

Revised Permit Information 5/7/15:

MAY 08 2015

Well Name: Brown Bear 36 State No. 702H

RECEIVED

Location:

SL: 244' FSL & 1379' FWL, Section 36, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 887' 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'-17,308'	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
17,308'	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' - 11,966'	Oil Base	8.7-9.4	58-68	N/c - 6
11,966' - 17,308' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

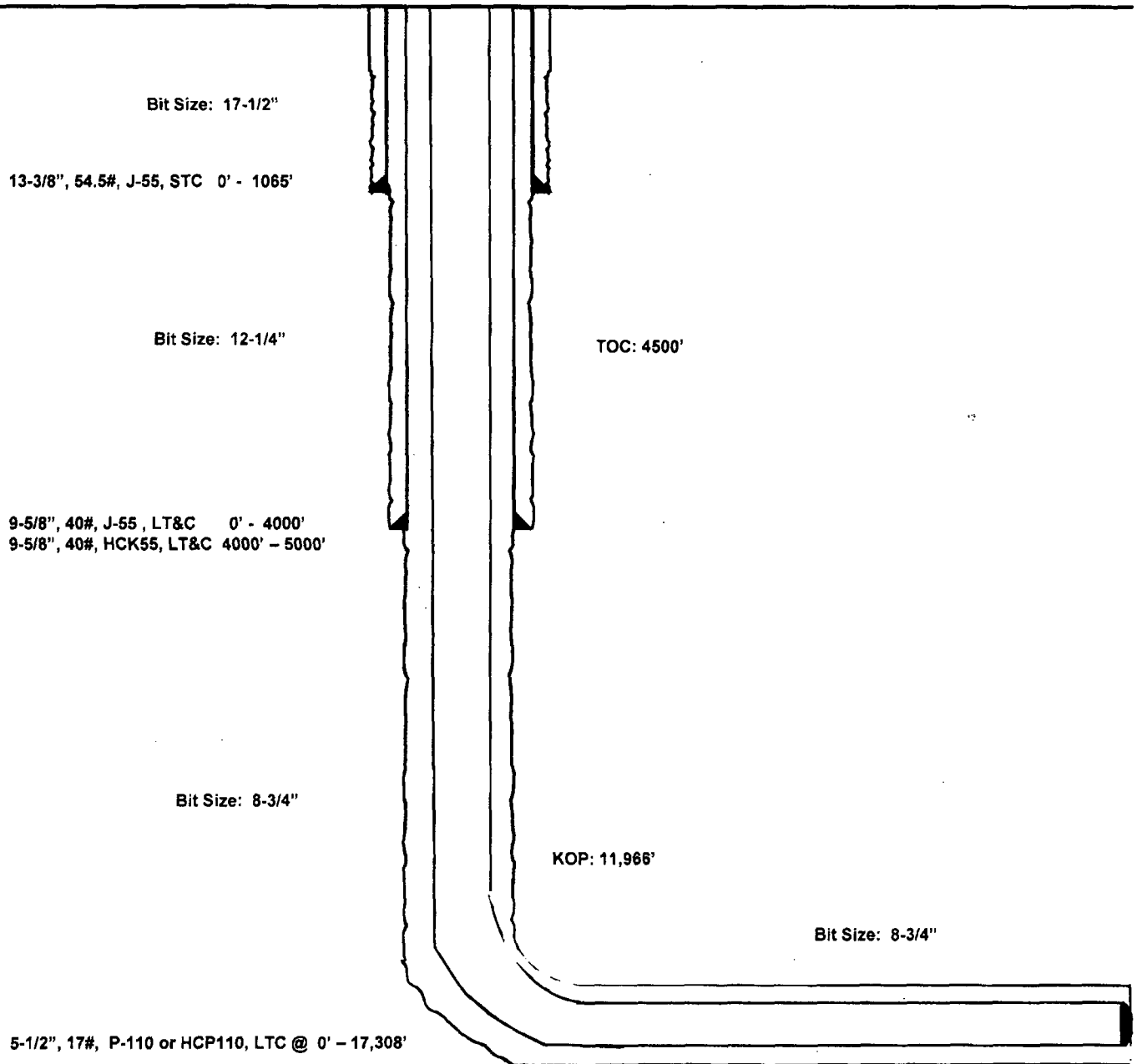
MAY 08 2015

Brown Bear 36 State #702H
Lea County, New Mexico

244' FSL
1379' FWL
Section 36
T-25-S, R-33-E

Proposed Wellbore
Revised 5/7/15
API: 30-025-42538

KB: 3,344'
GL: 3,319'



Lateral: 17,308' MD, 12,543' TVD

BH Location: 230' FNL & 887' FWL
Section 36
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)
Brown Bear 36 State #702H
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: -0.43°
Magnetic North: 8.72°
Magnetic Field
Strength: 48070.8nT
Dip Angle: 59.96°
Date: 5/22/2016
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 8.72°
To convert a Magnetic Direction to a True Direction, Add 7.19° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #702H

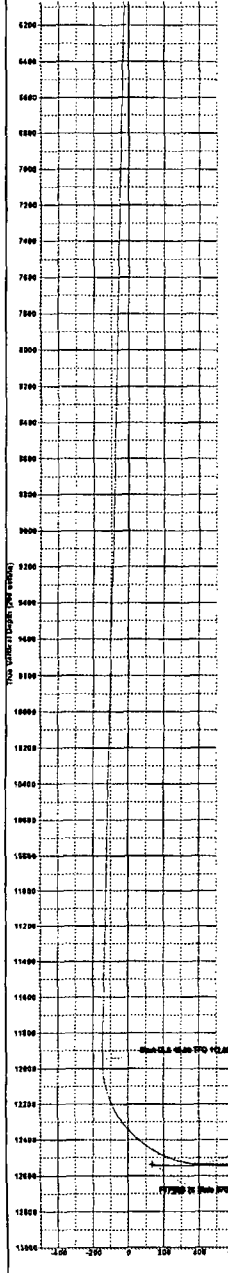
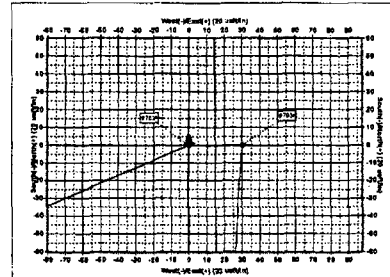
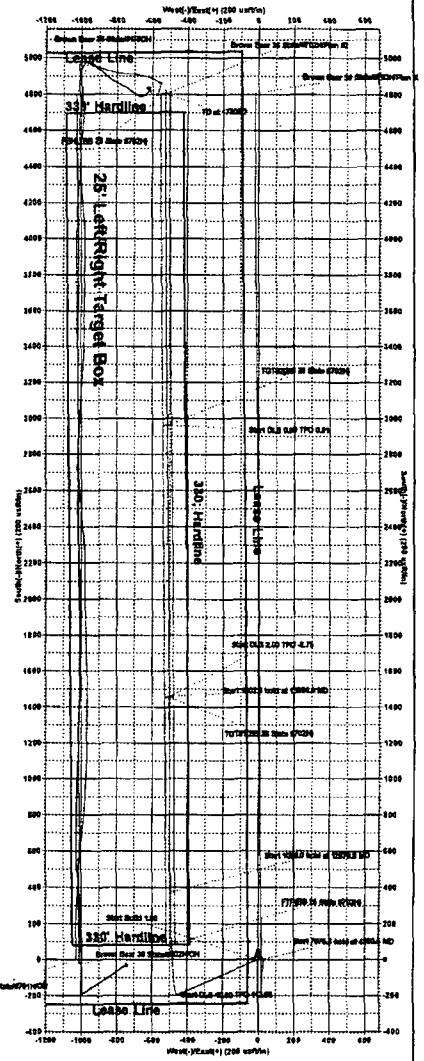
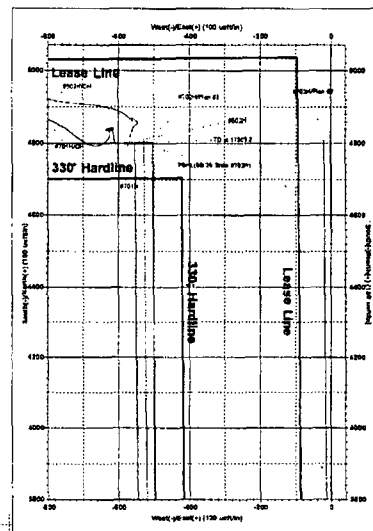
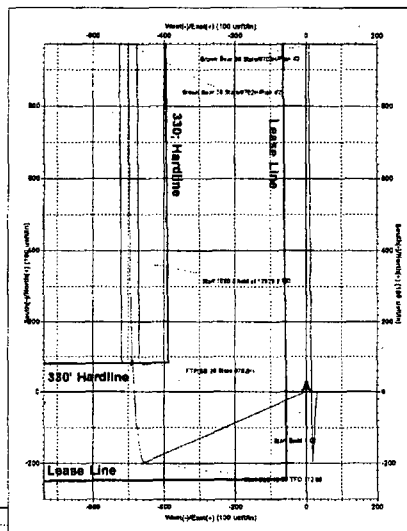
Ground Level: 3319.0
KB = 25 @ 3344 Outer (H&P 260)
Easting: 745917.00 32° 4' 49.027" N
Northing: 100° 31' 49.819" W
Shut

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeal	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	4890.5	3.90	246.56	4890.2	-5.3	-12.2	1.00	246.56	-3.9	
4	11966.3	3.90	246.56	11949.8	-197.0	-454.3	0.00	0.00	-146.1	
5	12879.8	89.82	359.58	12536.7	373.7	-495.3	10.00	112.98	425.5	
6	13959.8	89.82	359.58	12540.0	1453.7	-503.2	0.00	0.00	1500.0	TGT#1(BB 26 State #702H)
7	13964.9	89.92	359.58	12540.0	1458.8	-503.2	2.00	-2.75	1505.0	
8	15467.7	89.92	359.58	12542.0	2961.5	-514.4	0.00	0.00	3000.0	TGT#2(BB 26 State #702H)
9	17308.2	90.01	359.58	12543.0	4802.0	-528.0	0.00	0.01	4830.9	PBHL(BB 26 State #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
FT#1(BB 26 State #702H)	12536.0	82.0	-493.0	382541.00	745424.00	Point
TGT#1(BB 26 State #702H)	12540.0	1453.7	-503.2	386312.70	748415.55	Point
TGT#2(BB 26 State #702H)	12542.0	2961.5	-514.4	356820.50	748402.55	Point
PBHL(BB 26 State #702H)	12543.0	4802.0	-528.0	386881.00	748389.00	Rectangle (Sides: L0.0 W50.0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Brown Bear 36 State

#702H

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: #702H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3344.0usft (H&P 260)
MD Reference: KB = 25 @ 3344.0usft (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	#702H			
Well Position	+N/-S	-4,801.0 usft	Northing:	393,859.00 usft
	+E/-W	610.0 usft	Easting:	748,917.00 usft
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft
			Ground Level:	3,319.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	5/22/2015	(°)	(°)	(nT)
			7.15	59.96	48,071

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	353.73

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	
4,890.5	3.90	246.56	4,890.2	-5.3	-12.2	1.00	1.00	0.00	246.56	
11,966.3	3.90	246.56	11,949.6	-197.0	-454.3	0.00	0.00	0.00	0.00	
12,879.8	89.82	359.58	12,536.7	373.7	-495.3	10.00	9.41	12.37	112.98	
13,959.8	89.82	359.58	12,540.0	1,453.7	-503.2	0.00	0.00	0.00	0.00	TGT#1(BB 26 State #
13,964.9	89.92	359.58	12,540.0	1,458.8	-503.2	2.00	2.00	-0.10	-2.75	
15,467.7	89.92	359.58	12,542.0	2,961.5	-514.4	0.00	0.00	0.00	0.00	TGT#2(BB 26 State #
17,308.2	90.01	359.58	12,543.0	4,802.0	-528.0	0.00	0.00	0.00	0.01	PBHL(BB 26 State #7



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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)
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	246.56	4,600.0	-0.3	-0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	246.56	4,700.0	-1.4	-3.2	-1.0	1.00	1.00	0.00
4,800.0	3.00	246.56	4,799.9	-3.1	-7.2	-2.3	1.00	1.00	0.00
4,890.5	3.90	246.56	4,890.2	-5.3	-12.2	-3.9	1.00	1.00	0.00
4,900.0	3.90	246.56	4,899.7	-5.5	-12.8	-4.1	0.00	0.00	0.00
5,000.0	3.90	246.56	4,999.4	-8.3	-19.0	-6.1	0.00	0.00	0.00
5,100.0	3.90	246.56	5,099.2	-11.0	-25.3	-8.1	0.00	0.00	0.00
5,200.0	3.90	246.56	5,199.0	-13.7	-31.5	-10.1	0.00	0.00	0.00



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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	3.90	246.56	5,298.7	-16.4	-37.8	-12.2	0.00	0.00	0.00
5,400.0	3.90	246.56	5,398.5	-19.1	-44.0	-14.2	0.00	0.00	0.00
5,500.0	3.90	246.56	5,498.3	-21.8	-50.3	-16.2	0.00	0.00	0.00
5,600.0	3.90	246.56	5,598.1	-24.5	-56.5	-18.2	0.00	0.00	0.00
5,700.0	3.90	246.56	5,697.8	-27.2	-62.8	-20.2	0.00	0.00	0.00
5,800.0	3.90	246.56	5,797.6	-29.9	-69.0	-22.2	0.00	0.00	0.00
5,900.0	3.90	246.56	5,897.4	-32.6	-75.3	-24.2	0.00	0.00	0.00
6,000.0	3.90	246.56	5,997.1	-35.3	-81.5	-26.2	0.00	0.00	0.00
6,100.0	3.90	246.56	6,096.9	-38.1	-87.8	-28.2	0.00	0.00	0.00
6,200.0	3.90	246.56	6,196.7	-40.8	-94.0	-30.2	0.00	0.00	0.00
6,300.0	3.90	246.56	6,296.4	-43.5	-100.3	-32.3	0.00	0.00	0.00
6,400.0	3.90	246.56	6,396.2	-46.2	-106.5	-34.3	0.00	0.00	0.00
6,500.0	3.90	246.56	6,496.0	-48.9	-112.8	-36.3	0.00	0.00	0.00
6,600.0	3.90	246.56	6,595.7	-51.6	-119.0	-38.3	0.00	0.00	0.00
6,700.0	3.90	246.56	6,695.5	-54.3	-125.3	-40.3	0.00	0.00	0.00
6,800.0	3.90	246.56	6,795.3	-57.0	-131.5	-42.3	0.00	0.00	0.00
6,900.0	3.90	246.56	6,895.0	-59.7	-137.8	-44.3	0.00	0.00	0.00
7,000.0	3.90	246.56	6,994.8	-62.4	-144.0	-46.3	0.00	0.00	0.00
7,100.0	3.90	246.56	7,094.6	-65.1	-150.3	-48.3	0.00	0.00	0.00
7,200.0	3.90	246.56	7,194.3	-67.9	-156.5	-50.3	0.00	0.00	0.00
7,300.0	3.90	246.56	7,294.1	-70.6	-162.8	-52.4	0.00	0.00	0.00
7,400.0	3.90	246.56	7,393.9	-73.3	-169.0	-54.4	0.00	0.00	0.00
7,500.0	3.90	246.56	7,493.6	-76.0	-175.2	-56.4	0.00	0.00	0.00
7,600.0	3.90	246.56	7,593.4	-78.7	-181.5	-58.4	0.00	0.00	0.00
7,700.0	3.90	246.56	7,693.2	-81.4	-187.7	-60.4	0.00	0.00	0.00
7,800.0	3.90	246.56	7,792.9	-84.1	-194.0	-62.4	0.00	0.00	0.00
7,900.0	3.90	246.56	7,892.7	-86.8	-200.2	-64.4	0.00	0.00	0.00
8,000.0	3.90	246.56	7,992.5	-89.5	-206.5	-66.4	0.00	0.00	0.00
8,100.0	3.90	246.56	8,092.2	-92.2	-212.7	-68.4	0.00	0.00	0.00
8,200.0	3.90	246.56	8,192.0	-94.9	-219.0	-70.4	0.00	0.00	0.00
8,300.0	3.90	246.56	8,291.8	-97.7	-225.2	-72.4	0.00	0.00	0.00
8,400.0	3.90	246.56	8,391.6	-100.4	-231.5	-74.5	0.00	0.00	0.00
8,500.0	3.90	246.56	8,491.3	-103.1	-237.7	-76.5	0.00	0.00	0.00
8,600.0	3.90	246.56	8,591.1	-105.8	-244.0	-78.5	0.00	0.00	0.00
8,700.0	3.90	246.56	8,690.9	-108.5	-250.2	-80.5	0.00	0.00	0.00
8,800.0	3.90	246.56	8,790.6	-111.2	-256.5	-82.5	0.00	0.00	0.00
8,900.0	3.90	246.56	8,890.4	-113.9	-262.7	-84.5	0.00	0.00	0.00
9,000.0	3.90	246.56	8,990.2	-116.6	-269.0	-86.5	0.00	0.00	0.00
9,100.0	3.90	246.56	9,089.9	-119.3	-275.2	-88.5	0.00	0.00	0.00
9,200.0	3.90	246.56	9,189.7	-122.0	-281.5	-90.5	0.00	0.00	0.00
9,300.0	3.90	246.56	9,289.5	-124.7	-287.7	-92.5	0.00	0.00	0.00
9,400.0	3.90	246.56	9,389.2	-127.4	-294.0	-94.6	0.00	0.00	0.00
9,500.0	3.90	246.56	9,489.0	-130.2	-300.2	-96.6	0.00	0.00	0.00
9,600.0	3.90	246.56	9,588.8	-132.9	-306.5	-98.6	0.00	0.00	0.00
9,700.0	3.90	246.56	9,688.5	-135.6	-312.7	-100.6	0.00	0.00	0.00
9,800.0	3.90	246.56	9,788.3	-138.3	-319.0	-102.6	0.00	0.00	0.00
9,900.0	3.90	246.56	9,888.1	-141.0	-325.2	-104.6	0.00	0.00	0.00
10,000.0	3.90	246.56	9,987.8	-143.7	-331.4	-106.6	0.00	0.00	0.00
10,100.0	3.90	246.56	10,087.6	-146.4	-337.7	-108.6	0.00	0.00	0.00
10,200.0	3.90	246.56	10,187.4	-149.1	-343.9	-110.6	0.00	0.00	0.00
10,300.0	3.90	246.56	10,287.1	-151.8	-350.2	-112.6	0.00	0.00	0.00
10,400.0	3.90	246.56	10,386.9	-154.5	-356.4	-114.7	0.00	0.00	0.00
10,500.0	3.90	246.56	10,486.7	-157.2	-362.7	-116.7	0.00	0.00	0.00
10,600.0	3.90	246.56	10,586.4	-160.0	-368.9	-118.7	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Well: #702H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3344.0usft (H&P 260)
MD Reference: KB = 25 @ 3344.0usft (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	3.90	246.56	10,686.2	-162.7	-375.2	-120.7	0.00	0.00	0.00
10,800.0	3.90	246.56	10,786.0	-165.4	-381.4	-122.7	0.00	0.00	0.00
10,900.0	3.90	246.56	10,885.7	-168.1	-387.7	-124.7	0.00	0.00	0.00
11,000.0	3.90	246.56	10,985.5	-170.8	-393.9	-126.7	0.00	0.00	0.00
11,100.0	3.90	246.56	11,085.3	-173.5	-400.2	-128.7	0.00	0.00	0.00
11,200.0	3.90	246.56	11,185.1	-176.2	-406.4	-130.7	0.00	0.00	0.00
11,300.0	3.90	246.56	11,284.8	-178.9	-412.7	-132.7	0.00	0.00	0.00
11,400.0	3.90	246.56	11,384.6	-181.6	-418.9	-134.8	0.00	0.00	0.00
11,500.0	3.90	246.56	11,484.4	-184.3	-425.2	-136.8	0.00	0.00	0.00
11,600.0	3.90	246.56	11,584.1	-187.0	-431.4	-138.8	0.00	0.00	0.00
11,700.0	3.90	246.56	11,683.9	-189.8	-437.7	-140.8	0.00	0.00	0.00
11,800.0	3.90	246.56	11,783.7	-192.5	-443.9	-142.8	0.00	0.00	0.00
11,900.0	3.90	246.56	11,883.4	-195.2	-450.2	-144.8	0.00	0.00	0.00
11,966.3	3.90	246.56	11,949.6	-197.0	-454.3	-146.1	0.00	0.00	0.00
12,000.0	4.04	296.73	11,983.2	-196.9	-456.4	-145.8	10.00	0.39	148.99
12,050.0	7.72	332.00	12,032.9	-193.1	-459.6	-141.7	10.00	7.37	70.54
12,100.0	12.37	342.94	12,082.2	-185.0	-462.7	-133.4	10.00	9.29	21.89
12,150.0	17.21	347.89	12,130.5	-172.7	-465.8	-120.7	10.00	9.68	9.89
12,200.0	22.12	350.70	12,177.6	-156.2	-468.9	-104.0	10.00	9.82	5.62
12,250.0	27.06	352.53	12,223.0	-135.6	-471.9	-83.2	10.00	9.88	3.66
12,300.0	32.02	353.83	12,266.5	-111.1	-474.8	-58.5	10.00	9.92	2.60
12,350.0	36.99	354.81	12,307.7	-82.9	-477.6	-30.2	10.00	9.94	1.96
12,400.0	41.97	355.59	12,346.3	-51.3	-480.3	1.5	10.00	9.95	1.56
12,450.0	46.95	356.23	12,382.0	-16.3	-482.8	36.5	10.00	9.96	1.28
12,500.0	51.93	356.77	12,414.5	21.6	-485.1	74.5	10.00	9.97	1.09
12,550.0	56.91	357.25	12,443.5	62.2	-487.2	115.0	10.00	9.97	0.95
12,600.0	61.90	357.67	12,469.0	105.1	-489.1	158.0	10.00	9.97	0.85
12,608.2	62.72	357.73	12,472.8	112.4	-489.4	165.2	10.00	9.97	0.80
FTP(BB 26 State #702H)									
12,650.0	66.89	358.05	12,490.6	150.2	-490.8	202.9	10.00	9.98	0.77
12,700.0	71.88	358.41	12,508.2	197.0	-492.2	249.6	10.00	9.98	0.72
12,750.0	76.87	358.75	12,521.6	245.1	-493.4	297.5	10.00	9.98	0.68
12,800.0	81.86	359.08	12,530.9	294.2	-494.3	346.5	10.00	9.98	0.65
12,850.0	86.85	359.39	12,535.8	343.9	-495.0	396.0	10.00	9.98	0.63
12,879.8	89.82	359.58	12,536.7	373.7	-495.3	425.6	10.00	9.98	0.63
12,900.0	89.82	359.58	12,536.7	393.9	-495.4	445.7	0.00	0.00	0.00
13,000.0	89.82	359.58	12,537.0	493.9	-496.1	545.2	0.00	0.00	0.00
13,100.0	89.82	359.58	12,537.3	593.9	-496.9	644.7	0.00	0.00	0.00
13,200.0	89.82	359.58	12,537.7	693.9	-497.6	744.1	0.00	0.00	0.00
13,300.0	89.82	359.58	12,538.0	793.9	-498.3	843.6	0.00	0.00	0.00
13,400.0	89.82	359.58	12,538.3	893.9	-499.1	943.1	0.00	0.00	0.00
13,500.0	89.82	359.58	12,538.6	993.9	-499.8	1,042.6	0.00	0.00	0.00
13,600.0	89.82	359.58	12,538.9	1,093.9	-500.5	1,142.0	0.00	0.00	0.00
13,700.0	89.82	359.58	12,539.2	1,193.9	-501.3	1,241.5	0.00	0.00	0.00
13,800.0	89.82	359.58	12,539.5	1,293.9	-502.0	1,341.0	0.00	0.00	0.00
13,900.0	89.82	359.58	12,539.8	1,393.9	-502.7	1,440.5	0.00	0.00	0.00
13,959.8	89.82	359.58	12,540.0	1,453.7	-503.2	1,500.0	0.00	0.00	0.00
TGT#1(BB 26 State #702H)									
13,964.9	89.92	359.58	12,540.0	1,458.8	-503.2	1,505.0	2.00	2.00	-0.10
14,000.0	89.92	359.58	12,540.1	1,493.9	-503.5	1,540.0	0.00	0.00	0.00
14,100.0	89.92	359.58	12,540.2	1,593.9	-504.2	1,639.4	0.00	0.00	0.00
14,200.0	89.92	359.58	12,540.3	1,693.9	-505.0	1,738.9	0.00	0.00	0.00
14,300.0	89.92	359.58	12,540.5	1,793.9	-505.7	1,838.4	0.00	0.00	0.00
14,400.0	89.92	359.58	12,540.6	1,893.9	-506.4	1,937.9	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3344.0usft (H&P 260)
MD Reference: KB = 25 @ 3344.0usft (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)
14,500.0	89.92	359.58	12,540.7	1,993.9	-507.2	2,037.3	0.00	0.00	0.00
14,600.0	89.92	359.58	12,540.9	2,093.9	-507.9	2,136.8	0.00	0.00	0.00
14,700.0	89.92	359.58	12,541.0	2,193.9	-508.7	2,236.3	0.00	0.00	0.00
14,800.0	89.92	359.58	12,541.1	2,293.9	-509.4	2,335.8	0.00	0.00	0.00
14,900.0	89.92	359.58	12,541.2	2,393.9	-510.1	2,435.3	0.00	0.00	0.00
15,000.0	89.92	359.58	12,541.4	2,493.8	-510.9	2,534.7	0.00	0.00	0.00
15,100.0	89.92	359.58	12,541.5	2,593.8	-511.6	2,634.2	0.00	0.00	0.00
15,200.0	89.92	359.58	12,541.6	2,693.8	-512.4	2,733.7	0.00	0.00	0.00
15,300.0	89.92	359.58	12,541.8	2,793.8	-513.1	2,833.2	0.00	0.00	0.00
15,400.0	89.92	359.58	12,541.9	2,893.8	-513.9	2,932.7	0.00	0.00	0.00
15,467.7	89.92	359.58	12,542.0	2,961.5	-514.4	3,000.0	0.00	0.00	0.00
TGT#2(BB 26 State #702H)									
15,500.0	89.93	359.58	12,542.0	2,993.8	-514.6	3,032.1	0.00	0.00	0.00
15,600.0	89.93	359.58	12,542.2	3,093.8	-515.3	3,131.6	0.00	0.00	0.00
15,700.0	89.94	359.58	12,542.3	3,193.8	-516.1	3,231.1	0.00	0.00	0.00
15,800.0	89.94	359.58	12,542.4	3,293.8	-516.8	3,330.6	0.00	0.00	0.00
15,900.0	89.95	359.58	12,542.5	3,393.8	-517.6	3,430.1	0.00	0.00	0.00
16,000.0	89.95	359.58	12,542.6	3,493.8	-518.3	3,529.5	0.00	0.00	0.00
16,100.0	89.95	359.58	12,542.7	3,593.8	-519.0	3,629.0	0.00	0.00	0.00
16,200.0	89.96	359.58	12,542.7	3,693.8	-519.8	3,728.5	0.00	0.00	0.00
16,300.0	89.96	359.58	12,542.8	3,793.8	-520.5	3,828.0	0.00	0.00	0.00
16,400.0	89.97	359.58	12,542.9	3,893.8	-521.3	3,927.5	0.00	0.00	0.00
16,500.0	89.97	359.58	12,542.9	3,993.8	-522.0	4,026.9	0.00	0.00	0.00
16,600.0	89.98	359.58	12,543.0	4,093.8	-522.7	4,126.4	0.00	0.00	0.00
16,700.0	89.98	359.58	12,543.0	4,193.8	-523.5	4,225.9	0.00	0.00	0.00
16,800.0	89.99	359.58	12,543.0	4,293.8	-524.2	4,325.4	0.00	0.00	0.00
16,900.0	89.99	359.58	12,543.0	4,393.8	-525.0	4,424.8	0.00	0.00	0.00
17,000.0	90.00	359.58	12,543.0	4,493.8	-525.7	4,524.3	0.00	0.00	0.00
17,100.0	90.00	359.58	12,543.0	4,593.8	-526.5	4,623.8	0.00	0.00	0.00
17,200.0	90.01	359.58	12,543.0	4,693.8	-527.2	4,723.3	0.00	0.00	0.00
17,308.2	90.01	359.58	12,543.0	4,802.0	-528.0	4,830.9	0.00	0.00	0.00
PBHL(BB 26 State #702H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(BB 26 State #702H)	0.00	0.00	12,536.0	82.0	-493.0	393,941.00	748,424.00	32° 4' 49.874 N	103° 31' 52.542 W
- hit/miss target									
- Shape									
- plan misses target center by 70.2usft at 12608.2usft MD (12472.8 TVD, 112.4 N, -489.4 E)									
- Point									
TGT#1(BB 26 State #70)	0.00	0.00	12,540.0	1,453.7	-503.2	395,312.70	748,413.83	32° 5' 3.449 N	103° 31' 52.542 W
- plan hits target center									
- Point									
TGT#2(BB 26 State #70)	0.00	0.00	12,542.0	2,961.5	-514.4	396,820.50	748,402.64	32° 5' 18.370 N	103° 31' 52.541 W
- plan hits target center									
- Point									
PBHL(BB 26 State #702)	90.00	359.58	12,543.0	4,802.0	-528.0	398,661.00	748,389.00	32° 5' 36.584 N	103° 31' 52.541 W
- plan hits target center									
- Rectangle (sides W50.0 H0.0 D4,720.2)									



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