

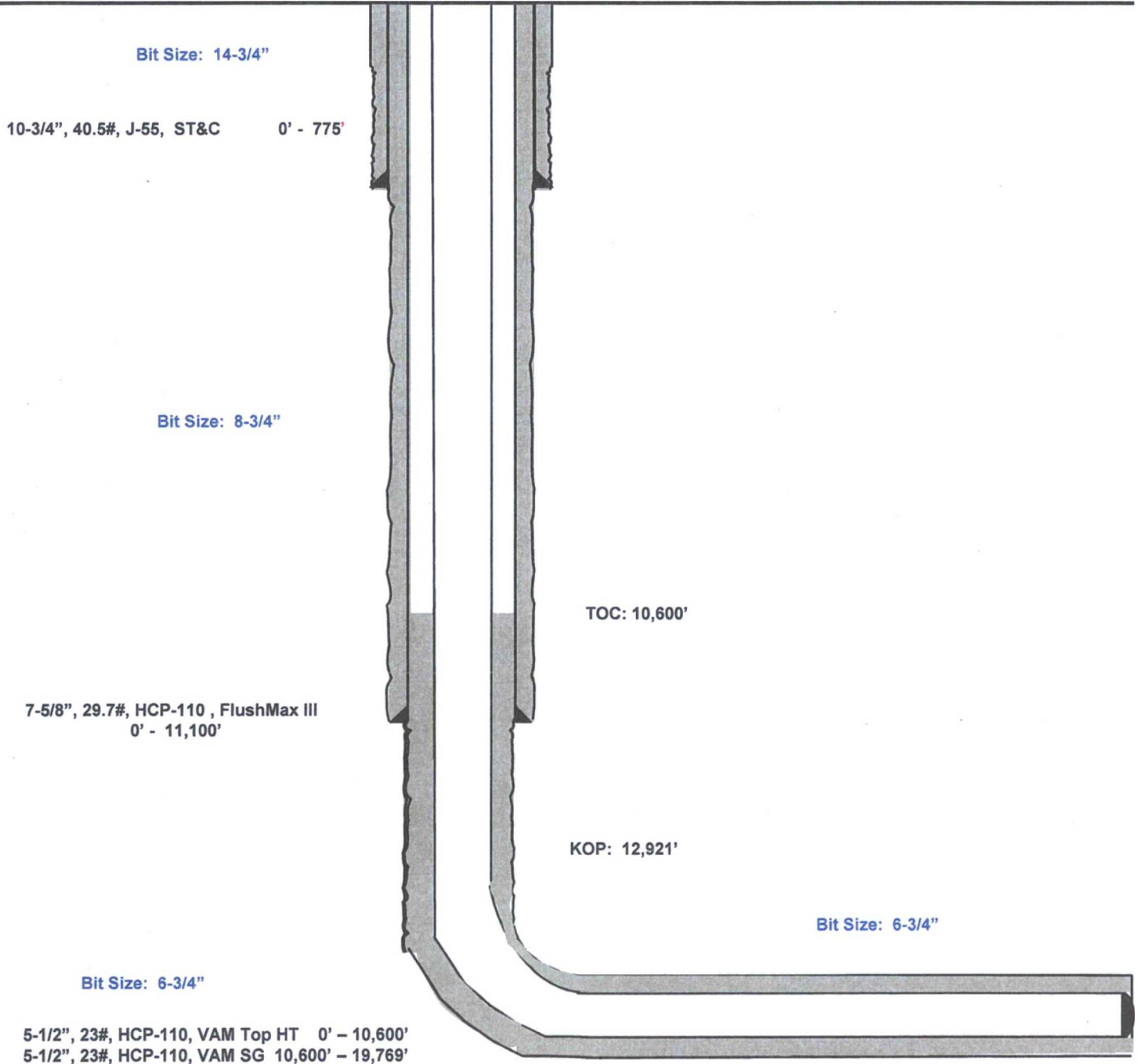
Rattlesnake 28 Fed Com #709H

536' FNL
1115' FWL
Section 28
T-26-S, R-33-E

Lea County, New Mexico
Proposed Wellbore

API: 30-025-*****

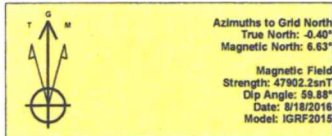
KB: 3,252'
GL: 3,227'



Lateral: 19,769' MD, 12,375' TVD
Upper Most Perf:
330' FNL & 33' FWL Sec. 28
Lower Most Perf:
330' FSL & 330' FWL Sec. 33
BH Location: 230' FSL & 330' FWL
Section 33
T-26-S, R-33-E



Lea County, NM (NAD 27 NME)
Rattlesnake 28 Fed Com #709H
Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 6.64°
To convert a Magnetic Direction to a True Direction, Add 7.03° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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: #709H

Ground Level: 3227.0
KB = 25' @ 3252.0usft
Northing 371865.00 Easting 732961.00 Latitude 32° 1' 12.517 N Longitude 103° 34' 54.043 W

SECTION DETAILS

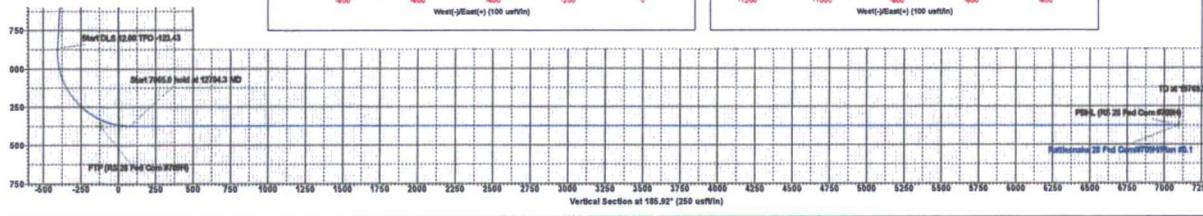
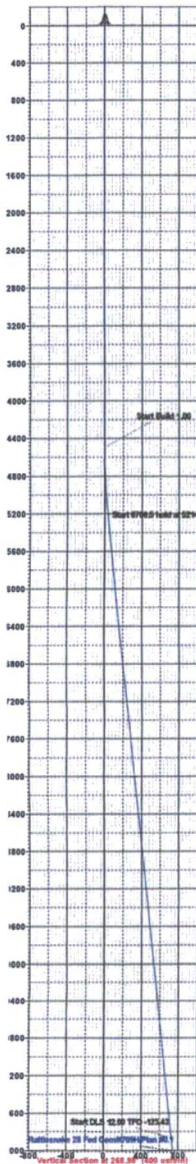
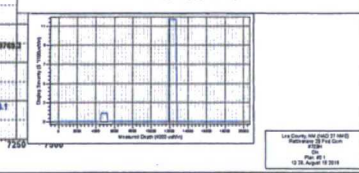
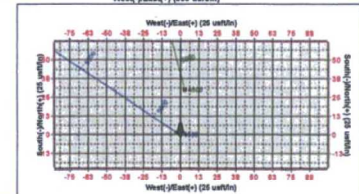
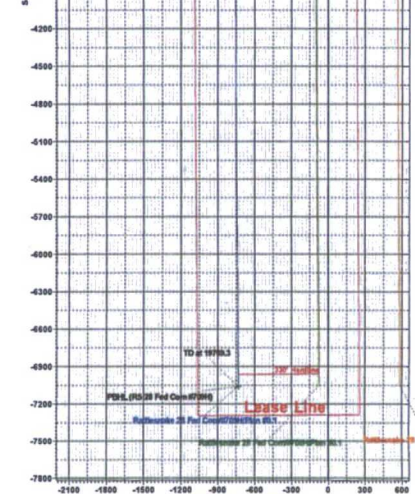
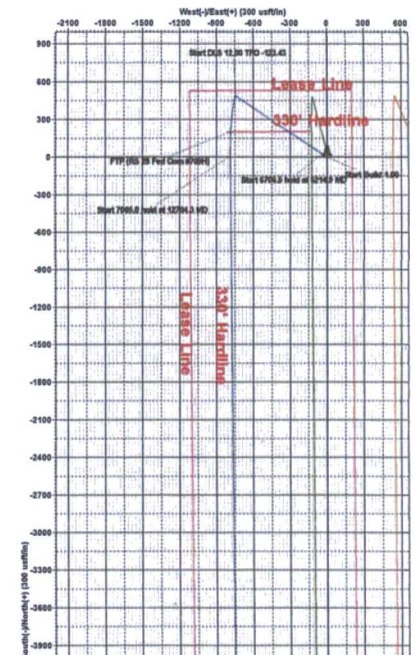
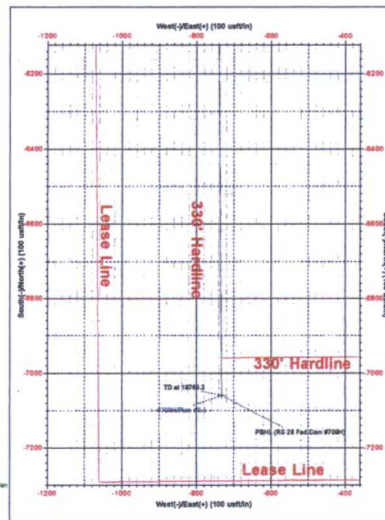
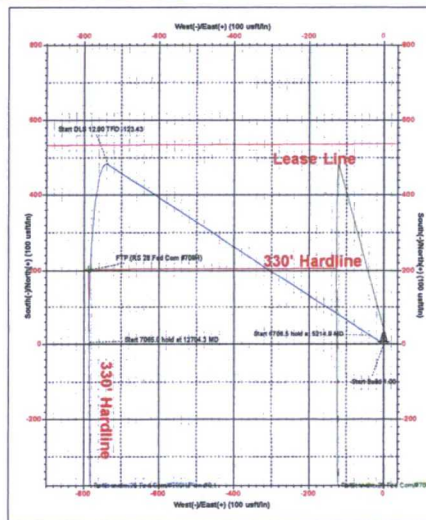
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	5214.9	7.15	303.21	5213.1	24.4	-37.3	1.00	303.21	-20.4	
4	11921.4	7.15	303.21	11867.4	461.5	-735.6	0.00	0.00	-403.1	
5	12704.3	90.00	179.57	12375.0	4.8	-785.0	12.00	-123.43	76.2	
6	19769.3	90.00	179.57	12375.0	-7060.0	-732.0	0.00	0.00	7097.8	PBHL (RS 28 Fed Com #709H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (RS 28 Fed Com #709H)	12375.0	-7060.0	-732.0	364806.00	732229.00
FTP (RS 28 Fed Com #709H)	12375.0	202.0	-787.0	372067.00	732174.00





HOBBS OCD

JAN 03 2017

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Rattlesnake 28 Fed Com

#709H

OH

Plan: Plan #0.1

Standard Planning Report

18 August, 2016



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Rattlesnake 28 Fed Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3252.0usft
MD Reference: KB = 25' @ 3252.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 27 NME)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Rattlesnake 28 Fed Com

Site Position: Northing: 371,679.00 usft Latitude: 32° 1' 10.534 N
From: Map Easting: 735,024.00 usft Longitude: 103° 34' 30.097 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence: 0.40°

Well #709H

Well Position: +N/-S 186.0 usft Northing: 371,865.00 usft Latitude: 32° 1' 12.517 N
+E/-W -2,063.0 usft Easting: 732,961.00 usft Longitude: 103° 34' 54.043 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,227.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/18/2016	7.03	59.88	47,902

Design Plan #0.1

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	185.92

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	
5,214.9	7.15	303.21	5,213.1	24.4	-37.3	1.00	1.00	0.00	303.21	
11,921.4	7.15	303.21	11,867.4	481.5	-735.6	0.00	0.00	0.00	0.00	
12,704.3	90.00	179.57	12,375.0	4.8	-785.0	12.00	10.58	-15.79	-123.43	
19,769.3	90.00	179.57	12,375.0	-7,060.0	-732.0	0.00	0.00	0.00	0.00	PBHL (RS 28 Fed Co)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Rattlesnake 28 Fed Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3252.0usft
MD Reference: KB = 25' @ 3252.0usft
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	303.21	4,600.0	0.5	-0.7	-0.4	1.00	1.00	0.00
4,700.0	2.00	303.21	4,700.0	1.9	-2.9	-1.6	1.00	1.00	0.00
4,800.0	3.00	303.21	4,799.9	4.3	-6.6	-3.6	1.00	1.00	0.00
4,900.0	4.00	303.21	4,899.7	7.6	-11.7	-6.4	1.00	1.00	0.00
5,000.0	5.00	303.21	4,999.4	11.9	-18.2	-10.0	1.00	1.00	0.00
5,100.0	6.00	303.21	5,098.9	17.2	-26.3	-14.4	1.00	1.00	0.00
5,200.0	7.00	303.21	5,198.3	23.4	-35.7	-19.6	1.00	1.00	0.00
5,214.9	7.15	303.21	5,213.1	24.4	-37.3	-20.4	1.00	1.00	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: Rattlesnake 28 Fed Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3252.0usft
MD Reference: KB = 25' @ 3252.0usft
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	7.15	303.21	5,297.5	30.2	-46.1	-25.3	0.00	0.00	0.00
5,400.0	7.15	303.21	5,396.7	37.0	-56.5	-31.0	0.00	0.00	0.00
5,500.0	7.15	303.21	5,495.9	43.8	-67.0	-36.7	0.00	0.00	0.00
5,600.0	7.15	303.21	5,595.2	50.6	-77.4	-42.4	0.00	0.00	0.00
5,700.0	7.15	303.21	5,694.4	57.5	-87.8	-48.1	0.00	0.00	0.00
5,800.0	7.15	303.21	5,793.6	64.3	-98.2	-53.8	0.00	0.00	0.00
5,900.0	7.15	303.21	5,892.8	71.1	-108.6	-59.5	0.00	0.00	0.00
6,000.0	7.15	303.21	5,992.0	77.9	-119.0	-65.2	0.00	0.00	0.00
6,100.0	7.15	303.21	6,091.3	84.7	-129.4	-70.9	0.00	0.00	0.00
6,200.0	7.15	303.21	6,190.5	91.5	-139.8	-76.6	0.00	0.00	0.00
6,300.0	7.15	303.21	6,289.7	98.4	-150.3	-82.3	0.00	0.00	0.00
6,400.0	7.15	303.21	6,388.9	105.2	-160.7	-88.0	0.00	0.00	0.00
6,500.0	7.15	303.21	6,488.2	112.0	-171.1	-93.7	0.00	0.00	0.00
6,600.0	7.15	303.21	6,587.4	118.8	-181.5	-99.5	0.00	0.00	0.00
6,700.0	7.15	303.21	6,686.6	125.6	-191.9	-105.2	0.00	0.00	0.00
6,800.0	7.15	303.21	6,785.8	132.4	-202.3	-110.9	0.00	0.00	0.00
6,900.0	7.15	303.21	6,885.0	139.3	-212.7	-116.6	0.00	0.00	0.00
7,000.0	7.15	303.21	6,984.3	146.1	-223.1	-122.3	0.00	0.00	0.00
7,100.0	7.15	303.21	7,083.5	152.9	-233.6	-128.0	0.00	0.00	0.00
7,200.0	7.15	303.21	7,182.7	159.7	-244.0	-133.7	0.00	0.00	0.00
7,300.0	7.15	303.21	7,281.9	166.5	-254.4	-139.4	0.00	0.00	0.00
7,400.0	7.15	303.21	7,381.2	173.3	-264.8	-145.1	0.00	0.00	0.00
7,500.0	7.15	303.21	7,480.4	180.1	-275.2	-150.8	0.00	0.00	0.00
7,600.0	7.15	303.21	7,579.6	187.0	-285.6	-156.5	0.00	0.00	0.00
7,700.0	7.15	303.21	7,678.8	193.8	-296.0	-162.2	0.00	0.00	0.00
7,800.0	7.15	303.21	7,778.0	200.6	-306.4	-167.9	0.00	0.00	0.00
7,900.0	7.15	303.21	7,877.3	207.4	-316.9	-173.6	0.00	0.00	0.00
8,000.0	7.15	303.21	7,976.5	214.2	-327.3	-179.3	0.00	0.00	0.00
8,100.0	7.15	303.21	8,075.7	221.0	-337.7	-185.0	0.00	0.00	0.00
8,200.0	7.15	303.21	8,174.9	227.9	-348.1	-190.7	0.00	0.00	0.00
8,300.0	7.15	303.21	8,274.2	234.7	-358.5	-196.5	0.00	0.00	0.00
8,400.0	7.15	303.21	8,373.4	241.5	-368.9	-202.2	0.00	0.00	0.00
8,500.0	7.15	303.21	8,472.6	248.3	-379.3	-207.9	0.00	0.00	0.00
8,600.0	7.15	303.21	8,571.8	255.1	-389.7	-213.6	0.00	0.00	0.00
8,700.0	7.15	303.21	8,671.1	261.9	-400.2	-219.3	0.00	0.00	0.00
8,800.0	7.15	303.21	8,770.3	268.8	-410.6	-225.0	0.00	0.00	0.00
8,900.0	7.15	303.21	8,869.5	275.6	-421.0	-230.7	0.00	0.00	0.00
9,000.0	7.15	303.21	8,968.7	282.4	-431.4	-236.4	0.00	0.00	0.00
9,100.0	7.15	303.21	9,067.9	289.2	-441.8	-242.1	0.00	0.00	0.00
9,200.0	7.15	303.21	9,167.2	296.0	-452.2	-247.8	0.00	0.00	0.00
9,300.0	7.15	303.21	9,266.4	302.8	-462.6	-253.5	0.00	0.00	0.00
9,400.0	7.15	303.21	9,365.6	309.7	-473.0	-259.2	0.00	0.00	0.00
9,500.0	7.15	303.21	9,464.8	316.5	-483.5	-264.9	0.00	0.00	0.00
9,600.0	7.15	303.21	9,564.1	323.3	-493.9	-270.6	0.00	0.00	0.00
9,700.0	7.15	303.21	9,663.3	330.1	-504.3	-276.3	0.00	0.00	0.00
9,800.0	7.15	303.21	9,762.5	336.9	-514.7	-282.0	0.00	0.00	0.00
9,900.0	7.15	303.21	9,861.7	343.7	-525.1	-287.7	0.00	0.00	0.00
10,000.0	7.15	303.21	9,960.9	350.6	-535.5	-293.5	0.00	0.00	0.00
10,100.0	7.15	303.21	10,060.2	357.4	-545.9	-299.2	0.00	0.00	0.00
10,200.0	7.15	303.21	10,159.4	364.2	-556.3	-304.9	0.00	0.00	0.00
10,300.0	7.15	303.21	10,258.6	371.0	-566.8	-310.6	0.00	0.00	0.00
10,400.0	7.15	303.21	10,357.8	377.8	-577.2	-316.3	0.00	0.00	0.00
10,500.0	7.15	303.21	10,457.1	384.6	-587.6	-322.0	0.00	0.00	0.00
10,600.0	7.15	303.21	10,556.3	391.4	-598.0	-327.7	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: Rattlesnake 28 Fed Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25' @ 3252.0usft
MD Reference: KB = 25' @ 3252.0usft
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	7.15	303.21	10,655.5	398.3	-608.4	-333.4	0.00	0.00	0.00
10,800.0	7.15	303.21	10,754.7	405.1	-618.8	-339.1	0.00	0.00	0.00
10,900.0	7.15	303.21	10,853.9	411.9	-629.2	-344.8	0.00	0.00	0.00
11,000.0	7.15	303.21	10,953.2	418.7	-639.7	-350.5	0.00	0.00	0.00
11,100.0	7.15	303.21	11,052.4	425.5	-650.1	-356.2	0.00	0.00	0.00
11,200.0	7.15	303.21	11,151.6	432.3	-660.5	-361.9	0.00	0.00	0.00
11,300.0	7.15	303.21	11,250.8	439.2	-670.9	-367.6	0.00	0.00	0.00
11,400.0	7.15	303.21	11,350.1	446.0	-681.3	-373.3	0.00	0.00	0.00
11,500.0	7.15	303.21	11,449.3	452.8	-691.7	-379.0	0.00	0.00	0.00
11,600.0	7.15	303.21	11,548.5	459.6	-702.1	-384.7	0.00	0.00	0.00
11,700.0	7.15	303.21	11,647.7	466.4	-712.5	-390.5	0.00	0.00	0.00
11,800.0	7.15	303.21	11,747.0	473.2	-723.0	-396.2	0.00	0.00	0.00
11,900.0	7.15	303.21	11,846.2	480.1	-733.4	-401.9	0.00	0.00	0.00
11,921.4	7.15	303.21	11,867.4	481.5	-735.6	-403.1	0.00	0.00	0.00
11,925.0	6.92	300.19	11,871.0	481.7	-736.0	-403.3	12.00	-6.35	-83.17
11,950.0	5.98	274.54	11,895.8	482.6	-738.6	-403.9	12.00	-3.74	-102.59
11,975.0	6.46	246.91	11,920.7	482.2	-741.2	-403.2	12.00	1.89	-110.51
12,000.0	8.09	226.83	11,945.5	480.4	-743.7	-401.1	12.00	6.55	-80.34
12,025.0	10.36	214.42	11,970.2	477.3	-746.3	-397.8	12.00	9.05	-49.62
12,050.0	12.92	206.65	11,994.7	473.0	-748.8	-393.2	12.00	10.26	-31.09
12,075.0	15.64	201.48	12,018.9	467.4	-751.3	-387.4	12.00	10.87	-20.70
12,100.0	18.44	197.82	12,042.8	460.5	-753.7	-380.3	12.00	11.21	-14.62
12,125.0	21.30	195.11	12,066.3	452.3	-756.1	-371.9	12.00	11.42	-10.85
12,150.0	24.19	193.01	12,089.3	442.9	-758.5	-362.4	12.00	11.56	-8.37
12,175.0	27.10	191.35	12,111.9	432.4	-760.8	-351.6	12.00	11.65	-6.68
12,200.0	30.03	189.98	12,133.8	420.6	-763.0	-339.7	12.00	11.71	-5.47
12,225.0	32.97	188.84	12,155.1	407.7	-765.1	-326.7	12.00	11.76	-4.58
12,250.0	35.91	187.86	12,175.8	393.7	-767.1	-312.5	12.00	11.80	-3.90
12,275.0	38.87	187.01	12,195.6	378.7	-769.1	-297.4	12.00	11.82	-3.38
12,300.0	41.83	186.27	12,214.7	362.6	-771.0	-281.2	12.00	11.84	-2.98
12,325.0	44.80	185.61	12,232.9	345.6	-772.7	-264.0	12.00	11.86	-2.65
12,350.0	47.77	185.01	12,250.1	327.6	-774.4	-246.0	12.00	11.88	-2.39
12,375.0	50.74	184.47	12,266.5	308.7	-776.0	-227.0	12.00	11.89	-2.17
12,400.0	53.71	183.97	12,281.8	289.0	-777.4	-207.3	12.00	11.90	-2.00
12,425.0	56.69	183.51	12,296.0	268.5	-778.8	-186.8	12.00	11.90	-1.85
12,450.0	59.66	183.07	12,309.2	247.3	-780.0	-165.5	12.00	11.91	-1.73
12,475.0	62.64	182.67	12,321.3	225.4	-781.1	-143.7	12.00	11.92	-1.63
12,500.0	65.62	182.28	12,332.2	203.0	-782.0	-121.2	12.00	11.92	-1.54
12,517.7	67.74	182.02	12,339.2	186.7	-782.6	-105.0	12.00	11.92	-1.48
FTP (RS 28 Fed Com #709H)									
12,525.0	68.60	181.91	12,341.9	180.0	-782.9	-98.3	12.00	11.92	-1.45
12,550.0	71.59	181.56	12,350.4	156.5	-783.6	-74.8	12.00	11.93	-1.41
12,575.0	74.57	181.22	12,357.7	132.5	-784.2	-51.0	12.00	11.93	-1.36
12,600.0	77.55	180.89	12,363.7	108.3	-784.6	-26.8	12.00	11.93	-1.32
12,625.0	80.53	180.57	12,368.5	83.8	-784.9	-2.4	12.00	11.93	-1.29
12,650.0	83.52	180.25	12,371.9	59.0	-785.1	22.3	12.00	11.93	-1.27
12,675.0	86.50	179.94	12,374.1	34.1	-785.1	47.1	12.00	11.93	-1.26
12,700.0	89.49	179.62	12,375.0	9.1	-785.1	71.9	12.00	11.94	-1.25
12,704.3	90.00	179.57	12,375.0	4.8	-785.0	76.2	12.00	11.94	-1.25
12,800.0	90.00	179.57	12,375.0	-90.9	-784.3	171.3	0.00	0.00	0.00
12,900.0	90.00	179.57	12,375.0	-190.9	-783.6	270.7	0.00	0.00	0.00
13,000.0	90.00	179.57	12,375.0	-290.9	-782.8	370.1	0.00	0.00	0.00
13,100.0	90.00	179.57	12,375.0	-390.9	-782.1	469.4	0.00	0.00	0.00



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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)
13,200.0	90.00	179.57	12,375.0	-490.9	-781.3	568.8	0.00	0.00	0.00
13,300.0	90.00	179.57	12,375.0	-590.9	-780.6	668.2	0.00	0.00	0.00
13,400.0	90.00	179.57	12,375.0	-690.9	-779.8	767.6	0.00	0.00	0.00
13,500.0	90.00	179.57	12,375.0	-790.9	-779.1	867.0	0.00	0.00	0.00
13,600.0	90.00	179.57	12,375.0	-890.9	-778.3	966.4	0.00	0.00	0.00
13,700.0	90.00	179.57	12,375.0	-990.9	-777.5	1,065.8	0.00	0.00	0.00
13,800.0	90.00	179.57	12,375.0	-1,090.9	-776.8	1,165.1	0.00	0.00	0.00
13,900.0	90.00	179.57	12,375.0	-1,190.9	-776.0	1,264.5	0.00	0.00	0.00
14,000.0	90.00	179.57	12,375.0	-1,290.8	-775.3	1,363.9	0.00	0.00	0.00
14,100.0	90.00	179.57	12,375.0	-1,390.8	-774.5	1,463.3	0.00	0.00	0.00
14,200.0	90.00	179.57	12,375.0	-1,490.8	-773.8	1,562.7	0.00	0.00	0.00
14,300.0	90.00	179.57	12,375.0	-1,590.8	-773.0	1,662.1	0.00	0.00	0.00
14,400.0	90.00	179.57	12,375.0	-1,690.8	-772.3	1,761.5	0.00	0.00	0.00
14,500.0	90.00	179.57	12,375.0	-1,790.8	-771.5	1,860.9	0.00	0.00	0.00
14,600.0	90.00	179.57	12,375.0	-1,890.8	-770.8	1,960.2	0.00	0.00	0.00
14,700.0	90.00	179.57	12,375.0	-1,990.8	-770.0	2,059.6	0.00	0.00	0.00
14,800.0	90.00	179.57	12,375.0	-2,090.8	-769.3	2,159.0	0.00	0.00	0.00
14,900.0	90.00	179.57	12,375.0	-2,190.8	-768.5	2,258.4	0.00	0.00	0.00
15,000.0	90.00	179.57	12,375.0	-2,290.8	-767.8	2,357.8	0.00	0.00	0.00
15,100.0	90.00	179.57	12,375.0	-2,390.8	-767.0	2,457.2	0.00	0.00	0.00
15,200.0	90.00	179.57	12,375.0	-2,490.8	-766.3	2,556.6	0.00	0.00	0.00
15,300.0	90.00	179.57	12,375.0	-2,590.8	-765.5	2,655.9	0.00	0.00	0.00
15,400.0	90.00	179.57	12,375.0	-2,690.8	-764.8	2,755.3	0.00	0.00	0.00
15,500.0	90.00	179.57	12,375.0	-2,790.8	-764.0	2,854.7	0.00	0.00	0.00
15,600.0	90.00	179.57	12,375.0	-2,890.8	-763.3	2,954.1	0.00	0.00	0.00
15,700.0	90.00	179.57	12,375.0	-2,990.8	-762.5	3,053.5	0.00	0.00	0.00
15,800.0	90.00	179.57	12,375.0	-3,090.8	-761.8	3,152.9	0.00	0.00	0.00
15,900.0	90.00	179.57	12,375.0	-3,190.8	-761.0	3,252.3	0.00	0.00	0.00
16,000.0	90.00	179.57	12,375.0	-3,290.8	-760.3	3,351.7	0.00	0.00	0.00
16,100.0	90.00	179.57	12,375.0	-3,390.8	-759.5	3,451.0	0.00	0.00	0.00
16,200.0	90.00	179.57	12,375.0	-3,490.8	-758.8	3,550.4	0.00	0.00	0.00
16,300.0	90.00	179.57	12,375.0	-3,590.8	-758.0	3,649.8	0.00	0.00	0.00
16,400.0	90.00	179.57	12,375.0	-3,690.8	-757.3	3,749.2	0.00	0.00	0.00
16,500.0	90.00	179.57	12,375.0	-3,790.8	-756.5	3,848.6	0.00	0.00	0.00
16,600.0	90.00	179.57	12,375.0	-3,890.8	-755.8	3,948.0	0.00	0.00	0.00
16,700.0	90.00	179.57	12,375.0	-3,990.8	-755.0	4,047.4	0.00	0.00	0.00
16,800.0	90.00	179.57	12,375.0	-4,090.8	-754.3	4,146.7	0.00	0.00	0.00
16,900.0	90.00	179.57	12,375.0	-4,190.8	-753.5	4,246.1	0.00	0.00	0.00
17,000.0	90.00	179.57	12,375.0	-4,290.8	-752.8	4,345.5	0.00	0.00	0.00
17,100.0	90.00	179.57	12,375.0	-4,390.8	-752.0	4,444.9	0.00	0.00	0.00
17,200.0	90.00	179.57	12,375.0	-4,490.8	-751.3	4,544.3	0.00	0.00	0.00
17,300.0	90.00	179.57	12,375.0	-4,590.8	-750.5	4,643.7	0.00	0.00	0.00
17,400.0	90.00	179.57	12,375.0	-4,690.8	-749.8	4,743.1	0.00	0.00	0.00
17,500.0	90.00	179.57	12,375.0	-4,790.8	-749.0	4,842.5	0.00	0.00	0.00
17,600.0	90.00	179.57	12,375.0	-4,890.7	-748.3	4,941.8	0.00	0.00	0.00
17,700.0	90.00	179.57	12,375.0	-4,990.7	-747.5	5,041.2	0.00	0.00	0.00
17,800.0	90.00	179.57	12,375.0	-5,090.7	-746.8	5,140.6	0.00	0.00	0.00
17,900.0	90.00	179.57	12,375.0	-5,190.7	-746.0	5,240.0	0.00	0.00	0.00
18,000.0	90.00	179.57	12,375.0	-5,290.7	-745.3	5,339.4	0.00	0.00	0.00
18,100.0	90.00	179.57	12,375.0	-5,390.7	-744.5	5,438.8	0.00	0.00	0.00
18,200.0	90.00	179.57	12,375.0	-5,490.7	-743.8	5,538.2	0.00	0.00	0.00
18,300.0	90.00	179.57	12,375.0	-5,590.7	-743.0	5,637.5	0.00	0.00	0.00
18,400.0	90.00	179.57	12,375.0	-5,690.7	-742.3	5,736.9	0.00	0.00	0.00
18,500.0	90.00	179.57	12,375.0	-5,790.7	-741.5	5,836.3	0.00	0.00	0.00



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18,600.0	90.00	179.57	12,375.0	-5,890.7	-740.8	5,935.7	0.00	0.00	0.00
18,700.0	90.00	179.57	12,375.0	-5,990.7	-740.0	6,035.1	0.00	0.00	0.00
18,800.0	90.00	179.57	12,375.0	-6,090.7	-739.3	6,134.5	0.00	0.00	0.00
18,900.0	90.00	179.57	12,375.0	-6,190.7	-738.5	6,233.9	0.00	0.00	0.00
19,000.0	90.00	179.57	12,375.0	-6,290.7	-737.8	6,333.3	0.00	0.00	0.00
19,100.0	90.00	179.57	12,375.0	-6,390.7	-737.0	6,432.6	0.00	0.00	0.00
19,200.0	90.00	179.57	12,375.0	-6,490.7	-736.3	6,532.0	0.00	0.00	0.00
19,300.0	90.00	179.57	12,375.0	-6,590.7	-735.5	6,631.4	0.00	0.00	0.00
19,400.0	90.00	179.57	12,375.0	-6,690.7	-734.8	6,730.8	0.00	0.00	0.00
19,500.0	90.00	179.57	12,375.0	-6,790.7	-734.0	6,830.2	0.00	0.00	0.00
19,600.0	90.00	179.57	12,375.0	-6,890.7	-733.3	6,929.6	0.00	0.00	0.00
19,700.0	90.00	179.57	12,375.0	-6,990.7	-732.5	7,029.0	0.00	0.00	0.00
19,769.3	90.00	179.57	12,375.0	-7,060.0	-732.0	7,097.8	0.00	0.00	0.00
PBHL (RS 28 Fed Com #709H)									

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 (RS 28 Fed Com #709H) - plan misses target center by 39.2usft at 12517.7usft MD (12339.2 TVD, 186.7 N, -782.6 E) - Point	0.00	0.00	12,375.0	202.0	-787.0	372,067.00	732,174.00	32° 1' 14.570 N	103° 35' 3.167 W
PBHL (RS 28 Fed Com #709H) - plan hits target center - Point	0.00	0.00	12,375.0	-7,060.0	-732.0	364,805.00	732,229.00	32° 0' 2.702 N	103° 35' 3.113 W