

Revised Permit Information 5/7/15:

MAY 08 2015

Well Name: Brown Bear 36 State No. 703H

RECEIVED

Location:

SL: 245' FSL & 1409' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1394' 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
17.5"	0 - 1065'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 5000'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-17,299'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1065'	400	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
5,000'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,299'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4500')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1400	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1065'	Fresh - Gel	8.6-8.8	28-34	N/c
1065' - 5,000'	Oil Base	8.7-9.4	58-68	N/c - 6
5,000' - 11,954'	Oil Base	8.7-9.4	58-68	N/c - 6
11,954' - 17,299' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

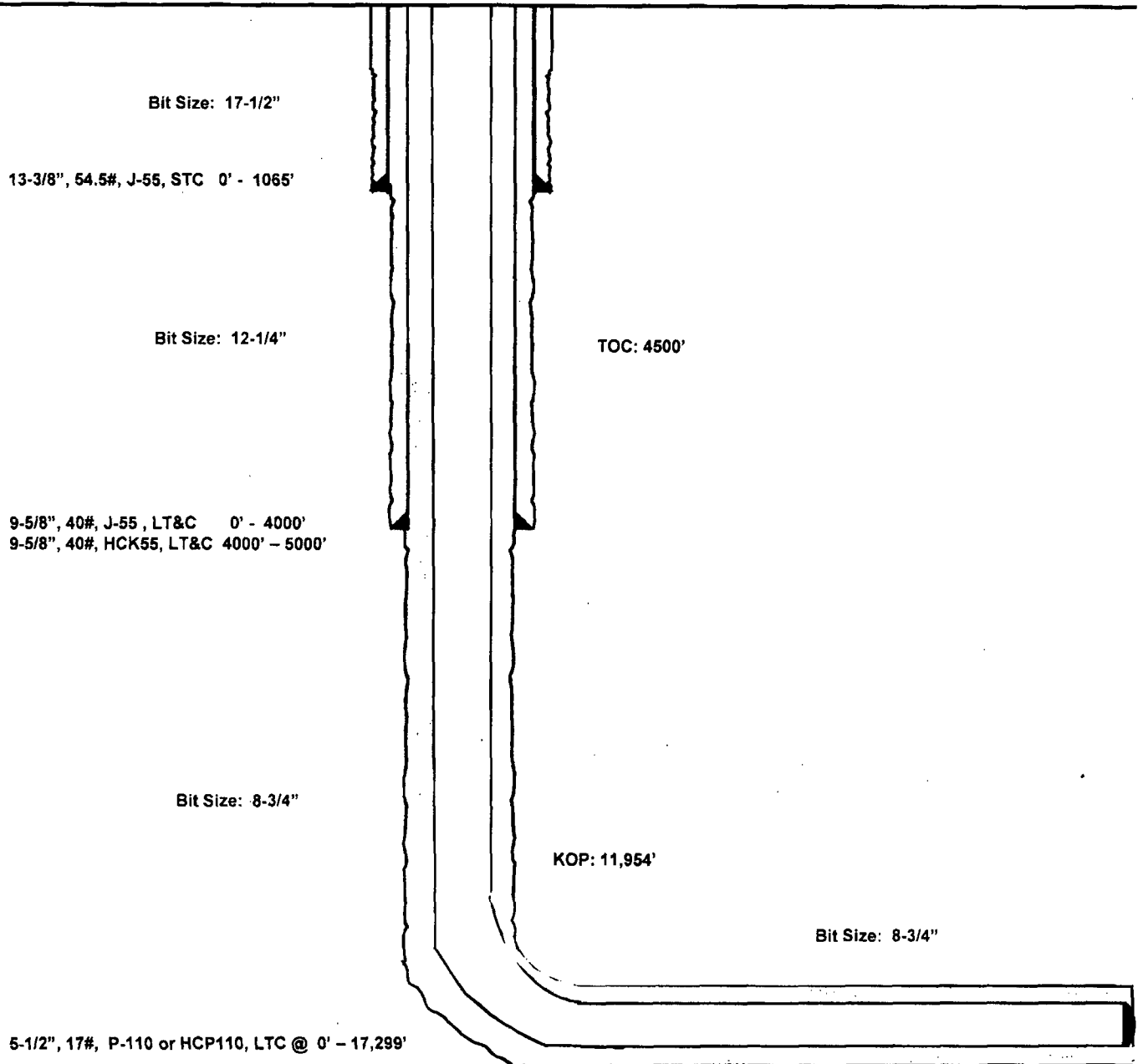
MAY 08 2015

Brown Bear 36 State #703H
Lea County, New Mexico

245' FSL
1409' FWL
Section 36
T-25-S, R-33-E

Proposed Wellbore
Revised 5/7/15
API: 30-025-42539

KB: 3,343'
GL: 3,318'



Lateral: 17,299' MD, 12,550' TVD

BH Location: 230' FNL & 1394' FWL
Section 36
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)

Brown Bear 36 State

#703H

H&P 260

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: 4.43°
Magnetic North: 6.71°
Magnetic Field
Strength: 48062.5nT
Dip Angle: 58.94°
Date: 6/20/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.71°
To convert a Magnetic Direction to a True Direction, Add 7.14° East
To convert a True Direction to a Grid Direction, Subtract 6.43°

WELL DETAILS #703H

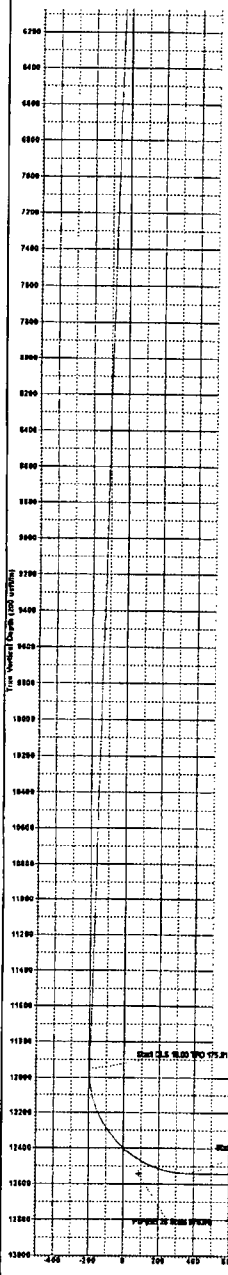
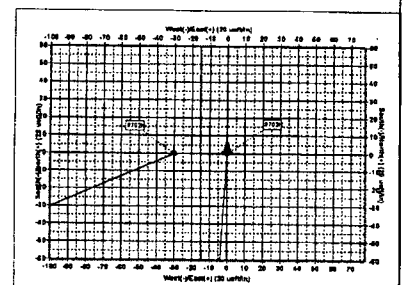
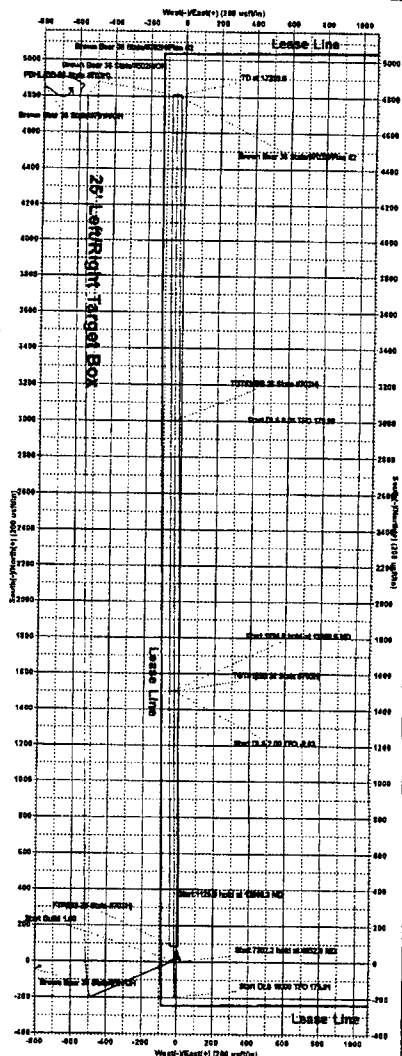
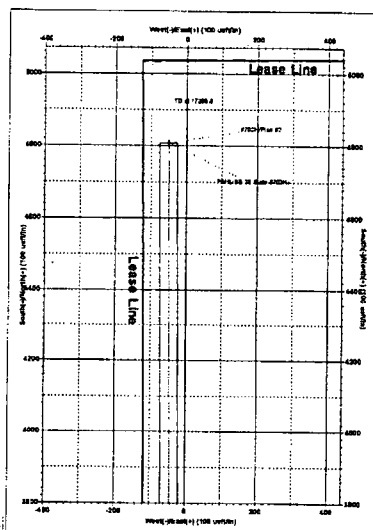
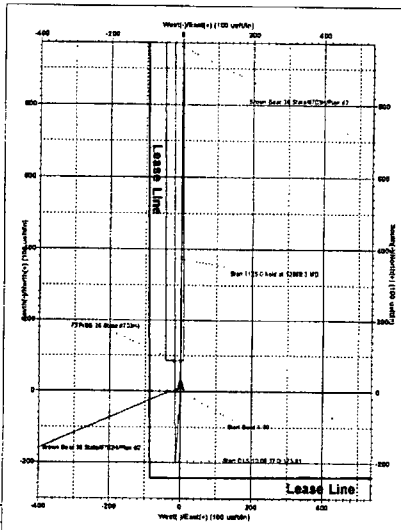
Ground Level: 3318.0
KB = 25 @ 3543 South (H&P 260)
Easting: 748947.00 N: 48 024 N Longitude: 103° 31' 46.111 W
Northing: 393859.00

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	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	4652.6	1.53	183.77	4652.6	-2.0	-0.1	1.00	183.77	-2.0	
4	11954.9	1.53	183.77	11952.3	-196.1	-12.9	0.00	0.00	-195.9	
5	12668.3	89.82	359.58	12540.5	374.8	-16.2	10.00	175.81	375.0	
6	13993.3	89.82	359.58	12544.0	1499.8	-26.5	0.00	0.00	1500.0	TGT#1(BB 26 State #703H)
7	13998.5	89.82	359.58	12544.0	1505.0	-26.5	2.00	-2.63	1505.2	
8	15493.4	89.92	359.58	12546.0	2999.8	-37.6	0.00	0.00	3000.0	TGT#2(BB 26 State #703H)
9	17299.6	89.82	359.58	12550.0	4808.0	-51.0	0.01	179.99	4806.3	PBHL(BB 26 State #703H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FTP(BB 26 State #703H)	12540.5	384.0	-16.0	393848.00	748931.00	Point
TGT#1(BB 26 State #703H)	12544.0	1499.8	-26.5	393859.00	748920.81	Point
TGT#2(BB 26 State #703H)	12546.0	2999.8	-37.6	393868.00	748909.39	Point
PBHL(BB 26 State #703H)	12550.0	4808.0	-51.0	393868.00	748896.00	Rectangle (Sidew: LO 0 W60 0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Brown Bear 36 State

#703H

OH

Plan: Plan #2

Standard Planning Report

07 May, 2015



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: #703H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3343.0usft (H&P 260)
MD Reference: KB = 25 @ 3343.0usft (H&P 260)
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	#703H			
Well Position	+N/-S	-4,801.0 usft	Northing:	393,859.00 usft
	+E/-W	640.0 usft	Easting:	748,947.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,318.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/20/2015	7.14	59.96	48,062

Design	Plan #2			
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	359.39

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	
4,652.6	1.53	183.77	4,652.6	-2.0	-0.1	1.00	1.00	0.00	183.77	
11,954.9	1.53	183.77	11,952.3	-196.1	-12.9	0.00	0.00	0.00	0.00	
12,868.3	89.82	359.58	12,540.5	374.8	-18.2	10.00	9.67	19.25	175.81	
13,993.3	89.82	359.58	12,544.0	1,499.8	-26.5	0.00	0.00	0.00	0.00	TGT#1(BB 26 State #
13,998.5	89.92	359.58	12,544.0	1,505.0	-26.5	2.00	2.00	-0.09	-2.63	
15,493.4	89.92	359.58	12,546.0	2,999.8	-37.6	0.00	0.00	0.00	0.00	TGT#2(BB 26 State #
17,299.6	89.82	359.58	12,550.0	4,806.0	-51.0	0.01	-0.01	0.00	179.99	PBHL(BB 26 State #7



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MD Reference: KB = 25 @ 3343.0usft (H&P 260)
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	183.77	4,600.0	-0.9	-0.1	-0.9	1.00	1.00	0.00
4,652.6	1.53	183.77	4,652.6	-2.0	-0.1	-2.0	1.00	1.00	0.00
4,700.0	1.53	183.77	4,700.0	-3.3	-0.2	-3.3	0.00	0.00	0.00
4,800.0	1.53	183.77	4,799.9	-5.9	-0.4	-5.9	0.00	0.00	0.00
4,900.0	1.53	183.77	4,899.9	-8.6	-0.6	-8.6	0.00	0.00	0.00
5,000.0	1.53	183.77	4,999.9	-11.3	-0.7	-11.3	0.00	0.00	0.00
5,100.0	1.53	183.77	5,099.8	-13.9	-0.9	-13.9	0.00	0.00	0.00
5,200.0	1.53	183.77	5,199.8	-16.6	-1.1	-16.6	0.00	0.00	0.00



EOG Resources, Inc.

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 North Reference: Grid
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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	1.53	183.77	5,299.8	-19.2	-1.3	-19.2	0.00	0.00	0.00
5,400.0	1.53	183.77	5,399.7	-21.9	-1.4	-21.9	0.00	0.00	0.00
5,500.0	1.53	183.77	5,499.7	-24.5	-1.6	-24.5	0.00	0.00	0.00
5,600.0	1.53	183.77	5,599.6	-27.2	-1.8	-27.2	0.00	0.00	0.00
5,700.0	1.53	183.77	5,699.6	-29.9	-2.0	-29.8	0.00	0.00	0.00
5,800.0	1.53	183.77	5,799.6	-32.5	-2.1	-32.5	0.00	0.00	0.00
5,900.0	1.53	183.77	5,899.5	-35.2	-2.3	-35.2	0.00	0.00	0.00
6,000.0	1.53	183.77	5,999.5	-37.8	-2.5	-37.8	0.00	0.00	0.00
6,100.0	1.53	183.77	6,099.5	-40.5	-2.7	-40.5	0.00	0.00	0.00
6,200.0	1.53	183.77	6,199.4	-43.2	-2.8	-43.1	0.00	0.00	0.00
6,300.0	1.53	183.77	6,299.4	-45.8	-3.0	-45.8	0.00	0.00	0.00
6,400.0	1.53	183.77	6,399.4	-48.5	-3.2	-48.4	0.00	0.00	0.00
6,500.0	1.53	183.77	6,499.3	-51.1	-3.4	-51.1	0.00	0.00	0.00
6,600.0	1.53	183.77	6,599.3	-53.8	-3.5	-53.7	0.00	0.00	0.00
6,700.0	1.53	183.77	6,699.3	-56.4	-3.7	-56.4	0.00	0.00	0.00
6,800.0	1.53	183.77	6,799.2	-59.1	-3.9	-59.1	0.00	0.00	0.00
6,900.0	1.53	183.77	6,899.2	-61.8	-4.1	-61.7	0.00	0.00	0.00
7,000.0	1.53	183.77	6,999.1	-64.4	-4.2	-64.4	0.00	0.00	0.00
7,100.0	1.53	183.77	7,099.1	-67.1	-4.4	-67.0	0.00	0.00	0.00
7,200.0	1.53	183.77	7,199.1	-69.7	-4.6	-69.7	0.00	0.00	0.00
7,300.0	1.53	183.77	7,299.0	-72.4	-4.8	-72.3	0.00	0.00	0.00
7,400.0	1.53	183.77	7,399.0	-75.0	-4.9	-75.0	0.00	0.00	0.00
7,500.0	1.53	183.77	7,499.0	-77.7	-5.1	-77.6	0.00	0.00	0.00
7,600.0	1.53	183.77	7,598.9	-80.4	-5.3	-80.3	0.00	0.00	0.00
7,700.0	1.53	183.77	7,698.9	-83.0	-5.5	-83.0	0.00	0.00	0.00
7,800.0	1.53	183.77	7,798.9	-85.7	-5.6	-85.6	0.00	0.00	0.00
7,900.0	1.53	183.77	7,898.8	-88.3	-5.8	-88.3	0.00	0.00	0.00
8,000.0	1.53	183.77	7,998.8	-91.0	-6.0	-90.9	0.00	0.00	0.00
8,100.0	1.53	183.77	8,098.8	-93.6	-6.2	-93.6	0.00	0.00	0.00
8,200.0	1.53	183.77	8,198.7	-96.3	-6.3	-96.2	0.00	0.00	0.00
8,300.0	1.53	183.77	8,298.7	-99.0	-6.5	-98.9	0.00	0.00	0.00
8,400.0	1.53	183.77	8,398.7	-101.6	-6.7	-101.5	0.00	0.00	0.00
8,500.0	1.53	183.77	8,498.6	-104.3	-6.9	-104.2	0.00	0.00	0.00
8,600.0	1.53	183.77	8,598.6	-106.9	-7.0	-106.9	0.00	0.00	0.00
8,700.0	1.53	183.77	8,698.5	-109.6	-7.2	-109.5	0.00	0.00	0.00
8,800.0	1.53	183.77	8,798.5	-112.3	-7.4	-112.2	0.00	0.00	0.00
8,900.0	1.53	183.77	8,898.5	-114.9	-7.6	-114.8	0.00	0.00	0.00
9,000.0	1.53	183.77	8,998.4	-117.6	-7.7	-117.5	0.00	0.00	0.00
9,100.0	1.53	183.77	9,098.4	-120.2	-7.9	-120.1	0.00	0.00	0.00
9,200.0	1.53	183.77	9,198.4	-122.9	-8.1	-122.8	0.00	0.00	0.00
9,300.0	1.53	183.77	9,298.3	-125.5	-8.3	-125.4	0.00	0.00	0.00
9,400.0	1.53	183.77	9,398.3	-128.2	-8.4	-128.1	0.00	0.00	0.00
9,500.0	1.53	183.77	9,498.3	-130.9	-8.6	-130.8	0.00	0.00	0.00
9,600.0	1.53	183.77	9,598.2	-133.5	-8.8	-133.4	0.00	0.00	0.00
9,700.0	1.53	183.77	9,698.2	-136.2	-9.0	-136.1	0.00	0.00	0.00
9,800.0	1.53	183.77	9,798.2	-138.8	-9.1	-138.7	0.00	0.00	0.00
9,900.0	1.53	183.77	9,898.1	-141.5	-9.3	-141.4	0.00	0.00	0.00
10,000.0	1.53	183.77	9,998.1	-144.1	-9.5	-144.0	0.00	0.00	0.00
10,100.0	1.53	183.77	10,098.0	-146.8	-9.7	-146.7	0.00	0.00	0.00
10,200.0	1.53	183.77	10,198.0	-149.5	-9.8	-149.3	0.00	0.00	0.00
10,300.0	1.53	183.77	10,298.0	-152.1	-10.0	-152.0	0.00	0.00	0.00
10,400.0	1.53	183.77	10,397.9	-154.8	-10.2	-154.7	0.00	0.00	0.00
10,500.0	1.53	183.77	10,497.9	-157.4	-10.4	-157.3	0.00	0.00	0.00
10,600.0	1.53	183.77	10,597.9	-160.1	-10.5	-160.0	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: #703H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3343.0usft (H&P 260)
MD Reference: KB = 25 @ 3343.0usft (H&P 260)
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	1.53	183.77	10,697.8	-162.7	-10.7	-162.6	0.00	0.00	0.00
10,800.0	1.53	183.77	10,797.8	-165.4	-10.9	-165.3	0.00	0.00	0.00
10,900.0	1.53	183.77	10,897.8	-168.1	-11.1	-167.9	0.00	0.00	0.00
11,000.0	1.53	183.77	10,997.7	-170.7	-11.2	-170.6	0.00	0.00	0.00
11,100.0	1.53	183.77	11,097.7	-173.4	-11.4	-173.2	0.00	0.00	0.00
11,200.0	1.53	183.77	11,197.7	-176.0	-11.6	-175.9	0.00	0.00	0.00
11,300.0	1.53	183.77	11,297.6	-178.7	-11.8	-178.6	0.00	0.00	0.00
11,400.0	1.53	183.77	11,397.6	-181.3	-11.9	-181.2	0.00	0.00	0.00
11,500.0	1.53	183.77	11,497.6	-184.0	-12.1	-183.9	0.00	0.00	0.00
11,600.0	1.53	183.77	11,597.5	-186.7	-12.3	-186.5	0.00	0.00	0.00
11,700.0	1.53	183.77	11,697.5	-189.3	-12.5	-189.2	0.00	0.00	0.00
11,800.0	1.53	183.77	11,797.4	-192.0	-12.6	-191.8	0.00	0.00	0.00
11,900.0	1.53	183.77	11,897.4	-194.6	-12.8	-194.5	0.00	0.00	0.00
11,954.9	1.53	183.77	11,952.3	-196.1	-12.9	-195.9	0.00	0.00	0.00
12,000.0	2.99	357.45	11,997.4	-195.5	-13.0	-195.4	10.00	3.25	385.10
12,050.0	7.99	358.79	12,047.1	-190.7	-13.1	-190.6	10.00	10.00	2.68
12,100.0	12.99	359.10	12,096.3	-181.6	-13.3	-181.5	10.00	10.00	0.62
12,150.0	17.99	359.24	12,144.4	-168.3	-13.5	-168.1	10.00	10.00	0.28
12,200.0	22.99	359.32	12,191.3	-150.8	-13.7	-150.6	10.00	10.00	0.16
12,250.0	27.99	359.37	12,236.4	-129.3	-14.0	-129.1	10.00	10.00	0.11
12,300.0	32.99	359.41	12,279.5	-103.9	-14.2	-103.8	10.00	10.00	0.08
12,350.0	37.99	359.44	12,320.2	-74.9	-14.5	-74.8	10.00	10.00	0.06
12,400.0	42.99	359.46	12,358.2	-42.5	-14.8	-42.3	10.00	10.00	0.05
12,450.0	47.99	359.48	12,393.2	-8.8	-15.2	-6.7	10.00	10.00	0.04
12,500.0	52.99	359.50	12,425.0	31.7	-15.5	31.9	10.00	10.00	0.03
12,550.0	57.99	359.51	12,453.3	72.9	-15.9	73.1	10.00	10.00	0.03
12,600.0	62.99	359.52	12,478.0	116.4	-16.2	116.6	10.00	10.00	0.03
FTP(BB 26 State #703H)									
12,650.0	67.99	359.54	12,498.7	161.9	-16.6	162.1	10.00	10.00	0.02
12,700.0	72.99	359.55	12,515.4	209.0	-17.0	209.2	10.00	10.00	0.02
12,750.0	77.99	359.56	12,527.9	257.4	-17.4	257.6	10.00	10.00	0.02
12,800.0	82.99	359.57	12,536.2	306.7	-17.7	306.9	10.00	10.00	0.02
12,850.0	87.99	359.58	12,540.1	356.5	-18.1	356.7	10.00	10.00	0.02
12,868.3	89.82	359.58	12,540.5	374.8	-18.2	375.0	10.00	10.00	0.02
12,900.0	89.82	359.58	12,540.6	406.5	-18.5	406.7	0.00	0.00	0.00
13,000.0	89.82	359.58	12,540.9	506.5	-19.2	506.7	0.00	0.00	0.00
13,100.0	89.82	359.58	12,541.2	606.5	-19.9	606.7	0.00	0.00	0.00
13,200.0	89.82	359.58	12,541.5	706.5	-20.7	706.7	0.00	0.00	0.00
13,300.0	89.82	359.58	12,541.8	806.5	-21.4	806.7	0.00	0.00	0.00
13,400.0	89.82	359.58	12,542.1	906.5	-22.1	906.7	0.00	0.00	0.00
13,500.0	89.82	359.58	12,542.4	1,006.5	-22.9	1,006.7	0.00	0.00	0.00
13,600.0	89.82	359.58	12,542.8	1,106.5	-23.6	1,106.7	0.00	0.00	0.00
13,700.0	89.82	359.58	12,543.1	1,206.5	-24.3	1,206.7	0.00	0.00	0.00
13,800.0	89.82	359.58	12,543.4	1,306.5	-25.1	1,306.7	0.00	0.00	0.00
13,900.0	89.82	359.58	12,543.7	1,406.5	-25.8	1,406.7	0.00	0.00	0.00
13,993.3	89.82	359.58	12,544.0	1,499.8	-26.5	1,500.0	0.00	0.00	0.00
TGT#1(BB 26 State #703H)									
13,998.5	89.92	359.58	12,544.0	1,505.0	-26.5	1,505.2	2.00	2.00	-0.09
14,000.0	89.92	359.58	12,544.0	1,506.5	-26.5	1,506.7	0.00	0.00	0.00
14,100.0	89.92	359.58	12,544.1	1,606.5	-27.3	1,606.7	0.00	0.00	0.00
14,200.0	89.92	359.58	12,544.3	1,706.5	-28.0	1,706.7	0.00	0.00	0.00
14,300.0	89.92	359.58	12,544.4	1,806.5	-28.8	1,806.7	0.00	0.00	0.00
14,400.0	89.92	359.58	12,544.5	1,906.5	-29.5	1,906.7	0.00	0.00	0.00
14,500.0	89.92	359.58	12,544.7	2,006.5	-30.2	2,006.7	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: #703H
 Wellbore: OH
 Design: Plan #2

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3343.0usft (H&P 260)
 MD Reference: KB = 25 @ 3343.0usft (H&P 260)
 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)
14,600.0	89.92	359.58	12,544.8	2,106.5	-31.0	2,106.7	0.00	0.00	0.00
14,700.0	89.92	359.58	12,544.9	2,206.5	-31.7	2,206.7	0.00	0.00	0.00
14,800.0	89.92	359.58	12,545.1	2,306.5	-32.5	2,306.7	0.00	0.00	0.00
14,900.0	89.92	359.58	12,545.2	2,406.5	-33.2	2,406.7	0.00	0.00	0.00
15,000.0	89.92	359.58	12,545.3	2,506.4	-34.0	2,506.7	0.00	0.00	0.00
15,100.0	89.92	359.58	12,545.5	2,606.4	-34.7	2,606.7	0.00	0.00	0.00
15,200.0	89.92	359.58	12,545.6	2,706.4	-35.4	2,706.7	0.00	0.00	0.00
15,300.0	89.92	359.58	12,545.7	2,806.4	-36.2	2,806.7	0.00	0.00	0.00
15,400.0	89.92	359.58	12,545.9	2,906.4	-36.9	2,906.7	0.00	0.00	0.00
15,493.4	89.92	359.58	12,546.0	2,999.8	-37.6	3,000.0	0.00	0.00	0.00
TGT#2(BB 26 State #703H)									
15,500.0	89.92	359.58	12,546.0	3,006.4	-37.7	3,006.7	0.01	-0.01	0.00
15,600.0	89.92	359.58	12,546.1	3,106.4	-38.4	3,106.7	0.01	-0.01	0.00
15,700.0	89.91	359.58	12,546.3	3,206.4	-39.1	3,206.7	0.01	-0.01	0.00
15,800.0	89.91	359.58	12,546.5	3,306.4	-39.9	3,306.7	0.01	-0.01	0.00
15,900.0	89.90	359.58	12,546.6	3,406.4	-40.6	3,406.7	0.01	-0.01	0.00
16,000.0	89.90	359.58	12,546.8	3,506.4	-41.4	3,506.7	0.01	-0.01	0.00
16,100.0	89.89	359.58	12,547.0	3,606.4	-42.1	3,606.7	0.01	-0.01	0.00
16,200.0	89.88	359.58	12,547.2	3,706.4	-42.8	3,706.7	0.01	-0.01	0.00
16,300.0	89.88	359.58	12,547.4	3,806.4	-43.6	3,806.7	0.01	-0.01	0.00
16,400.0	89.87	359.58	12,547.6	3,906.4	-44.3	3,906.7	0.01	-0.01	0.00
16,500.0	89.87	359.58	12,547.8	4,006.4	-45.1	4,006.7	0.01	-0.01	0.00
16,600.0	89.86	359.58	12,548.1	4,106.4	-45.8	4,106.7	0.01	-0.01	0.00
16,700.0	89.86	359.58	12,548.3	4,206.4	-46.6	4,206.7	0.01	-0.01	0.00
16,800.0	89.85	359.58	12,548.6	4,306.4	-47.3	4,306.7	0.01	-0.01	0.00
16,900.0	89.84	359.58	12,548.8	4,406.4	-48.0	4,406.7	0.01	-0.01	0.00
17,000.0	89.84	359.58	12,549.1	4,506.4	-48.8	4,506.7	0.01	-0.01	0.00
17,100.0	89.83	359.58	12,549.4	4,606.4	-49.5	4,606.7	0.01	-0.01	0.00
17,200.0	89.83	359.58	12,549.7	4,706.4	-50.3	4,706.7	0.01	-0.01	0.00
17,299.6	89.82	359.58	12,550.0	4,806.0	-51.0	4,806.3	0.01	-0.01	0.00
PBHL(BB 26 State #703H)									

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 #703H - plan misses target center by 69.1usft at 12600.0usft MD (12478.0 TVD, 116.4 N, -16.2 E) - Point	0.00	0.00	12,540.0	86.0	-16.0	393,945.00	748,931.00	32° 4' 49.877 N	103° 31' 46.649 W
TGT#1(BB 26 State #70 - plan hits target center - Point	0.00	0.01	12,544.0	1,499.8	-26.5	395,358.80	748,920.51	32° 5' 3.868 N	103° 31' 46.649 W
TGT#2(BB 26 State #70 - plan hits target center - Point	0.00	0.00	12,546.0	2,999.8	-37.6	396,858.80	748,909.39	32° 5' 18.712 N	103° 31' 46.648 W
PBHL(BB 26 State #703 - plan hits target center - Rectangle (sides W50.0 H0.0 D4,720.5)	90.00	359.58	12,550.0	4,806.0	-51.0	398,665.00	748,896.00	32° 5' 36.587 N	103° 31' 46.647 W