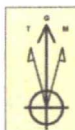




Lea County, NM (NAD 83 NME)

Foghorn 32 State Com #209H

Plan #0.1



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.57°
Magnetic Field
Strength: 47963.4nT
Dip Angle: 60.18°
Date: 6/16/2017
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.57°
To convert a Magnetic Direction to a True Direction, Add 6.96° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #209H

KB = 25' @ 3737.0usft 3712.0
Northing 493267.00 Easting 767175.00 Latitude 32° 21' 14.188 N Longitude 103° 36' 7.090 W

SECTION DETAILS

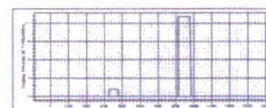
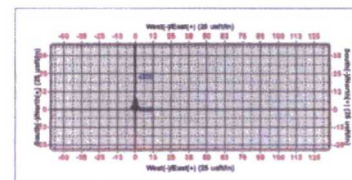
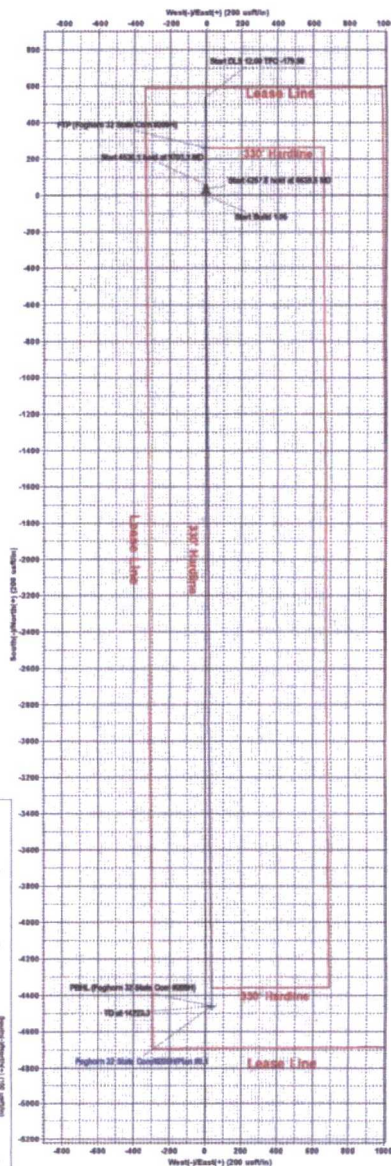
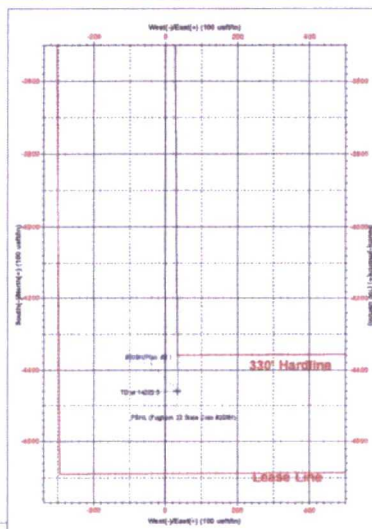
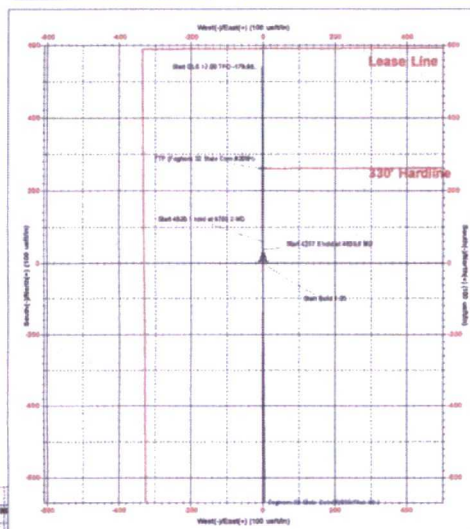
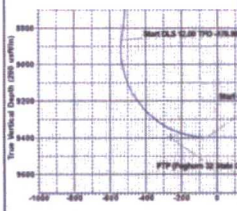
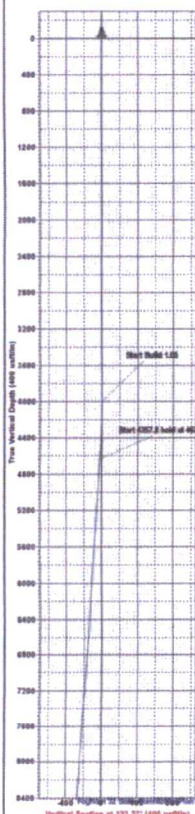
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4639.6	6.70	359.54	4638.1	37.4	-0.3	1.05	359.54	-37.4	
4	8897.4	6.70	359.54	8866.8	534.2	-4.3	0.00	0.00	-534.2	
5	9703.2	90.00	179.56	9400.0	60.0	-0.7	12.00	-179.98	-60.0	
6	14223.3	90.00	179.56	9400.0	-4460.0	34.0	0.00	0.00	4460.1	PBHL (Foghorn 32 State Com #209H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Foghorn 32 State Com #209H)	8400.0	260.0	-2.0	489827.00	767177.00
PBHL (Foghorn 32 State Com #209H)	9400.0	-4460.0	34.0	489827.00	767213.00



Scale: 1 inch = 100 feet
Date: 6/16/2017



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Foghorn 32 State Com

#209H

OH

Plan: Plan #0.1

Standard Planning Report

15 August, 2017



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Foghorn 32 State Com
Well: #209H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #209H
TVD Reference: KB = 25' @ 3737.0usft
MD Reference: KB = 25' @ 3737.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Foghorn 32 State Com		
Site Position:		Northing:	493,566.00 usft
From: Map		Easting:	771,543.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 21' 16.849 N
		Longitude:	103° 35' 16.193 W
		Grid Convergence:	0.40 °

Well	#209H		
Well Position	+N/-S	-299.0 usft	Northing:
	+E/-W	-4,364.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,712.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/15/2017	6.96
			Dip Angle
			60.18
			Field Strength
			47,993.40113201

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			179.56

Plan Survey Tool Program	Date 8/15/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	14,223.3 Plan #0.1 (OH)	MWD
			MWD - Standard

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,639.6	6.70	359.54	4,638.1	37.4	-0.3	1.05	1.05	0.00	359.54	
8,897.4	6.70	359.54	8,866.8	534.2	-4.3	0.00	0.00	0.00	0.00	
9,703.2	90.00	179.56	9,400.0	60.0	-0.7	12.00	10.34	-22.33	-179.98	
14,223.3	90.00	179.56	9,400.0	-4,460.0	34.0	0.00	0.00	0.00	0.00	PBHL (Foghorn 32 St



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 Well: #209H
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 TVD Reference: KB = 25' @ 3737.0usft
 MD Reference: KB = 25' @ 3737.0usft
 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	1.05	359.54	4,100.0	0.9	0.0	-0.9	1.05	1.05	0.00
4,200.0	2.10	359.54	4,200.0	3.7	0.0	-3.7	1.05	1.05	0.00
4,300.0	3.14	359.54	4,299.8	8.2	-0.1	-8.2	1.05	1.05	0.00
4,400.0	4.19	359.54	4,399.6	14.6	-0.1	-14.6	1.05	1.05	0.00
4,500.0	5.24	359.54	4,499.3	22.8	-0.2	-22.8	1.05	1.05	0.00
4,600.0	6.29	359.54	4,598.8	32.9	-0.3	-32.9	1.05	1.05	0.00
4,639.6	6.70	359.54	4,638.1	37.4	-0.3	-37.4	1.05	1.05	0.00
4,700.0	6.70	359.54	4,698.1	44.4	-0.4	-44.4	0.00	0.00	0.00
4,800.0	6.70	359.54	4,797.4	56.1	-0.5	-56.1	0.00	0.00	0.00
4,900.0	6.70	359.54	4,896.8	67.7	-0.5	-67.7	0.00	0.00	0.00
5,000.0	6.70	359.54	4,996.1	79.4	-0.6	-79.4	0.00	0.00	0.00
5,100.0	6.70	359.54	5,095.4	91.1	-0.7	-91.1	0.00	0.00	0.00
5,200.0	6.70	359.54	5,194.7	102.7	-0.8	-102.7	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Foghorn 32 State Com
Well: #209H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #209H
TVD Reference: KB = 25' @ 3737.0usft
MD Reference: KB = 25' @ 3737.0usft
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	6.70	359.54	5,294.0	114.4	-0.9	-114.4	0.00	0.00	0.00
5,400.0	6.70	359.54	5,393.3	126.1	-1.0	-126.1	0.00	0.00	0.00
5,500.0	6.70	359.54	5,492.7	137.7	-1.1	-137.8	0.00	0.00	0.00
5,600.0	6.70	359.54	5,592.0	149.4	-1.2	-149.4	0.00	0.00	0.00
5,700.0	6.70	359.54	5,691.3	161.1	-1.3	-161.1	0.00	0.00	0.00
5,800.0	6.70	359.54	5,790.6	172.8	-1.4	-172.8	0.00	0.00	0.00
5,900.0	6.70	359.54	5,889.9	184.4	-1.5	-184.4	0.00	0.00	0.00
6,000.0	6.70	359.54	5,989.3	196.1	-1.6	-196.1	0.00	0.00	0.00
6,100.0	6.70	359.54	6,088.6	207.8	-1.7	-207.8	0.00	0.00	0.00
6,200.0	6.70	359.54	6,187.9	219.4	-1.8	-219.4	0.00	0.00	0.00
6,300.0	6.70	359.54	6,287.2	231.1	-1.9	-231.1	0.00	0.00	0.00
6,400.0	6.70	359.54	6,386.5	242.8	-2.0	-242.8	0.00	0.00	0.00
6,500.0	6.70	359.54	6,485.8	254.4	-2.1	-254.4	0.00	0.00	0.00
6,600.0	6.70	359.54	6,585.2	266.1	-2.2	-266.1	0.00	0.00	0.00
6,700.0	6.70	359.54	6,684.5	277.8	-2.2	-277.8	0.00	0.00	0.00
6,800.0	6.70	359.54	6,783.8	289.4	-2.3	-289.4	0.00	0.00	0.00
6,900.0	6.70	359.54	6,883.1	301.1	-2.4	-301.1	0.00	0.00	0.00
7,000.0	6.70	359.54	6,982.4	312.8	-2.5	-312.8	0.00	0.00	0.00
7,100.0	6.70	359.54	7,081.7	324.4	-2.6	-324.4	0.00	0.00	0.00
7,200.0	6.70	359.54	7,181.1	336.1	-2.7	-336.1	0.00	0.00	0.00
7,300.0	6.70	359.54	7,280.4	347.8	-2.8	-347.8	0.00	0.00	0.00
7,400.0	6.70	359.54	7,379.7	359.4	-2.9	-359.5	0.00	0.00	0.00
7,500.0	6.70	359.54	7,479.0	371.1	-3.0	-371.1	0.00	0.00	0.00
7,600.0	6.70	359.54	7,578.3	382.8	-3.1	-382.8	0.00	0.00	0.00
7,700.0	6.70	359.54	7,677.6	394.4	-3.2	-394.5	0.00	0.00	0.00
7,800.0	6.70	359.54	7,777.0	406.1	-3.3	-406.1	0.00	0.00	0.00
7,900.0	6.70	359.54	7,876.3	417.8	-3.4	-417.8	0.00	0.00	0.00
8,000.0	6.70	359.54	7,975.6	429.5	-3.5	-429.5	0.00	0.00	0.00
8,100.0	6.70	359.54	8,074.9	441.1	-3.6	-441.1	0.00	0.00	0.00
8,200.0	6.70	359.54	8,174.2	452.8	-3.7	-452.8	0.00	0.00	0.00
8,300.0	6.70	359.54	8,273.5	464.5	-3.8	-464.5	0.00	0.00	0.00
8,400.0	6.70	359.54	8,372.9	476.1	-3.9	-476.1	0.00	0.00	0.00
8,500.0	6.70	359.54	8,472.2	487.8	-4.0	-487.8	0.00	0.00	0.00
8,600.0	6.70	359.54	8,571.5	499.5	-4.0	-499.5	0.00	0.00	0.00
8,700.0	6.70	359.54	8,670.8	511.1	-4.1	-511.1	0.00	0.00	0.00
8,800.0	6.70	359.54	8,770.1	522.8	-4.2	-522.8	0.00	0.00	0.00
8,897.4	6.70	359.54	8,866.8	534.2	-4.3	-534.2	0.00	0.00	0.00
8,900.0	6.38	359.53	8,869.4	534.5	-4.3	-534.5	12.00	-12.00	-0.05
8,925.0	3.38	359.51	8,894.3	536.6	-4.3	-536.6	12.00	-12.00	-0.09
8,950.0	0.38	359.14	8,919.3	537.4	-4.4	-537.4	12.00	-12.00	-1.50
8,975.0	2.62	179.62	8,944.3	536.9	-4.4	-536.9	12.00	8.92	-718.06
9,000.0	5.62	179.59	8,969.3	535.1	-4.3	-535.1	12.00	12.00	-0.13
9,025.0	8.62	179.58	8,994.1	532.0	-4.3	-532.0	12.00	12.00	-0.04
9,050.0	11.62	179.57	9,018.7	527.6	-4.3	-527.7	12.00	12.00	-0.02
9,075.0	14.62	179.57	9,043.0	522.0	-4.2	-522.0	12.00	12.00	-0.01
9,100.0	17.62	179.57	9,067.0	515.0	-4.2	-515.0	12.00	12.00	-0.01
9,125.0	20.62	179.57	9,090.6	506.8	-4.1	-506.9	12.00	12.00	-0.01
9,150.0	23.62	179.57	9,113.8	497.4	-4.1	-497.4	12.00	12.00	0.00
9,175.0	26.62	179.57	9,136.4	486.8	-4.0	-486.8	12.00	12.00	0.00
9,200.0	29.62	179.56	9,158.5	475.0	-3.9	-475.1	12.00	12.00	0.00
9,225.0	32.62	179.56	9,179.9	462.1	-3.8	-462.1	12.00	12.00	0.00
9,250.0	35.62	179.56	9,200.6	448.1	-3.7	-448.1	12.00	12.00	0.00
9,275.0	38.62	179.56	9,220.5	433.0	-3.6	-433.0	12.00	12.00	0.00
9,300.0	41.62	179.56	9,239.6	416.9	-3.4	-416.9	12.00	12.00	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)
9,325.0	44.62	179.56	9,257.9	399.8	-3.3	-399.8	12.00	12.00	0.00
9,350.0	47.62	179.56	9,275.2	381.8	-3.2	-381.8	12.00	12.00	0.00
9,375.0	50.62	179.56	9,291.6	362.9	-3.0	-362.9	12.00	12.00	0.00
9,400.0	53.62	179.56	9,306.9	343.2	-2.9	-343.2	12.00	12.00	0.00
9,425.0	56.62	179.56	9,321.2	322.7	-2.7	-322.7	12.00	12.00	0.00
9,450.0	59.62	179.56	9,334.4	301.5	-2.6	-301.5	12.00	12.00	0.00
9,475.0	62.62	179.56	9,346.5	279.6	-2.4	-279.6	12.00	12.00	0.00
9,500.0	65.62	179.56	9,357.4	257.1	-2.2	-257.1	12.00	12.00	0.00
9,513.9	67.28	179.56	9,363.0	244.4	-2.1	-244.4	12.00	12.00	0.00
FTP (Foghorn 32 State Com #209H)									
9,525.0	68.62	179.56	9,367.1	234.1	-2.0	-234.1	12.00	12.00	0.00
9,550.0	71.62	179.56	9,375.6	210.6	-1.9	-210.6	12.00	12.00	0.00
9,575.0	74.62	179.56	9,382.9	186.6	-1.7	-186.6	12.00	12.00	0.00
9,600.0	77.62	179.56	9,388.9	162.4	-1.5	-162.4	12.00	12.00	0.00
9,625.0	80.62	179.56	9,393.6	137.8	-1.3	-137.8	12.00	12.00	0.00
9,650.0	83.62	179.56	9,397.0	113.1	-1.1	-113.1	12.00	12.00	0.00
9,675.0	86.62	179.56	9,399.2	88.2	-0.9	-88.2	12.00	12.00	0.00
9,700.0	89.62	179.56	9,400.0	63.2	-0.7	-63.2	12.00	12.00	0.00
9,703.2	90.00	179.56	9,400.0	60.0	-0.7	-60.0	12.00	12.00	0.00
9,800.0	90.00	179.56	9,400.0	-36.8	0.0	36.8	0.00	0.00	0.00
9,900.0	90.00	179.56	9,400.0	-136.8	0.8	136.8	0.00	0.00	0.00
10,000.0	90.00	179.56	9,400.0	-236.8	1.6	236.8	0.00	0.00	0.00
10,100.0	90.00	179.56	9,400.0	-336.8	2.3	336.8	0.00	0.00	0.00
10,200.0	90.00	179.56	9,400.0	-436.8	3.1	436.8	0.00	0.00	0.00
10,300.0	90.00	179.56	9,400.0	-536.8	3.9	536.8	0.00	0.00	0.00
10,400.0	90.00	179.56	9,400.0	-636.8	4.6	636.8	0.00	0.00	0.00
10,500.0	90.00	179.56	9,400.0	-736.8	5.4	736.8	0.00	0.00	0.00
10,600.0	90.00	179.56	9,400.0	-836.8	6.2	836.8	0.00	0.00	0.00
10,700.0	90.00	179.56	9,400.0	-936.8	6.9	936.8	0.00	0.00	0.00
10,800.0	90.00	179.56	9,400.0	-1,036.8	7.7	1,036.8	0.00	0.00	0.00
10,900.0	90.00	179.56	9,400.0	-1,136.8	8.5	1,136.8	0.00	0.00	0.00
11,000.0	90.00	179.56	9,400.0	-1,236.8	9.2	1,236.8	0.00	0.00	0.00
11,100.0	90.00	179.56	9,400.0	-1,336.8	10.0	1,336.8	0.00	0.00	0.00
11,200.0	90.00	179.56	9,400.0	-1,436.8	10.8	1,436.8	0.00	0.00	0.00
11,300.0	90.00	179.56	9,400.0	-1,536.8	11.6	1,536.8	0.00	0.00	0.00
11,400.0	90.00	179.56	9,400.0	-1,636.8	12.3	1,636.8	0.00	0.00	0.00
11,500.0	90.00	179.56	9,400.0	-1,736.8	13.1	1,736.8	0.00	0.00	0.00
11,600.0	90.00	179.56	9,400.0	-1,836.8	13.9	1,836.8	0.00	0.00	0.00
11,700.0	90.00	179.56	9,400.0	-1,936.8	14.6	1,936.8	0.00	0.00	0.00
11,800.0	90.00	179.56	9,400.0	-2,036.8	15.4	2,036.8	0.00	0.00	0.00
11,900.0	90.00	179.56	9,400.0	-2,136.8	16.2	2,136.8	0.00	0.00	0.00
12,000.0	90.00	179.56	9,400.0	-2,236.8	16.9	2,236.8	0.00	0.00	0.00
12,100.0	90.00	179.56	9,400.0	-2,336.8	17.7	2,336.8	0.00	0.00	0.00
12,200.0	90.00	179.56	9,400.0	-2,436.8	18.5	2,436.8	0.00	0.00	0.00
12,300.0	90.00	179.56	9,400.0	-2,536.8	19.2	2,536.8	0.00	0.00	0.00
12,400.0	90.00	179.56	9,400.0	-2,636.7	20.0	2,636.8	0.00	0.00	0.00
12,500.0	90.00	179.56	9,400.0	-2,736.7	20.8	2,736.8	0.00	0.00	0.00
12,600.0	90.00	179.56	9,400.0	-2,836.7	21.5	2,836.8	0.00	0.00	0.00
12,700.0	90.00	179.56	9,400.0	-2,936.7	22.3	2,936.8	0.00	0.00	0.00
12,800.0	90.00	179.56	9,400.0	-3,036.7	23.1	3,036.8	0.00	0.00	0.00
12,900.0	90.00	179.56	9,400.0	-3,136.7	23.8	3,136.8	0.00	0.00	0.00
13,000.0	90.00	179.56	9,400.0	-3,236.7	24.6	3,236.8	0.00	0.00	0.00
13,100.0	90.00	179.56	9,400.0	-3,336.7	25.4	3,336.8	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Foghorn 32 State Com
Well: #209H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #209H
TVD Reference: KB = 25' @ 3737.0usft
MD Reference: KB = 25' @ 3737.0usft
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)
13,200.0	90.00	179.56	9,400.0	-3,436.7	26.1	3,436.8	0.00	0.00	0.00
13,300.0	90.00	179.56	9,400.0	-3,536.7	26.9	3,536.8	0.00	0.00	0.00
13,400.0	90.00	179.56	9,400.0	-3,636.7	27.7	3,636.8	0.00	0.00	0.00
13,500.0	90.00	179.56	9,400.0	-3,736.7	28.4	3,736.8	0.00	0.00	0.00
13,600.0	90.00	179.56	9,400.0	-3,836.7	29.2	3,836.8	0.00	0.00	0.00
13,700.0	90.00	179.56	9,400.0	-3,936.7	30.0	3,936.8	0.00	0.00	0.00
13,800.0	90.00	179.56	9,400.0	-4,036.7	30.7	4,036.8	0.00	0.00	0.00
13,900.0	90.00	179.56	9,400.0	-4,136.7	31.5	4,136.8	0.00	0.00	0.00
14,000.0	90.00	179.56	9,400.0	-4,236.7	32.3	4,236.8	0.00	0.00	0.00
14,100.0	90.00	179.56	9,400.0	-4,336.7	33.1	4,336.8	0.00	0.00	0.00
14,200.0	90.00	179.56	9,400.0	-4,436.7	33.8	4,436.8	0.00	0.00	0.00
14,223.3	90.00	179.56	9,400.0	-4,460.0	34.0	4,460.1	0.00	0.00	0.00
PBHL (Foghorn 32 State Com #209H)									

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 (Foghorn 32 State - plan hits target center - Point	0.00	0.00	9,400.0	-4,460.0	34.0	488,807.00	767,213.00	32° 20' 30.054 N	103° 36' 7.049 W
FTP (Foghorn 32 State () - plan misses target center by 40.2usft at 9513.9usft MD (9363.0 TVD, 244.4 N, -2.1 E) - Point	0.00	0.00	9,400.0	260.0	-2.0	493,527.00	767,177.00	32° 21' 16.761 N	103° 36' 7.092 W