

Permit Information:

Well Name: Andele 16 State Com No. 703H

Location:

SL: 300' FSL & 789' FWL, Section 16, T-25-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 994' 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 - 940'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
8.75"	0' - 11,500'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-17,411'	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
940'	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)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
11,500'	250	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂ (TOC @ Surface)
	2000	14.8	1.38	Class C + 5% Gypsum + 3% CaCl ₂
	550	14.4	1.20	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P
17,411'	800	14.2	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,000')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 940'	Fresh - Gel	8.6-8.8	28-34	N/c
940' - 11,500'	Brine	8.8-10.0	28-34	N/c
11,500' - 12,136'	Oil Base	10.0-11.5	58-68	3 - 6
12,136' - 17,411' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

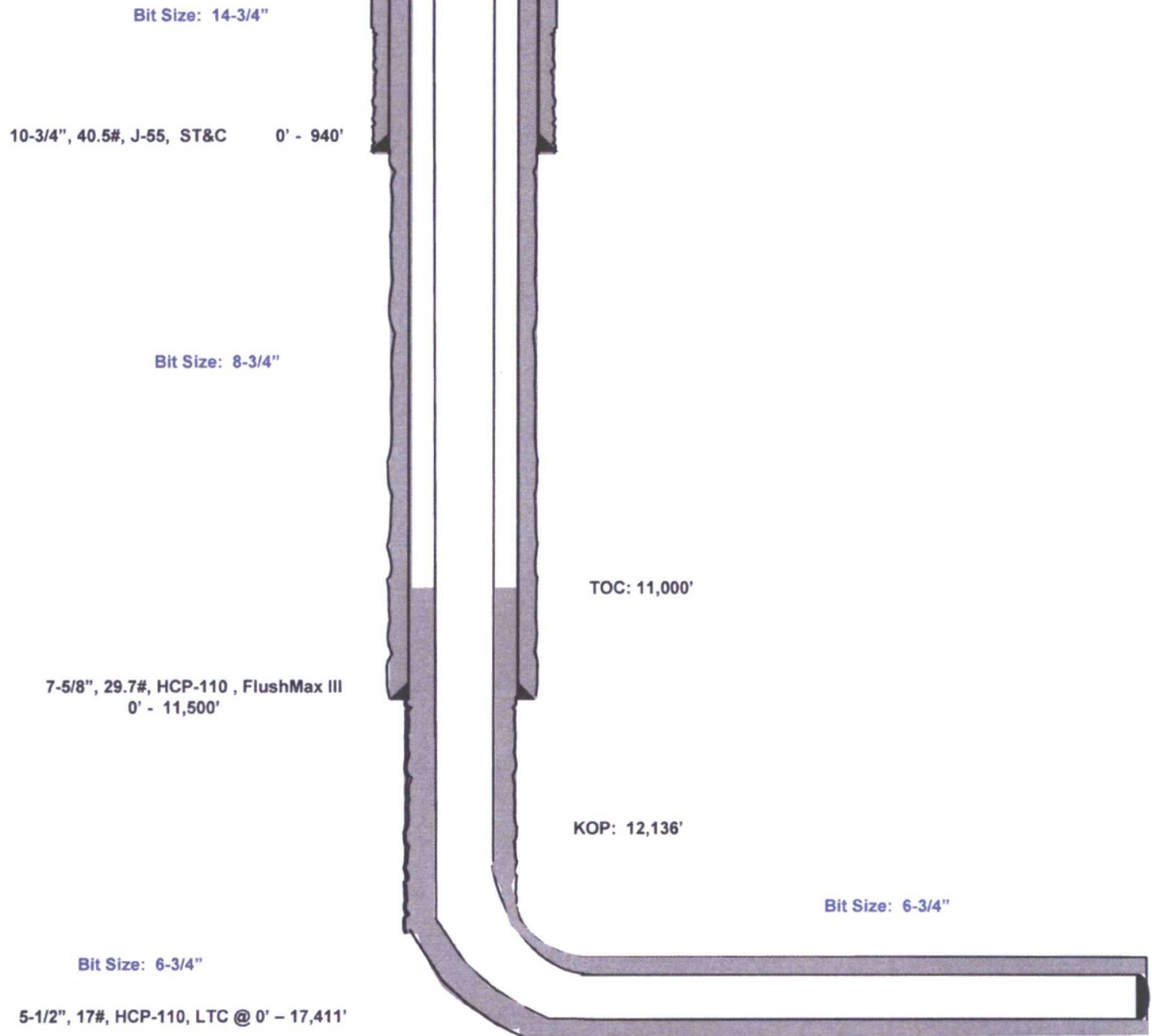
Andele 16 State Com #703H

Lea County, New Mexico
Proposed Wellbore

300' FSL
789' FWL
Section 16
T-25-S, R-34-E

API: 30-025-*****

KB: 3,378'
GL: 3,353'



Lateral: 17,411' MD, 12,623' TVD

BH Location: 230' FNL & 9949' FWL
Section 16
T-25-S, R-34-E



Lea County, NM (NAD 83 NME)

Andele 16 State Com

#703H

Plan #0.1

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



Azimuths to Grid North
True North: -0.48°
Magnetic North: 6.44°
Magnetic Field
Strength: 47878.4nT
Dip Angle: 59.98°
Date: 7/24/2017
Model: IGRF 2015

To convert a Magnetic Direction to a Grid Direction, Add 0.80° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

WELL DETAILS: #703H

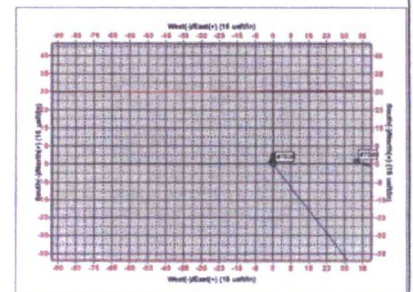
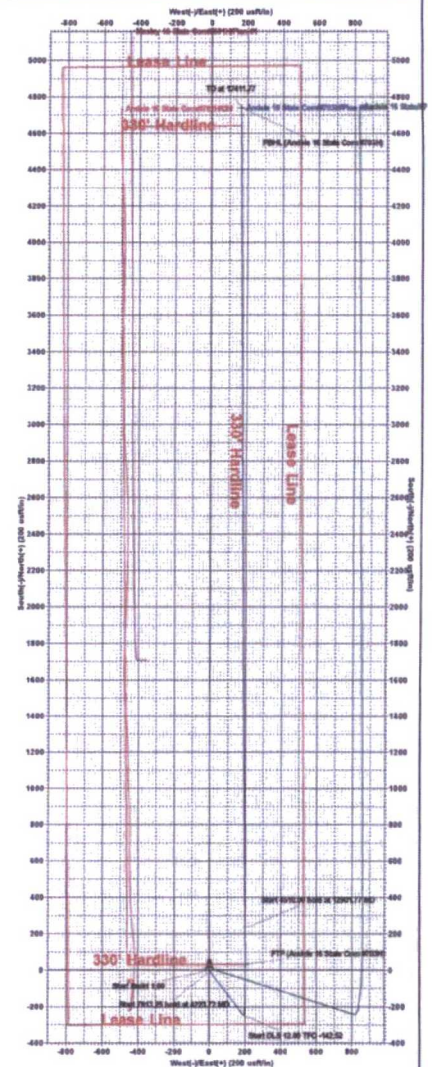
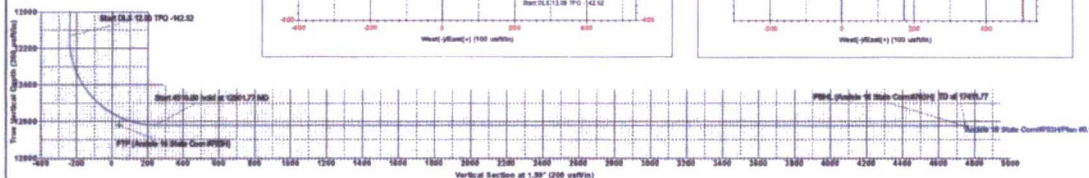
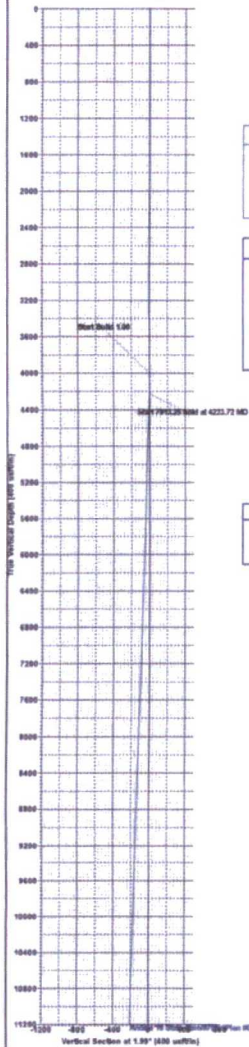
KB = 25' @ 3378.00ufl
Northing 40957.00
Easting 80632.00
Longitude -103.48289156
Spot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4223.72	2.24	142.09	4223.67	-3.45	2.68	1.00	142.09	-3.35	
4	12136.97	2.24	142.09	12130.88	-247.17	192.48	0.00	0.00	-240.33	
5	12901.77	90.00	359.55	12823.00	230.14	200.42	12.00	-142.52	236.97	
6	17411.77	90.00	359.55	12823.00	4740.00	165.00	0.00	0.00	4742.87	PBHL (Andele 16 State Com #703H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP (Andele 16 State Com #703H)	12823.00	22.00	202.00	40959.30	80634.00	Point
PBHL (Andele 16 State Com #703H)	12823.00	4740.00	165.00	414867.00	806397.00	Point



Scale: 1 inch = 100 feet
North Arrow



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Andele 16 State Com

#703H

OH

Plan: Plan #0.1

Standard Planning Report

24 July, 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: Andele 16 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3378.00usft
MD Reference: KB = 25' @ 3378.00usft
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	Andele 16 State Com		
Site Position:		Northing:	409,927.00 usft
From:	Map	Easting:	805,232.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.12409855
		Longitude:	-103.48089158
		Grid Convergence:	0.45 °

Well	#703H		
Well Position	+N/-S	0.00 usft	Northing: 409,927.00 usft
	+E/-W	0.00 usft	Easting: 805,232.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32.12409855
			Longitude: -103.48089158
			Ground Level: 3,353.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/24/2017	(°)
			6.89
			Dip Angle (°)
			59.98
			Field Strength (nT)
			47,878.37298710

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°)
			1.99

Plan Survey Tool Program	Date 7/24/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.00	17,411.77 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)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,223.72	2.24	142.09	4,223.67	-3.45	2.68	1.00	1.00	0.00	142.09	
12,136.97	2.24	142.09	12,130.88	-247.17	192.48	0.00	0.00	0.00	0.00	
12,901.77	90.00	359.55	12,623.00	230.14	200.42	12.00	11.48	-18.64	-142.52	
17,411.77	90.00	359.55	12,623.00	4,740.00	165.00	0.00	0.00	0.00	0.00	PBHL (Andele 16 Stai



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Andele 16 State Com
 Well: #703H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25' @ 3378.00usft
 MD Reference: KB = 25' @ 3378.00usft
 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	142.09	4,100.00	-0.69	0.54	-0.67	1.00	1.00	0.00
4,200.00	2.00	142.09	4,199.96	-2.75	2.14	-2.68	1.00	1.00	0.00
4,223.72	2.24	142.09	4,223.67	-3.45	2.68	-3.35	1.00	1.00	0.00
4,300.00	2.24	142.09	4,299.89	-5.80	4.51	-5.63	0.00	0.00	0.00
4,400.00	2.24	142.09	4,399.81	-8.88	6.91	-8.63	0.00	0.00	0.00
4,500.00	2.24	142.09	4,499.73	-11.96	9.31	-11.62	0.00	0.00	0.00
4,600.00	2.24	142.09	4,599.66	-15.04	11.71	-14.62	0.00	0.00	0.00
4,700.00	2.24	142.09	4,699.58	-18.12	14.11	-17.61	0.00	0.00	0.00
4,800.00	2.24	142.09	4,799.50	-21.20	16.50	-20.61	0.00	0.00	0.00
4,900.00	2.24	142.09	4,899.43	-24.28	18.90	-23.60	0.00	0.00	0.00
5,000.00	2.24	142.09	4,999.35	-27.36	21.30	-26.60	0.00	0.00	0.00
5,100.00	2.24	142.09	5,099.28	-30.44	23.70	-29.59	0.00	0.00	0.00
5,200.00	2.24	142.09	5,199.20	-33.52	26.10	-32.59	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: Andele 16 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3378.00usft
MD Reference: KB = 25' @ 3378.00usft
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)
5,300.00	2.24	142.09	5,299.12	-36.60	28.50	-35.58	0.00	0.00	0.00
5,400.00	2.24	142.09	5,399.05	-39.68	30.90	-38.58	0.00	0.00	0.00
5,500.00	2.24	142.09	5,498.97	-42.76	33.29	-41.57	0.00	0.00	0.00
5,600.00	2.24	142.09	5,598.89	-45.84	35.69	-44.57	0.00	0.00	0.00
5,700.00	2.24	142.09	5,698.82	-48.92	38.09	-47.56	0.00	0.00	0.00
5,800.00	2.24	142.09	5,798.74	-52.00	40.49	-50.56	0.00	0.00	0.00
5,900.00	2.24	142.09	5,898.67	-55.08	42.89	-53.55	0.00	0.00	0.00
6,000.00	2.24	142.09	5,998.59	-58.16	45.29	-56.54	0.00	0.00	0.00
6,100.00	2.24	142.09	6,098.51	-61.24	47.68	-59.54	0.00	0.00	0.00
6,200.00	2.24	142.09	6,198.44	-64.32	50.08	-62.53	0.00	0.00	0.00
6,300.00	2.24	142.09	6,298.36	-67.40	52.48	-65.53	0.00	0.00	0.00
6,400.00	2.24	142.09	6,398.28	-70.48	54.88	-68.52	0.00	0.00	0.00
6,500.00	2.24	142.09	6,498.21	-73.56	57.28	-71.52	0.00	0.00	0.00
6,600.00	2.24	142.09	6,598.13	-76.64	59.68	-74.51	0.00	0.00	0.00
6,700.00	2.24	142.09	6,698.06	-79.72	62.08	-77.51	0.00	0.00	0.00
6,800.00	2.24	142.09	6,797.98	-82.80	64.47	-80.50	0.00	0.00	0.00
6,900.00	2.24	142.09	6,897.90	-85.88	66.87	-83.50	0.00	0.00	0.00
7,000.00	2.24	142.09	6,997.83	-88.96	69.27	-86.49	0.00	0.00	0.00
7,100.00	2.24	142.09	7,097.75	-92.04	71.67	-89.49	0.00	0.00	0.00
7,200.00	2.24	142.09	7,197.67	-95.12	74.07	-92.48	0.00	0.00	0.00
7,300.00	2.24	142.09	7,297.60	-98.20	76.47	-95.48	0.00	0.00	0.00
7,400.00	2.24	142.09	7,397.52	-101.28	78.86	-98.47	0.00	0.00	0.00
7,500.00	2.24	142.09	7,497.45	-104.36	81.26	-101.46	0.00	0.00	0.00
7,600.00	2.24	142.09	7,597.37	-107.44	83.66	-104.46	0.00	0.00	0.00
7,700.00	2.24	142.09	7,697.29	-110.52	86.06	-107.45	0.00	0.00	0.00
7,800.00	2.24	142.09	7,797.22	-113.60	88.46	-110.45	0.00	0.00	0.00
7,900.00	2.24	142.09	7,897.14	-116.68	90.86	-113.44	0.00	0.00	0.00
8,000.00	2.24	142.09	7,997.06	-119.76	93.25	-116.44	0.00	0.00	0.00
8,100.00	2.24	142.09	8,096.99	-122.84	95.65	-119.43	0.00	0.00	0.00
8,200.00	2.24	142.09	8,196.91	-125.92	98.05	-122.43	0.00	0.00	0.00
8,300.00	2.24	142.09	8,296.84	-129.00	100.45	-125.42	0.00	0.00	0.00
8,400.00	2.24	142.09	8,396.76	-132.08	102.85	-128.42	0.00	0.00	0.00
8,500.00	2.24	142.09	8,496.68	-135.16	105.25	-131.41	0.00	0.00	0.00
8,600.00	2.24	142.09	8,596.61	-138.24	107.65	-134.41	0.00	0.00	0.00
8,700.00	2.24	142.09	8,696.53	-141.32	110.04	-137.40	0.00	0.00	0.00
8,800.00	2.24	142.09	8,796.46	-144.40	112.44	-140.40	0.00	0.00	0.00
8,900.00	2.24	142.09	8,896.38	-147.48	114.84	-143.39	0.00	0.00	0.00
9,000.00	2.24	142.09	8,996.30	-150.56	117.24	-146.39	0.00	0.00	0.00
9,100.00	2.24	142.09	9,096.23	-153.64	119.64	-149.38	0.00	0.00	0.00
9,200.00	2.24	142.09	9,196.15	-156.72	122.04	-152.37	0.00	0.00	0.00
9,300.00	2.24	142.09	9,296.07	-159.80	124.43	-155.37	0.00	0.00	0.00
9,400.00	2.24	142.09	9,396.00	-162.88	126.83	-158.36	0.00	0.00	0.00
9,500.00	2.24	142.09	9,495.92	-165.96	129.23	-161.36	0.00	0.00	0.00
9,600.00	2.24	142.09	9,595.85	-169.04	131.63	-164.35	0.00	0.00	0.00
9,700.00	2.24	142.09	9,695.77	-172.12	134.03	-167.35	0.00	0.00	0.00
9,800.00	2.24	142.09	9,795.69	-175.20	136.43	-170.34	0.00	0.00	0.00
9,900.00	2.24	142.09	9,895.62	-178.28	138.82	-173.34	0.00	0.00	0.00
10,000.00	2.24	142.09	9,995.54	-181.36	141.22	-176.33	0.00	0.00	0.00
10,100.00	2.24	142.09	10,095.46	-184.44	143.62	-179.33	0.00	0.00	0.00
10,200.00	2.24	142.09	10,195.39	-187.52	146.02	-182.32	0.00	0.00	0.00
10,300.00	2.24	142.09	10,295.31	-190.60	148.42	-185.32	0.00	0.00	0.00
10,400.00	2.24	142.09	10,395.24	-193.67	150.82	-188.31	0.00	0.00	0.00
10,500.00	2.24	142.09	10,495.16	-196.75	153.22	-191.31	0.00	0.00	0.00
10,600.00	2.24	142.09	10,595.08	-199.83	155.61	-194.30	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: Andele 16 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #703H
KB = 25' @ 3378.00usft
KB = 25' @ 3378.00usft
Grid
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)
10,700.00	2.24	142.09	10,695.01	-202.91	158.01	-197.30	0.00	0.00	0.00
10,800.00	2.24	142.09	10,794.93	-205.99	160.41	-200.29	0.00	0.00	0.00
10,900.00	2.24	142.09	10,894.85	-209.07	162.81	-203.28	0.00	0.00	0.00
11,000.00	2.24	142.09	10,994.78	-212.15	165.21	-206.28	0.00	0.00	0.00
11,100.00	2.24	142.09	11,094.70	-215.23	167.61	-209.27	0.00	0.00	0.00
11,200.00	2.24	142.09	11,194.63	-218.31	170.00	-212.27	0.00	0.00	0.00
11,300.00	2.24	142.09	11,294.55	-221.39	172.40	-215.26	0.00	0.00	0.00
11,400.00	2.24	142.09	11,394.47	-224.47	174.80	-218.26	0.00	0.00	0.00
11,500.00	2.24	142.09	11,494.40	-227.55	177.20	-221.25	0.00	0.00	0.00
11,600.00	2.24	142.09	11,594.32	-230.63	179.60	-224.25	0.00	0.00	0.00
11,700.00	2.24	142.09	11,694.24	-233.71	182.00	-227.24	0.00	0.00	0.00
11,800.00	2.24	142.09	11,794.17	-236.79	184.40	-230.24	0.00	0.00	0.00
11,900.00	2.24	142.09	11,894.09	-239.87	186.79	-233.23	0.00	0.00	0.00
12,000.00	2.24	142.09	11,994.02	-242.95	189.19	-236.23	0.00	0.00	0.00
12,100.00	2.24	142.09	12,093.94	-246.03	191.59	-239.22	0.00	0.00	0.00
12,136.97	2.24	142.09	12,130.88	-247.17	192.48	-240.33	0.00	0.00	0.00
12,150.00	1.38	98.40	12,143.91	-247.40	192.79	-240.54	12.00	-6.60	-335.28
12,175.00	3.10	25.55	12,168.89	-246.83	193.38	-239.95	12.00	6.90	-291.38
12,200.00	5.95	12.74	12,193.81	-244.96	193.95	-238.06	12.00	11.37	-51.25
12,225.00	8.89	8.28	12,218.60	-241.78	194.52	-234.87	12.00	11.79	-17.81
12,250.00	11.87	6.04	12,243.19	-237.31	195.07	-230.38	12.00	11.89	-8.97
12,275.00	14.85	4.69	12,267.51	-231.56	195.60	-224.62	12.00	11.94	-5.41
12,300.00	17.84	3.78	12,291.49	-224.55	196.12	-217.59	12.00	11.96	-3.63
12,325.00	20.83	3.13	12,315.08	-216.29	196.61	-209.32	12.00	11.97	-2.62
12,350.00	23.82	2.63	12,338.20	-206.80	197.09	-199.82	12.00	11.98	-1.98
12,375.00	26.82	2.24	12,360.80	-196.12	197.54	-189.13	12.00	11.98	-1.56
12,400.00	29.82	1.93	12,382.81	-184.27	197.97	-177.27	12.00	11.98	-1.27
12,425.00	32.81	1.66	12,404.16	-171.28	198.37	-164.28	12.00	11.99	-1.06
12,450.00	35.81	1.44	12,424.81	-157.20	198.75	-150.19	12.00	11.99	-0.90
12,475.00	38.81	1.24	12,444.69	-142.05	199.11	-135.04	12.00	11.99	-0.78
12,500.00	41.81	1.07	12,463.75	-125.88	199.43	-118.87	12.00	11.99	-0.68
12,525.00	44.80	0.92	12,481.94	-108.74	199.73	-101.73	12.00	11.99	-0.61
12,550.00	47.80	0.78	12,499.21	-90.67	200.00	-83.66	12.00	11.99	-0.55
12,575.00	50.80	0.66	12,515.51	-71.72	200.24	-64.71	12.00	11.99	-0.50
12,600.00	53.80	0.55	12,530.80	-51.94	200.45	-44.94	12.00	11.99	-0.46
12,625.00	56.80	0.44	12,545.03	-31.39	200.62	-24.39	12.00	11.99	-0.42
12,650.00	59.80	0.34	12,558.17	-10.12	200.77	-3.13	12.00	12.00	-0.39
12,675.00	62.80	0.25	12,570.17	11.80	200.88	18.78	12.00	12.00	-0.37
12,700.00	65.80	0.16	12,581.01	34.32	200.96	41.29	12.00	12.00	-0.35
12,714.07	67.48	0.11	12,586.59	47.24	200.99	54.20	12.00	12.00	-0.34
FTP (Andele 16 State Com #703H)									
12,725.00	68.79	0.08	12,590.66	57.38	201.01	64.34	12.00	12.00	-0.33
12,750.00	71.79	360.00	12,599.09	80.92	201.02	87.86	12.00	12.00	-0.32
12,775.00	74.79	359.92	12,606.28	104.86	201.01	111.79	12.00	12.00	-0.31
12,800.00	77.79	359.84	12,612.20	129.14	200.96	136.06	12.00	12.00	-0.30
12,825.00	80.79	359.77	12,616.84	153.71	200.88	160.60	12.00	12.00	-0.30
12,850.00	83.79	359.70	12,620.20	178.48	200.76	185.35	12.00	12.00	-0.29
12,875.00	86.79	359.63	12,622.25	203.39	200.61	210.24	12.00	12.00	-0.29
12,901.77	90.00	359.55	12,623.00	230.14	200.42	236.97	12.00	12.00	-0.29
13,000.00	90.00	359.55	12,623.00	328.37	199.65	335.12	0.00	0.00	0.00
13,100.00	90.00	359.55	12,623.00	428.37	198.86	435.03	0.00	0.00	0.00
13,200.00	90.00	359.55	12,623.00	528.36	198.08	534.94	0.00	0.00	0.00
13,300.00	90.00	359.55	12,623.00	628.36	197.29	634.85	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: Andele 16 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #703H
KB = 25' @ 3378.00usft
KB = 25' @ 3378.00usft
Grid
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)
13,400.00	90.00	359.55	12,623.00	728.36	196.51	734.75	0.00	0.00	0.00
13,500.00	90.00	359.55	12,623.00	828.36	195.72	834.66	0.00	0.00	0.00
13,600.00	90.00	359.55	12,623.00	928.35	194.94	934.57	0.00	0.00	0.00
13,700.00	90.00	359.55	12,623.00	1,028.35	194.15	1,034.48	0.00	0.00	0.00
13,800.00	90.00	359.55	12,623.00	1,128.35	193.37	1,134.39	0.00	0.00	0.00
13,900.00	90.00	359.55	12,623.00	1,228.34	192.58	1,234.30	0.00	0.00	0.00
14,000.00	90.00	359.55	12,623.00	1,328.34	191.80	1,334.21	0.00	0.00	0.00
14,100.00	90.00	359.55	12,623.00	1,428.34	191.01	1,434.12	0.00	0.00	0.00
14,200.00	90.00	359.55	12,623.00	1,528.33	190.22	1,534.03	0.00	0.00	0.00
14,300.00	90.00	359.55	12,623.00	1,628.33	189.44	1,633.94	0.00	0.00	0.00
14,400.00	90.00	359.55	12,623.00	1,728.33	188.65	1,733.84	0.00	0.00	0.00
14,500.00	90.00	359.55	12,623.00	1,828.32	187.87	1,833.75	0.00	0.00	0.00
14,600.00	90.00	359.55	12,623.00	1,928.32	187.08	1,933.66	0.00	0.00	0.00
14,700.00	90.00	359.55	12,623.00	2,028.32	186.30	2,033.57	0.00	0.00	0.00
14,800.00	90.00	359.55	12,623.00	2,128.32	185.51	2,133.48	0.00	0.00	0.00
14,900.00	90.00	359.55	12,623.00	2,228.31	184.73	2,233.39	0.00	0.00	0.00
15,000.00	90.00	359.55	12,623.00	2,328.31	183.94	2,333.30	0.00	0.00	0.00
15,100.00	90.00	359.55	12,623.00	2,428.31	183.16	2,433.21	0.00	0.00	0.00
15,200.00	90.00	359.55	12,623.00	2,528.30	182.37	2,533.12	0.00	0.00	0.00
15,300.00	90.00	359.55	12,623.00	2,628.30	181.59	2,633.03	0.00	0.00	0.00
15,400.00	90.00	359.55	12,623.00	2,728.30	180.80	2,732.94	0.00	0.00	0.00
15,500.00	90.00	359.55	12,623.00	2,828.29	180.01	2,832.84	0.00	0.00	0.00
15,600.00	90.00	359.55	12,623.00	2,928.29	179.23	2,932.75	0.00	0.00	0.00
15,700.00	90.00	359.55	12,623.00	3,028.29	178.44	3,032.66	0.00	0.00	0.00
15,800.00	90.00	359.55	12,623.00	3,128.28	177.66	3,132.57	0.00	0.00	0.00
15,900.00	90.00	359.55	12,623.00	3,228.28	176.87	3,232.48	0.00	0.00	0.00
16,000.00	90.00	359.55	12,623.00	3,328.28	176.09	3,332.39	0.00	0.00	0.00
16,100.00	90.00	359.55	12,623.00	3,428.28	175.30	3,432.30	0.00	0.00	0.00
16,200.00	90.00	359.55	12,623.00	3,528.27	174.52	3,532.21	0.00	0.00	0.00
16,300.00	90.00	359.55	12,623.00	3,628.27	173.73	3,632.12	0.00	0.00	0.00
16,400.00	90.00	359.55	12,623.00	3,728.27	172.95	3,732.03	0.00	0.00	0.00
16,500.00	90.00	359.55	12,623.00	3,828.26	172.16	3,831.94	0.00	0.00	0.00
16,600.00	90.00	359.55	12,623.00	3,928.26	171.38	3,931.84	0.00	0.00	0.00
16,700.00	90.00	359.55	12,623.00	4,028.26	170.59	4,031.75	0.00	0.00	0.00
16,800.00	90.00	359.55	12,623.00	4,128.25	169.80	4,131.66	0.00	0.00	0.00
16,900.00	90.00	359.55	12,623.00	4,228.25	169.02	4,231.57	0.00	0.00	0.00
17,000.00	90.00	359.55	12,623.00	4,328.25	168.23	4,331.48	0.00	0.00	0.00
17,100.00	90.00	359.55	12,623.00	4,428.24	167.45	4,431.39	0.00	0.00	0.00
17,200.00	90.00	359.55	12,623.00	4,528.24	166.66	4,531.30	0.00	0.00	0.00
17,300.00	90.00	359.55	12,623.00	4,628.24	165.88	4,631.21	0.00	0.00	0.00
17,400.00	90.00	359.55	12,623.00	4,728.24	165.09	4,731.12	0.00	0.00	0.00
17,411.77	90.00	359.55	12,623.00	4,740.00	165.00	4,742.87	0.00	0.00	0.00

PBHL (Andele 16 State Com #703H)



EOG Resources, Inc.

Planning Report

Database: EDM 5000.14 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Andele 16 State Com
Well: #703H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3378.00usft
MD Reference: KB = 25' @ 3378.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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 (Andele 16 State Cr - plan misses target center by 39.48usft at 12714.07usft MD (12586.59 TVD, 47.24 N, 200.99 E) - Point	0.00	0.00	12,623.00	32.00	202.00	409,959.00	805,434.00	32.12418211	-103.48023832
PBHL (Andele 16 State Cr - plan hits target center - Point	0.00	0.00	12,623.00	4,740.00	165.00	414,667.00	805,397.00	32.13712352	-103.48023740