

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42153	² Pool Code 98094	³ Pool Name WC-025 G-09 5253336D; UPPER WC
⁴ Property Code 38961	⁵ Property Name BROWN BEAR 36 STATE	
⁶ GRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁷ Well Number 701H
		⁹ Elevation 3335'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	25-S	33-E	-	230'	NORTH	805'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	25-S	33-E	-	230'	SOUTH	380'	WEST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	¹⁷OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>Stan Wagner</u> Date: <u>10/15/14</u> Printed Name: <u>Stan Wagner</u> E-mail Address: _____	
	¹⁸SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey: <u>09/08/2014</u> Signature and Seal of Professional Surveyor: <u>Michael P. Brown</u> Certificate Number: <u>18329</u>	

Revised Permit Information:

Well Name: Brown Bear 36 State No. 701H

Location:

SL: 230' FNL & 805' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FSL & 380' FWL, Section 36, T-25-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
12.25"	0 - 1,300'	9.625"	40#	J55	STC	1.125	1.25	1.60
8.75"	0-11,450'	7"	26#	HCL-80	LTC	1.125	1.25	1.60
6.125"	0'-17,271'	4.5"	13.5#	HCP-110	BTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,300'	350	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
11,450' DV Tool @ 5,000'	300	10.8	3.68	Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free
	200	14.2	1.32	Stage 1 Tail: Class H + 0.65% FL-52 + 0.6% CD-32 + 1.0% EC-1 + 0.65% SMS + 2.0% Salt + 0.2% R-21 + 0.005 gps FP-6L + 0.005 pps Static Free
	400	12.7	2.22	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	200	14.8	1.35	Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,271'	575	11.9	2.36	50:50:6 Class H + 0.20% FL-52 + 0.75% CD-32 + 1.0% EC-1 + 0.15% ASA-301 + 1.60% SMS + 5.0% Salt + 0.50% R-21 + 5.0 pps LCM-1 (TOC @ 10,250')
	450	14.2	1.35	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L

Mud Program:

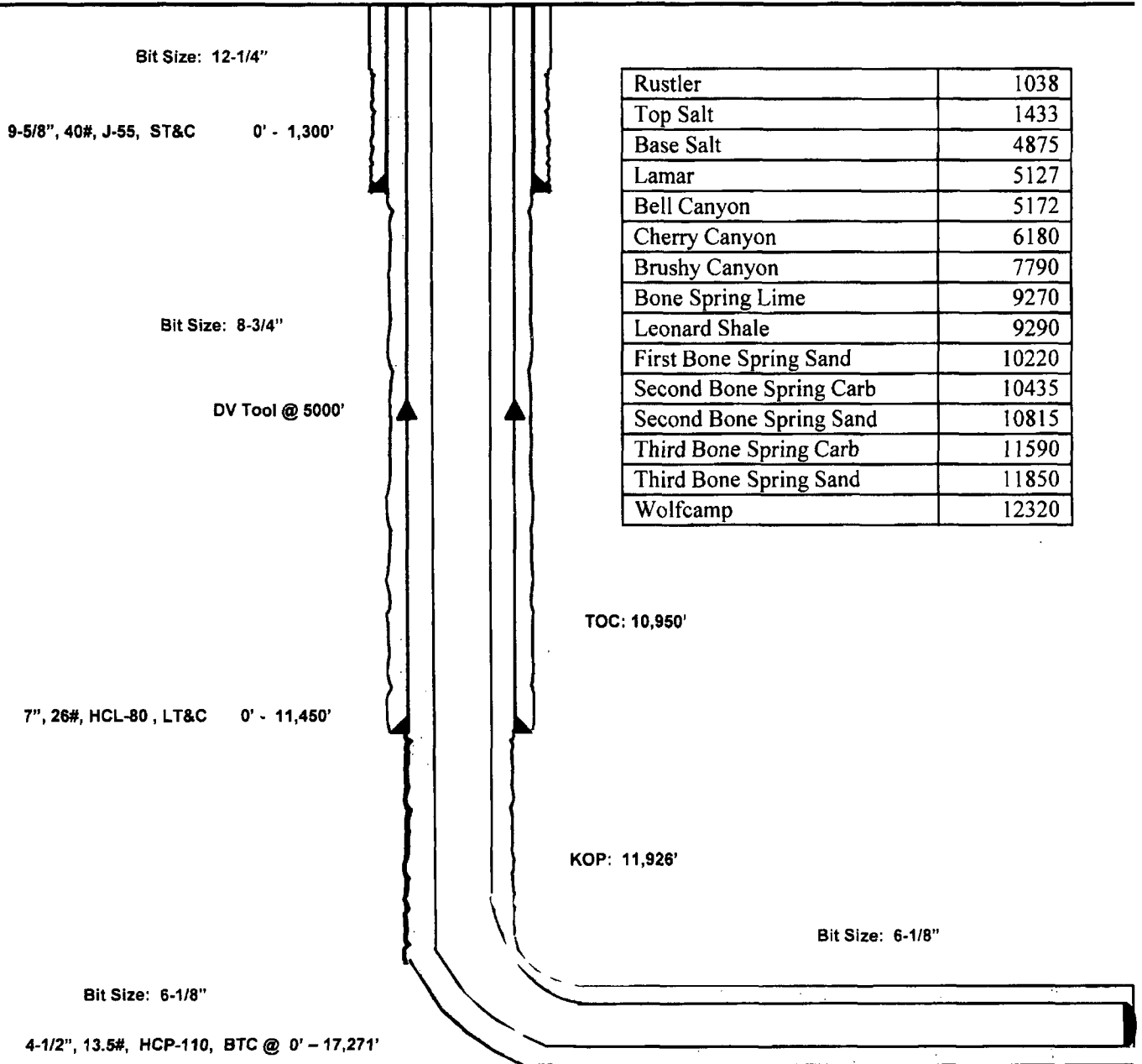
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,300'	Fresh - Gel	8.6-8.8	28-34	N/c
1,300' - 11,450'	Oil Base	8.7-9.4	58-68	N/c - 6
11,450' - 11,926'	Oil Base	8.7-9.4	58-68	N/c - 6
11,926' - 17,271' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

Brown Bear 36 State #701H

230' FNL
805' FWL
Section 36
T-25-S, R-33-E

Lea County, New Mexico
Proposed Wellbore
Revised 10/15/14
API: 30-025-42153

KB: 3,360'
GL: 3,335'



Lateral: 17,271' MD, 12,500' TVD

BH Location: 230' FSL & 380' FWL
Section 36
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)
Brown Bear 36 State #701H
Plan #2

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



Azimuths to Grid North
 True North: -0.43°
 Magnetic North: 0.73°

Magnetic Field
 Strength: 48213.4 nT
 Dip Angle: 59.90°
 Date: 9/28/2014
 Model: IGRF2014

To convert a Magnetic Direction to a Grid Direction, Add 0.73°
 To convert a Magnetic Direction to a True Direction, Add 0.43°
 To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: Brown Bear 36 State #701H

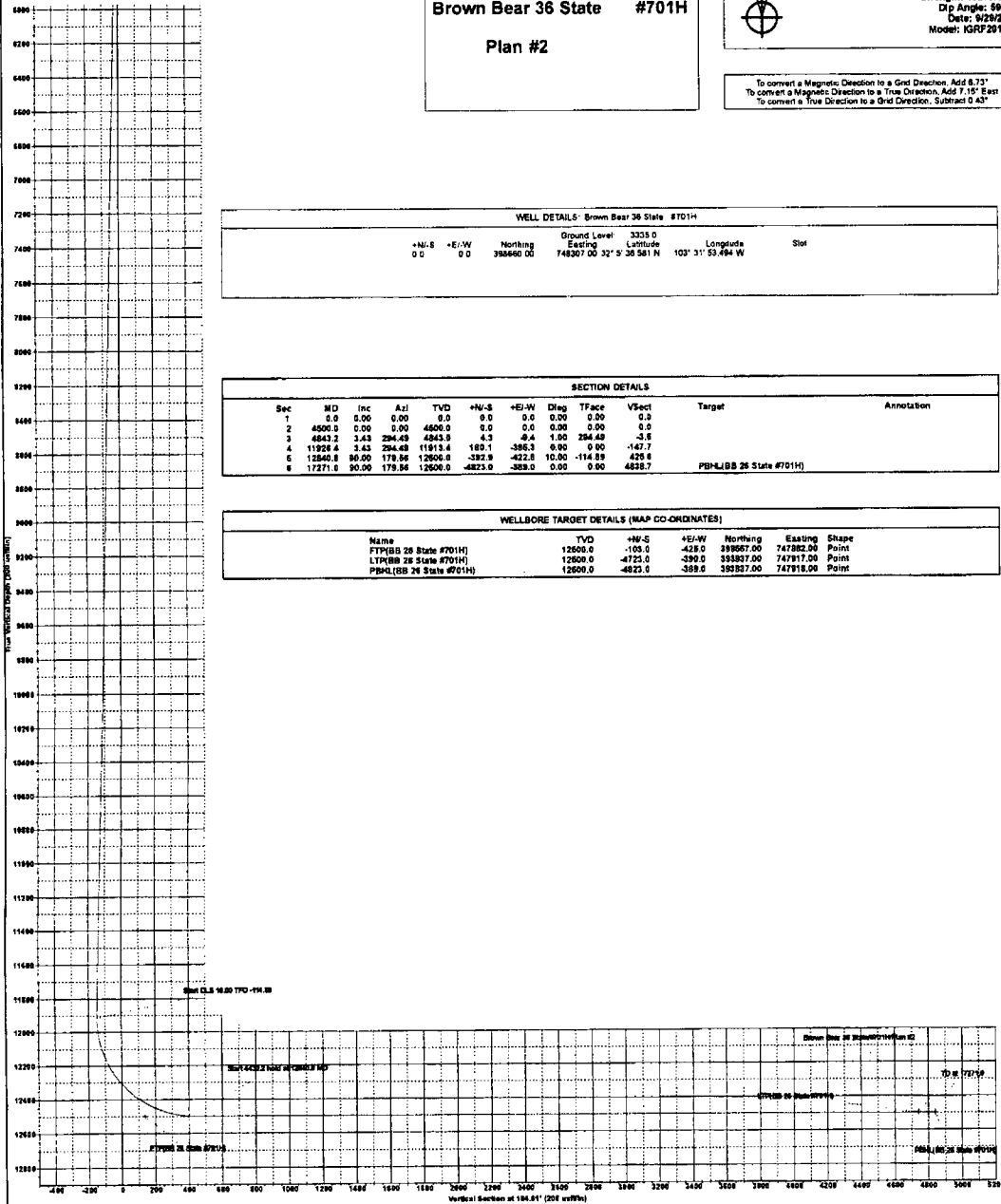
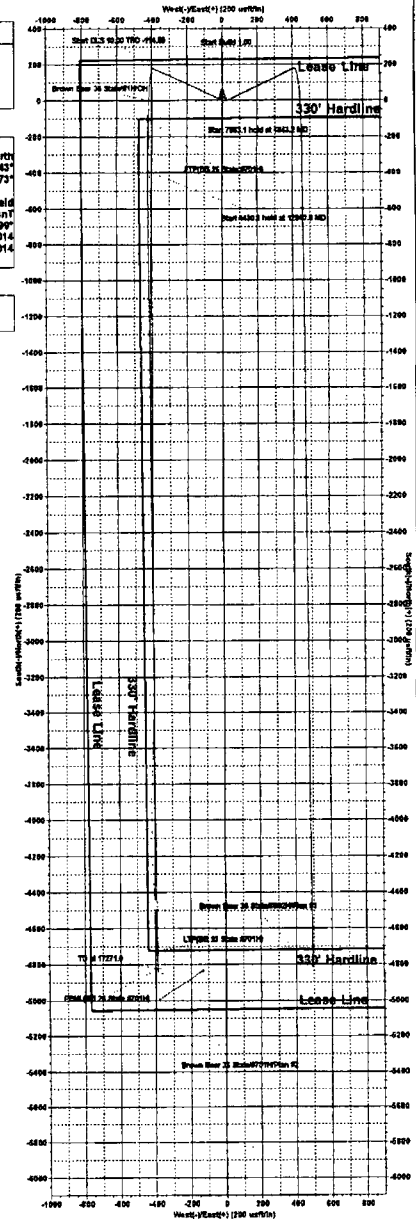
+N/-S	+E/-W	Northing	Easting	Longitude	Lat
0.0	0.0	398460.00	748307.00	32° 5' 36.561 N	103° 31' 53.494 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Drag	TFace	VFace	Target	Annotation
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	4843.2	3.43	296.49	4843.0	4.3	8.4	1.00	296.49	-3.8		
4	11925.4	3.43	296.49	11913.4	180.1	-386.3	0.00	0.00	-147.7		
5	12540.8	86.00	179.56	12506.0	-392.9	-422.8	10.00	-114.89	426.6		
6	17271.0	90.00	179.56	12500.0	-4823.0	-389.0	0.00	0.00	4826.7	PHLBB 26 State #701H	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(BB 26 State #701H)	12500.0	-105.0	-425.0	399667.00	747882.00	Point
LTP(BB 26 State #701H)	12500.0	-4723.0	-390.0	399387.00	747817.00	Point
PHL(BB 26 State #701H)	12500.0	-4823.0	-389.0	399387.00	747818.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Brown Bear 36 State

#701H

OH

Plan: Plan #2

Standard Planning Report

14 October, 2014



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Brown Bear 36 State
Well: #701H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3360.0usft
MD Reference: KB = 25 @ 3360.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Brown Bear 36 State			
Site Position:		Northing:	398,660.00 usft	Latitude: 32° 5' 36.581 N
From: Map		Easting:	748,307.00 usft	Longitude: 103° 31' 53.494 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.43 °

Well	#701H			
Well Position	+N/-S	0.0 usft	Northing:	398,660.00 usft
	+E/-W	0.0 usft	Easting:	748,307.00 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level:	3,335.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	9/29/2014	7.15	59.99	48,213

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	184.61

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	
4,843.2	3.43	294.49	4,843.0	4.3	-9.4	1.00	1.00	0.00	294.49	
11,926.4	3.43	294.49	11,913.4	180.1	-395.3	0.00	0.00	0.00	0.00	
12,840.8	90.00	179.56	12,500.0	-392.9	-422.8	10.00	9.47	-12.57	-114.89	
17,271.0	90.00	179.56	12,500.0	-4,823.0	-389.0	0.00	0.00	0.00	0.00	PBHL(BB 26 State #7



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Brown Bear 36 State
Well: #701H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3360.0usft
MD Reference: KB = 25 @ 3360.0usft
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)
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	294.49	4,600.0	0.4	-0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	294.49	4,700.0	1.4	-3.2	-1.2	1.00	1.00	0.00
4,800.0	3.00	294.49	4,799.9	3.3	-7.1	-2.7	1.00	1.00	0.00
4,843.2	3.43	294.49	4,843.0	4.3	-9.4	-3.5	1.00	1.00	0.00
4,900.0	3.43	294.49	4,899.7	5.7	-12.4	-4.7	0.00	0.00	0.00
5,000.0	3.43	294.49	4,999.5	8.2	-17.9	-6.7	0.00	0.00	0.00
5,100.0	3.43	294.49	5,099.3	10.6	-23.3	-8.7	0.00	0.00	0.00
5,200.0	3.43	294.49	5,199.2	13.1	-28.8	-10.8	0.00	0.00	0.00



EOG Resources, Inc.

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Well: #701H
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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)
5,300.0	3.43	294.49	5,299.0	15.6	-34.2	-12.8	0.00	0.00	0.00
5,400.0	3.43	294.49	5,398.8	18.1	-39.7	-14.8	0.00	0.00	0.00
5,500.0	3.43	294.49	5,498.6	20.6	-45.1	-16.9	0.00	0.00	0.00
5,600.0	3.43	294.49	5,598.4	23.0	-50.6	-18.9	0.00	0.00	0.00
5,700.0	3.43	294.49	5,698.3	25.5	-56.0	-20.9	0.00	0.00	0.00
5,800.0	3.43	294.49	5,798.1	28.0	-61.5	-23.0	0.00	0.00	0.00
5,900.0	3.43	294.49	5,897.9	30.5	-66.9	-25.0	0.00	0.00	0.00
6,000.0	3.43	294.49	5,997.7	33.0	-72.4	-27.0	0.00	0.00	0.00
6,100.0	3.43	294.49	6,097.5	35.5	-77.8	-29.1	0.00	0.00	0.00
6,200.0	3.43	294.49	6,197.4	37.9	-83.3	-31.1	0.00	0.00	0.00
6,300.0	3.43	294.49	6,297.2	40.4	-88.7	-33.2	0.00	0.00	0.00
6,400.0	3.43	294.49	6,397.0	42.9	-94.2	-35.2	0.00	0.00	0.00
6,500.0	3.43	294.49	6,496.8	45.4	-99.6	-37.2	0.00	0.00	0.00
6,600.0	3.43	294.49	6,596.6	47.9	-105.1	-39.3	0.00	0.00	0.00
6,700.0	3.43	294.49	6,696.5	50.3	-110.5	-41.3	0.00	0.00	0.00
6,800.0	3.43	294.49	6,796.3	52.8	-116.0	-43.3	0.00	0.00	0.00
6,900.0	3.43	294.49	6,896.1	55.3	-121.4	-45.4	0.00	0.00	0.00
7,000.0	3.43	294.49	6,995.9	57.8	-126.9	-47.4	0.00	0.00	0.00
7,100.0	3.43	294.49	7,095.7	60.3	-132.3	-49.4	0.00	0.00	0.00
7,200.0	3.43	294.49	7,195.6	62.8	-137.8	-51.5	0.00	0.00	0.00
7,300.0	3.43	294.49	7,295.4	65.2	-143.2	-53.5	0.00	0.00	0.00
7,400.0	3.43	294.49	7,395.2	67.7	-148.7	-55.6	0.00	0.00	0.00
7,500.0	3.43	294.49	7,495.0	70.2	-154.1	-57.6	0.00	0.00	0.00
7,600.0	3.43	294.49	7,594.8	72.7	-159.5	-59.6	0.00	0.00	0.00
7,700.0	3.43	294.49	7,694.7	75.2	-165.0	-61.7	0.00	0.00	0.00
7,800.0	3.43	294.49	7,794.5	77.7	-170.4	-63.7	0.00	0.00	0.00
7,900.0	3.43	294.49	7,894.3	80.1	-175.9	-65.7	0.00	0.00	0.00
8,000.0	3.43	294.49	7,994.1	82.6	-181.3	-67.8	0.00	0.00	0.00
8,100.0	3.43	294.49	8,094.0	85.1	-186.8	-69.8	0.00	0.00	0.00
8,200.0	3.43	294.49	8,193.8	87.6	-192.2	-71.8	0.00	0.00	0.00
8,300.0	3.43	294.49	8,293.6	90.1	-197.7	-73.9	0.00	0.00	0.00
8,400.0	3.43	294.49	8,393.4	92.5	-203.1	-75.9	0.00	0.00	0.00
8,500.0	3.43	294.49	8,493.2	95.0	-208.6	-78.0	0.00	0.00	0.00
8,600.0	3.43	294.49	8,593.1	97.5	-214.0	-80.0	0.00	0.00	0.00
8,700.0	3.43	294.49	8,692.9	100.0	-219.5	-82.0	0.00	0.00	0.00
8,800.0	3.43	294.49	8,792.7	102.5	-224.9	-84.1	0.00	0.00	0.00
8,900.0	3.43	294.49	8,892.5	105.0	-230.4	-86.1	0.00	0.00	0.00
9,000.0	3.43	294.49	8,992.3	107.4	-235.8	-88.1	0.00	0.00	0.00
9,100.0	3.43	294.49	9,092.2	109.9	-241.3	-90.2	0.00	0.00	0.00
9,200.0	3.43	294.49	9,192.0	112.4	-246.7	-92.2	0.00	0.00	0.00
9,300.0	3.43	294.49	9,291.8	114.9	-252.2	-94.2	0.00	0.00	0.00
9,400.0	3.43	294.49	9,391.6	117.4	-257.6	-96.3	0.00	0.00	0.00
9,500.0	3.43	294.49	9,491.4	119.8	-263.1	-98.3	0.00	0.00	0.00
9,600.0	3.43	294.49	9,591.3	122.3	-268.5	-100.3	0.00	0.00	0.00
9,700.0	3.43	294.49	9,691.1	124.8	-274.0	-102.4	0.00	0.00	0.00
9,800.0	3.43	294.49	9,790.9	127.3	-279.4	-104.4	0.00	0.00	0.00
9,900.0	3.43	294.49	9,890.7	129.8	-284.9	-106.5	0.00	0.00	0.00
10,000.0	3.43	294.49	9,990.5	132.3	-290.3	-108.5	0.00	0.00	0.00
10,100.0	3.43	294.49	10,090.4	134.7	-295.8	-110.5	0.00	0.00	0.00
10,200.0	3.43	294.49	10,190.2	137.2	-301.2	-112.6	0.00	0.00	0.00
10,300.0	3.43	294.49	10,290.0	139.7	-306.6	-114.6	0.00	0.00	0.00
10,400.0	3.43	294.49	10,389.8	142.2	-312.1	-116.6	0.00	0.00	0.00
10,500.0	3.43	294.49	10,489.6	144.7	-317.5	-118.7	0.00	0.00	0.00
10,600.0	3.43	294.49	10,589.5	147.2	-323.0	-120.7	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: Brown Bear 36 State
 Well: #701H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3360.0usft
 MD Reference: KB = 25 @ 3360.0usft
 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	3.43	294.49	10,689.3	149.6	-328.4	-122.7	0.00	0.00	0.00
10,800.0	3.43	294.49	10,789.1	152.1	-333.9	-124.8	0.00	0.00	0.00
10,900.0	3.43	294.49	10,888.9	154.6	-339.3	-126.8	0.00	0.00	0.00
11,000.0	3.43	294.49	10,988.8	157.1	-344.8	-128.9	0.00	0.00	0.00
11,100.0	3.43	294.49	11,088.6	159.6	-350.2	-130.9	0.00	0.00	0.00
11,200.0	3.43	294.49	11,188.4	162.0	-355.7	-132.9	0.00	0.00	0.00
11,300.0	3.43	294.49	11,288.2	164.5	-361.1	-135.0	0.00	0.00	0.00
11,400.0	3.43	294.49	11,388.0	167.0	-366.6	-137.0	0.00	0.00	0.00
11,500.0	3.43	294.49	11,487.9	169.5	-372.0	-139.0	0.00	0.00	0.00
11,600.0	3.43	294.49	11,587.7	172.0	-377.5	-141.1	0.00	0.00	0.00
11,700.0	3.43	294.49	11,687.5	174.5	-382.9	-143.1	0.00	0.00	0.00
11,800.0	3.43	294.49	11,787.3	176.9	-388.4	-145.1	0.00	0.00	0.00
11,900.0	3.43	294.49	11,887.1	179.4	-393.8	-147.2	0.00	0.00	0.00
11,926.4	3.43	294.49	11,913.4	180.1	-395.3	-147.7	0.00	0.00	0.00
11,950.0	3.25	253.13	11,937.1	180.2	-396.5	-147.7	10.00	-0.79	-174.99
12,000.0	6.68	207.21	11,986.9	177.2	-399.2	-144.5	10.00	6.88	-91.83
12,050.0	11.35	195.29	12,036.2	169.8	-401.9	-137.0	10.00	9.33	-23.85
12,100.0	16.21	190.34	12,084.8	158.2	-404.4	-125.2	10.00	9.73	-9.89
12,150.0	21.14	187.65	12,132.1	142.4	-406.9	-109.2	10.00	9.85	-5.39
12,200.0	26.09	185.94	12,177.9	122.5	-409.2	-89.2	10.00	9.91	-3.42
12,250.0	31.06	184.74	12,221.8	98.7	-411.4	-65.3	10.00	9.93	-2.39
12,300.0	36.03	183.85	12,263.5	71.2	-413.5	-37.7	10.00	9.95	-1.79
12,350.0	41.02	183.15	12,302.6	40.1	-415.4	-6.6	10.00	9.96	-1.40
12,400.0	46.00	182.57	12,338.9	5.7	-417.1	27.8	10.00	9.97	-1.15
12,450.0	50.99	182.09	12,372.0	-31.7	-418.6	65.2	10.00	9.97	-0.97
12,500.0	55.98	181.67	12,401.7	-71.8	-419.9	105.3	10.00	9.98	-0.84
12,550.0	60.96	181.29	12,427.9	-114.4	-421.0	147.9	10.00	9.98	-0.75
12,572.1	63.17	181.14	12,438.2	-133.9	-421.4	167.4	10.00	9.98	-0.70
FTP(BB 26 State #701H)									
12,600.0	65.96	180.95	12,450.2	-159.1	-421.9	192.5	10.00	9.98	-0.67
12,650.0	70.95	180.64	12,468.6	-205.6	-422.5	238.9	10.00	9.98	-0.63
12,700.0	75.94	180.34	12,482.8	-253.5	-422.9	288.7	10.00	9.98	-0.59
12,750.0	80.93	180.06	12,492.8	-302.5	-423.1	335.5	10.00	9.98	-0.57
12,800.0	85.92	179.79	12,498.5	-352.1	-423.0	385.0	10.00	9.99	-0.55
12,840.8	90.00	179.56	12,500.0	-392.9	-422.8	425.6	10.00	9.99	-0.54
12,900.0	90.00	179.56	12,500.0	-452.1	-422.3	484.6	0.00	0.00	0.00
13,000.0	90.00	179.56	12,500.0	-552.1	-421.6	584.2	0.00	0.00	0.00
13,100.0	90.00	179.56	12,500.0	-652.1	-420.8	683.8	0.00	0.00	0.00
13,200.0	90.00	179.56	12,500.0	-752.1	-420.0	783.4	0.00	0.00	0.00
13,300.0	90.00	179.56	12,500.0	-852.1	-419.3	883.0	0.00	0.00	0.00
13,400.0	90.00	179.56	12,500.0	-952.1	-418.5	982.7	0.00	0.00	0.00
13,500.0	90.00	179.56	12,500.0	-1,052.1	-417.8	1,082.3	0.00	0.00	0.00
13,600.0	90.00	179.56	12,500.0	-1,152.1	-417.0	1,181.9	0.00	0.00	0.00
13,700.0	90.00	179.56	12,500.0	-1,252.1	-416.2	1,281.5	0.00	0.00	0.00
13,800.0	90.00	179.56	12,500.0	-1,352.1	-415.5	1,381.1	0.00	0.00	0.00
13,900.0	90.00	179.56	12,500.0	-1,452.1	-414.7	1,480.7	0.00	0.00	0.00
14,000.0	90.00	179.56	12,500.0	-1,552.1	-413.9	1,580.3	0.00	0.00	0.00
14,100.0	90.00	179.56	12,500.0	-1,652.1	-413.2	1,679.9	0.00	0.00	0.00
14,200.0	90.00	179.56	12,500.0	-1,752.1	-412.4	1,779.6	0.00	0.00	0.00
14,300.0	90.00	179.56	12,500.0	-1,852.1	-411.7	1,879.2	0.00	0.00	0.00
14,400.0	90.00	179.56	12,500.0	-1,952.1	-410.9	1,978.8	0.00	0.00	0.00
14,500.0	90.00	179.56	12,500.0	-2,052.1	-410.1	2,078.4	0.00	0.00	0.00
14,600.0	90.00	179.56	12,500.0	-2,152.1	-409.4	2,178.0	0.00	0.00	0.00



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 Wellbore: OH
 Design: Plan #2

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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)
14,700.0	90.00	179.56	12,500.0	-2,252.1	-408.6	2,277.6	0.00	0.00	0.00
14,800.0	90.00	179.56	12,500.0	-2,352.1	-407.8	2,377.2	0.00	0.00	0.00
14,900.0	90.00	179.56	12,500.0	-2,452.0	-407.1	2,476.8	0.00	0.00	0.00
15,000.0	90.00	179.56	12,500.0	-2,552.0	-406.3	2,576.4	0.00	0.00	0.00
15,100.0	90.00	179.56	12,500.0	-2,652.0	-405.6	2,676.1	0.00	0.00	0.00
15,200.0	90.00	179.56	12,500.0	-2,752.0	-404.8	2,775.7	0.00	0.00	0.00
15,300.0	90.00	179.56	12,500.0	-2,852.0	-404.0	2,875.3	0.00	0.00	0.00
15,400.0	90.00	179.56	12,500.0	-2,952.0	-403.3	2,974.9	0.00	0.00	0.00
15,500.0	90.00	179.56	12,500.0	-3,052.0	-402.5	3,074.5	0.00	0.00	0.00
15,600.0	90.00	179.56	12,500.0	-3,152.0	-401.7	3,174.1	0.00	0.00	0.00
15,700.0	90.00	179.56	12,500.0	-3,252.0	-401.0	3,273.7	0.00	0.00	0.00
15,800.0	90.00	179.56	12,500.0	-3,352.0	-400.2	3,373.3	0.00	0.00	0.00
15,900.0	90.00	179.56	12,500.0	-3,452.0	-399.5	3,473.0	0.00	0.00	0.00
16,000.0	90.00	179.56	12,500.0	-3,552.0	-398.7	3,572.6	0.00	0.00	0.00
16,100.0	90.00	179.56	12,500.0	-3,652.0	-397.9	3,672.2	0.00	0.00	0.00
16,200.0	90.00	179.56	12,500.0	-3,752.0	-397.2	3,771.8	0.00	0.00	0.00
16,300.0	90.00	179.56	12,500.0	-3,852.0	-396.4	3,871.4	0.00	0.00	0.00
16,400.0	90.00	179.56	12,500.0	-3,952.0	-395.6	3,971.0	0.00	0.00	0.00
16,500.0	90.00	179.56	12,500.0	-4,052.0	-394.9	4,070.6	0.00	0.00	0.00
16,600.0	90.00	179.56	12,500.0	-4,152.0	-394.1	4,170.2	0.00	0.00	0.00
16,700.0	90.00	179.56	12,500.0	-4,252.0	-393.4	4,269.9	0.00	0.00	0.00
16,800.0	90.00	179.56	12,500.0	-4,352.0	-392.6	4,369.5	0.00	0.00	0.00
16,900.0	90.00	179.56	12,500.0	-4,452.0	-391.8	4,469.1	0.00	0.00	0.00
17,000.0	90.00	179.56	12,500.0	-4,552.0	-391.1	4,568.7	0.00	0.00	0.00
17,100.0	90.00	179.56	12,500.0	-4,652.0	-390.3	4,668.3	0.00	0.00	0.00
17,171.0	90.00	179.56	12,500.0	-4,723.0	-389.8	4,739.0	0.00	0.00	0.00
LTP(BB 26 State #701H)									
17,200.0	90.00	179.56	12,500.0	-4,752.0	-389.5	4,767.9	0.00	0.00	0.00
17,271.0	90.00	179.56	12,500.0	-4,823.0	-389.0	4,838.7	0.00	0.00	0.00
PBHL(BB 26 State #701H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(BB 26 State #701H) - plan misses target center by 69.2usft at 12572.1usft MD (12438.2 TVD, -133.9 N, -421.4 E) - Point	0.00	0.00	12,500.0	-103.0	-425.0	398,557.00	747,882.00	32° 5' 35.592 N	103° 31' 58.443 W
PBHL(BB 26 State #701) - plan hits target center - Point	0.00	0.00	12,500.0	-4,823.0	-389.0	393,837.00	747,918.00	32° 4' 48.882 N	103° 31' 58.432 W
LTP(BB 26 State #701H) - plan misses target center by 0.2usft at 17171.0usft MD (12500.0 TVD, -4723.0 N, -389.8 E) - Point	0.00	0.00	12,500.0	-4,723.0	-390.0	393,937.00	747,917.00	32° 4' 49.872 N	103° 31' 58.435 W