

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-43402	✓
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>	
6. State Oil & Gas Lease No.	
7. Lease Name or Unit Agreement Name Braswell 16 State Com	✓
8. Well Number 707H	✓
9. OGRID Number 7377	✓
10. Pool name or Wildcat *WC-025 G-09 S263327G; Upper Wolfcamp	

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ **OCD - HOBBS**

2. Name of Operator
EOG Resources, Inc. ✓ **09/07/2016 RECEIVED**

3. Address of Operator
P.O. Box 2267 Midland, TX 79702

4. Well Location
Unit Letter D 270 feet from the North line and 800 feet from the West line
Section 16 Township 26S Range 33E NMPM County Lea

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3280' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our approved APD for this well to reflect changes in SHL.

Change SHL from 330' FNL & 800' FWL, 16-26S-33E TO: 270' FNL & 800' FWL, 16-26S-33E

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 9/07/2016

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 09/08/2016

Conditions of Approval (if any):

KZ

Revised Permit Information 9/7/16:**OCD - HOBBS
09/07/2016
RECEIVED**

Well Name: Braswell 16 State No. 707H

Location:

SL: 270' FNL & 800' FWL, Section 16, T-26-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 1210' FWL, Section 16, T-26-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 875'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
8.75"	0' - 10,900'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-17,126'	5.5"	23#	HCP-110	JFE Bear	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
875'	375	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
10,900'	250	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂
	2000	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂
	550	14.4	1.20	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P
17,126'	575	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,400')

Mud Program:

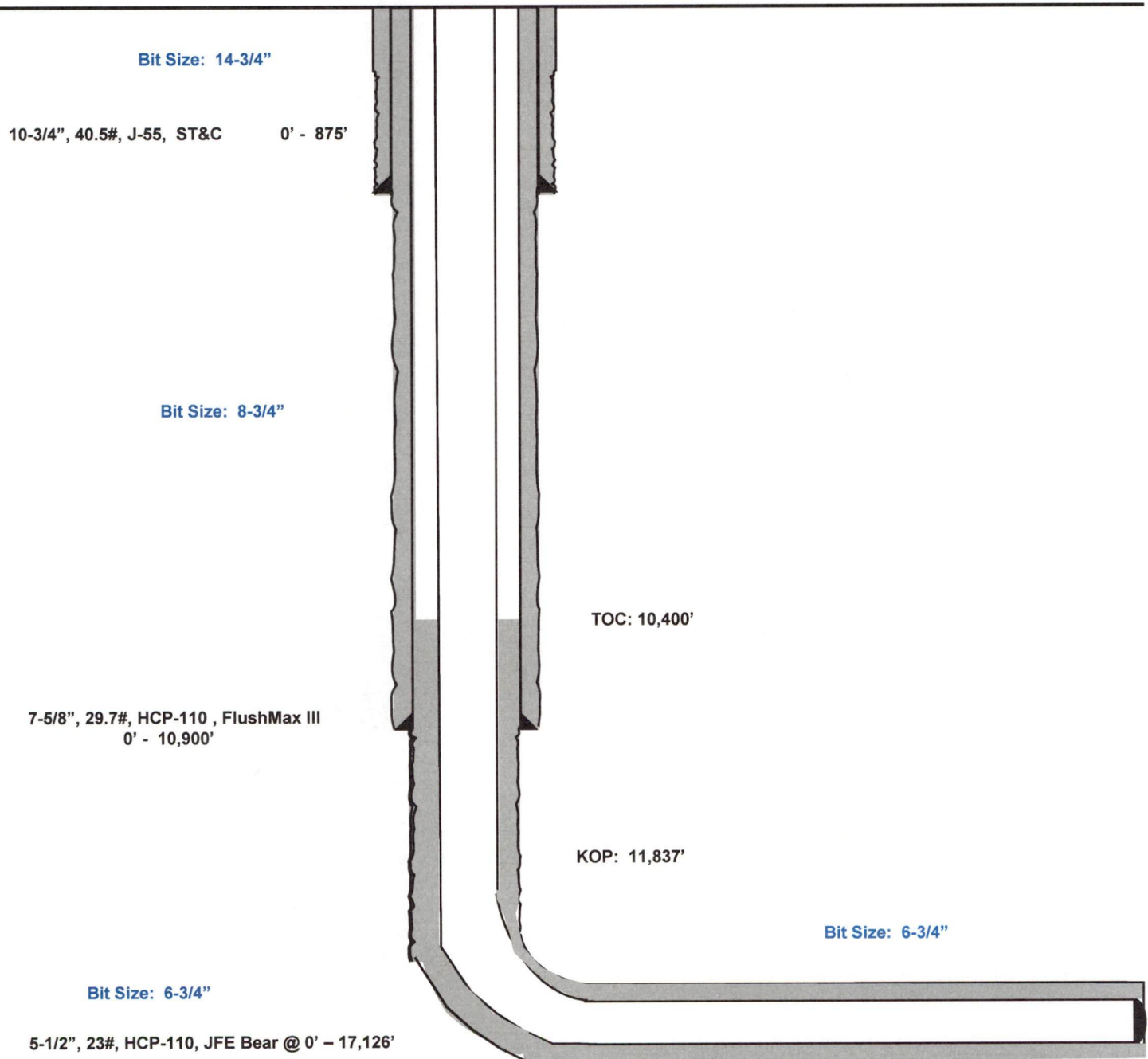
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 875'	Fresh - Gel	8.6-8.8	28-34	N/c
875' - 10,900'	Brine	8.8-10.0	28-34	N/c
10,900' - 11,837'	Oil Base	10.0-11.5	58-68	3 - 6
11,837' - 17,126' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

Braswell 16 State #707H

270' FNL
800' FWL
Section 16
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 9/7/16
API: 30-025-43402

KB: 3,305'
GL: 3,280'



Lateral: 17,126' MD, 12,315' TVD

BH Location: 230' FSL & 1210' FWL
Section 16
T-26-S, R-33-E



Lea County, NM (NAD 27 NME)

Braswell 16 State #707H

Plan #0.3

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: #707H

Ground Level: 3280.0
KB +25 @ 3305.0usft
Northing 382691.00 Easting 732564.00 Latitude 32° 2' 59.677 N Longitude 103° 34' 57.760 W

SECTION DETAILS

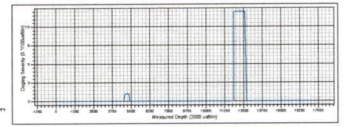
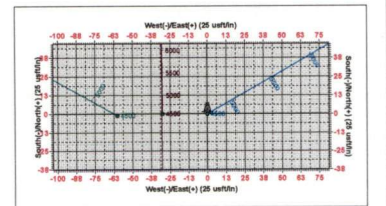
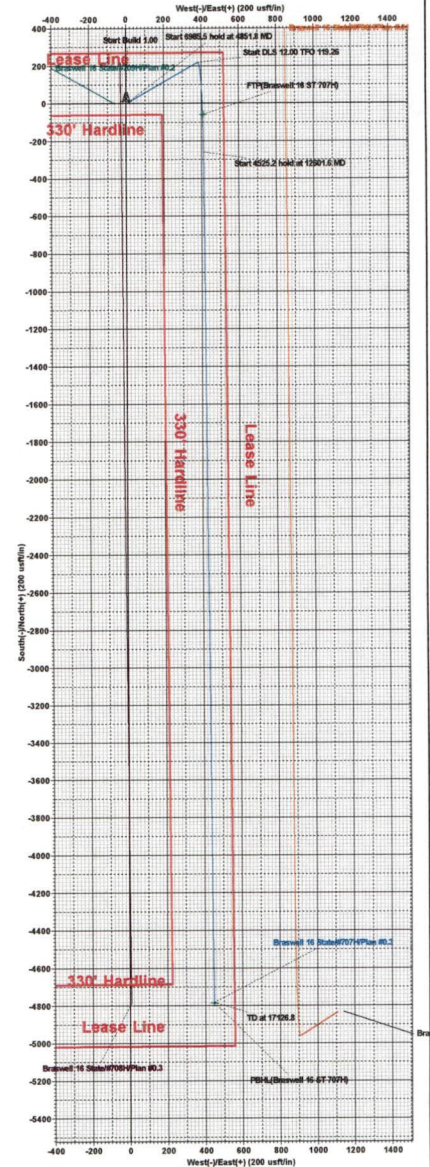
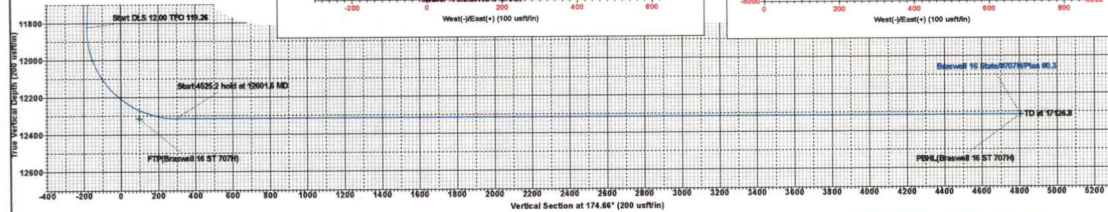
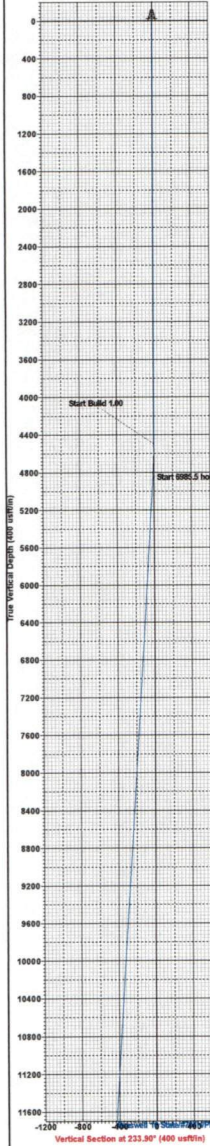
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4851.8	3.52	60.25	4851.6	5.4	9.4	1.00	60.25	-4.5	
4	11837.3	3.52	60.25	11823.9	218.1	381.5	0.00	0.00	-181.7	
5	12601.6	90.00	179.55	12315.0	-258.9	411.6	12.00	119.26	296.1	
6	17126.8	90.00	179.55	12315.0	-4784.0	447.0	0.00	0.00	4804.8	PBHL(Braswell 16 ST 707H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL(Braswell 16 ST 707H)	12315.0	-4784.0	447.0	377907.00	733011.00
FTPI(Braswell 16 ST 707H)	12315.0	-59.0	410.0	382632.00	732974.00



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OCD - HOBBS
09/07/2016
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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Braswell 16 State

#707H

OH

Plan: Plan #0.3

Standard Planning Report

07 September, 2016



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB +25 @ 3305.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB +25 @ 3305.0usft
Site:	Braswell 16 State	North Reference:	Grid
Well:	#707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

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

Well	#707H					
Well Position	+N/-S	4,388.0 usft	Northing:	382,691.00 usft	Latitude:	32° 2' 59.677 N
	+E/-W	-3,783.0 usft	Easting:	732,564.00 usft	Longitude:	103° 34' 57.780 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,280.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/11/2016	7.07	59.92	47,956

Design	Plan #0.3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	174.66

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,851.8	3.52	60.25	4,851.6	5.4	9.4	1.00	1.00	0.00	60.25	
11,837.3	3.52	60.25	11,823.9	218.1	381.5	0.00	0.00	0.00	0.00	
12,601.6	90.00	179.55	12,315.0	-258.9	411.6	12.00	11.31	15.61	119.26	
17,126.8	90.00	179.55	12,315.0	-4,784.0	447.0	0.00	0.00	0.00	0.00	PBHL(Braswell 16 ST)



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #707H
Company:	EOG Resources - Midland	TVD Reference:	KB +25 @ 3305.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB +25 @ 3305.0usft
Site:	Braswell 16 State	North Reference:	Grid
Well:	#707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	60.25	4,600.0	0.4	0.8	-0.4	1.00	1.00	0.00
4,700.0	2.00	60.25	4,700.0	1.7	3.0	-1.4	1.00	1.00	0.00
4,800.0	3.00	60.25	4,799.9	3.9	6.8	-3.2	1.00	1.00	0.00
4,851.8	3.52	60.25	4,851.6	5.4	9.4	-4.5	1.00	1.00	0.00
4,900.0	3.52	60.25	4,899.7	6.8	11.9	-5.7	0.00	0.00	0.00
5,000.0	3.52	60.25	4,999.5	9.9	17.3	-8.2	0.00	0.00	0.00
5,100.0	3.52	60.25	5,099.3	12.9	22.6	-10.8	0.00	0.00	0.00
5,200.0	3.52	60.25	5,199.1	16.0	27.9	-13.3	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Braswell 16 State
Well: #707H
Wellbore: OH
Design: Plan #0.3

Local Co-ordinate Reference: Well #707H
TVD Reference: KB +25 @ 3305.0usft
MD Reference: KB +25 @ 3305.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	3.52	60.25	5,298.9	19.0	33.2	-15.8	0.00	0.00	0.00
5,400.0	3.52	60.25	5,398.7	22.1	38.6	-18.4	0.00	0.00	0.00
5,500.0	3.52	60.25	5,498.6	25.1	43.9	-20.9	0.00	0.00	0.00
5,600.0	3.52	60.25	5,598.4	28.1	49.2	-23.4	0.00	0.00	0.00
5,700.0	3.52	60.25	5,698.2	31.2	54.6	-26.0	0.00	0.00	0.00
5,800.0	3.52	60.25	5,798.0	34.2	59.9	-28.5	0.00	0.00	0.00
5,900.0	3.52	60.25	5,897.8	37.3	65.2	-31.1	0.00	0.00	0.00
6,000.0	3.52	60.25	5,997.6	40.3	70.5	-33.6	0.00	0.00	0.00
6,100.0	3.52	60.25	6,097.4	43.4	75.9	-36.1	0.00	0.00	0.00
6,200.0	3.52	60.25	6,197.2	46.4	81.2	-38.7	0.00	0.00	0.00
6,300.0	3.52	60.25	6,297.0	49.5	86.5	-41.2	0.00	0.00	0.00
6,400.0	3.52	60.25	6,396.9	52.5	91.8	-43.7	0.00	0.00	0.00
6,500.0	3.52	60.25	6,496.7	55.6	97.2	-46.3	0.00	0.00	0.00
6,600.0	3.52	60.25	6,596.5	58.6	102.5	-48.8	0.00	0.00	0.00
6,700.0	3.52	60.25	6,696.3	61.6	107.8	-51.3	0.00	0.00	0.00
6,800.0	3.52	60.25	6,796.1	64.7	113.2	-53.9	0.00	0.00	0.00
6,900.0	3.52	60.25	6,895.9	67.7	118.5	-56.4	0.00	0.00	0.00
7,000.0	3.52	60.25	6,995.7	70.8	123.8	-59.0	0.00	0.00	0.00
7,100.0	3.52	60.25	7,095.5	73.8	129.1	-61.5	0.00	0.00	0.00
7,200.0	3.52	60.25	7,195.4	76.9	134.5	-64.0	0.00	0.00	0.00
7,300.0	3.52	60.25	7,295.2	79.9	139.8	-66.6	0.00	0.00	0.00
7,400.0	3.52	60.25	7,395.0	83.0	145.1	-69.1	0.00	0.00	0.00
7,500.0	3.52	60.25	7,494.8	86.0	150.4	-71.6	0.00	0.00	0.00
7,600.0	3.52	60.25	7,594.6	89.0	155.8	-74.2	0.00	0.00	0.00
7,700.0	3.52	60.25	7,694.4	92.1	161.1	-76.7	0.00	0.00	0.00
7,800.0	3.52	60.25	7,794.2	95.1	166.4	-79.2	0.00	0.00	0.00
7,900.0	3.52	60.25	7,894.0	98.2	171.8	-81.8	0.00	0.00	0.00
8,000.0	3.52	60.25	7,993.8	101.2	177.1	-84.3	0.00	0.00	0.00
8,100.0	3.52	60.25	8,093.7	104.3	182.4	-86.9	0.00	0.00	0.00
8,200.0	3.52	60.25	8,193.5	107.3	187.7	-89.4	0.00	0.00	0.00
8,300.0	3.52	60.25	8,293.3	110.4	193.1	-91.9	0.00	0.00	0.00
8,400.0	3.52	60.25	8,393.1	113.4	198.4	-94.5	0.00	0.00	0.00
8,500.0	3.52	60.25	8,492.9	116.5	203.7	-97.0	0.00	0.00	0.00
8,600.0	3.52	60.25	8,592.7	119.5	209.0	-99.5	0.00	0.00	0.00
8,700.0	3.52	60.25	8,692.5	122.5	214.4	-102.1	0.00	0.00	0.00
8,800.0	3.52	60.25	8,792.3	125.6	219.7	-104.6	0.00	0.00	0.00
8,900.0	3.52	60.25	8,892.2	128.6	225.0	-107.1	0.00	0.00	0.00
9,000.0	3.52	60.25	8,992.0	131.7	230.4	-109.7	0.00	0.00	0.00
9,100.0	3.52	60.25	9,091.8	134.7	235.7	-112.2	0.00	0.00	0.00
9,200.0	3.52	60.25	9,191.6	137.8	241.0	-114.8	0.00	0.00	0.00
9,300.0	3.52	60.25	9,291.4	140.8	246.3	-117.3	0.00	0.00	0.00
9,400.0	3.52	60.25	9,391.2	143.9	251.7	-119.8	0.00	0.00	0.00
9,500.0	3.52	60.25	9,491.0	146.9	257.0	-122.4	0.00	0.00	0.00
9,600.0	3.52	60.25	9,590.8	150.0	262.3	-124.9	0.00	0.00	0.00
9,700.0	3.52	60.25	9,690.6	153.0	267.6	-127.4	0.00	0.00	0.00
9,800.0	3.52	60.25	9,790.5	156.0	273.0	-130.0	0.00	0.00	0.00
9,900.0	3.52	60.25	9,890.3	159.1	278.3	-132.5	0.00	0.00	0.00
10,000.0	3.52	60.25	9,990.1	162.1	283.6	-135.0	0.00	0.00	0.00
10,100.0	3.52	60.25	10,089.9	165.2	289.0	-137.6	0.00	0.00	0.00
10,200.0	3.52	60.25	10,189.7	168.2	294.3	-140.1	0.00	0.00	0.00
10,300.0	3.52	60.25	10,289.5	171.3	299.6	-142.7	0.00	0.00	0.00
10,400.0	3.52	60.25	10,389.3	174.3	304.9	-145.2	0.00	0.00	0.00
10,500.0	3.52	60.25	10,489.1	177.4	310.3	-147.7	0.00	0.00	0.00
10,600.0	3.52	60.25	10,588.9	180.4	315.6	-150.3	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #0.3

Local Co-ordinate Reference:
TVD Reference: KB +25 @ 3305.0usft
MD Reference: KB +25 @ 3305.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	3.52	60.25	10,688.8	183.5	320.9	-152.8	0.00	0.00	0.00
10,800.0	3.52	60.25	10,788.6	186.5	326.2	-155.3	0.00	0.00	0.00
10,900.0	3.52	60.25	10,888.4	189.5	331.6	-157.9	0.00	0.00	0.00
11,000.0	3.52	60.25	10,988.2	192.6	336.9	-160.4	0.00	0.00	0.00
11,100.0	3.52	60.25	11,088.0	195.6	342.2	-162.9	0.00	0.00	0.00
11,200.0	3.52	60.25	11,187.8	198.7	347.6	-165.5	0.00	0.00	0.00
11,300.0	3.52	60.25	11,287.6	201.7	352.9	-168.0	0.00	0.00	0.00
11,400.0	3.52	60.25	11,387.4	204.8	358.2	-170.6	0.00	0.00	0.00
11,500.0	3.52	60.25	11,487.3	207.8	363.5	-173.1	0.00	0.00	0.00
11,600.0	3.52	60.25	11,587.1	210.9	368.9	-175.6	0.00	0.00	0.00
11,700.0	3.52	60.25	11,686.9	213.9	374.2	-178.2	0.00	0.00	0.00
11,800.0	3.52	60.25	11,786.7	217.0	379.5	-180.7	0.00	0.00	0.00
11,837.3	3.52	60.25	11,823.9	218.1	381.5	-181.7	0.00	0.00	0.00
11,850.0	3.07	85.91	11,836.6	218.3	382.2	-181.8	12.00	-3.48	201.83
11,875.0	4.16	132.02	11,861.5	217.7	383.5	-181.1	12.00	4.33	184.42
11,900.0	6.56	151.78	11,886.4	215.9	384.9	-179.1	12.00	9.63	79.06
11,925.0	9.32	160.49	11,911.2	212.7	386.2	-175.9	12.00	11.03	34.82
11,950.0	12.19	165.18	11,935.8	208.3	387.6	-171.3	12.00	11.49	18.80
11,975.0	15.11	168.10	11,960.0	202.5	388.9	-165.5	12.00	11.68	11.67
12,000.0	18.06	170.09	11,984.0	195.5	390.3	-158.3	12.00	11.79	7.95
12,025.0	21.02	171.53	12,007.6	187.2	391.6	-150.0	12.00	11.84	5.78
12,050.0	23.99	172.63	12,030.7	177.8	392.9	-140.4	12.00	11.88	4.40
12,075.0	26.97	173.50	12,053.2	167.1	394.2	-129.7	12.00	11.91	3.48
12,100.0	29.95	174.21	12,075.2	155.3	395.5	-117.8	12.00	11.92	2.84
12,125.0	32.93	174.80	12,096.5	142.3	396.7	-104.8	12.00	11.94	2.37
12,150.0	35.92	175.31	12,117.1	128.2	397.9	-90.6	12.00	11.95	2.01
12,175.0	38.91	175.74	12,137.0	113.1	399.1	-75.4	12.00	11.95	1.74
12,200.0	41.90	176.13	12,156.0	96.9	400.3	-59.2	12.00	11.96	1.53
12,225.0	44.89	176.47	12,174.2	79.8	401.4	-42.1	12.00	11.96	1.36
12,250.0	47.88	176.77	12,191.4	61.7	402.4	-24.0	12.00	11.97	1.23
12,275.0	50.87	177.05	12,207.7	42.7	403.5	-5.0	12.00	11.97	1.12
12,300.0	53.86	177.31	12,223.0	23.0	404.4	14.7	12.00	11.97	1.02
12,325.0	56.86	177.55	12,237.2	2.4	405.3	35.3	12.00	11.97	0.95
12,350.0	59.85	177.77	12,250.3	-18.8	406.2	56.5	12.00	11.98	0.89
12,375.0	62.85	177.98	12,262.3	-40.8	407.0	78.4	12.00	11.98	0.83
12,400.0	65.84	178.17	12,273.1	-63.3	407.8	100.9	12.00	11.98	0.79
12,412.3	67.31	178.27	12,278.0	-74.5	408.1	112.2	12.00	11.98	0.76
FTP(Braswell 16 ST 707H)									
12,425.0	68.84	178.36	12,282.7	-86.3	408.5	124.0	12.00	11.98	0.75
12,450.0	71.83	178.54	12,291.2	-109.9	409.1	147.4	12.00	11.98	0.72
12,475.0	74.83	178.72	12,298.3	-133.8	409.7	171.3	12.00	11.98	0.70
12,500.0	77.82	178.89	12,304.2	-158.1	410.2	195.6	12.00	11.98	0.68
12,525.0	80.82	179.05	12,308.9	-182.6	410.6	220.1	12.00	11.98	0.67
12,550.0	83.81	179.22	12,312.2	-207.4	411.0	244.8	12.00	11.98	0.65
12,575.0	86.81	179.38	12,314.3	-232.3	411.3	269.6	12.00	11.98	0.65
12,601.6	90.00	179.55	12,315.0	-258.9	411.6	296.1	12.00	11.98	0.64
12,700.0	90.00	179.55	12,315.0	-357.3	412.3	394.1	0.00	0.00	0.00
12,800.0	90.00	179.55	12,315.0	-457.3	413.1	493.8	0.00	0.00	0.00
12,900.0	90.00	179.55	12,315.0	-557.3	413.9	593.4	0.00	0.00	0.00
13,000.0	90.00	179.55	12,315.0	-657.3	414.7	693.0	0.00	0.00	0.00
13,100.0	90.00	179.55	12,315.0	-757.3	415.5	792.7	0.00	0.00	0.00
13,200.0	90.00	179.55	12,315.0	-857.3	416.3	892.3	0.00	0.00	0.00
13,300.0	90.00	179.55	12,315.0	-957.3	417.0	991.9	0.00	0.00	0.00



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.55	12,315.0	-1,057.3	417.8	1,091.6	0.00	0.00	0.00
13,500.0	90.00	179.55	12,315.0	-1,157.3	418.6	1,191.2	0.00	0.00	0.00
13,600.0	90.00	179.55	12,315.0	-1,257.3	419.4	1,290.8	0.00	0.00	0.00
13,700.0	90.00	179.55	12,315.0	-1,357.3	420.2	1,390.5	0.00	0.00	0.00
13,800.0	90.00	179.55	12,315.0	-1,457.3	420.9	1,490.1	0.00	0.00	0.00
13,900.0	90.00	179.55	12,315.0	-1,557.3	421.7	1,589.8	0.00	0.00	0.00
14,000.0	90.00	179.55	12,315.0	-1,657.3	422.5	1,689.4	0.00	0.00	0.00
14,100.0	90.00	179.55	12,315.0	-1,757.3	423.3	1,789.0	0.00	0.00	0.00
14,200.0	90.00	179.55	12,315.0	-1,857.3	424.1	1,888.7	0.00	0.00	0.00
14,300.0	90.00	179.55	12,315.0	-1,957.3	424.9	1,988.3	0.00	0.00	0.00
14,400.0	90.00	179.55	12,315.0	-2,057.3	425.6	2,087.9	0.00	0.00	0.00
14,500.0	90.00	179.55	12,315.0	-2,157.3	426.4	2,187.6	0.00	0.00	0.00
14,600.0	90.00	179.55	12,315.0	-2,257.3	427.2	2,287.2	0.00	0.00	0.00
14,700.0	90.00	179.55	12,315.0	-2,357.2	428.0	2,386.8	0.00	0.00	0.00
14,800.0	90.00	179.55	12,315.0	-2,457.2	428.8	2,486.5	0.00	0.00	0.00
14,900.0	90.00	179.55	12,315.0	-2,557.2	429.6	2,586.1	0.00	0.00	0.00
15,000.0	90.00	179.55	12,315.0	-2,657.2	430.3	2,685.8	0.00	0.00	0.00
15,100.0	90.00	179.55	12,315.0	-2,757.2	431.1	2,785.4	0.00	0.00	0.00
15,200.0	90.00	179.55	12,315.0	-2,857.2	431.9	2,885.0	0.00	0.00	0.00
15,300.0	90.00	179.55	12,315.0	-2,957.2	432.7	2,984.7	0.00	0.00	0.00
15,400.0	90.00	179.55	12,315.0	-3,057.2	433.5	3,084.3	0.00	0.00	0.00
15,500.0	90.00	179.55	12,315.0	-3,157.2	434.3	3,183.9	0.00	0.00	0.00
15,600.0	90.00	179.55	12,315.0	-3,257.2	435.0	3,283.6	0.00	0.00	0.00
15,700.0	90.00	179.55	12,315.0	-3,357.2	435.8	3,383.2	0.00	0.00	0.00
15,800.0	90.00	179.55	12,315.0	-3,457.2	436.6	3,482.8	0.00	0.00	0.00
15,900.0	90.00	179.55	12,315.0	-3,557.2	437.4	3,582.5	0.00	0.00	0.00
16,000.0	90.00	179.55	12,315.0	-3,657.2	438.2	3,682.1	0.00	0.00	0.00
16,100.0	90.00	179.55	12,315.0	-3,757.2	439.0	3,781.7	0.00	0.00	0.00
16,200.0	90.00	179.55	12,315.0	-3,857.2	439.7	3,881.4	0.00	0.00	0.00
16,300.0	90.00	179.55	12,315.0	-3,957.2	440.5	3,981.0	0.00	0.00	0.00
16,400.0	90.00	179.55	12,315.0	-4,057.2	441.3	4,080.7	0.00	0.00	0.00
16,500.0	90.00	179.55	12,315.0	-4,157.2	442.1	4,180.3	0.00	0.00	0.00
16,600.0	90.00	179.55	12,315.0	-4,257.2	442.9	4,279.9	0.00	0.00	0.00
16,700.0	90.00	179.55	12,315.0	-4,357.2	443.7	4,379.6	0.00	0.00	0.00
16,800.0	90.00	179.55	12,315.0	-4,457.2	444.4	4,479.2	0.00	0.00	0.00
16,900.0	90.00	179.55	12,315.0	-4,557.2	445.2	4,578.8	0.00	0.00	0.00
17,000.0	90.00	179.55	12,315.0	-4,657.2	446.0	4,678.5	0.00	0.00	0.00
17,100.0	90.00	179.55	12,315.0	-4,757.2	446.8	4,778.1	0.00	0.00	0.00
17,126.8	90.00	179.55	12,315.0	-4,784.0	447.0	4,804.8	0.00	0.00	0.00

PBHL(Braswell 16 ST 707H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP(Braswell 16 ST 707	0.00	0.01	12,315.0	-59.0	410.0	382,632.00	732,974.00	32° 2' 59.065 N	103° 34' 53.021 W
- plan misses target center by 40.2usft at 12412.3usft MD (12278.0 TVD, -74.5 N, 408.1 E)									
- Point									
PBHL(Braswell 16 ST 707H)	0.00	0.00	12,315.0	-4,784.0	447.0	377,907.00	733,011.00	32° 2' 12.304 N	103° 34' 52.973 W
- plan hits target center									
- Point									



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Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB +25 @ 3305.0usft
Site:	Braswell 16 State	North Reference:	Grid
Well:	#707H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.3		