

Permit Information:

Well Name: Andele 16 State Com No. 702H

30-025-42755

Location:

SL: 250' FSL & 330' FWL, Section 16, T-25-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 330' FWL, Section 16, T-25-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
14.75"	0 - 910'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0-10,500'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
6.75"	0'-17,394'	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
910'	350	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)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
10,500' DV Tool w/ ECP @ 5,100'	315	10.8	3.68	Stage 1 Lead: Class C + 15.00 lbs/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sx Static Free
	250	15.6	1.19	Stage 1 Tail: Class H + 1.0% FL-52 + 0.6% CD-32 + 0.5% SMS + 1.0% Salt + 0.3% R-3
	550	12.7	2.22	Stage 2 Lead: Class 'C' + 2.0% SMS + 10.0% Slat + 0.55% R-21 + 0.25 pps Celloflake + 0.005 pps Static Free (TOC @ Surface)
	200	14.8	1.35	Stage 2 Tail: Class 'C' + 0.60% FL-62 + 0.7% CD-32 + 0.3% SMS + 2.0% Salt + 0.10% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L
17,394'	625	14.2	1.35	50:50:2 Class H + 0.65% FL-52 + 0.70% CD-32 + 1.0% EC-1 + 0.40% SMS + 2.0% Salt + 0.05% R-3 + 0.005 pps Static Free + 0.005 gps FP-6L (TOC @ 10,000')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 910'	Fresh - Gel	8.6-8.8	28-34	N/c
910' - 10,500'	Oil Base	8.7-9.4	58-68	N/c - 6
10,500' - 12,064'	Oil Base	8.7-9.4	58-68	N/c - 6
12,064' - 17,394' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

AUG 28 2015

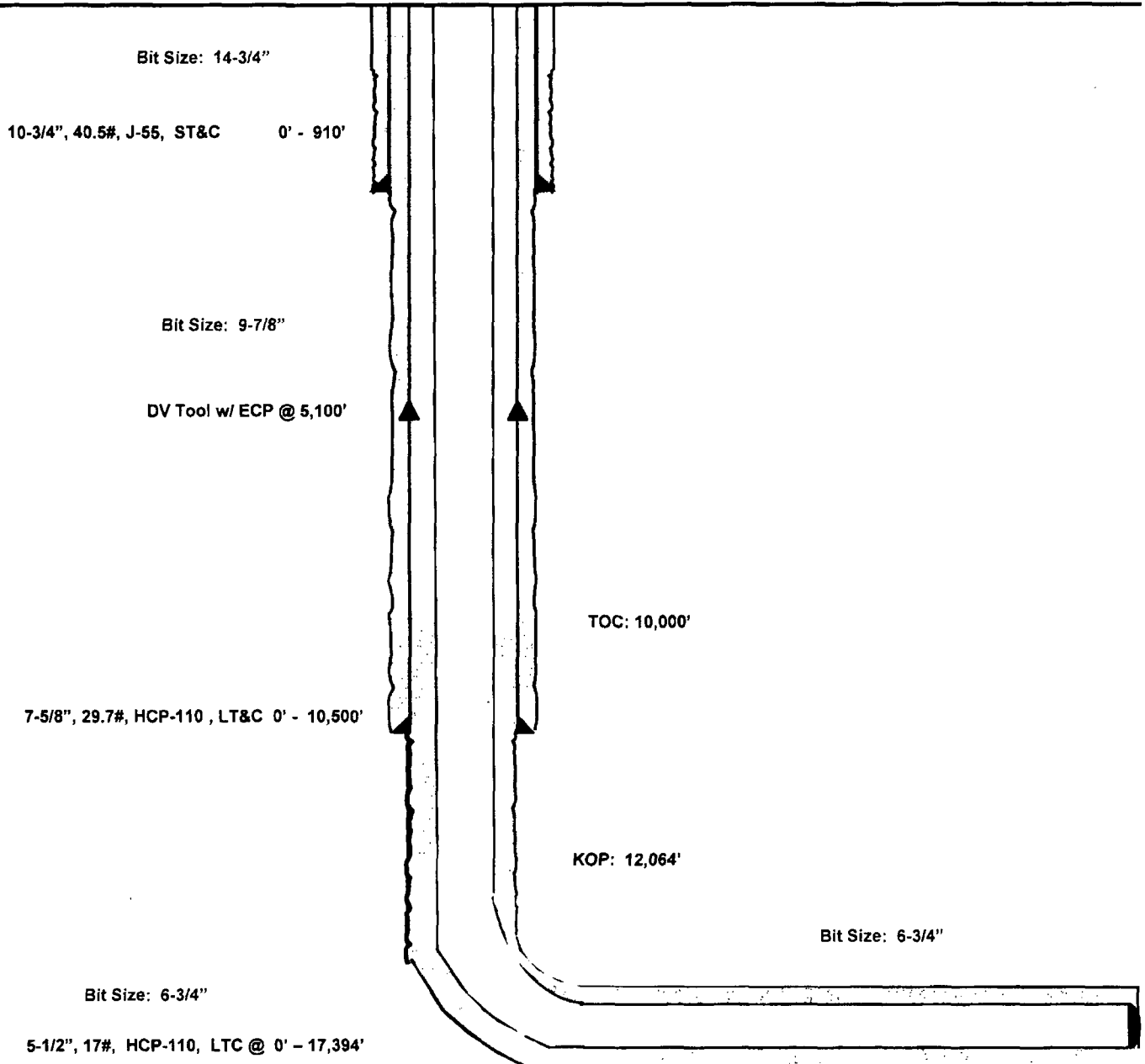
Andele 16 State Com #702H

**Lea County, New Mexico
Proposed Wellbore**

**250' FSL
330' FWL
Section 16
T-25-S, R-34-E**

API: 30-025-*****

**KB: 3,379'
GL: 3,354'**



Lateral: 17,394' MD, 12,650' TVD

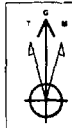
**BH Location: 230' FNL & 330' FWL
Section 16
T-25-S, R-34-E**



Lea County, NM (NAD 27 NME)
 Ande 16 State Com #702H
 H&P 415
 Plan #1

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: -0.45°
 Magnetic North: 8.53°
 Magnetic Field
 Strength: 45062.7 nT
 Dip Angle: 60.01°
 Date: 10/7/2015
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction Add 8.54°
 To convert a Magnetic Direction to a True Direction Add 7.09° East
 To convert a True Direction to a Grid Direction Subtract 0.45°

WELL DETAILS #702H

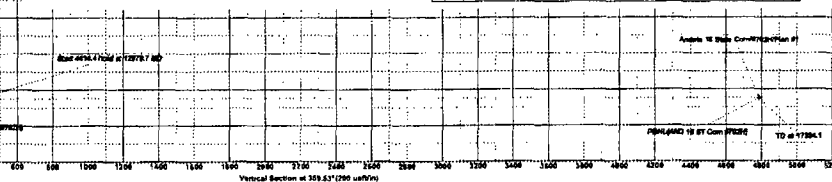
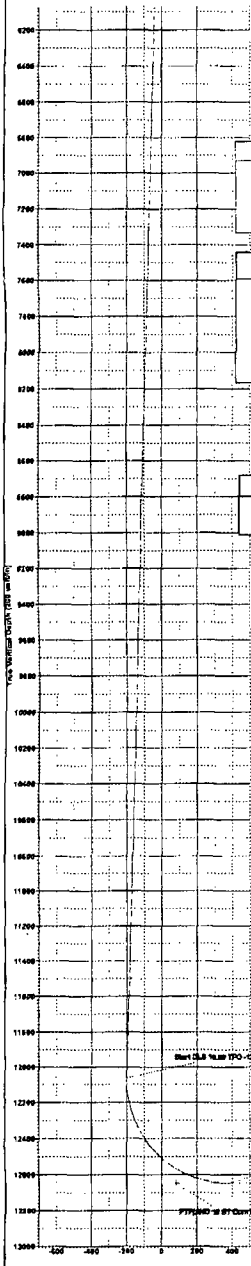
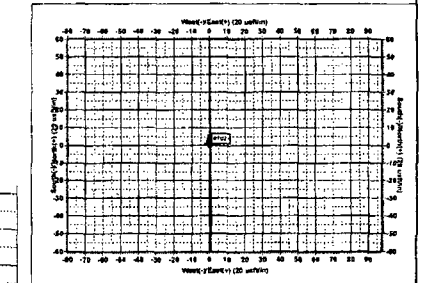
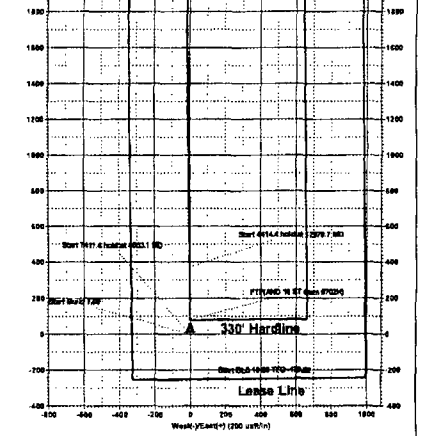
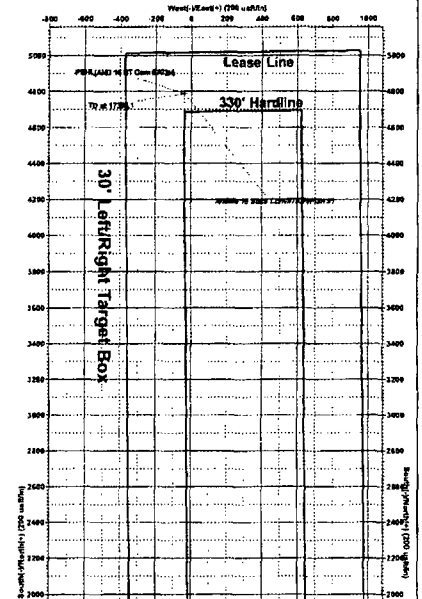
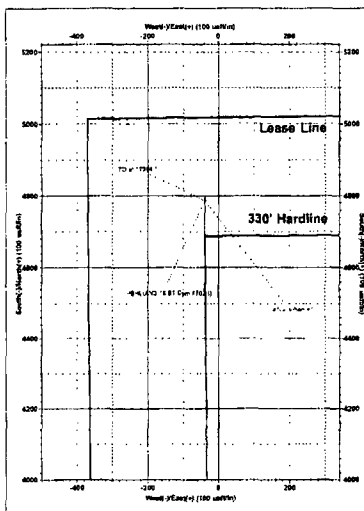
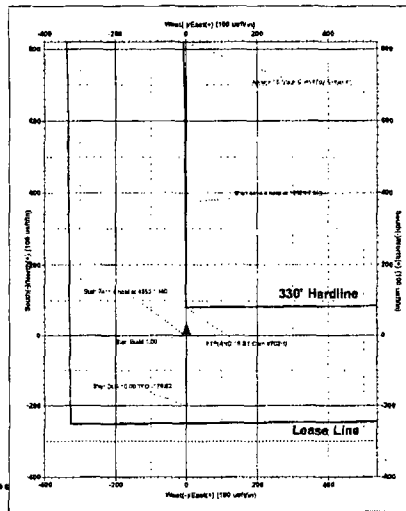
Ground Level: 3354.0
 KB: 25 @ 3379.0 m (H&P 415)
 +N-S +E-W Northing Easting Longitude Slat
 0.0 0.0 409816.00 763586.00 32° 7' 25.816 N 103° 28' 54.871 W

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	4653.1	1.53	179.35	4653.0	-2.0	0.0	1.00	179.35	-2.0	
4	12064.4	1.53	179.35	12061.7	-200.0	2.3	0.00	0.00	-200.0	
5	12979.7	90.00	359.53	12650.0	372.8	-2.4	10.00	-179.82	372.8	
6	17394.1	90.00	359.53	12650.0	4787.0	-39.0	0.00	0.00	4787.2	PBHL(AND 16 ST Com #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name TVD +N-S +E-W Northing Easting Shape
 FTPL(AND 16 ST Com #702H) 12650.0 80.0 0.0 409816.00 763586.00 Point
 PBHL(AND 16 ST Com #702H) 12650.0 4787.0 -39.0 414803.00 763567.00 Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Andele 16 State Com

#702H

OH

Plan: Plan #1

Standard Planning Report

26 August, 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: Andele 16 State Com
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3379.0usft (H&P 415)
MD Reference: KB = 25 @ 3379.0usft (H&P 415)
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	Andele 16 State Com			
Site Position:		Northing:	409,816.00 usft	Latitude: 32° 7' 25.816 N
From: Map		Easting:	763,586.00 usft	Longitude: 103° 28' 54.871 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.45 °

Well	#702H			
Well Position	+N/-S	0.0 usft	Northing: 409,816.00 usft	Latitude: 32° 7' 25.816 N
	+E/-W	0.0 usft	Easting: 763,586.00 usft	Longitude: 103° 28' 54.871 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,354.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/7/2015	7.09	60.01	48,063

Design	Plan #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	359.53

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	
4,653.1	1.53	179.35	4,653.0	-2.0	0.0	1.00	1.00	0.00	179.35	
12,064.4	1.53	179.35	12,061.7	-200.0	2.3	0.00	0.00	0.00	0.00	
12,979.7	90.00	359.53	12,650.0	372.8	-2.4	10.00	9.67	-19.65	-179.82	
17,394.1	90.00	359.53	12,650.0	4,787.0	-39.0	0.00	0.00	0.00	0.00	PBHL(AND 16 ST Co



EOG Resources, Inc.

Planning Report

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MD Reference: KB = 25 @ 3379.0usft (H&P 415)
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	179.35	4,600.0	-0.9	0.0	-0.9	1.00	1.00	0.00
4,653.1	1.53	179.35	4,653.0	-2.0	0.0	-2.0	1.00	1.00	0.00
4,700.0	1.53	179.35	4,700.0	-3.3	0.0	-3.3	0.00	0.00	0.00
4,800.0	1.53	179.35	4,799.9	-6.0	0.1	-6.0	0.00	0.00	0.00
4,900.0	1.53	179.35	4,899.9	-8.6	0.1	-8.6	0.00	0.00	0.00
5,000.0	1.53	179.35	4,999.9	-11.3	0.1	-11.3	0.00	0.00	0.00
5,100.0	1.53	179.35	5,099.8	-14.0	0.2	-14.0	0.00	0.00	0.00
5,200.0	1.53	179.35	5,199.8	-16.7	0.2	-16.7	0.00	0.00	0.00



EOG Resources, Inc.

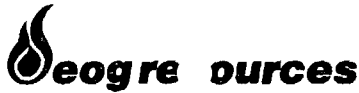
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Planned Survey

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	1.53	179.35	5,299.8	-19.3	0.2	-19.3	0.00	0.00	0.00
5,400.0	1.53	179.35	5,399.7	-22.0	0.2	-22.0	0.00	0.00	0.00
5,500.0	1.53	179.35	5,499.7	-24.7	0.3	-24.7	0.00	0.00	0.00
5,600.0	1.53	179.35	5,599.6	-27.3	0.3	-27.3	0.00	0.00	0.00
5,700.0	1.53	179.35	5,699.6	-30.0	0.3	-30.0	0.00	0.00	0.00
5,800.0	1.53	179.35	5,799.6	-32.7	0.4	-32.7	0.00	0.00	0.00
5,900.0	1.53	179.35	5,899.5	-35.3	0.4	-35.3	0.00	0.00	0.00
6,000.0	1.53	179.35	5,999.5	-38.0	0.4	-38.0	0.00	0.00	0.00
6,100.0	1.53	179.35	6,099.5	-40.7	0.5	-40.7	0.00	0.00	0.00
6,200.0	1.53	179.35	6,199.4	-43.4	0.5	-43.4	0.00	0.00	0.00
6,300.0	1.53	179.35	6,299.4	-46.0	0.5	-46.0	0.00	0.00	0.00
6,400.0	1.53	179.35	6,399.4	-48.7	0.6	-48.7	0.00	0.00	0.00
6,500.0	1.53	179.35	6,499.3	-51.4	0.6	-51.4	0.00	0.00	0.00
6,600.0	1.53	179.35	6,599.3	-54.0	0.6	-54.0	0.00	0.00	0.00
6,700.0	1.53	179.35	6,699.3	-56.7	0.6	-56.7	0.00	0.00	0.00
6,800.0	1.53	179.35	6,799.2	-59.4	0.7	-59.4	0.00	0.00	0.00
6,900.0	1.53	179.35	6,899.2	-62.1	0.7	-62.1	0.00	0.00	0.00
7,000.0	1.53	179.35	6,999.1	-64.7	0.7	-64.7	0.00	0.00	0.00
7,100.0	1.53	179.35	7,099.1	-67.4	0.8	-67.4	0.00	0.00	0.00
7,200.0	1.53	179.35	7,199.1	-70.1	0.8	-70.1	0.00	0.00	0.00
7,300.0	1.53	179.35	7,299.0	-72.7	0.8	-72.7	0.00	0.00	0.00
7,400.0	1.53	179.35	7,399.0	-75.4	0.9	-75.4	0.00	0.00	0.00
7,500.0	1.53	179.35	7,499.0	-78.1	0.9	-78.1	0.00	0.00	0.00
7,600.0	1.53	179.35	7,598.9	-80.7	0.9	-80.8	0.00	0.00	0.00
7,700.0	1.53	179.35	7,698.9	-83.4	0.9	-83.4	0.00	0.00	0.00
7,800.0	1.53	179.35	7,798.9	-86.1	1.0	-86.1	0.00	0.00	0.00
7,900.0	1.53	179.35	7,898.8	-88.8	1.0	-88.8	0.00	0.00	0.00
8,000.0	1.53	179.35	7,998.8	-91.4	1.0	-91.4	0.00	0.00	0.00
8,100.0	1.53	179.35	8,098.8	-94.1	1.1	-94.1	0.00	0.00	0.00
8,200.0	1.53	179.35	8,198.7	-96.8	1.1	-96.8	0.00	0.00	0.00
8,300.0	1.53	179.35	8,298.7	-99.4	1.1	-99.5	0.00	0.00	0.00
8,400.0	1.53	179.35	8,398.6	-102.1	1.2	-102.1	0.00	0.00	0.00
8,500.0	1.53	179.35	8,498.6	-104.8	1.2	-104.8	0.00	0.00	0.00
8,600.0	1.53	179.35	8,598.6	-107.5	1.2	-107.5	0.00	0.00	0.00
8,700.0	1.53	179.35	8,698.5	-110.1	1.3	-110.1	0.00	0.00	0.00
8,800.0	1.53	179.35	8,798.5	-112.8	1.3	-112.8	0.00	0.00	0.00
8,900.0	1.53	179.35	8,898.5	-115.5	1.3	-115.5	0.00	0.00	0.00
9,000.0	1.53	179.35	8,998.4	-118.1	1.3	-118.1	0.00	0.00	0.00
9,100.0	1.53	179.35	9,098.4	-120.8	1.4	-120.8	0.00	0.00	0.00
9,200.0	1.53	179.35	9,198.4	-123.5	1.4	-123.5	0.00	0.00	0.00
9,300.0	1.53	179.35	9,298.3	-126.2	1.4	-126.2	0.00	0.00	0.00
9,400.0	1.53	179.35	9,398.3	-128.8	1.5	-128.8	0.00	0.00	0.00
9,500.0	1.53	179.35	9,498.3	-131.5	1.5	-131.5	0.00	0.00	0.00
9,600.0	1.53	179.35	9,598.2	-134.2	1.5	-134.2	0.00	0.00	0.00
9,700.0	1.53	179.35	9,698.2	-136.8	1.6	-136.8	0.00	0.00	0.00
9,800.0	1.53	179.35	9,798.1	-139.5	1.6	-139.5	0.00	0.00	0.00
9,900.0	1.53	179.35	9,898.1	-142.2	1.6	-142.2	0.00	0.00	0.00
10,000.0	1.53	179.35	9,998.1	-144.8	1.6	-144.9	0.00	0.00	0.00
10,100.0	1.53	179.35	10,098.0	-147.5	1.7	-147.5	0.00	0.00	0.00
10,200.0	1.53	179.35	10,198.0	-150.2	1.7	-150.2	0.00	0.00	0.00
10,300.0	1.53	179.35	10,298.0	-152.9	1.7	-152.9	0.00	0.00	0.00
10,400.0	1.53	179.35	10,397.9	-155.5	1.8	-155.5	0.00	0.00	0.00
10,500.0	1.53	179.35	10,497.9	-158.2	1.8	-158.2	0.00	0.00	0.00
10,600.0	1.53	179.35	10,597.9	-160.9	1.8	-160.9	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: Andele 16 State Com
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3379.0usft (H&P 415)
MD Reference: KB = 25 @ 3379.0usft (H&P 415)
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	1.53	179.35	10,697.8	-163.5	1.9	-163.6	0.00	0.00	0.00
10,800.0	1.53	179.35	10,797.8	-166.2	1.9	-166.2	0.00	0.00	0.00
10,900.0	1.53	179.35	10,897.8	-168.9	1.9	-168.9	0.00	0.00	0.00
11,000.0	1.53	179.35	10,997.7	-171.6	1.9	-171.6	0.00	0.00	0.00
11,100.0	1.53	179.35	11,097.7	-174.2	2.0	-174.2	0.00	0.00	0.00
11,200.0	1.53	179.35	11,197.6	-176.9	2.0	-176.9	0.00	0.00	0.00
11,300.0	1.53	179.35	11,297.6	-179.6	2.0	-179.6	0.00	0.00	0.00
11,400.0	1.53	179.35	11,397.6	-182.2	2.1	-182.2	0.00	0.00	0.00
11,500.0	1.53	179.35	11,497.5	-184.9	2.1	-184.9	0.00	0.00	0.00
11,600.0	1.53	179.35	11,597.5	-187.6	2.1	-187.6	0.00	0.00	0.00
11,700.0	1.53	179.35	11,697.5	-190.3	2.2	-190.3	0.00	0.00	0.00
11,800.0	1.53	179.35	11,797.4	-192.9	2.2	-192.9	0.00	0.00	0.00
11,900.0	1.53	179.35	11,897.4	-195.6	2.2	-195.6	0.00	0.00	0.00
12,000.0	1.53	179.35	11,997.4	-198.3	2.3	-198.3	0.00	0.00	0.00
12,064.4	1.53	179.35	12,061.7	-200.0	2.3	-200.0	0.00	0.00	0.00
12,100.0	2.03	359.66	12,097.3	-199.8	2.3	-199.8	10.00	1.40	-504.77
12,150.0	7.03	359.56	12,147.2	-195.9	2.2	-195.9	10.00	10.00	-0.19
12,200.0	12.03	359.55	12,196.5	-187.6	2.2	-187.6	10.00	10.00	-0.03
12,250.0	17.03	359.54	12,244.8	-175.1	2.1	-175.1	10.00	10.00	-0.01
12,300.0	22.03	359.54	12,291.9	-158.4	1.9	-158.4	10.00	10.00	-0.01
12,350.0	27.03	359.53	12,337.4	-137.6	1.8	-137.6	10.00	10.00	0.00
12,400.0	32.03	359.53	12,380.9	-113.0	1.6	-113.0	10.00	10.00	0.00
12,450.0	37.03	359.53	12,422.1	-84.6	1.3	-84.6	10.00	10.00	0.00
12,500.0	42.03	359.53	12,460.6	-52.8	1.1	-52.8	10.00	10.00	0.00
12,550.0	47.03	359.53	12,496.3	-17.8	0.8	-17.8	10.00	10.00	0.00
12,600.0	52.03	359.53	12,528.7	20.2	0.5	20.2	10.00	10.00	0.00
12,650.0	57.03	359.53	12,557.7	61.0	0.2	61.0	10.00	10.00	0.00
12,700.0	62.03	359.53	12,583.1	104.0	-0.2	104.0	10.00	10.00	0.00
12,707.1	62.74	359.53	12,586.4	110.3	-0.3	110.3	10.00	10.00	0.00
FTP(AND 16 ST Com #702H)									
12,750.0	67.03	359.53	12,604.6	149.2	-0.6	149.2	10.00	10.00	0.00
12,800.0	72.03	359.53	12,622.0	196.0	-1.0	196.0	10.00	10.00	0.00
12,850.0	77.03	359.53	12,635.4	244.2	-1.4	244.2	10.00	10.00	0.00
12,900.0	82.03	359.53	12,644.5	293.3	-1.8	293.3	10.00	10.00	0.00
12,950.0	87.03	359.53	12,649.2	343.1	-2.2	343.1	10.00	10.00	0.00
12,979.7	90.00	359.53	12,650.0	372.8	-2.4	372.8	10.00	10.00	0.00
13,000.0	90.00	359.53	12,650.0	393.0	-2.6	393.1	0.00	0.00	0.00
13,100.0	90.00	359.53	12,650.0	493.0	-3.4	493.1	0.00	0.00	0.00
13,200.0	90.00	359.53	12,650.0	593.0	-4.3	593.1	0.00	0.00	0.00
13,300.0	90.00	359.53	12,650.0	693.0	-5.1	693.1	0.00	0.00	0.00
13,400.0	90.00	359.53	12,650.0	793.0	-5.9	793.1	0.00	0.00	0.00
13,500.0	90.00	359.53	12,650.0	893.0	-6.7	893.1	0.00	0.00	0.00
13,600.0	90.00	359.53	12,650.0	993.0	-7.6	993.1	0.00	0.00	0.00
13,700.0	90.00	359.53	12,650.0	1,093.0	-8.4	1,093.1	0.00	0.00	0.00
13,800.0	90.00	359.53	12,650.0	1,193.0	-9.2	1,193.1	0.00	0.00	0.00
13,900.0	90.00	359.53	12,650.0	1,293.0	-10.1	1,293.1	0.00	0.00	0.00
14,000.0	90.00	359.53	12,650.0	1,393.0	-10.9	1,393.1	0.00	0.00	0.00
14,100.0	90.00	359.53	12,650.0	1,493.0	-11.7	1,493.1	0.00	0.00	0.00
14,200.0	90.00	359.53	12,650.0	1,593.0	-12.5	1,593.1	0.00	0.00	0.00
14,300.0	90.00	359.53	12,650.0	1,693.0	-13.4	1,693.1	0.00	0.00	0.00
14,400.0	90.00	359.53	12,650.0	1,793.0	-14.2	1,793.1	0.00	0.00	0.00
14,500.0	90.00	359.53	12,650.0	1,893.0	-15.0	1,893.1	0.00	0.00	0.00
14,600.0	90.00	359.53	12,650.0	1,993.0	-15.9	1,993.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Wellbore: OH
 Design: Plan #1

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 MD Reference: KB = 25 @ 3379.0usft (H&P 415)
 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	359.53	12,650.0	2,093.0	-16.7	2,093.1	0.00	0.00	0.00
14,800.0	90.00	359.53	12,650.0	2,193.0	-17.5	2,193.1	0.00	0.00	0.00
14,900.0	90.00	359.53	12,650.0	2,293.0	-18.3	2,293.1	0.00	0.00	0.00
15,000.0	90.00	359.53	12,650.0	2,393.0	-19.2	2,393.1	0.00	0.00	0.00
15,100.0	90.00	359.53	12,650.0	2,493.0	-20.0	2,493.1	0.00	0.00	0.00
15,200.0	90.00	359.53	12,650.0	2,593.0	-20.8	2,593.1	0.00	0.00	0.00
15,300.0	90.00	359.53	12,650.0	2,693.0	-21.6	2,693.1	0.00	0.00	0.00
15,400.0	90.00	359.53	12,650.0	2,793.0	-22.5	2,793.1	0.00	0.00	0.00
15,500.0	90.00	359.53	12,650.0	2,893.0	-23.3	2,893.1	0.00	0.00	0.00
15,600.0	90.00	359.53	12,650.0	2,993.0	-24.1	2,993.1	0.00	0.00	0.00
15,700.0	90.00	359.53	12,650.0	3,093.0	-25.0	3,093.1	0.00	0.00	0.00
15,800.0	90.00	359.53	12,650.0	3,192.9	-25.8	3,193.1	0.00	0.00	0.00
15,900.0	90.00	359.53	12,650.0	3,292.9	-26.6	3,293.1	0.00	0.00	0.00
16,000.0	90.00	359.53	12,650.0	3,392.9	-27.4	3,393.1	0.00	0.00	0.00
16,100.0	90.00	359.53	12,650.0	3,492.9	-28.3	3,493.1	0.00	0.00	0.00
16,200.0	90.00	359.53	12,650.0	3,592.9	-29.1	3,593.1	0.00	0.00	0.00
16,300.0	90.00	359.53	12,650.0	3,692.9	-29.9	3,693.1	0.00	0.00	0.00
16,400.0	90.00	359.53	12,650.0	3,792.9	-30.8	3,793.1	0.00	0.00	0.00
16,500.0	90.00	359.53	12,650.0	3,892.9	-31.6	3,893.1	0.00	0.00	0.00
16,600.0	90.00	359.53	12,650.0	3,992.9	-32.4	3,993.1	0.00	0.00	0.00
16,700.0	90.00	359.53	12,650.0	4,092.9	-33.2	4,093.1	0.00	0.00	0.00
16,800.0	90.00	359.53	12,650.0	4,192.9	-34.1	4,193.1	0.00	0.00	0.00
16,900.0	90.00	359.53	12,650.0	4,292.9	-34.9	4,293.1	0.00	0.00	0.00
17,000.0	90.00	359.53	12,650.0	4,392.9	-35.7	4,393.1	0.00	0.00	0.00
17,100.0	90.00	359.53	12,650.0	4,492.9	-36.6	4,493.1	0.00	0.00	0.00
17,200.0	90.00	359.53	12,650.0	4,592.9	-37.4	4,593.1	0.00	0.00	0.00
17,300.0	90.00	359.53	12,650.0	4,692.9	-38.2	4,693.1	0.00	0.00	0.00
17,394.1	90.00	359.53	12,650.0	4,787.0	-39.0	4,787.2	0.00	0.00	0.00

PBHL(AND 16 ST Com #702H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(AND 16 ST Com #702H)	0.00	0.00	12,650.0	80.0	0.0	409,896.00	763,586.00	32° 7' 26.607 N	103° 28' 54.864 W
- hit/miss target									
- Shape									
- plan misses target center by 70.5usft at 12707.1usft MD (12586.4 TVD, 110.3 N, -0.3 E)									
- Point									
PBHL(AND 16 ST Com #702H)	0.00	0.00	12,650.0	4,787.0	-39.0	414,603.00	763,547.00	32° 8' 13.188 N	103° 28' 54.885 W
- plan hits target center									
- Point									