0	
2,827.0	7.00	288.20	2,824.1	41.0	-70.0	0.30	0.27	-1.12	4.0	-17.4	
3,015.0	7.10	287.00	3,010.7	47.9	-92.0	0.09	0.05	-0.64	4.2	-17.1	
3,202.0	6.60	284.00	3,196.3	53.9	-113.4	0.33	-0.27	-1.60	5.6	-15.9	
3,389.0	8.00	282.60	3,381.8	59.4	-136.6	0.75	0.75	-0.75	4.9	-13.9	
3,576.0	5.50	282.00	3,567.5	64.1	-158.0	1.34	-1.34	-0.32	5.7	-11.6	
3,763.0	7.60	290.30	3,753.3	70.2	-178.4	1.23	1.12	4.44	5.5	-11.9	
3,950.0	7.20	292.80	3,938.7	79.0	-200.8	0.27	-0.21	1.34	3.6	-13.5	
4,136.0	6.60	293.40	4,123.4	87.8	-221.4	0.32	-0.32	0.32	3.7	-15.5	
4,323.0	4.00	304.50	4,309.5	95.8	-236.6	1.49	-1.39	5.94	5.4	-20.4	
4,510.0	5.80	290.30	4,495.9	102.7	-250.8	1.15	0.96	-7.59	17.3	-20.9	
4,698.0	6.40	278.00	4,682.8	107.5	-270.1	0.76	0.32	-6.54	24.2	-14.9	
4,886.0	8.80	282.70	4,869.1	112.1	-294.5	1.32	1.28	2.50	20.8	-13.8	
5,073.0	8.20	282.00	5,054.1	118.0	-321.5	0.33	-0.32	-0.37	16.0	-11.3	
5,260.0	8.60	288.10	5,239.1	125.2	-347.9	0.52	0.21	3.26	10.2	-11.6	
5,448.0	8.00	287.10	5,425.1	133.4	-373.7	0.33	-0.32	-0.53	6.1	-11.3	
5,635.0	6.90	287.40	5,610.5	140.6	-396.9	0.59	-0.59	0.16	4.6	-11.0	
5,823.0	7.90	284.60	5,797.0	147.2	-420.2	0.57	0.53	-1.49	3.8	-10.0	
6,010.0	7.60	280.20	5,982.3	152.6	-444.8	0.36	-0.16	-2.35	1.9	-7.6	
6,197.0	7.30	281.00	6,167.7	157.1	-468.6	0.17	-0.16	0.43	0.2	-4.6	
6,383.0	6.50	281.30	6,352.3	161.4	-490.5	0.43	-0.43	0.16	0.3	-1.9	
6,571.0	5.80	284.10	6,539.2	165.8	-510.2	0.40	-0.37	1.49	3.0	0.1	
6,757.0	6.30	291.40	6,724.2	171.8	-528.8	0.49	0.27	3.92	6.1	-0.4	
6,944.0	6.30	292.90	6,910.1	179.5	-547.8	0.09	0.00	0.80	8.3	-2.2	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
MD Reference: KB = 25' @ 3304.0usft (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)	
7,131.0	5.10	287.80	7,096.2	186.1	-565.2	0.70	-0.64	-2.73	12.7	-2.3	
7,317.0	4.20	284.70	7,281.5	190.3	-579.6	0.50	-0.48	-1.67	20.2	-0.8	
7,504.0	4.60	287.70	7,468.0	194.3	-593.4	0.25	0.21	1.60	20.1	-1.4	
7,693.0	4.10	280.90	7,656.4	197.9	-607.2	0.38	-0.26	-3.60	8.5	0.4	
7,880.0	2.80	281.60	7,843.1	200.1	-618.3	0.70	-0.70	0.37	-2.8	0.4	
8,068.0	2.40	270.00	8,030.9	201.0	-626.7	0.35	-0.21	-6.17	-11.2	-1.1	
8,255.0	2.20	253.10	8,217.8	200.0	-634.1	0.38	-0.11	-9.04	-17.7	-5.5	
8,436.0	1.50	236.00	8,398.7	197.7	-639.4	0.49	-0.39	-9.45	-21.0	-11.5	
8,623.0	0.70	195.30	8,585.6	195.2	-641.7	0.57	-0.43	-21.76	-11.5	-24.0	
8,811.0	0.50	140.80	8,773.6	193.4	-641.5	0.31	-0.11	-28.99	11.4	-24.2	
8,998.0	0.80	67.90	8,960.6	193.3	-639.7	0.43	0.16	-38.98	25.0	3.0	
9,186.0	0.50	21.30	9,148.6	194.6	-638.2	0.31	-0.16	-24.79	13.3	19.2	
9,373.0	0.50	301.50	9,335.6	195.7	-638.6	0.34	0.00	-42.67	-17.5	15.6	
9,561.0	0.70	230.30	9,523.6	195.4	-640.2	0.38	0.11	-37.87	-21.9	-12.3	
9,749.0	1.10	228.20	9,711.6	193.5	-642.4	0.21	0.21	-1.12	-24.4	-13.2	
9,935.0	1.70	219.50	9,897.5	190.2	-645.5	0.34	0.32	-4.68	-26.6	-17.0	
10,122.0	0.70	144.90	10,084.5	187.1	-646.6	0.89	-0.53	-39.89	7.4	-32.8	
10,309.0	0.30	322.30	10,271.5	186.6	-646.3	0.53	-0.21	94.87	-8.3	32.5	
10,495.0	1.80	76.80	10,457.4	187.6	-643.7	1.04	0.81	61.56	30.3	-5.5	
10,682.0	1.30	74.80	10,644.4	188.8	-638.8	0.27	-0.27	-1.07	25.4	-4.6	
10,870.0	1.50	177.10	10,832.3	186.9	-636.6	1.16	0.11	54.41	-11.9	-21.8	
11,056.0	2.30	222.10	11,018.2	181.7	-639.0	0.88	0.43	24.19	-29.3	-5.3	
11,243.0	0.70	272.30	11,205.2	179.0	-642.7	1.03	-0.86	26.84	-26.3	22.0	
11,431.0	1.20	250.50	11,393.2	178.4	-645.7	0.32	0.27	-11.60	-35.6	10.2	
11,555.0	0.80	168.00	11,517.1	177.1	-646.7	1.09	-0.32	-66.53	-15.8	-35.3	
11,648.0	0.80	145.10	11,610.1	175.9	-646.2	0.34	0.00	-24.62	-2.1	-38.9	
11,742.0	11.60	204.80	11,703.5	166.8	-649.8	11.93	11.49	63.51	-44.1	-17.6	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
MD Reference: KB = 25' @ 3304.0usft (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)
11,789.0	23.60	202.00	11,748.2	153.7	-655.3	25.59	25.53	-5.96	-52.7	-22.5
11,836.0	30.20	201.30	11,790.1	134.0	-663.2	14.06	14.04	-1.49	-63.6	-28.0
11,883.0	39.80	201.50	11,828.5	108.9	-673.0	20.43	20.43	0.43	-75.0	-35.8
11,930.0	43.40	192.50	11,863.7	79.1	-682.0	14.83	7.66	-19.15	-78.7	-54.4
11,977.0	49.50	184.90	11,896.1	45.5	-687.1	17.47	12.98	-16.17	-79.0	-67.9
12,024.0	57.50	183.50	11,924.0	7.8	-689.8	17.19	17.02	-2.98	-83.1	-72.6
12,071.0	67.60	179.80	11,945.7	-33.8	-690.9	22.59	21.49	-7.87	-85.9	-77.4
12,118.0	69.20	178.20	11,963.0	-77.5	-690.2	4.65	3.40	-3.40	-88.8	-77.5
12,165.0	71.90	171.10	11,978.6	-121.6	-686.0	15.36	5.74	-15.11	-84.3	-75.9
12,211.0	71.90	171.00	11,992.9	-164.8	-679.2	0.21	0.00	-0.22	-76.0	-69.3
12,258.0	72.20	169.80	12,007.4	-208.8	-671.8	2.51	0.64	-2.55	-62.3	-62.0
12,304.0	72.40	169.10	12,021.4	-251.9	-663.7	1.51	0.43	-1.52	-48.9	-53.9
12,314.8	72.40	169.03	12,024.7	-262.0	-661.8	0.61	0.00	-0.64	-45.7	-51.9
HL Crossing, MD:12314.8', TVD:12024.7', N/S:-262.0', E/W:-661.8', INC:72.40										
12,351.0	72.40	168.80	12,035.6	-295.9	-655.1	0.61	0.00	-0.64	-35.3	-45.1
12,398.0	72.70	169.10	12,049.7	-339.9	-646.6	0.88	0.64	0.64	-21.9	-36.3
12,445.0	77.30	173.10	12,061.9	-384.7	-639.5	12.78	9.79	8.51	-11.2	-28.8
12,490.0	83.20	177.50	12,069.5	-428.9	-635.9	16.27	13.11	9.78	-4.6	-25.2
12,586.0	86.40	180.70	12,078.2	-524.5	-634.4	4.70	3.33	3.33	3.0	-24.3
12,679.0	89.40	180.00	12,081.6	-617.4	-635.0	3.31	3.23	-0.75	5.6	-23.6
12,772.0	89.60	179.90	12,082.4	-710.4	-634.9	0.24	0.22	-0.11	5.6	-19.1
12,866.0	89.10	179.10	12,083.5	-804.4	-634.1	1.00	-0.53	-0.85	5.9	-10.8
12,960.0	89.70	180.00	12,084.5	-898.4	-633.4	1.15	0.64	0.96	6.1	0.5
13,054.0	89.40	179.90	12,085.2	-992.4	-633.3	0.34	-0.32	-0.11	6.2	13.8
13,147.0	90.40	179.30	12,085.4	-1,085.4	-632.6	1.25	1.08	-0.65	5.7	27.6
13,240.0	90.40	179.30	12,084.7	-1,178.3	-631.5	0.00	0.00	0.00	4.3	39.3
13,334.0	90.00	179.10	12,084.4	-1,272.3	-630.2	0.48	-0.43	-0.21	3.2	48.1

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Braswell 16 State
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
MD Reference: KB = 25' @ 3304.0usft (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)
13,428.0	90.50	178.70	12,084.0	-1,366.3	-628.4	0.68	0.53	-0.43	2.1	54.4
13,522.0	90.20	178.60	12,083.4	-1,460.3	-626.2	0.34	-0.32	-0.11	0.8	57.9
13,616.0	90.30	178.30	12,083.0	-1,554.3	-623.6	0.34	0.11	-0.32	-0.3	58.6
13,710.0	90.50	178.10	12,082.3	-1,648.2	-620.7	0.30	0.21	-0.21	-1.6	56.5
13,804.0	90.50	178.60	12,081.5	-1,742.2	-618.0	0.53	0.00	0.53	-2.8	51.1
13,898.0	88.70	177.20	12,082.2	-1,836.1	-614.5	2.43	-1.91	-1.49	-2.2	43.3
13,991.0	88.20	177.60	12,084.7	-1,929.0	-610.3	0.69	-0.54	0.43	0.3	33.9
14,085.0	88.30	177.00	12,087.6	-2,022.8	-605.9	0.65	0.11	-0.64	3.2	24.4
14,179.0	88.50	175.20	12,090.2	-2,116.6	-599.5	1.93	0.21	-1.91	5.6	17.8
14,273.0	87.30	174.30	12,093.6	-2,210.1	-590.9	1.60	-1.28	-0.96	8.6	16.4
14,367.0	87.60	175.10	12,097.8	-2,303.6	-582.2	0.91	0.32	0.85	11.9	18.2
14,460.0	88.70	176.90	12,100.8	-2,396.3	-575.7	2.27	1.18	1.94	13.6	20.7
14,554.0	90.50	180.20	12,101.5	-2,490.3	-573.4	4.00	1.91	3.51	12.7	21.9
14,647.0	89.90	180.70	12,101.2	-2,583.3	-574.1	0.84	-0.65	0.54	10.7	20.5
14,740.0	88.80	180.40	12,102.2	-2,676.3	-575.0	1.23	-1.18	-0.32	10.1	18.9
14,833.0	88.90	180.10	12,104.1	-2,769.2	-575.4	0.34	0.11	-0.32	10.3	17.8
14,926.0	88.70	180.00	12,106.0	-2,862.2	-575.5	0.24	-0.22	-0.11	10.6	17.0
15,020.0	88.70	180.20	12,108.2	-2,956.2	-575.6	0.21	0.00	0.21	11.0	16.1
15,114.0	90.00	180.90	12,109.2	-3,050.2	-576.5	1.57	1.38	0.74	10.4	14.5
15,177.0	90.00	180.90	12,109.2	-3,113.2	-577.5	0.00	0.00	0.00	9.3	13.1
15,208.0	90.20	180.80	12,109.2	-3,144.2	-578.0	0.72	0.65	-0.32	8.7	12.4
15,302.0	90.10	180.70	12,108.9	-3,238.2	-579.2	0.15	-0.11	-0.11	6.8	10.4
15,396.0	89.40	180.70	12,109.3	-3,332.2	-580.4	0.74	-0.74	0.00	5.5	8.6
15,488.0	89.40	180.70	12,110.3	-3,424.1	-581.5	0.00	0.00	0.00	4.8	6.8
15,582.0	89.50	180.80	12,111.2	-3,518.1	-582.7	0.15	0.11	0.11	4.1	4.8
15,676.0	89.10	181.20	12,112.3	-3,612.1	-584.4	0.60	-0.43	0.43	3.5	2.5
15,770.0	88.30	180.70	12,114.5	-3,706.1	-585.9	1.00	-0.85	-0.53	4.0	0.2

EOG Resources

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Braswell 16 State
 Well: #706H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25' @ 3304.0usft (H&P 642)
 MD Reference: KB = 25' @ 3304.0usft (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)
15,864.0	88.80	180.60	12,116.9	-3,800.0	-587.0	0.54	0.53	-0.11	4.7	-1.6
15,958.0	89.10	180.50	12,118.6	-3,894.0	-587.9	0.34	0.32	-0.11	4.7	-3.2
16,052.0	88.60	180.00	12,120.5	-3,988.0	-588.3	0.75	-0.53	-0.53	4.9	-4.3
16,144.0	88.40	178.90	12,122.9	-4,080.0	-587.4	1.21	-0.22	-1.20	5.5	-4.1
16,238.0	88.30	177.90	12,125.6	-4,173.9	-584.8	1.07	-0.11	-1.06	6.4	-2.2
16,332.0	87.40	176.90	12,129.1	-4,267.7	-580.5	1.43	-0.96	-1.06	8.1	1.4
16,426.0	86.90	177.30	12,133.8	-4,361.5	-575.8	0.68	-0.53	0.43	11.0	5.4
16,520.0	86.20	177.20	12,139.4	-4,455.2	-571.3	0.75	-0.74	-0.11	14.9	9.3
16,613.0	85.50	177.00	12,146.2	-4,547.8	-566.6	0.78	-0.75	-0.22	19.8	13.3
16,706.0	87.20	177.10	12,152.1	-4,640.5	-561.8	1.83	1.83	0.11	23.9	17.3
16,754.6	88.12	177.20	12,154.1	-4,689.0	-559.4	1.91	1.89	0.21	25.0	19.4
HL Crossing, MD:16754.6', TVD:12154.1', N/S:-4689.0', E/W:-559.4', INC:88.12										
16,801.0	89.00	177.30	12,155.2	-4,735.3	-557.2	1.91	1.89	0.21	25.3	21.2
Final MWD Survey (MD= 16801.0')										
16,866.0	89.00	177.30	12,156.4	-4,800.3	-554.1	0.00	0.00	0.00	26.8	24.9
Final Projection to Bit (MD=16866.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,314.8	12,024.7	-262.0	-661.8	HL Crossing, MD:12314.8', TVD:12024.7', N/S:-262.0', E/W:-661.8', INC:72.40
16,754.6	12,154.1	-4,689.0	-559.4	HL Crossing, MD:16754.6', TVD:12154.1', N/S:-4689.0', E/W:-559.4', INC:88.12
16,801.0	12,155.2	-4,735.3	-557.2	Final MWD Survey (MD= 16801.0')
16,866.0	12,156.4	-4,800.3	-554.1	Final Projection to Bit (MD=16866.0')

Checked By: _____ Approved By: _____ Date: _____