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Lea County, NM (NAD 27 NME)

Braswell 16 State #709H

H&P 651

Plan #4

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

WELL DETAILS: #709H

	Ground Level:	3281.0	
	KB = 25 @ 3306.0usft (H&P 651)		
Northing	Easting	Latitude	Longitude
382690.00	732504.00	32° 2' 59.671 N	103° 34' 58.477 W

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.62°
Magnetic Field
Strength: 47903.2sT
Dip Angle: 59.91°
Date: 10/15/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.62°
 To convert a Magnetic Direction to a True Direction, Add 7.02° East
 To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

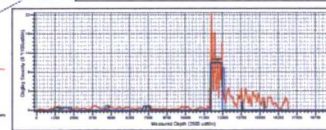
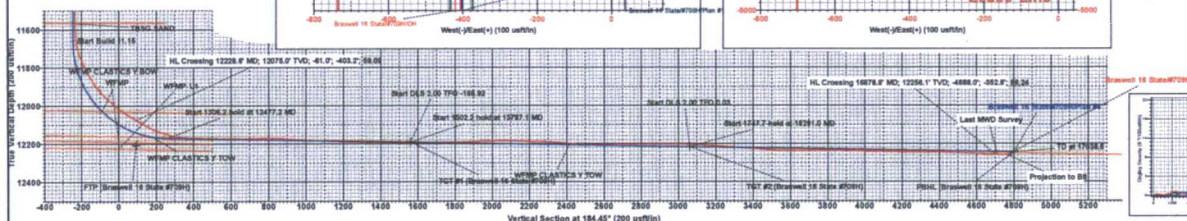
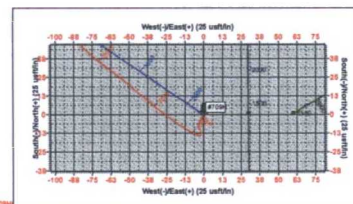
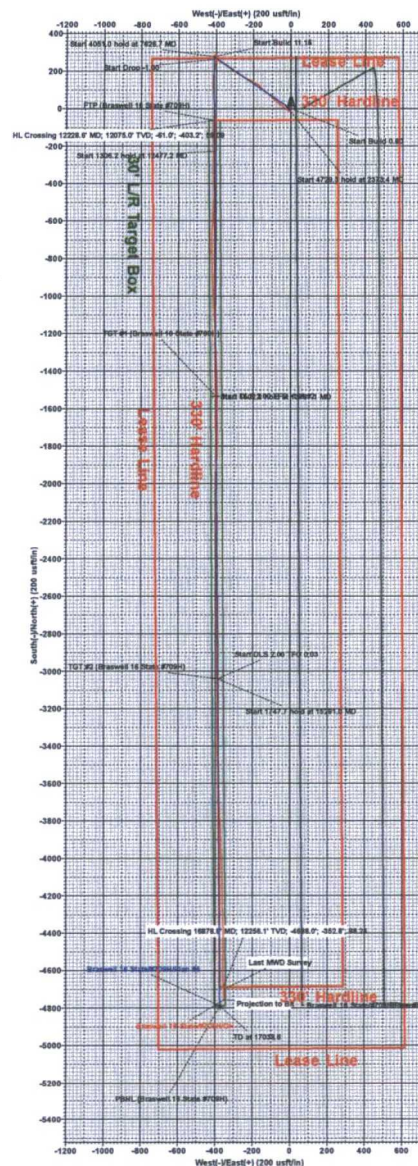
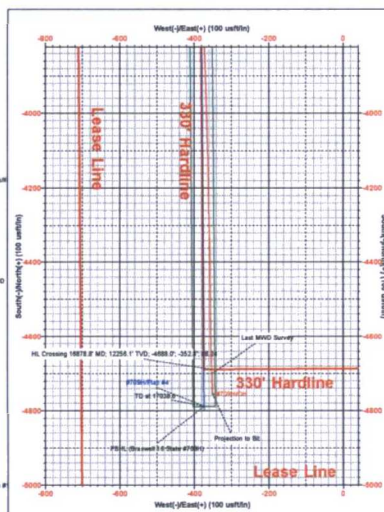
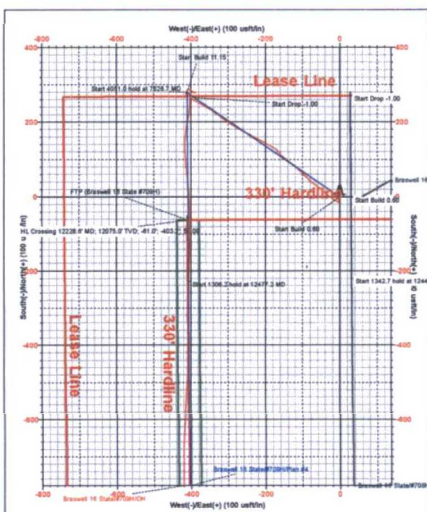
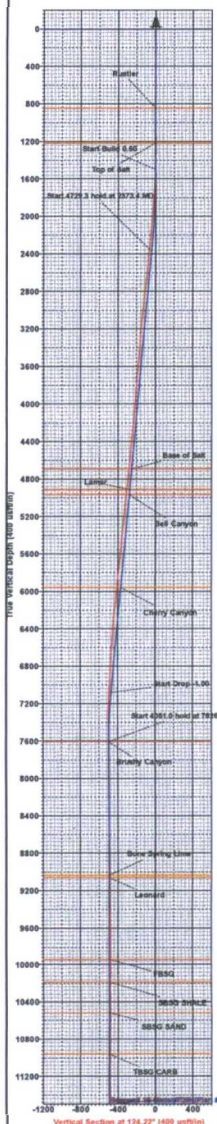
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSelect	Target
1	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0			1500.0	0.0	0.0	0.00	0.00	0.0	
3	2373.4	5.24	304.22	2372.2	22.4	-33.0	0.60	304.22	-19.8	
4	7102.7	5.24	304.22	7081.7	265.3	-390.2	0.00	0.00	-234.2	
5	7626.7	0.00	0.00	7605.0	278.8	-410.0	1.00	180.00	-246.1	
6	11677.7	0.00	0.00	11656.0	278.8	-410.0	0.00	0.00	-246.1	
7	12477.2	89.12	179.59	12169.9	-227.3	-406.4	11.15	179.59	258.2	
8	13763.4	89.12	179.59	12190.0	-1533.3	-397.0	0.00	0.00	1559.5	TGT #1 (Braswell 16 State #709H)
9	13767.0	89.05	179.58	12190.1	-1536.5	-397.0	2.00	-168.87	1563.1	
10	15089.9	89.05	179.58	12190.1	-3038.9	-385.9	0.00	0.00	3061.4	TGT #2 (Braswell 16 State #709H)
11	15291.0	89.08	179.58	12215.0	-3040.6	-385.9	2.00	0.03	3061.4	
12	17038.6	89.08	179.58	12243.0	-4788.0	-373.0	0.00	0.00	4802.5	PBHL (Braswell 16 State #709H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT #1 (Braswell 16 State #709H)	12190.0	-1533.3	-387.1	381156.70	732106.95
TGT #2 (Braswell 16 State #709H)	12216.0	-3038.9	-385.9	379651.10	732118.07
PBHL (Braswell 16 State #709H)	12243.0	-4788.0	-373.0	377902.00	732131.00
FTP (Braswell 16 State #709H)	12207.0	-61.0	-410.0	382629.00	732094.00



Lee County, MS 39027
Shower 18 Stone
#7084
442 881
On
Page 44
A-4, December 18, 2004



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Braswell 16 State

#709H

OH

Survey: Crescent MWD

EOG PVA

16 December, 2016

HOBBS OCD
MAR 21 2017
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EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Site:	Braswell 16 State	MD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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	Braswell 16 State		
Site Position:		Northing:	378,303.00 usft
From:	Map	Easting:	736,347.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 15.991 N
		Longitude:	103° 34' 14.187 W
		Grid Convergence:	0.40 °

Well	#709H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 2' 59.671 N
		Longitude:	103° 34' 58.477 W
		Ground Level:	3,281.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	10/15/2016	7.02
			Dip Angle (°)
			59.91
			Field Strength (nT)
			47,903

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 (°)	184.45

Survey Program	Date	12/16/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
96.0	16,945.0	Crescent MWD (OH)	MWD	MWD - Standard



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EOG PVA

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Site: Braswell 16 State
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
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MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	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	
96.0	0.18	0.61	96.0	0.2	0.0	0.19	0.19	0.00	-0.2	0.0	
259.0	0.44	227.37	259.0	0.0	-0.5	0.35	0.16	-81.74	-0.3	-0.3	
437.0	0.70	198.37	437.0	-1.5	-1.3	0.21	0.15	-16.29	-1.8	-0.8	
606.0	0.88	206.98	606.0	-3.6	-2.2	0.13	0.11	5.09	-4.3	-0.3	
775.0	0.88	200.56	775.0	-6.0	-3.3	0.06	0.00	-3.80	-6.8	-0.9	
959.0	1.23	157.14	958.9	-9.2	-3.0	0.46	0.19	-23.60	-7.3	-6.3	
1,011.0	1.32	149.76	1,010.9	-10.2	-2.5	0.36	0.17	-14.19	-7.6	-7.3	
1,139.0	0.97	167.34	1,138.9	-12.5	-1.5	0.38	-0.27	13.73	-11.9	-4.2	
1,327.0	1.06	265.87	1,326.9	-14.2	-2.9	0.82	0.05	52.41	-3.9	14.0	
1,519.0	2.64	304.63	1,518.8	-11.8	-8.3	1.01	0.82	20.19	-0.1	14.4	
1,711.0	3.08	302.96	1,710.5	-6.5	-16.3	0.23	0.23	-0.87	-7.8	14.3	
1,903.0	4.48	306.47	1,902.1	0.8	-26.6	0.74	0.73	1.83	-13.4	14.9	
2,095.0	5.54	311.13	2,093.4	11.3	-39.6	0.59	0.55	2.43	-18.9	15.3	
2,287.0	5.54	308.58	2,284.5	23.2	-53.8	0.13	0.00	-1.33	-24.3	13.0	
2,478.0	5.54	306.29	2,474.6	34.4	-68.5	0.12	0.00	-1.20	-26.2	11.0	
2,671.0	6.51	314.56	2,666.5	47.6	-83.8	0.67	0.50	4.28	-27.2	12.8	
2,862.0	5.98	314.82	2,856.4	62.2	-98.6	0.28	-0.28	0.14	-30.8	9.8	
3,054.0	5.19	315.00	3,047.5	75.4	-111.8	0.41	-0.41	0.09	-32.2	6.6	
3,246.0	4.84	304.45	3,238.7	86.1	-124.6	0.51	-0.18	-5.49	-32.0	-1.0	
3,439.0	4.75	307.79	3,431.1	95.6	-137.6	0.15	-0.05	1.73	-30.5	0.2	
3,631.0	5.45	308.14	3,622.3	106.1	-151.1	0.36	0.36	0.18	-30.0	-0.7	
3,823.0	4.31	325.72	3,813.6	117.7	-162.3	0.97	-0.59	9.16	-28.5	4.7	
4,015.0	5.19	306.03	4,005.0	128.8	-173.4	0.96	0.46	-10.26	-26.3	-8.2	
4,207.0	5.28	295.57	4,196.2	137.7	-188.4	0.50	0.05	-5.45	-24.4	-11.7	
4,399.0	5.45	302.60	4,387.3	146.4	-204.1	0.35	0.09	3.66	-26.1	-7.1	
4,590.0	5.45	293.29	4,577.5	154.9	-220.0	0.46	0.00	-4.87	-25.5	-9.3	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
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Site: Braswell 16 State
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,782.0	5.28	299.70	4,768.6	162.9	-236.1	0.32	-0.09	3.34	-26.8	-4.0	
4,973.0	6.77	298.56	4,958.6	172.6	-253.6	0.78	0.78	-0.60	-29.4	-3.0	
5,166.0	5.98	301.02	5,150.4	183.2	-272.2	0.43	-0.41	1.27	-33.3	-0.3	
5,358.0	5.45	297.33	5,341.4	192.6	-288.9	0.34	-0.28	-1.92	-34.9	-1.0	
5,550.0	6.33	308.23	5,532.4	203.3	-305.3	0.74	0.46	5.68	-36.5	6.1	
5,742.0	5.72	306.82	5,723.4	215.6	-321.3	0.33	-0.32	-0.73	-39.3	4.2	
5,934.0	4.66	307.44	5,914.6	226.1	-335.1	0.55	-0.55	0.32	-39.1	3.7	
6,126.0	5.72	300.49	6,105.8	235.7	-349.6	0.64	0.55	-3.62	-39.1	-0.9	
6,318.0	4.92	300.41	6,296.9	244.7	-364.9	0.42	-0.42	-0.04	-39.4	0.2	
6,510.0	4.31	297.59	6,488.3	252.2	-378.4	0.34	-0.32	-1.47	-37.4	-0.1	
6,701.0	3.87	296.28	6,678.8	258.4	-390.6	0.24	-0.23	-0.69	-33.7	1.3	
6,893.0	3.34	312.10	6,870.5	265.0	-400.5	0.58	-0.28	8.24	-26.5	9.8	
7,085.0	2.90	308.14	7,062.2	271.8	-408.5	0.26	-0.23	-2.06	-20.0	6.4	
7,277.0	1.67	352.61	7,254.0	277.5	-412.7	1.08	-0.64	23.16	-6.2	10.8	
7,469.0	1.06	50.01	7,446.0	281.4	-411.7	0.74	-0.32	29.90	0.2	5.2	
7,661.0	0.88	40.43	7,638.0	283.7	-409.3	0.13	-0.09	-4.99	-4.2	2.7	
7,853.0	0.35	4.04	7,829.9	285.4	-408.3	0.33	-0.28	-18.95	-6.7	-1.2	
8,045.0	0.62	40.95	8,021.9	286.8	-407.6	0.21	0.14	19.22	-7.6	3.4	
8,237.0	0.70	100.46	8,213.9	287.4	-405.8	0.34	0.04	30.99	-2.6	9.2	
8,429.0	0.97	83.84	8,405.9	287.3	-403.0	0.19	0.14	-8.66	-7.9	7.7	
8,620.0	0.79	137.98	8,596.9	286.5	-400.5	0.43	-0.09	28.35	-0.6	12.2	
8,812.0	0.79	116.63	8,788.9	284.9	-398.5	0.15	0.00	-11.12	-7.6	10.7	
9,005.0	0.62	146.33	8,981.9	283.5	-396.7	0.21	-0.09	15.39	-3.5	13.7	
9,196.0	0.70	106.61	9,172.8	282.3	-395.0	0.24	0.04	-20.80	-13.4	7.6	
9,387.0	0.97	124.01	9,363.8	281.0	-392.5	0.19	0.14	9.11	-13.2	11.6	
9,580.0	1.49	125.24	9,556.8	278.7	-389.1	0.27	0.27	0.64	-17.1	11.9	
9,772.0	0.44	326.16	9,748.8	277.9	-387.5	0.99	-0.55	-82.85	13.3	-18.1	



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9,964.0	0.53	52.64	9,940.8	279.0	-387.2	0.35	0.05	45.04	-18.2	-13.7
10,155.0	1.32	272.19	10,131.7	279.6	-388.7	0.92	0.41	-73.53	21.2	-1.6
10,346.0	0.88	273.78	10,322.7	279.8	-392.4	0.23	-0.23	0.83	17.5	-2.2
10,538.0	0.88	277.03	10,514.7	280.1	-395.3	0.03	0.00	1.69	14.4	-3.1
10,730.0	0.70	248.73	10,706.7	279.8	-397.9	0.22	-0.09	-14.74	11.7	3.4
10,922.0	0.70	166.81	10,898.7	278.3	-398.7	0.48	0.00	-42.67	-3.1	10.9
11,114.0	1.58	212.43	11,090.6	274.9	-399.8	0.62	0.46	23.76	2.1	10.7
11,306.0	1.14	196.61	11,282.6	270.8	-401.8	0.30	-0.23	-8.24	-5.3	10.1
11,444.0	0.79	201.00	11,420.5	268.6	-402.5	0.26	-0.25	3.18	-6.8	10.6
11,524.0	1.06	163.90	11,500.5	267.4	-402.5	0.80	0.34	-46.37	-13.0	4.0
11,620.0	1.14	146.86	11,596.5	265.7	-401.8	0.35	0.08	-17.75	-15.4	-0.2
11,716.0	10.38	184.13	11,691.9	256.3	-401.9	9.89	9.62	38.82	-20.5	9.7
11,764.0	21.28	182.72	11,738.1	243.2	-402.6	22.72	22.71	-2.94	-28.1	8.8
11,813.0	27.87	187.91	11,782.6	223.0	-404.6	14.14	13.45	10.59	-37.5	10.6
11,861.0	29.90	191.07	11,824.6	200.1	-408.4	5.29	4.23	6.58	-46.1	9.8
11,909.0	32.10	191.42	11,865.8	175.9	-413.3	4.60	4.58	0.73	-52.3	5.7
11,957.0	37.55	179.82	11,905.2	148.7	-415.7	17.83	11.35	-24.17	-56.3	-6.5
12,005.0	45.99	176.22	11,941.0	116.8	-414.6	18.27	17.58	-7.50	-60.8	-8.6
12,053.0	49.59	175.95	11,973.2	81.3	-412.1	7.51	7.50	-0.56	-65.6	-6.5
12,101.0	51.18	173.76	12,003.8	44.5	-408.8	4.83	3.31	-4.56	-67.5	-4.8
12,148.0	55.57	174.37	12,031.9	7.0	-404.9	9.40	9.34	1.30	-67.0	-0.2
12,196.0	58.21	180.44	12,058.1	-33.1	-403.1	11.93	5.50	12.65	-64.0	5.1
12,228.6	59.09	180.03	12,075.0	-61.0	-403.2	2.90	2.69	-1.27	-60.2	4.6
HL Crossing 12228.6' MD; 12075.0' TVD; -61.0'; -403.2'; 59.09										
12,245.0	59.53	179.82	12,083.4	-75.1	-403.2	2.90	2.70	-1.25	-57.6	4.4
12,292.0	62.98	180.16	12,106.0	-116.3	-403.2	7.36	7.33	0.73	-48.5	4.2
FTP (Braswell 16 State #709H)										



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12,293.0	63.05	180.17	12,106.5	-117.2	-403.2	7.36	7.33	0.71	-48.3	4.2	
12,340.0	68.24	181.14	12,125.8	-160.0	-403.7	11.20	11.04	2.06	-38.2	3.4	
12,389.0	71.67	181.93	12,142.6	-206.0	-405.0	7.16	7.00	1.61	-26.5	1.7	
12,437.0	76.50	181.84	12,155.8	-252.1	-406.5	10.06	10.06	-0.19	-14.5	-0.3	
12,485.0	83.89	180.08	12,164.0	-299.3	-407.3	15.81	15.40	-3.67	-7.1	-1.4	
12,521.0	85.56	179.73	12,167.3	-335.2	-407.2	4.74	4.64	-0.97	-4.3	-1.6	
12,617.0	88.02	181.14	12,172.7	-431.0	-407.9	2.95	2.56	1.47	-0.4	-3.0	
12,713.0	88.99	182.63	12,175.2	-526.9	-411.1	1.85	1.01	1.55	0.6	-6.8	
12,809.0	92.24	184.39	12,174.1	-622.7	-417.0	3.85	3.39	1.83	-1.9	-13.4	
12,905.0	91.45	179.47	12,171.0	-718.6	-420.2	5.19	-0.82	-5.12	-6.5	-17.3	
13,001.0	88.29	178.24	12,171.3	-814.6	-418.3	3.53	-3.29	-1.28	-7.7	-16.1	
13,097.0	85.56	177.18	12,176.4	-910.3	-414.4	3.05	-2.84	-1.10	-4.0	-12.9	
13,193.0	88.46	177.80	12,181.4	-1,006.1	-410.2	3.09	3.02	0.65	-0.5	-9.4	
13,290.0	87.23	177.27	12,185.1	-1,103.0	-406.1	1.38	-1.27	-0.55	1.7	-5.9	
13,387.0	88.72	176.83	12,188.5	-1,199.8	-401.1	1.60	1.54	-0.45	3.6	-1.6	
13,483.0	88.29	176.66	12,191.0	-1,295.6	-395.6	0.48	-0.45	-0.18	4.6	3.1	
13,580.0	90.04	179.56	12,192.4	-1,392.5	-392.4	3.49	1.80	2.99	4.6	5.6	
13,676.0	87.58	179.64	12,194.4	-1,488.5	-391.8	2.56	-2.56	0.08	5.1	5.6	
13,720.8	89.88	179.85	12,195.4	-1,533.3	-391.6	5.16	5.14	0.46	5.4	5.5	
TGT #1 (Braswell 16 State #709H)											
13,772.0	92.51	180.08	12,194.3	-1,584.4	-391.5	5.16	5.14	0.46	3.5	5.1	
13,868.0	91.01	179.73	12,191.4	-1,680.4	-391.4	1.60	-1.56	-0.36	-1.1	4.6	
13,964.0	89.25	179.73	12,191.2	-1,776.4	-390.9	1.83	-1.83	0.00	-2.9	4.3	
14,060.0	93.74	181.58	12,188.7	-1,872.3	-392.0	5.06	4.68	1.93	-7.0	2.5	
14,155.0	90.66	182.54	12,185.0	-1,967.2	-395.4	3.40	-3.24	1.01	-12.2	-1.6	
14,251.0	90.13	181.14	12,184.3	-2,063.1	-398.5	1.56	-0.55	-1.46	-14.5	-5.4	
14,347.0	87.85	178.94	12,186.0	-2,159.1	-398.6	3.30	-2.37	-2.29	-14.3	-6.2	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Braswell 16 State
Well: #709H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3306.0usft (H&P 651)
MD Reference: KB = 25 @ 3306.0usft (H&P 651)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,444.0	88.72	178.85	178.85	12,188.9	-2,256.0	-396.7	0.90	0.90	-0.09	-13.1	-5.0
14,539.0	84.42	178.77	178.77	12,194.6	-2,350.8	-394.7	4.53	-4.53	-0.08	-8.9	-3.7
14,635.0	87.32	177.89	177.89	12,201.5	-2,446.5	-391.9	3.16	3.02	-0.92	-3.6	-1.6
14,731.0	90.22	179.38	179.38	12,203.6	-2,542.4	-389.7	3.40	3.02	1.55	-3.2	-0.1
14,828.0	91.98	180.26	180.26	12,201.7	-2,639.4	-389.4	2.03	1.81	0.91	-6.6	-0.5
14,924.0	88.20	179.82	179.82	12,201.6	-2,735.4	-389.4	3.96	-3.94	-0.46	-8.4	-1.3
15,019.0	90.13	179.38	179.38	12,203.0	-2,830.4	-388.8	2.08	2.03	-0.46	-8.6	-1.3
15,115.0	91.19	179.56	179.56	12,201.9	-2,926.4	-387.9	1.12	1.10	0.19	-11.3	-1.1
15,211.0	88.55	180.70	180.70	12,202.1	-3,022.4	-388.1	3.00	-2.75	1.19	-12.6	-2.0
15,228.1	88.10	180.54	180.54	12,202.6	-3,039.5	-388.3	2.81	-2.66	-0.92	-12.4	-2.4
TGT #2 (Braswell 16 State #709H)											
15,307.0	86.00	179.82	179.82	12,206.6	-3,118.3	-388.5	2.81	-2.66	-0.92	-9.6	-3.2
15,403.0	85.82	180.26	180.26	12,213.5	-3,214.0	-388.6	0.49	-0.19	0.46	-4.3	-4.0
15,499.0	86.44	180.79	180.79	12,220.0	-3,309.8	-389.5	0.85	0.65	0.55	0.6	-5.5
15,595.0	84.59	178.59	178.59	12,227.5	-3,405.5	-389.0	2.99	-1.93	-2.29	6.6	-5.7
15,691.0	86.97	177.01	177.01	12,234.5	-3,501.1	-385.3	2.97	2.48	-1.65	12.1	-2.8
15,787.0	89.69	177.80	177.80	12,237.3	-3,597.0	-380.9	2.95	2.83	0.82	13.4	0.9
15,883.0	90.92	177.80	177.80	12,236.8	-3,692.9	-377.3	1.28	1.28	0.00	11.4	3.8
15,979.0	89.87	176.92	176.92	12,236.2	-3,788.8	-372.8	1.43	-1.09	-0.92	9.2	7.6
16,075.0	89.16	178.41	178.41	12,237.0	-3,884.7	-368.9	1.72	-0.74	1.55	8.4	10.8
16,171.0	88.29	178.50	178.50	12,239.1	-3,980.7	-366.3	0.91	-0.91	0.09	9.0	12.6
16,267.0	88.64	178.68	178.68	12,241.7	-4,076.6	-364.0	0.41	0.36	0.19	10.1	14.3
16,363.0	89.08	178.77	178.77	12,243.6	-4,172.6	-361.8	0.47	0.46	0.09	10.4	15.7
16,459.0	89.34	178.77	178.77	12,244.9	-4,268.5	-359.8	0.27	0.27	0.00	10.2	17.1
16,555.0	90.22	178.50	178.50	12,245.3	-4,364.5	-357.5	0.96	0.92	-0.28	9.1	18.6
16,651.0	89.16	180.00	180.00	12,245.8	-4,460.5	-356.2	1.91	-1.10	1.56	8.0	19.2
16,747.0	86.26	179.64	179.64	12,249.6	-4,556.4	-355.9	3.04	-3.02	-0.37	10.3	18.8



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Site:	Braswell 16 State	MD Reference:	KB = 25 @ 3306.0usft (H&P 651)
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
16,843.0	87.58	178.06	12,254.8	-4,652.2	-354.0	2.14	1.37	-1.65	14.0	20.0	
16,878.8	88.24	177.93	12,256.1	-4,688.0	-352.8	1.87	1.83	-0.35	14.7	21.0	
HL Crossing 16878.8' MD; 12256.1' TVD; -4688.0'; -352.8'; 88.24											
16,891.0	88.46	177.89	12,256.5	-4,700.2	-352.3	1.87	1.83	-0.35	14.9	21.3	
Last MWD Survey											
16,945.0	88.46	177.89	12,257.9	-4,754.1	-350.3	0.00	0.00	0.00	15.4	22.9	
Projection to Bit - PBHL (Braswell 16 State #709H)											

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
12,228.6	12,075.0	-61.0	-403.2	HL Crossing 12228.6' MD; 12075.0' TVD; -61.0'; -403.2'; 59.09	
16,878.8	12,256.1	-4,688.0	-352.8	HL Crossing 16878.8' MD; 12256.1' TVD; -4688.0'; -352.8'; 88.24	
16,891.0	12,256.5	-4,700.2	-352.3	Last MWD Survey	
16,945.0	12,257.9	-4,754.1	-350.3	Projection to Bit	

Checked By: _____	Approved By: _____	Date: _____
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