

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

HOBBS OCD

State of New Mexico
Energy, Minerals and Natural Resources

NOV 06 2014

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

Form C-103
Revised July 18, 2013

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.)		WELL API NO. 30-025-42154
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Brown Bear 36 State
4. Well Location Unit Letter D Section 36 Township 25S Range 33E NMPM 835 feet from the North line and 835 feet from the West line		8. Well Number 502H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3335' GR		9. OGRID Number 7377
		10. Pool name or Wildcat Wildcat; Bone Spring

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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 the approved APD for this well to reflect a change in BHL.

BHL change from 230' FSL & 1260' FWL TO: 230' FSL & 380' FWL, Sec 36, T25S, R33E

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 11/06/14

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 11/06/14

Conditions of Approval (if any):

NOV 06 2014

Revised Permit Information:

Well Name: Brown Bear 36 State No. 502H

Location:

SL: 230' FNL & 835' 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
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'-15,664'	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
15,664'	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
	1300	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'	Brine	10.0-10.2	28-34	N/c
5,000' – 10,330'	Cut Brine	8.4-9.0	28-34	N/c
10,330' – 15,664' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Brown Bear 36 State #502H

Lea County, New Mexico

Revised 11/4/14

Proposed Wellbore

230' FNL

835' FWL

Section 36

T-25-S, R-33-E

API: 30-025-42154

KB: 3,360'

GL: 3,335'

Bit Size: 17-1/2"

13-3/8", 54.5#, J-55, STC 0' - 1065'

Bit Size: 12-1/4"

9-5/8", 40#, J-55, LT&C 0' - 4000'
9-5/8", 40#, HCK55, LT&C 4000' - 5000'

Bit Size: 8-3/4"

5-1/2", 17#, P-110 or HCP110, LTC @ 0' - 15,664'

TOC: 4500'

KOP: 10,330'

Bit Size: 8-3/4"

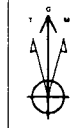
Lateral: 15,664' MD, 10,900' TVD

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



Lea County, NM (NAD 27 NME)
Brown Bear 36 State #502H
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: 6.73°
Magnetic Field
Strength: 48213.4 nT
Dip Angle: 59.99°
Date: 9/29/2014
Model: IGRF2014

To convert a Magnetic Direction to a Grid Direction, Add 6.73°
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: Brown Bear 36 State #502H

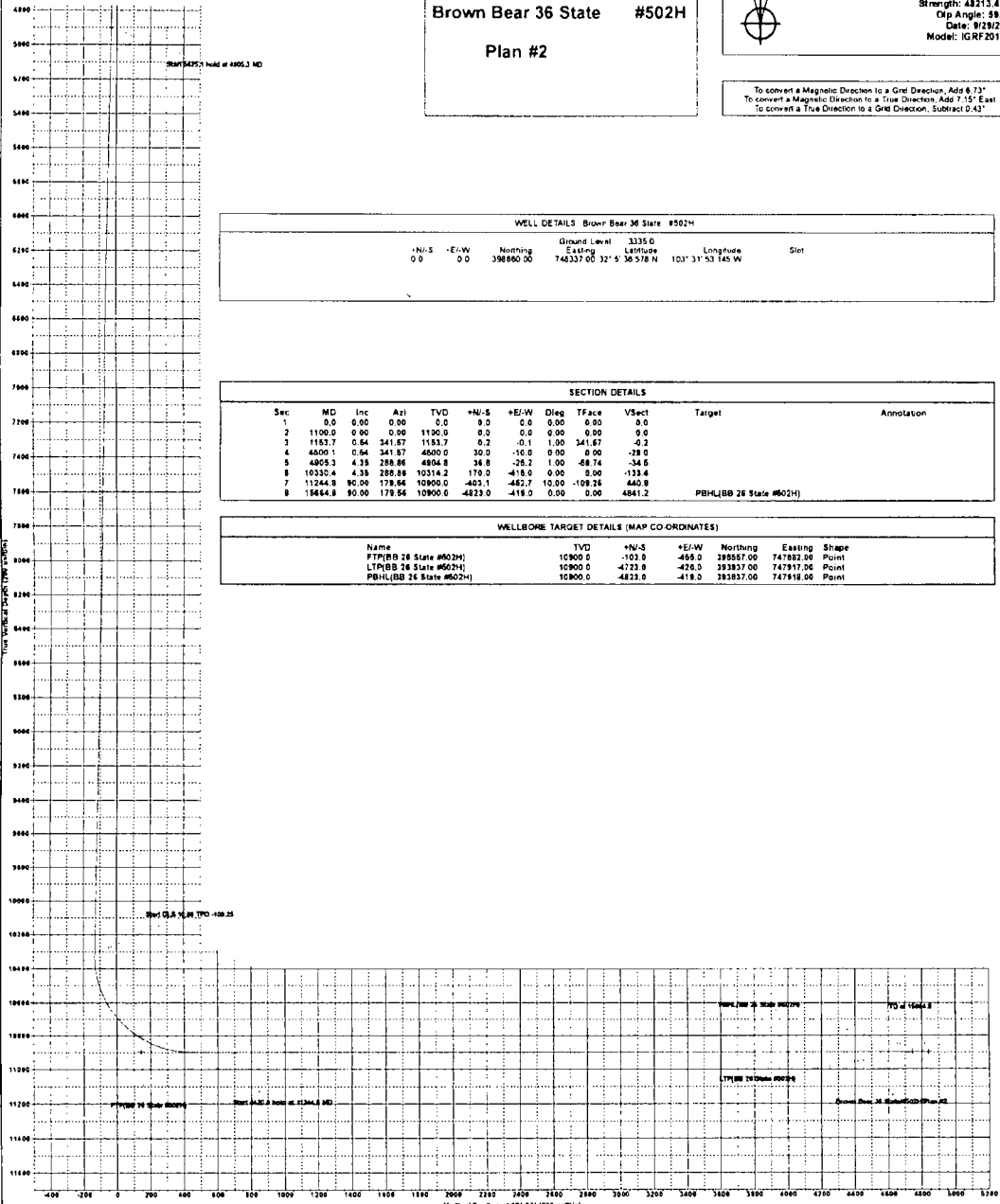
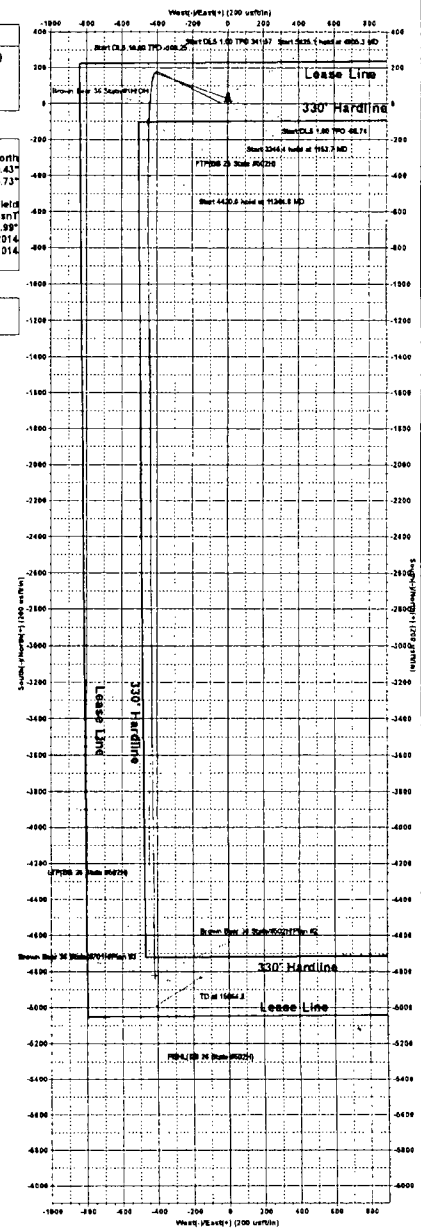
+N/-S	+E/-W	North	East	Ground Level	Latitude	Longitude	Spot
0.0	0.0	398860.00	742337.00	3335.0	32° 5' 36.58" N	103° 3' 53.145" W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0		
3	1153.7	0.64	341.87	1153.7	0.2	-0.1	1.00	341.87	-0.2		
4	4800.1	0.64	341.87	4800.0	30.0	-10.0	0.00	0.00	-29.0		
5	4805.3	4.35	288.86	4804.8	38.8	-26.2	1.00	-28.74	-34.6		
6	10330.4	4.35	288.86	10314.2	170.0	-418.0	0.00	0.00	-133.4		
7	11244.8	90.00	178.64	10900.0	-403.1	-482.7	10.00	-109.26	440.8		
8	13654.8	90.00	178.64	10900.0	-4823.0	-418.0	0.00	0.00	4841.2	PBHL(BB 36 State #502H)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	East	Shape
PTP(BB 36 State #502H)	10900.0	-103.0	-456.0	398857.00	747682.00	Point
LTP(BB 36 State #502H)	10900.0	-473.0	-478.0	398837.00	747917.00	Point
PBHL(BB 36 State #502H)	10900.0	-4823.0	-418.0	398837.00	747918.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Brown Bear 36 State

#502H

OH

Plan: Plan #2

Standard Planning Report

05 November, 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: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
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	#502H			
Well Position	+N/-S	0.0 usft	Northing:	398,660.00 usft
	+E/-W	30.0 usft	Easting:	748,337.00 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) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	184.97

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	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,153.7	0.54	341.57	1,153.7	0.2	-0.1	1.00	1.00	-34.32	341.57	
4,500.1	0.54	341.57	4,500.0	30.0	-10.0	0.00	0.00	0.00	0.00	
4,905.3	4.35	288.86	4,904.8	36.8	-25.2	1.00	0.94	-13.01	-58.74	
10,330.4	4.35	288.86	10,314.2	170.0	-415.0	0.00	0.00	0.00	0.00	
11,244.8	90.00	179.56	10,900.0	-403.1	-452.7	10.00	9.37	-11.95	-109.25	
15,664.8	90.00	179.56	10,900.0	-4,823.0	-419.0	0.00	0.00	0.00	0.00	PBHL(BB 26 State #5



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: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
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
1,153.7	0.54	341.57	1,153.7	0.2	-0.1	-0.2	1.00	1.00	0.00
1,200.0	0.54	341.57	1,200.0	0.7	-0.2	-0.6	0.00	0.00	0.00
1,300.0	0.54	341.57	1,300.0	1.5	-0.5	-1.5	0.00	0.00	0.00
1,400.0	0.54	341.57	1,400.0	2.4	-0.8	-2.3	0.00	0.00	0.00
1,500.0	0.54	341.57	1,500.0	3.3	-1.1	-3.2	0.00	0.00	0.00
1,600.0	0.54	341.57	1,600.0	4.2	-1.4	-4.1	0.00	0.00	0.00
1,700.0	0.54	341.57	1,700.0	5.1	-1.7	-4.9	0.00	0.00	0.00
1,800.0	0.54	341.57	1,800.0	6.0	-2.0	-5.8	0.00	0.00	0.00
1,900.0	0.54	341.57	1,900.0	6.9	-2.3	-6.7	0.00	0.00	0.00
2,000.0	0.54	341.57	2,000.0	7.8	-2.6	-7.5	0.00	0.00	0.00
2,100.0	0.54	341.57	2,100.0	8.7	-2.9	-8.4	0.00	0.00	0.00
2,200.0	0.54	341.57	2,200.0	9.5	-3.2	-9.2	0.00	0.00	0.00
2,300.0	0.54	341.57	2,299.9	10.4	-3.5	-10.1	0.00	0.00	0.00
2,400.0	0.54	341.57	2,399.9	11.3	-3.8	-11.0	0.00	0.00	0.00
2,500.0	0.54	341.57	2,499.9	12.2	-4.1	-11.8	0.00	0.00	0.00
2,600.0	0.54	341.57	2,599.9	13.1	-4.4	-12.7	0.00	0.00	0.00
2,700.0	0.54	341.57	2,699.9	14.0	-4.7	-13.5	0.00	0.00	0.00
2,800.0	0.54	341.57	2,799.9	14.9	-5.0	-14.4	0.00	0.00	0.00
2,900.0	0.54	341.57	2,899.9	15.8	-5.3	-15.3	0.00	0.00	0.00
3,000.0	0.54	341.57	2,999.9	16.7	-5.6	-16.1	0.00	0.00	0.00
3,100.0	0.54	341.57	3,099.9	17.5	-5.8	-17.0	0.00	0.00	0.00
3,200.0	0.54	341.57	3,199.9	18.4	-6.1	-17.8	0.00	0.00	0.00
3,300.0	0.54	341.57	3,299.9	19.3	-6.4	-18.7	0.00	0.00	0.00
3,400.0	0.54	341.57	3,399.9	20.2	-6.7	-19.6	0.00	0.00	0.00
3,500.0	0.54	341.57	3,499.9	21.1	-7.0	-20.4	0.00	0.00	0.00
3,600.0	0.54	341.57	3,599.9	22.0	-7.3	-21.3	0.00	0.00	0.00
3,700.0	0.54	341.57	3,699.9	22.9	-7.6	-22.1	0.00	0.00	0.00
3,800.0	0.54	341.57	3,799.9	23.8	-7.9	-23.0	0.00	0.00	0.00
3,900.0	0.54	341.57	3,899.9	24.7	-8.2	-23.9	0.00	0.00	0.00
4,000.0	0.54	341.57	3,999.9	25.6	-8.5	-24.7	0.00	0.00	0.00
4,100.0	0.54	341.57	4,099.9	26.4	-8.8	-25.6	0.00	0.00	0.00
4,200.0	0.54	341.57	4,199.9	27.3	-9.1	-26.4	0.00	0.00	0.00
4,300.0	0.54	341.57	4,299.9	28.2	-9.4	-27.3	0.00	0.00	0.00
4,400.0	0.54	341.57	4,399.9	29.1	-9.7	-28.2	0.00	0.00	0.00
4,500.1	0.54	341.57	4,500.0	30.0	-10.0	-29.0	0.00	0.00	0.00
4,600.0	1.36	302.59	4,599.8	31.1	-11.1	-30.0	1.00	0.82	-39.03
4,700.0	2.32	294.22	4,699.8	32.6	-14.0	-31.2	1.00	0.97	-8.38
4,800.0	3.31	290.79	4,799.7	34.4	-18.5	-32.7	1.00	0.99	-3.43
4,905.3	4.35	288.86	4,904.8	36.8	-25.2	-34.5	1.00	0.99	-1.83
5,000.0	4.35	288.86	4,999.2	39.1	-32.0	-36.2	0.00	0.00	0.00
5,100.0	4.35	288.86	5,098.9	41.6	-39.2	-38.0	0.00	0.00	0.00
5,200.0	4.35	288.86	5,198.6	44.0	-46.3	-39.8	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: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
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)
5,300.0	4.35	288.86	5,298.3	46.5	-53.5	-41.7	0.00	0.00	0.00
5,400.0	4.35	288.86	5,398.0	48.9	-60.7	-43.5	0.00	0.00	0.00
5,500.0	4.35	288.86	5,497.7	51.4	-67.9	-45.3	0.00	0.00	0.00
5,600.0	4.35	288.86	5,597.4	53.8	-75.1	-47.1	0.00	0.00	0.00
5,700.0	4.35	288.86	5,697.1	56.3	-82.3	-49.0	0.00	0.00	0.00
5,800.0	4.35	288.86	5,796.8	58.7	-89.4	-50.8	0.00	0.00	0.00
5,900.0	4.35	288.86	5,896.6	61.2	-96.6	-52.6	0.00	0.00	0.00
6,000.0	4.35	288.86	5,996.3	63.6	-103.8	-54.4	0.00	0.00	0.00
6,100.0	4.35	288.86	6,096.0	66.1	-111.0	-56.2	0.00	0.00	0.00
6,200.0	4.35	288.86	6,195.7	68.6	-118.2	-58.1	0.00	0.00	0.00
6,300.0	4.35	288.86	6,295.4	71.0	-125.4	-59.9	0.00	0.00	0.00
6,400.0	4.35	288.86	6,395.1	73.5	-132.6	-61.7	0.00	0.00	0.00
6,500.0	4.35	288.86	6,494.8	75.9	-139.7	-63.5	0.00	0.00	0.00
6,600.0	4.35	288.86	6,594.5	78.4	-146.9	-65.4	0.00	0.00	0.00
6,700.0	4.35	288.86	6,694.2	80.8	-154.1	-67.2	0.00	0.00	0.00
6,800.0	4.35	288.86	6,794.0	83.3	-161.3	-69.0	0.00	0.00	0.00
6,900.0	4.35	288.86	6,893.7	85.7	-168.5	-70.8	0.00	0.00	0.00
7,000.0	4.35	288.86	6,993.4	88.2	-175.7	-72.7	0.00	0.00	0.00
7,100.0	4.35	288.86	7,093.1	90.7	-182.9	-74.5	0.00	0.00	0.00
7,200.0	4.35	288.86	7,192.8	93.1	-190.0	-76.3	0.00	0.00	0.00
7,300.0	4.35	288.86	7,292.5	95.6	-197.2	-78.1	0.00	0.00	0.00
7,400.0	4.35	288.86	7,392.2	98.0	-204.4	-80.0	0.00	0.00	0.00
7,500.0	4.35	288.86	7,491.9	100.5	-211.6	-81.8	0.00	0.00	0.00
7,600.0	4.35	288.86	7,591.6	102.9	-218.8	-83.6	0.00	0.00	0.00
7,700.0	4.35	288.86	7,691.4	105.4	-226.0	-85.4	0.00	0.00	0.00
7,800.0	4.35	288.86	7,791.1	107.8	-233.2	-87.3	0.00	0.00	0.00
7,900.0	4.35	288.86	7,890.8	110.3	-240.3	-89.1	0.00	0.00	0.00
8,000.0	4.35	288.86	7,990.5	112.7	-247.5	-90.9	0.00	0.00	0.00
8,100.0	4.35	288.86	8,090.2	115.2	-254.7	-92.7	0.00	0.00	0.00
8,200.0	4.35	288.86	8,189.9	117.7	-261.9	-94.5	0.00	0.00	0.00
8,300.0	4.35	288.86	8,289.6	120.1	-269.1	-96.4	0.00	0.00	0.00
8,400.0	4.35	288.86	8,389.3	122.6	-276.3	-98.2	0.00	0.00	0.00
8,500.0	4.35	288.86	8,489.0	125.0	-283.5	-100.0	0.00	0.00	0.00
8,600.0	4.35	288.86	8,588.8	127.5	-290.6	-101.8	0.00	0.00	0.00
8,700.0	4.35	288.86	8,688.5	129.9	-297.8	-103.7	0.00	0.00	0.00
8,800.0	4.35	288.86	8,788.2	132.4	-305.0	-105.5	0.00	0.00	0.00
8,900.0	4.35	288.86	8,887.9	134.8	-312.2	-107.3	0.00	0.00	0.00
9,000.0	4.35	288.86	8,987.6	137.3	-319.4	-109.1	0.00	0.00	0.00
9,100.0	4.35	288.86	9,087.3	139.7	-326.6	-111.0	0.00	0.00	0.00
9,200.0	4.35	288.86	9,187.0	142.2	-333.8	-112.8	0.00	0.00	0.00
9,300.0	4.35	288.86	9,286.7	144.7	-340.9	-114.6	0.00	0.00	0.00
9,400.0	4.35	288.86	9,386.5	147.1	-348.1	-116.4	0.00	0.00	0.00
9,500.0	4.35	288.86	9,486.2	149.6	-355.3	-118.3	0.00	0.00	0.00
9,600.0	4.35	288.86	9,585.9	152.0	-362.5	-120.1	0.00	0.00	0.00
9,700.0	4.35	288.86	9,685.6	154.5	-369.7	-121.9	0.00	0.00	0.00
9,800.0	4.35	288.86	9,785.3	156.9	-376.9	-123.7	0.00	0.00	0.00
9,900.0	4.35	288.86	9,885.0	159.4	-384.0	-125.6	0.00	0.00	0.00
10,000.0	4.35	288.86	9,984.7	161.8	-391.2	-127.4	0.00	0.00	0.00
10,100.0	4.35	288.86	10,084.4	164.3	-398.4	-129.2	0.00	0.00	0.00
10,200.0	4.35	288.86	10,184.1	166.8	-405.6	-131.0	0.00	0.00	0.00
10,300.0	4.35	288.86	10,283.9	169.2	-412.8	-132.8	0.00	0.00	0.00
10,330.4	4.35	288.86	10,314.2	170.0	-415.0	-133.4	0.00	0.00	0.00
10,350.0	4.14	262.33	10,333.7	170.1	-416.4	-133.4	10.00	-1.08	-135.42
10,400.0	6.88	216.13	10,383.5	167.4	-419.9	-130.5	10.00	5.47	-92.42



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: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
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)
10,450.0	11.29	200.67	10,432.9	160.4	-423.4	-123.2	10.00	8.82	-30.91
10,500.0	16.04	194.04	10,481.4	149.1	-426.8	-111.6	10.00	9.51	-13.27
10,550.0	20.91	190.41	10,528.9	133.7	-430.1	-95.9	10.00	9.74	-7.26
10,600.0	25.83	188.10	10,574.7	114.1	-433.3	-76.2	10.00	9.83	-4.61
10,650.0	30.77	186.50	10,618.7	90.6	-436.3	-52.5	10.00	9.88	-3.21
10,700.0	35.73	185.30	10,660.5	63.3	-439.1	-25.1	10.00	9.91	-2.40
10,750.0	40.69	184.36	10,699.8	32.5	-441.6	5.8	10.00	9.93	-1.88
10,800.0	45.67	183.59	10,736.3	-1.6	-444.0	40.0	10.00	9.94	-1.54
10,850.0	50.64	182.94	10,769.6	-38.8	-446.1	77.2	10.00	9.95	-1.29
10,900.0	55.62	182.38	10,799.6	-78.7	-448.0	117.2	10.00	9.96	-1.12
10,950.0	60.60	181.88	10,826.0	-121.1	-449.5	159.6	10.00	9.96	-1.00
10,967.5	62.34	181.72	10,834.3	-136.5	-450.0	174.9	10.00	9.97	-0.93
FTP(BB 26 State #502H)									
11,000.0	65.59	181.43	10,848.6	-165.7	-450.8	204.1	10.00	9.97	-0.89
11,050.0	70.57	181.02	10,867.3	-212.1	-451.8	250.4	10.00	9.97	-0.83
11,100.0	75.56	180.62	10,881.8	-259.9	-452.5	298.1	10.00	9.97	-0.78
11,150.0	80.55	180.25	10,892.2	-308.8	-452.9	346.8	10.00	9.97	-0.75
11,200.0	85.53	179.88	10,898.3	-358.4	-452.9	396.2	10.00	9.97	-0.73
11,244.8	90.00	179.56	10,900.0	-403.1	-452.7	440.8	10.00	9.97	-0.72
11,300.0	90.00	179.56	10,900.0	-458.3	-452.3	495.8	0.00	0.00	0.00
11,400.0	90.00	179.56	10,900.0	-558.3	-451.5	595.3	0.00	0.00	0.00
11,500.0	90.00	179.56	10,900.0	-658.3	-450.8	694.9	0.00	0.00	0.00
11,600.0	90.00	179.56	10,900.0	-758.3	-450.0	794.4	0.00	0.00	0.00
11,700.0	90.00	179.56	10,900.0	-858.3	-449.2	894.0	0.00	0.00	0.00
11,800.0	90.00	179.56	10,900.0	-958.3	-448.5	993.5	0.00	0.00	0.00
11,900.0	90.00	179.56	10,900.0	-1,058.3	-447.7	1,093.1	0.00	0.00	0.00
12,000.0	90.00	179.56	10,900.0	-1,158.3	-447.0	1,192.7	0.00	0.00	0.00
12,100.0	90.00	179.56	10,900.0	-1,258.3	-446.2	1,292.2	0.00	0.00	0.00
12,200.0	90.00	179.56	10,900.0	-1,358.3	-445.4	1,391.8	0.00	0.00	0.00
12,300.0	90.00	179.56	10,900.0	-1,458.3	-444.7	1,491.3	0.00	0.00	0.00
12,400.0	90.00	179.56	10,900.0	-1,558.3	-443.9	1,590.9	0.00	0.00	0.00
12,500.0	90.00	179.56	10,900.0	-1,658.3	-443.1	1,690.4	0.00	0.00	0.00
12,600.0	90.00	179.56	10,900.0	-1,758.3	-442.4	1,790.0	0.00	0.00	0.00
12,700.0	90.00	179.56	10,900.0	-1,858.3	-441.6	1,889.5	0.00	0.00	0.00
12,800.0	90.00	179.56	10,900.0	-1,958.3	-440.8	1,989.1	0.00	0.00	0.00
12,900.0	90.00	179.56	10,900.0	-2,058.3	-440.1	2,088.7	0.00	0.00	0.00
13,000.0	90.00	179.56	10,900.0	-2,158.3	-439.3	2,188.2	0.00	0.00	0.00
13,100.0	90.00	179.56	10,900.0	-2,258.3	-438.6	2,287.8	0.00	0.00	0.00
13,200.0	90.00	179.56	10,900.0	-2,358.3	-437.8	2,387.3	0.00	0.00	0.00
13,300.0	90.00	179.56	10,900.0	-2,458.3	-437.0	2,486.9	0.00	0.00	0.00
13,400.0	90.00	179.56	10,900.0	-2,558.3	-436.3	2,586.4	0.00	0.00	0.00
13,500.0	90.00	179.56	10,900.0	-2,658.3	-435.5	2,686.0	0.00	0.00	0.00
13,600.0	90.00	179.56	10,900.0	-2,758.3	-434.7	2,785.5	0.00	0.00	0.00
13,700.0	90.00	179.56	10,900.0	-2,858.3	-434.0	2,885.1	0.00	0.00	0.00
13,800.0	90.00	179.56	10,900.0	-2,958.3	-433.2	2,984.7	0.00	0.00	0.00
13,900.0	90.00	179.56	10,900.0	-3,058.3	-432.5	3,084.2	0.00	0.00	0.00
14,000.0	90.00	179.56	10,900.0	-3,158.3	-431.7	3,183.8	0.00	0.00	0.00
14,100.0	90.00	179.56	10,900.0	-3,258.3	-430.9	3,283.3	0.00	0.00	0.00
14,200.0	90.00	179.56	10,900.0	-3,358.3	-430.2	3,382.9	0.00	0.00	0.00
14,300.0	90.00	179.56	10,900.0	-3,458.2	-429.4	3,482.4	0.00	0.00	0.00
14,400.0	90.00	179.56	10,900.0	-3,558.2	-428.6	3,582.0	0.00	0.00	0.00
14,500.0	90.00	179.56	10,900.0	-3,658.2	-427.9	3,681.5	0.00	0.00	0.00
14,600.0	90.00	179.56	10,900.0	-3,758.2	-427.1	3,781.1	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: #502H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #502H
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)
14,700.0	90.00	179.56	10,900.0	-3,858.2	-426.4	3,880.7	0.00	0.00	0.00
14,800.0	90.00	179.56	10,900.0	-3,958.2	-425.6	3,980.2	0.00	0.00	0.00
14,900.0	90.00	179.56	10,900.0	-4,058.2	-424.8	4,079.8	0.00	0.00	0.00
15,000.0	90.00	179.56	10,900.0	-4,158.2	-424.1	4,179.3	0.00	0.00	0.00
15,100.0	90.00	179.56	10,900.0	-4,258.2	-423.3	4,278.9	0.00	0.00	0.00
15,200.0	90.00	179.56	10,900.0	-4,358.2	-422.5	4,378.4	0.00	0.00	0.00
15,300.0	90.00	179.56	10,900.0	-4,458.2	-421.8	4,478.0	0.00	0.00	0.00
15,400.0	90.00	179.56	10,900.0	-4,558.2	-421.0	4,577.6	0.00	0.00	0.00
15,500.0	90.00	179.56	10,900.0	-4,658.2	-420.3	4,677.1	0.00	0.00	0.00
15,564.8	90.00	179.56	10,900.0	-4,723.0	-419.8	4,741.6	0.00	0.00	0.00
LTP(BB 26 State #502H)									
15,600.0	90.00	179.56	10,900.0	-4,758.2	-419.5	4,776.7	0.00	0.00	0.00
15,664.8	90.00	179.56	10,900.0	-4,823.0	-419.0	4,841.2	0.00	0.00	0.00
PBHL(BB 26 State #502H)									

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
PBHL(BB 26 State #502 - plan hits target center - Point	0.00	0.00	10,900.0	-4,823.0	-419.0	393,837.00	747,918.00	32° 4' 48.882 N	103° 31' 58.432 W
LTP(BB 26 State #502H) - plan misses target center by 0.2usft at 15564.8usft MD (10900.0 TVD, -4723.0 N, -419.8 E) - Point	0.00	0.00	10,900.0	-4,723.0	-420.0	393,937.00	747,917.00	32° 4' 49.872 N	103° 31' 58.435 W
FTP(BB 26 State #502H) - plan misses target center by 73.9usft at 10967.5usft MD (10834.3 TVD, -136.5 N, -450.0 E) - Point	0.00	0.00	10,900.0	-103.0	-455.0	398,557.00	747,882.00	32° 5' 35.592 N	103° 31' 58.443 W