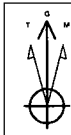




Lea County, NM (NAD 27 NME)
Audacious BTL 19 Fed Com #4H
Plan #0.1



Azimuths to Grid North
True North: -0.39°
Magnetic North: 6.62°
Magnetic Field
Strength: 47913.8nT
Dip Angle: 59.96°
Date: 1/13/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.62°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1888
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #4H

Ground Level: 3436.0
KB = 25' @ 3461.0usft
Northing 408621.00 Easting 725357.00 Latitude 32° 6' 56.971 N Longitude 103° 36' 19.638 W

SECTION DETAILS

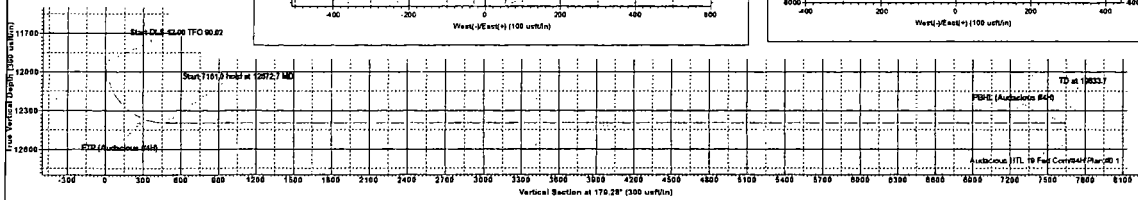
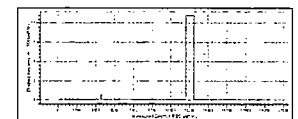
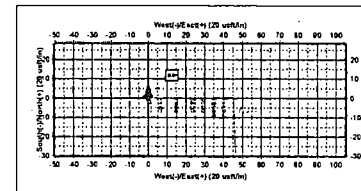
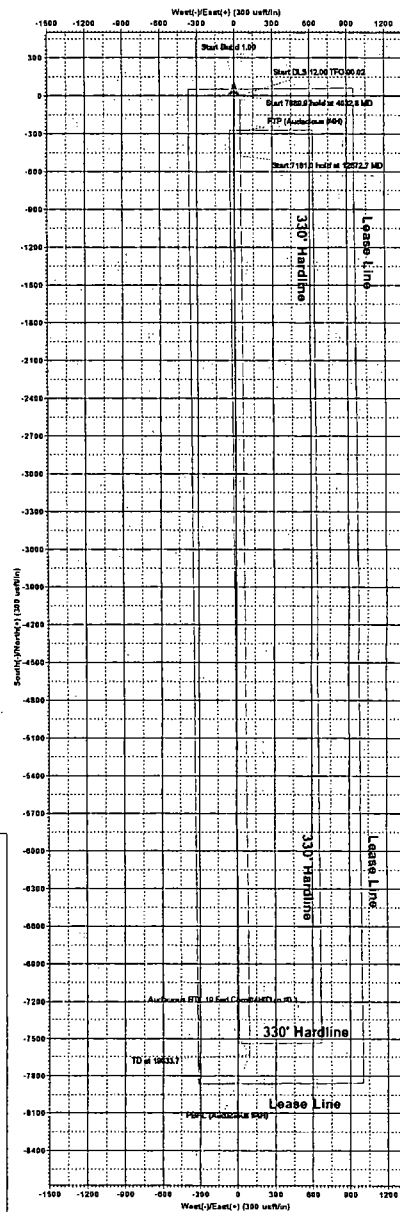
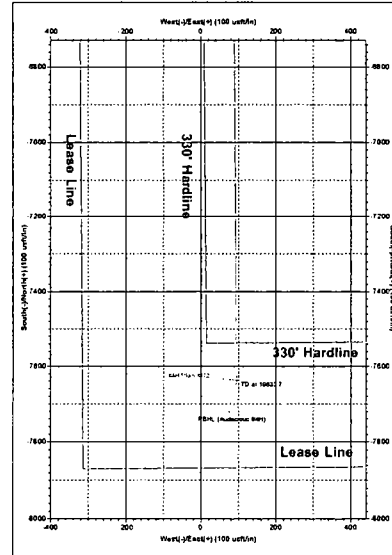
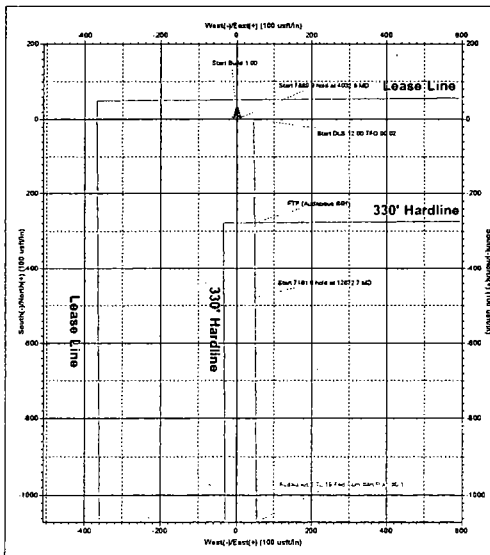
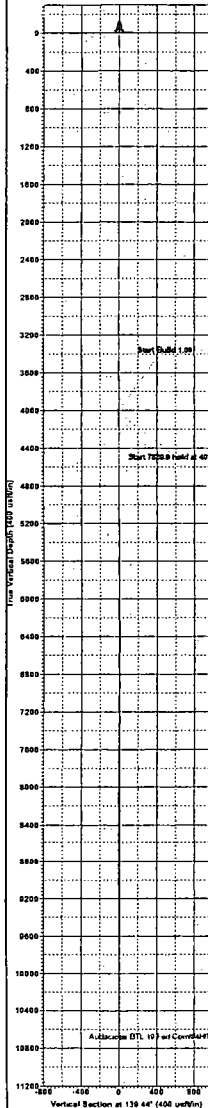
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4032.8	0.33	89.62	4032.8	0.0	0.1	1.00	89.62	0.0	
4	11922.7	0.33	89.62	11922.5	0.3	45.3	0.00	0.00	0.3	
5	12672.7	90.00	179.64	12400.0	-477.1	51.0	12.00	90.02	477.7	
6	19833.7	90.00	179.64	12400.0	-7638.0	96.0	0.00	0.00	7638.6	PBHL (Audacious #4H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Audacious #4H)	12400.0	-279.0	50.0	408345.00	725407.00
PBHL (Audacious #4H)	12400.0	-7638.0	96.0	398993.00	729453.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Audacious BTL 19 Fed Com

#4H

OH

Plan: Plan #0.1

Standard Survey Report

13 January, 2017

HOBBS OCD

JUN 16 2017

RECEIVED



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #4H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 25' @ 3461.0usft
MD Reference: KB = 25' @ 3461.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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		Audacious BTL 19 Fed Com			
Site Position:		Northing:	406,621.00 usft	Latitude:	32° 6' 56.974 N
From:	Map	Easting:	725,322.00 usft	Longitude:	103° 36' 20.045 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well	#4H					
Well Position	+N/-S	0.0 usft	Northing:	406,621.00 usft	Latitude:	32° 6' 56.971 N
	+E/-W	0.0 usft	Easting:	725,357.00 usft	Longitude:	103° 36' 19.638 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,436.0 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	1/13/2017	7.01	59.96	47,914	

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	179.28	

Survey Tool Program	Date	1/13/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	19,833.7	Plan #0.1 (OH)	MWD	MWD - Standard	

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



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #4H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 25' @ 3461.0usft
MD Reference: KB = 25' @ 3461.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User.Db

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)
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
4,032.8	0.33	89.62	4,032.8	0.0	0.1	0.0	1.00	1.00	0.00
4,100.0	0.33	89.62	4,100.0	0.0	0.5	0.0	0.00	0.00	0.00
4,200.0	0.33	89.62	4,200.0	0.0	1.1	0.0	0.00	0.00	0.00
4,300.0	0.33	89.62	4,300.0	0.0	1.6	0.0	0.00	0.00	0.00
4,400.0	0.33	89.62	4,400.0	0.0	2.2	0.0	0.00	0.00	0.00
4,500.0	0.33	89.62	4,500.0	0.0	2.8	0.0	0.00	0.00	0.00
4,600.0	0.33	89.62	4,600.0	0.0	3.3	0.0	0.00	0.00	0.00
4,700.0	0.33	89.62	4,700.0	0.0	3.9	0.0	0.00	0.00	0.00
4,800.0	0.33	89.62	4,800.0	0.0	4.5	0.0	0.00	0.00	0.00
4,900.0	0.33	89.62	4,900.0	0.0	5.1	0.0	0.00	0.00	0.00
5,000.0	0.33	89.62	5,000.0	0.0	5.6	0.0	0.00	0.00	0.00
5,100.0	0.33	89.62	5,100.0	0.0	6.2	0.0	0.00	0.00	0.00
5,200.0	0.33	89.62	5,200.0	0.0	6.8	0.0	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #4H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 25' @ 3461.0usft
MD Reference: KB = 25' @ 3461.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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	0.33	89.62	5,300.0	0.0	7.4	0.0	0.00	0.00	0.00
5,400.0	0.33	89.62	5,400.0	0.1	7.9	0.0	0.00	0.00	0.00
5,500.0	0.33	89.62	5,500.0	0.1	8.5	0.1	0.00	0.00	0.00
5,600.0	0.33	89.62	5,600.0	0.1	9.1	0.1	0.00	0.00	0.00
5,700.0	0.33	89.62	5,700.0	0.1	9.6	0.1	0.00	0.00	0.00
5,800.0	0.33	89.62	5,800.0	0.1	10.2	0.1	0.00	0.00	0.00
5,900.0	0.33	89.62	5,900.0	0.1	10.8	0.1	0.00	0.00	0.00
6,000.0	0.33	89.62	6,000.0	0.1	11.4	0.1	0.00	0.00	0.00
6,100.0	0.33	89.62	6,100.0	0.1	11.9	0.1	0.00	0.00	0.00
6,200.0	0.33	89.62	6,200.0	0.1	12.5	0.1	0.00	0.00	0.00
6,300.0	0.33	89.62	6,300.0	0.1	13.1	0.1	0.00	0.00	0.00
6,400.0	0.33	89.62	6,400.0	0.1	13.6	0.1	0.00	0.00	0.00
6,500.0	0.33	89.62	6,500.0	0.1	14.2	0.1	0.00	0.00	0.00
6,600.0	0.33	89.62	6,600.0	0.1	14.8	0.1	0.00	0.00	0.00
6,700.0	0.33	89.62	6,700.0	0.1	15.4	0.1	0.00	0.00	0.00
6,800.0	0.33	89.62	6,800.0	0.1	15.9	0.1	0.00	0.00	0.00
6,900.0	0.33	89.62	6,900.0	0.1	16.5	0.1	0.00	0.00	0.00
7,000.0	0.33	89.62	7,000.0	0.1	17.1	0.1	0.00	0.00	0.00
7,100.0	0.33	89.62	7,099.9	0.1	17.7	0.1	0.00	0.00	0.00
7,200.0	0.33	89.62	7,199.9	0.1	18.2	0.1	0.00	0.00	0.00
7,300.0	0.33	89.62	7,299.9	0.1	18.8	0.1	0.00	0.00	0.00
7,400.0	0.33	89.62	7,399.9	0.1	19.4	0.1	0.00	0.00	0.00
7,500.0	0.33	89.62	7,499.9	0.1	19.9	0.1	0.00	0.00	0.00
7,600.0	0.33	89.62	7,599.9	0.1	20.5	0.1	0.00	0.00	0.00
7,700.0	0.33	89.62	7,699.9	0.1	21.1	0.1	0.00	0.00	0.00
7,800.0	0.33	89.62	7,799.9	0.1	21.7	0.1	0.00	0.00	0.00
7,900.0	0.33	89.62	7,899.9	0.1	22.2	0.1	0.00	0.00	0.00
8,000.0	0.33	89.62	7,999.9	0.1	22.8	0.1	0.00	0.00	0.00
8,100.0	0.33	89.62	8,099.9	0.2	23.4	0.1	0.00	0.00	0.00
8,200.0	0.33	89.62	8,199.9	0.2	24.0	0.1	0.00	0.00	0.00
8,300.0	0.33	89.62	8,299.9	0.2	24.5	0.1	0.00	0.00	0.00
8,400.0	0.33	89.62	8,399.9	0.2	25.1	0.2	0.00	0.00	0.00
8,500.0	0.33	89.62	8,499.9	0.2	25.7	0.2	0.00	0.00	0.00
8,600.0	0.33	89.62	8,599.9	0.2	26.2	0.2	0.00	0.00	0.00
8,700.0	0.33	89.62	8,699.9	0.2	26.8	0.2	0.00	0.00	0.00
8,800.0	0.33	89.62	8,799.9	0.2	27.4	0.2	0.00	0.00	0.00
8,900.0	0.33	89.62	8,899.9	0.2	28.0	0.2	0.00	0.00	0.00
9,000.0	0.33	89.62	8,999.9	0.2	28.5	0.2	0.00	0.00	0.00
9,100.0	0.33	89.62	9,099.9	0.2	29.1	0.2	0.00	0.00	0.00
9,200.0	0.33	89.62	9,199.9	0.2	29.7	0.2	0.00	0.00	0.00
9,300.0	0.33	89.62	9,299.9	0.2	30.3	0.2	0.00	0.00	0.00
9,400.0	0.33	89.62	9,399.9	0.2	30.8	0.2	0.00	0.00	0.00
9,500.0	0.33	89.62	9,499.9	0.2	31.4	0.2	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
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 Site: Audacious BTL 19 Fed Com
 Well: #4H
 Wellbore: OH
 Design: Plan #0.1

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 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
9,600.0	0.33	89.62	9,599.9	0.2	32.0	0.2	0.00	0.00	0.00
9,700.0	0.33	89.62	9,699.9	0.2	32.5	0.2	0.00	0.00	0.00
9,800.0	0.33	89.62	9,799.9	0.2	33.1	0.2	0.00	0.00	0.00
9,900.0	0.33	89.62	9,899.9	0.2	33.7	0.2	0.00	0.00	0.00
10,000.0	0.33	89.62	9,999.9	0.2	34.3	0.2	0.00	0.00	0.00
10,100.0	0.33	89.62	10,099.9	0.2	34.8	0.2	0.00	0.00	0.00
10,200.0	0.33	89.62	10,199.9	0.2	35.4	0.2	0.00	0.00	0.00
10,300.0	0.33	89.62	10,299.9	0.2	36.0	0.2	0.00	0.00	0.00
10,400.0	0.33	89.62	10,399.9	0.2	36.6	0.2	0.00	0.00	0.00
10,500.0	0.33	89.62	10,499.9	0.2	37.1	0.2	0.00	0.00	0.00
10,600.0	0.33	89.62	10,599.9	0.2	37.7	0.2	0.00	0.00	0.00
10,700.0	0.33	89.62	10,699.9	0.3	38.3	0.2	0.00	0.00	0.00
10,800.0	0.33	89.62	10,799.9	0.3	38.8	0.2	0.00	0.00	0.00
10,900.0	0.33	89.62	10,899.9	0.3	39.4	0.2	0.00	0.00	0.00
11,000.0	0.33	89.62	10,999.9	0.3	40.0	0.2	0.00	0.00	0.00
11,100.0	0.33	89.62	11,099.9	0.3	40.6	0.2	0.00	0.00	0.00
11,200.0	0.33	89.62	11,199.9	0.3	41.1	0.2	0.00	0.00	0.00
11,300.0	0.33	89.62	11,299.9	0.3	41.7	0.3	0.00	0.00	0.00
11,400.0	0.33	89.62	11,399.9	0.3	42.3	0.3	0.00	0.00	0.00
11,500.0	0.33	89.62	11,499.9	0.3	42.9	0.3	0.00	0.00	0.00
11,600.0	0.33	89.62	11,599.9	0.3	43.4	0.3	0.00	0.00	0.00
11,700.0	0.33	89.62	11,699.9	0.3	44.0	0.3	0.00	0.00	0.00
11,800.0	0.33	89.62	11,799.9	0.3	44.6	0.3	0.00	0.00	0.00
11,900.0	0.33	89.62	11,899.9	0.3	45.1	0.3	0.00	0.00	0.00
11,922.7	0.33	89.62	11,922.5	0.3	45.3	0.3	0.00	0.00	0.00
11,925.0	0.43	130.04	11,924.9	0.3	45.3	0.3	12.00	4.41	1,736.27
11,950.0	3.30	173.93	11,949.9	-0.5	45.4	1.1	12.00	11.46	175.55
11,975.0	6.29	176.66	11,974.8	-2.6	45.6	3.1	12.00	11.97	10.91
12,000.0	9.29	177.63	11,999.5	-5.9	45.8	6.5	12.00	11.99	3.89
12,025.0	12.28	178.13	12,024.1	-10.6	45.9	11.2	12.00	11.99	2.00
12,050.0	15.28	178.44	12,048.4	-16.6	46.1	17.2	12.00	12.00	1.22
12,075.0	18.28	178.65	12,072.3	-23.8	46.3	24.4	12.00	12.00	0.83
12,100.0	21.28	178.80	12,095.8	-32.2	46.5	32.8	12.00	12.00	0.60
12,125.0	24.28	178.91	12,118.9	-41.9	46.7	42.5	12.00	12.00	0.46
12,150.0	27.28	179.00	12,141.4	-52.8	46.9	53.4	12.00	12.00	0.36
12,175.0	30.28	179.08	12,163.3	-64.8	47.1	65.4	12.00	12.00	0.30
12,200.0	33.28	179.14	12,184.5	-78.0	47.3	78.6	12.00	12.00	0.25
12,225.0	36.28	179.19	12,205.1	-92.3	47.5	92.8	12.00	12.00	0.21
12,250.0	39.28	179.24	12,224.8	-107.6	47.7	108.2	12.00	12.00	0.18
12,275.0	42.28	179.28	12,243.7	-123.9	47.9	124.5	12.00	12.00	0.16
12,300.0	45.28	179.32	12,261.8	-141.2	48.1	141.8	12.00	12.00	0.14
12,325.0	48.28	179.35	12,278.9	-159.4	48.3	160.0	12.00	12.00	0.13
12,350.0	51.28	179.38	12,295.1	-178.5	48.5	179.1	12.00	12.00	0.12



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Audacious BTL 19 Fed Com
 Well: #4H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
12,375.0	54.28	179.40	12,310.2	-198.4	48.7	199.0	12.00	12.00	0.11
12,400.0	57.28	179.43	12,324.2	-219.1	49.0	219.7	12.00	12.00	0.10
12,425.0	60.28	179.45	12,337.2	-240.4	49.2	241.0	12.00	12.00	0.09
12,450.0	63.28	179.47	12,349.0	-262.5	49.4	263.1	12.00	12.00	0.09
12,475.0	66.28	179.50	12,359.7	-285.1	49.6	285.7	12.00	12.00	0.08
12,484.6	67.44	179.50	12,363.5	-293.9	49.6	294.5	12.00	12.00	0.08
FTP (Audacious #4H)									
12,500.0	69.28	179.52	12,369.1	-308.2	49.8	308.8	12.00	12.00	0.08
12,525.0	72.28	179.54	12,377.3	-331.8	50.0	332.4	12.00	12.00	0.08
12,550.0	75.28	179.55	12,384.3	-355.8	50.2	356.4	12.00	12.00	0.07
12,575.0	78.28	179.57	12,390.0	-380.2	50.3	380.8	12.00	12.00	0.07
12,600.0	81.28	179.59	12,394.5	-404.8	50.5	405.4	12.00	12.00	0.07
12,625.0	84.28	179.61	12,397.6	-429.5	50.7	430.2	12.00	12.00	0.07
12,650.0	87.28	179.62	12,399.5	-454.5	50.9	455.1	12.00	12.00	0.07
12,672.7	90.00	179.64	12,400.0	-477.1	51.0	477.7	12.00	12.00	0.07
12,700.0	90.00	179.64	12,400.0	-504.5	51.2	505.1	0.00	0.00	0.00
12,800.0	90.00	179.64	12,400.0	-604.5	51.8	605.1	0.00	0.00	0.00
12,900.0	90.00	179.64	12,400.0	-704.5	52.4	705.1	0.00	0.00	0.00
13,000.0	90.00	179.64	12,400.0	-804.5	53.1	805.1	0.00	0.00	0.00
13,100.0	90.00	179.64	12,400.0	-904.5	53.7	905.1	0.00	0.00	0.00
13,200.0	90.00	179.64	12,400.0	-1,004.5	54.3	1,005.1	0.00	0.00	0.00
13,300.0	90.00	179.64	12,400.0	-1,104.5	54.9	1,105.1	0.00	0.00	0.00
13,400.0	90.00	179.64	12,400.0	-1,204.5	55.6	1,205.1	0.00	0.00	0.00
13,500.0	90.00	179.64	12,400.0	-1,304.5	56.2	1,305.1	0.00	0.00	0.00
13,600.0	90.00	179.64	12,400.0	-1,404.5	56.8	1,405.1	0.00	0.00	0.00
13,700.0	90.00	179.64	12,400.0	-1,504.4	57.5	1,505.1	0.00	0.00	0.00
13,800.0	90.00	179.64	12,400.0	-1,604.4	58.1	1,605.0	0.00	0.00	0.00
13,900.0	90.00	179.64	12,400.0	-1,704.4	58.7	1,705.0	0.00	0.00	0.00
14,000.0	90.00	179.64	12,400.0	-1,804.4	59.3	1,805.0	0.00	0.00	0.00
14,100.0	90.00	179.64	12,400.0	-1,904.4	60.0	1,905.0	0.00	0.00	0.00
14,200.0	90.00	179.64	12,400.0	-2,004.4	60.6	2,005.0	0.00	0.00	0.00
14,300.0	90.00	179.64	12,400.0	-2,104.4	61.2	2,105.0	0.00	0.00	0.00
14,400.0	90.00	179.64	12,400.0	-2,204.4	61.9	2,205.0	0.00	0.00	0.00
14,500.0	90.00	179.64	12,400.0	-2,304.4	62.5	2,305.0	0.00	0.00	0.00
14,600.0	90.00	179.64	12,400.0	-2,404.4	63.1	2,405.0	0.00	0.00	0.00
14,700.0	90.00	179.64	12,400.0	-2,504.4	63.7	2,505.0	0.00	0.00	0.00
14,800.0	90.00	179.64	12,400.0	-2,604.4	64.4	2,605.0	0.00	0.00	0.00
14,900.0	90.00	179.64	12,400.0	-2,704.4	65.0	2,705.0	0.00	0.00	0.00
15,000.0	90.00	179.64	12,400.0	-2,804.4	65.6	2,805.0	0.00	0.00	0.00
15,100.0	90.00	179.64	12,400.0	-2,904.4	66.3	2,905.0	0.00	0.00	0.00
15,200.0	90.00	179.64	12,400.0	-3,004.4	66.9	3,005.0	0.00	0.00	0.00
15,300.0	90.00	179.64	12,400.0	-3,104.4	67.5	3,105.0	0.00	0.00	0.00
15,400.0	90.00	179.64	12,400.0	-3,204.4	68.1	3,205.0	0.00	0.00	0.00
15,500.0	90.00	179.64	12,400.0	-3,304.4	68.8	3,305.0	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Audacious BTL 19 Fed Corn
 Well: #4H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
15,600.0	90.00	179.64	12,400.0	-3,404.4	69.4	3,405.0	0.00	0.00	0.00
15,700.0	90.00	179.64	12,400.0	-3,504.4	70.0	3,505.0	0.00	0.00	0.00
15,800.0	90.00	179.64	12,400.0	-3,604.4	70.7	3,605.0	0.00	0.00	0.00
15,900.0	90.00	179.64	12,400.0	-3,704.4	71.3	3,705.0	0.00	0.00	0.00
16,000.0	90.00	179.64	12,400.0	-3,804.4	71.9	3,805.0	0.00	0.00	0.00
16,100.0	90.00	179.64	12,400.0	-3,904.4	72.5	3,905.0	0.00	0.00	0.00
16,200.0	90.00	179.64	12,400.0	-4,004.4	73.2	4,005.0	0.00	0.00	0.00
16,300.0	90.00	179.64	12,400.0	-4,104.4	73.8	4,105.0	0.00	0.00	0.00
16,400.0	90.00	179.64	12,400.0	-4,204.4	74.4	4,205.0	0.00	0.00	0.00
16,500.0	90.00	179.64	12,400.0	-4,304.4	75.1	4,305.0	0.00	0.00	0.00
16,600.0	90.00	179.64	12,400.0	-4,404.4	75.7	4,405.0	0.00	0.00	0.00
16,700.0	90.00	179.64	12,400.0	-4,504.4	76.3	4,505.0	0.00	0.00	0.00
16,800.0	90.00	179.64	12,400.0	-4,604.4	76.9	4,605.0	0.00	0.00	0.00
16,900.0	90.00	179.64	12,400.0	-4,704.4	77.6	4,705.0	0.00	0.00	0.00
17,000.0	90.00	179.64	12,400.0	-4,804.4	78.2	4,805.0	0.00	0.00	0.00
17,100.0	90.00	179.64	12,400.0	-4,904.4	78.8	4,905.0	0.00	0.00	0.00
17,200.0	90.00	179.64	12,400.0	-5,004.4	79.5	5,005.0	0.00	0.00	0.00
17,300.0	90.00	179.64	12,400.0	-5,104.4	80.1	5,105.0	0.00	0.00	0.00
17,400.0	90.00	179.64	12,400.0	-5,204.4	80.7	5,205.0	0.00	0.00	0.00
17,500.0	90.00	179.64	12,400.0	-5,304.4	81.3	5,305.0	0.00	0.00	0.00
17,600.0	90.00	179.64	12,400.0	-5,404.4	82.0	5,405.0	0.00	0.00	0.00
17,700.0	90.00	179.64	12,400.0	-5,504.4	82.6	5,505.0	0.00	0.00	0.00
17,800.0	90.00	179.64	12,400.0	-5,604.4	83.2	5,605.0	0.00	0.00	0.00
17,900.0	90.00	179.64	12,400.0	-5,704.4	83.9	5,705.0	0.00	0.00	0.00
18,000.0	90.00	179.64	12,400.0	-5,804.4	84.5	5,805.0	0.00	0.00	0.00
18,100.0	90.00	179.64	12,400.0	-5,904.4	85.1	5,905.0	0.00	0.00	0.00
18,200.0	90.00	179.64	12,400.0	-6,004.4	85.7	6,005.0	0.00	0.00	0.00
18,300.0	90.00	179.64	12,400.0	-6,104.4	86.4	6,105.0	0.00	0.00	0.00
18,400.0	90.00	179.64	12,400.0	-6,204.4	87.0	6,205.0	0.00	0.00	0.00
18,500.0	90.00	179.64	12,400.0	-6,304.4	87.6	6,305.0	0.00	0.00	0.00
18,600.0	90.00	179.64	12,400.0	-6,404.4	88.2	6,405.0	0.00	0.00	0.00
18,700.0	90.00	179.64	12,400.0	-6,504.3	88.9	6,505.0	0.00	0.00	0.00
18,800.0	90.00	179.64	12,400.0	-6,604.3	89.5	6,605.0	0.00	0.00	0.00
18,900.0	90.00	179.64	12,400.0	-6,704.3	90.1	6,704.9	0.00	0.00	0.00
19,000.0	90.00	179.64	12,400.0	-6,804.3	90.8	6,804.9	0.00	0.00	0.00
19,100.0	90.00	179.64	12,400.0	-6,904.3	91.4	6,904.9	0.00	0.00	0.00
19,200.0	90.00	179.64	12,400.0	-7,004.3	92.0	7,004.9	0.00	0.00	0.00
19,300.0	90.00	179.64	12,400.0	-7,104.3	92.6	7,104.9	0.00	0.00	0.00
19,400.0	90.00	179.64	12,400.0	-7,204.3	93.3	7,204.9	0.00	0.00	0.00
19,500.0	90.00	179.64	12,400.0	-7,304.3	93.9	7,304.9	0.00	0.00	0.00
19,600.0	90.00	179.64	12,400.0	-7,404.3	94.5	7,404.9	0.00	0.00	0.00
19,700.0	90.00	179.64	12,400.0	-7,504.3	95.2	7,504.9	0.00	0.00	0.00
19,800.0	90.00	179.64	12,400.0	-7,604.3	95.8	7,604.9	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Audacious BTL 19 Fed Com
Well: #4H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #4H
TVD Reference: KB = 25' @ 3461.0usft
MD Reference: KB = 25' @ 3461.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
19,833.7	90.00	179.64	12,400.0	-7,638.0	96.0	7,638.6	0.00	0.00	0.00

PBHL (Audacious #4H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Audacious #4H)	0.00	0.00	12,400.0	-279.0	50.0	406,342.00	725,407.00	32° 6' 54.207 N	103° 36' 19.078 W
- hit/miss target									
- Shape									
- plan misses target center by 39.5usft at 12484.6usft MD (12363.5 TVD, -293.9 N, 49.6 E)									
- Point									
PBHL (Audacious #4H)	0.00	0.00	12,400.0	-7,638.0	96.0	398,983.00	725,453.00	32° 5' 41.381 N	103° 36' 19.121 W
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____