

HOBBS OCD
FEB 14 2017
RECEIVED

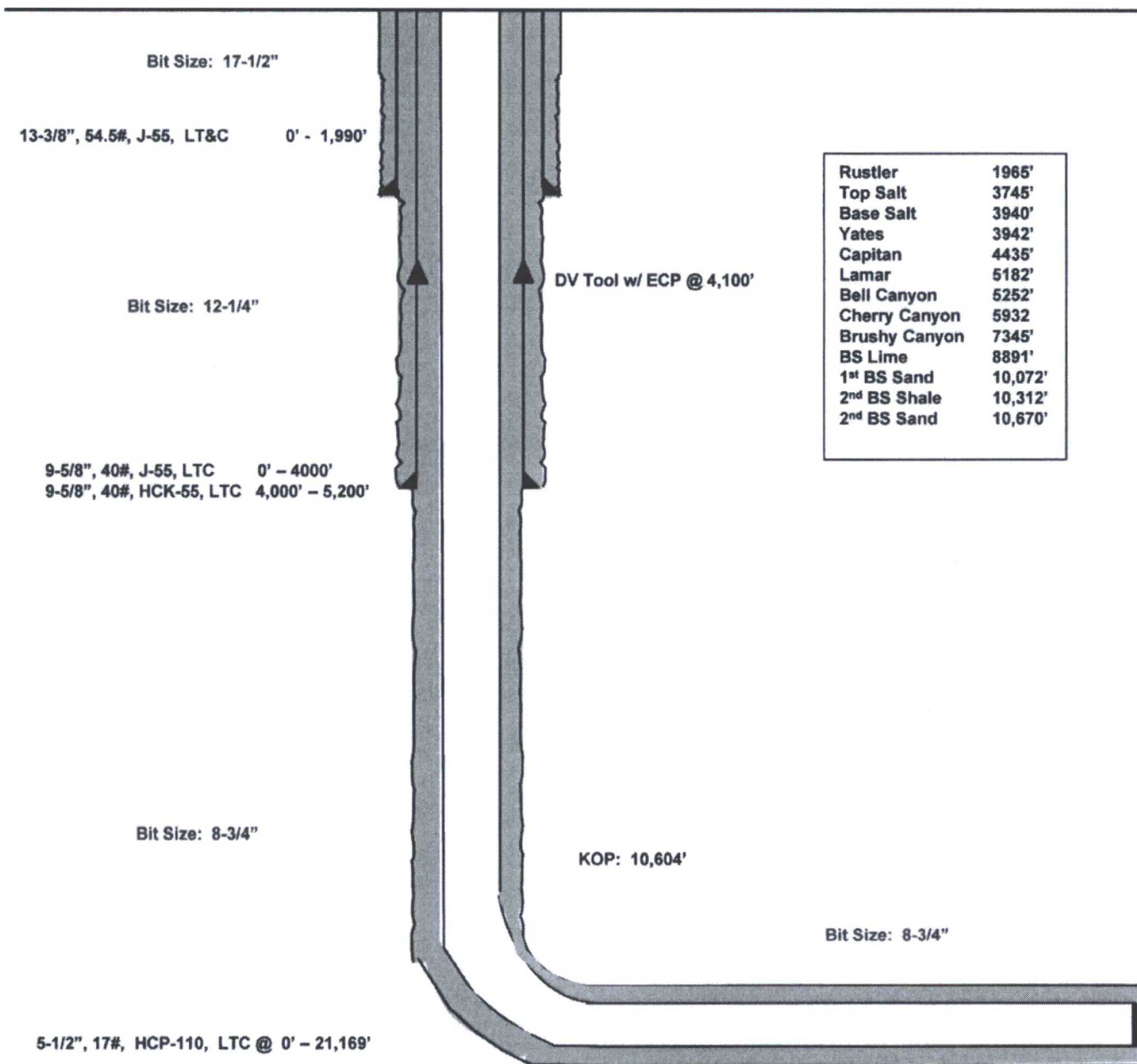
Naguss 30 State Com #501H

Lea County, New Mexico
Proposed Wellbore

183' FNL
399' FWL
Section 30
T-21-S, R-34-E

API: 30-025-*****

KB: 3,770'
GL: 3,745'



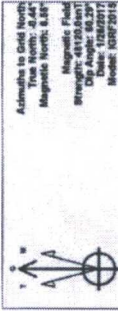
Lateral: 21,169' MD, 11,192' TVD

BH Location: 230' FSL & 330' FWL
Section 31
T-21-S, R-34-E



Lea County, NM (NAD 27 NME)
Naguss 30 State Com #501H
Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)
Coordinate System: US State Plane 1027 (Exact solution)
Datum: North American 1983 (NAD 83)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Adjustments to Grid North
True North: 8.44°
Magnetic North: 8.88°
Magnetic Field
Strength: 48100.000
Declination: 0.44°
Date: 10/26/2017
Block: KGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 8.92°
To convert a Magnetic Direction to a True Direction, Add 8.92° and
To convert a True Direction to a Grid Direction, Subtract 8.92°

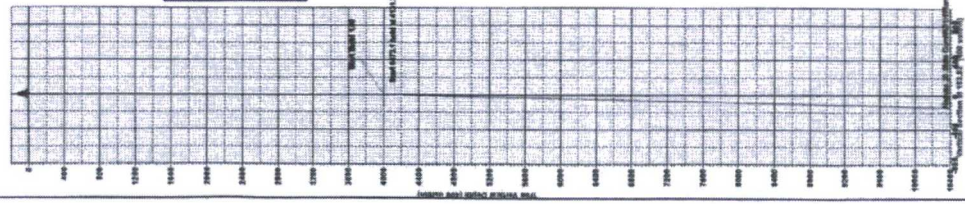
WELL DETAILS: #501H
Ground Level: 3748.8
Easting: 752115.00
Northing: 530712.50
Location: 103° 20' 56.14 W

SECTION DETAILS

Sec	MD	Inc	Asl	TVD	+N/S	+E/W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.00	0.00	0.00	0.0	
3	4131.3	1.31	333.88	4131.3	1.4	-0.7	1.00	333.88	-1.4	
4	10664.4	4.31	333.88	10662.7	134.5	-46.0	0.00	0.00	-134.8	
5	10664.4	4.31	333.88	10662.7	134.5	-46.0	0.00	0.00	-134.8	
6	21169.3	89.40	173.95	11192.7	-10147.0	10.0	0.00	0.00	10147.0	

PBHL (Naguss 30 State Com #501H)

True Vertical Curve (100' stations)

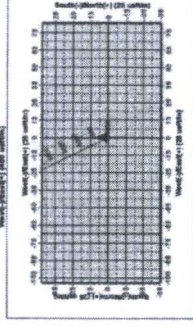
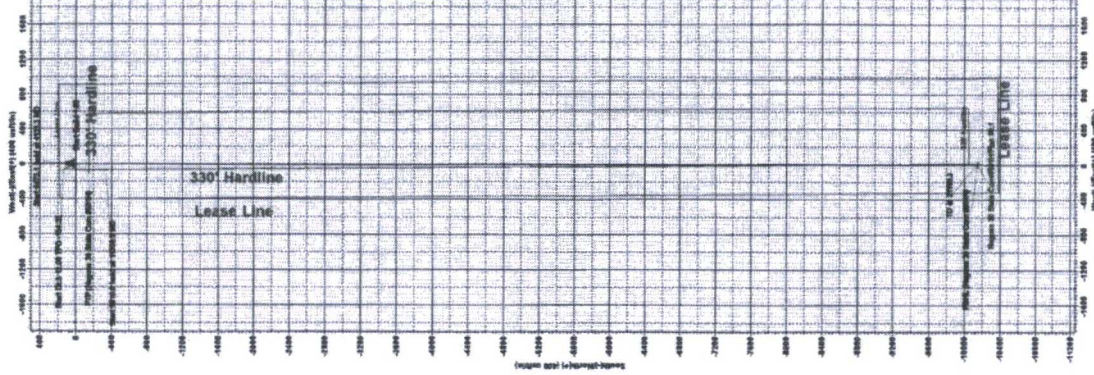
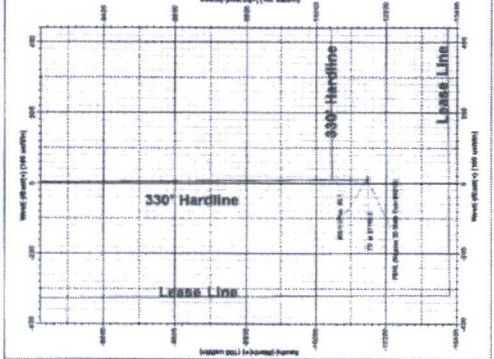
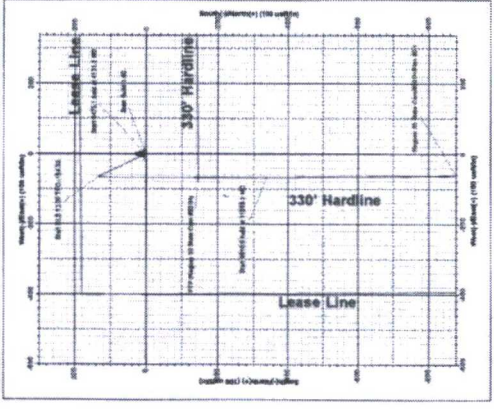


CALCULATED DETAILS

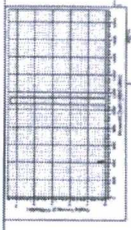
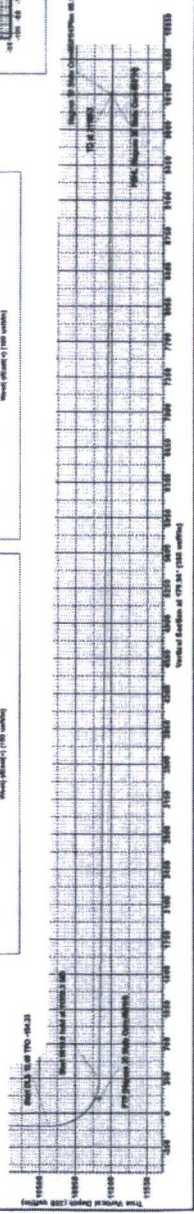
No casing data is available

WELLSHOE TARGET DETAILS (MAP COORDINATES)

Name: PPHL (Naguss 30 State Com #501H)
UTM Zone: 18QUD
UTM Easting: 752115.00
UTM Northing: 530712.50
UTM Zone: 18QUD
UTM Easting: 752115.00
UTM Northing: 530712.50



True Vertical Curve (100' stations)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Naguss 30 State Com

#501H

OH

Plan: Plan #0.1

Standard Planning Report

26 January, 2017



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3770.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25' @ 3770.0usft
Site:	Naguss 30 State Com	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Naguss 30 State Com		
Site Position:	From: Map	Northing:	530,715.00 usft
		Easting:	752,183.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 27' 23.016 N
		Longitude:	103° 30' 56.744 W
		Grid Convergence:	0.44 °

Well	#501H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 27' 23.016 N
		Longitude:	103° 30' 56.744 W
		Ground Level:	3,745.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	1/26/2017	6.99
			Dip Angle
			60.29
			Field Strength
			48,120

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
			179.94

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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,131.3	1.31	333.88	4,131.3	1.4	-0.7	1.00	1.00	0.00	333.88	
10,604.4	1.31	333.88	10,602.7	134.5	-66.0	0.00	0.00	0.00	0.00	
11,359.3	89.40	179.55	11,090.0	-337.8	-67.0	12.00	11.67	-20.45	-154.33	
21,169.3	89.40	179.55	11,192.7	-10,147.0	10.0	0.00	0.00	0.00	0.00	0.00 PBHL (Naguss 30 Sts



EOG Resources, Inc. Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Naguss 30 State Com
Well: #501H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: KB = 25' @ 3770.0usft
MD Reference: KB = 25' @ 3770.0usft
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	1.00	333.88	4,100.0	0.8	-0.4	-0.8	1.00	1.00	0.00
4,131.3	1.31	333.88	4,131.3	1.4	-0.7	-1.4	1.00	1.00	0.00
4,200.0	1.31	333.88	4,200.0	2.8	-1.4	-2.8	0.00	0.00	0.00
4,300.0	1.31	333.88	4,299.9	4.8	-2.4	-4.8	0.00	0.00	0.00
4,400.0	1.31	333.88	4,399.9	6.9	-3.4	-6.9	0.00	0.00	0.00
4,500.0	1.31	333.88	4,499.9	8.9	-4.4	-8.9	0.00	0.00	0.00
4,600.0	1.31	333.88	4,599.9	11.0	-5.4	-11.0	0.00	0.00	0.00
4,700.0	1.31	333.88	4,699.8	13.1	-6.4	-13.1	0.00	0.00	0.00
4,800.0	1.31	333.88	4,799.8	15.1	-7.4	-15.1	0.00	0.00	0.00
4,900.0	1.31	333.88	4,899.8	17.2	-8.4	-17.2	0.00	0.00	0.00
5,000.0	1.31	333.88	4,999.8	19.2	-9.4	-19.2	0.00	0.00	0.00
5,100.0	1.31	333.88	5,099.7	21.3	-10.4	-21.3	0.00	0.00	0.00
5,200.0	1.31	333.88	5,199.7	23.3	-11.4	-23.4	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #501H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3770.0usft
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25' @ 3770.0usft
Site:	Naguss 30 State Com	North Reference:	Grid
Well:	#501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	1.31	333.88	5,299.7	25.4	-12.5	-25.4	0.00	0.00	0.00	
5,400.0	1.31	333.88	5,399.7	27.5	-13.5	-27.5	0.00	0.00	0.00	
5,500.0	1.31	333.88	5,499.6	29.5	-14.5	-29.5	0.00	0.00	0.00	
5,600.0	1.31	333.88	5,599.6	31.6	-15.5	-31.6	0.00	0.00	0.00	
5,700.0	1.31	333.88	5,699.6	33.6	-16.5	-33.6	0.00	0.00	0.00	
5,800.0	1.31	333.88	5,799.6	35.7	-17.5	-35.7	0.00	0.00	0.00	
5,900.0	1.31	333.88	5,899.5	37.7	-18.5	-37.8	0.00	0.00	0.00	
6,000.0	1.31	333.88	5,999.5	39.8	-19.5	-39.8	0.00	0.00	0.00	
6,100.0	1.31	333.88	6,099.5	41.9	-20.5	-41.9	0.00	0.00	0.00	
6,200.0	1.31	333.88	6,199.4	43.9	-21.5	-43.9	0.00	0.00	0.00	
6,300.0	1.31	333.88	6,299.4	46.0	-22.5	-46.0	0.00	0.00	0.00	
6,400.0	1.31	333.88	6,399.4	48.0	-23.5	-48.1	0.00	0.00	0.00	
6,500.0	1.31	333.88	6,499.4	50.1	-24.6	-50.1	0.00	0.00	0.00	
6,600.0	1.31	333.88	6,599.3	52.1	-25.6	-52.2	0.00	0.00	0.00	
6,700.0	1.31	333.88	6,699.3	54.2	-26.6	-54.2	0.00	0.00	0.00	
6,800.0	1.31	333.88	6,799.3	56.3	-27.6	-56.3	0.00	0.00	0.00	
6,900.0	1.31	333.88	6,899.3	58.3	-28.6	-58.3	0.00	0.00	0.00	
7,000.0	1.31	333.88	6,999.2	60.4	-29.6	-60.4	0.00	0.00	0.00	
7,100.0	1.31	333.88	7,099.2	62.4	-30.6	-62.5	0.00	0.00	0.00	
7,200.0	1.31	333.88	7,199.2	64.5	-31.6	-64.5	0.00	0.00	0.00	
7,300.0	1.31	333.88	7,299.2	66.6	-32.6	-66.6	0.00	0.00	0.00	
7,400.0	1.31	333.88	7,399.1	68.6	-33.6	-68.6	0.00	0.00	0.00	
7,500.0	1.31	333.88	7,499.1	70.7	-34.6	-70.7	0.00	0.00	0.00	
7,600.0	1.31	333.88	7,599.1	72.7	-35.7	-72.8	0.00	0.00	0.00	
7,700.0	1.31	333.88	7,699.1	74.8	-36.7	-74.8	0.00	0.00	0.00	
7,800.0	1.31	333.88	7,799.0	76.8	-37.7	-76.9	0.00	0.00	0.00	
7,900.0	1.31	333.88	7,899.0	78.9	-38.7	-78.9	0.00	0.00	0.00	
8,000.0	1.31	333.88	7,999.0	81.0	-39.7	-81.0	0.00	0.00	0.00	
8,100.0	1.31	333.88	8,098.9	83.0	-40.7	-83.1	0.00	0.00	0.00	
8,200.0	1.31	333.88	8,198.9	85.1	-41.7	-85.1	0.00	0.00	0.00	
8,300.0	1.31	333.88	8,298.9	87.1	-42.7	-87.2	0.00	0.00	0.00	
8,400.0	1.31	333.88	8,398.9	89.2	-43.7	-89.2	0.00	0.00	0.00	
8,500.0	1.31	333.88	8,498.8	91.2	-44.7	-91.3	0.00	0.00	0.00	
8,600.0	1.31	333.88	8,598.8	93.3	-45.7	-93.3	0.00	0.00	0.00	
8,700.0	1.31	333.88	8,698.8	95.4	-46.8	-95.4	0.00	0.00	0.00	
8,800.0	1.31	333.88	8,798.8	97.4	-47.8	-97.5	0.00	0.00	0.00	
8,900.0	1.31	333.88	8,898.7	99.5	-48.8	-99.5	0.00	0.00	0.00	
9,000.0	1.31	333.88	8,998.7	101.5	-49.8	-101.6	0.00	0.00	0.00	
9,100.0	1.31	333.88	9,098.7	103.6	-50.8	-103.6	0.00	0.00	0.00	
9,200.0	1.31	333.88	9,198.7	105.6	-51.8	-105.7	0.00	0.00	0.00	
9,300.0	1.31	333.88	9,298.6	107.7	-52.8	-107.8	0.00	0.00	0.00	
9,400.0	1.31	333.88	9,398.6	109.8	-53.8	-109.8	0.00	0.00	0.00	
9,500.0	1.31	333.88	9,498.6	111.8	-54.8	-111.9	0.00	0.00	0.00	
9,600.0	1.31	333.88	9,598.6	113.9	-55.8	-113.9	0.00	0.00	0.00	
9,700.0	1.31	333.88	9,698.5	115.9	-56.8	-116.0	0.00	0.00	0.00	
9,800.0	1.31	333.88	9,798.5	118.0	-57.8	-118.1	0.00	0.00	0.00	
9,900.0	1.31	333.88	9,898.5	120.1	-58.9	-120.1	0.00	0.00	0.00	
10,000.0	1.31	333.88	9,998.4	122.1	-59.9	-122.2	0.00	0.00	0.00	
10,100.0	1.31	333.88	10,098.4	124.2	-60.9	-124.2	0.00	0.00	0.00	
10,200.0	1.31	333.88	10,198.4	126.2	-61.9	-126.3	0.00	0.00	0.00	
10,300.0	1.31	333.88	10,298.4	128.3	-62.9	-128.3	0.00	0.00	0.00	
10,400.0	1.31	333.88	10,398.3	130.3	-63.9	-130.4	0.00	0.00	0.00	
10,500.0	1.31	333.88	10,498.3	132.4	-64.9	-132.5	0.00	0.00	0.00	
10,604.4	1.31	333.88	10,602.7	134.5	-66.0	-134.6	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: Naguss 30 State Com
Well: #501H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25' @ 3770.0usft
MD Reference: KB = 25' @ 3770.0usft
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)	
10,625.0	1.40	203.43	10,623.3	134.5	-66.2	-134.6	12.00	0.44	-634.38	
10,650.0	4.32	187.09	10,648.3	133.3	-66.4	-133.4	12.00	11.67	-85.35	
10,675.0	7.31	183.98	10,673.1	130.8	-66.6	-130.9	12.00	11.94	-12.43	
10,700.0	10.30	182.68	10,697.8	127.0	-66.8	-127.0	12.00	11.97	-5.24	
10,725.0	13.30	181.95	10,722.3	121.9	-67.1	-121.9	12.00	11.99	-2.90	
10,750.0	16.29	181.49	10,746.5	115.5	-67.2	-115.5	12.00	11.99	-1.85	
10,775.0	19.29	181.17	10,770.3	107.8	-67.4	-107.9	12.00	11.99	-1.28	
10,800.0	22.29	180.93	10,793.6	99.0	-67.6	-99.0	12.00	12.00	-0.95	
10,825.0	25.29	180.75	10,816.5	88.9	-67.7	-89.0	12.00	12.00	-0.73	
10,850.0	28.29	180.60	10,838.8	77.6	-67.9	-77.7	12.00	12.00	-0.59	
10,875.0	31.29	180.48	10,860.5	65.2	-68.0	-65.3	12.00	12.00	-0.48	
10,900.0	34.29	180.38	10,881.5	51.7	-68.1	-51.7	12.00	12.00	-0.41	
10,925.0	37.29	180.29	10,901.8	37.1	-68.2	-37.1	12.00	12.00	-0.35	
10,950.0	40.29	180.22	10,921.3	21.4	-68.2	-21.5	12.00	12.00	-0.30	
10,975.0	43.29	180.15	10,939.9	4.7	-68.3	-4.8	12.00	12.00	-0.27	
11,000.0	46.29	180.09	10,957.7	-12.9	-68.3	12.8	12.00	12.00	-0.24	
11,025.0	49.29	180.03	10,974.5	-31.4	-68.3	31.3	12.00	12.00	-0.22	
11,050.0	52.29	179.98	10,990.3	-50.8	-68.3	50.7	12.00	12.00	-0.20	
11,075.0	55.29	179.94	11,005.0	-70.9	-68.3	70.9	12.00	12.00	-0.18	
11,100.0	58.29	179.90	11,018.7	-91.8	-68.3	91.8	12.00	12.00	-0.17	
11,125.0	61.29	179.86	11,031.3	-113.4	-68.2	113.4	12.00	12.00	-0.16	
11,150.0	64.29	179.82	11,042.7	-135.7	-68.2	135.6	12.00	12.00	-0.15	
11,175.0	67.29	179.78	11,053.0	-158.5	-68.1	158.4	12.00	12.00	-0.14	
11,177.7	67.61	179.78	11,054.0	-161.0	-68.1	160.9	12.00	12.00	-0.14	
FTP (Naguss 30 State Com #501H)										
11,200.0	70.29	179.75	11,062.0	-181.8	-68.0	181.7	12.00	12.00	-0.14	
11,225.0	73.28	179.71	11,069.9	-205.5	-67.9	205.4	12.00	12.00	-0.13	
11,250.0	76.28	179.68	11,076.4	-229.6	-67.8	229.6	12.00	12.00	-0.13	
11,275.0	79.28	179.65	11,081.7	-254.1	-67.6	254.0	12.00	12.00	-0.12	
11,300.0	82.28	179.62	11,085.7	-278.7	-67.5	278.7	12.00	12.00	-0.12	
11,325.0	85.28	179.59	11,088.4	-303.6	-67.3	303.5	12.00	12.00	-0.12	
11,350.0	88.28	179.56	11,089.8	-328.5	-67.1	328.5	12.00	12.00	-0.12	
11,359.3	89.40	179.55	11,090.0	-337.8	-67.0	337.8	12.00	12.00	-0.12	
11,400.0	89.40	179.55	11,090.4	-378.5	-66.7	378.5	0.00	0.00	0.00	
11,500.0	89.40	179.55	11,091.5	-478.5	-65.9	478.5	0.00	0.00	0.00	
11,600.0	89.40	179.55	11,092.5	-578.5	-65.2	578.5	0.00	0.00	0.00	
11,700.0	89.40	179.55	11,093.6	-678.5	-64.4	678.4	0.00	0.00	0.00	
11,800.0	89.40	179.55	11,094.6	-778.5	-63.6	778.4	0.00	0.00	0.00	
11,900.0	89.40	179.55	11,095.7	-878.5	-62.8	878.4	0.00	0.00	0.00	
12,000.0	89.40	179.55	11,096.7	-978.5	-62.0	978.4	0.00	0.00	0.00	
12,100.0	89.40	179.55	11,097.8	-1,078.5	-61.2	1,078.4	0.00	0.00	0.00	
12,200.0	89.40	179.55	11,098.8	-1,178.5	-60.4	1,178.4	0.00	0.00	0.00	
12,300.0	89.40	179.55	11,099.9	-1,278.5	-59.7	1,278.4	0.00	0.00	0.00	
12,400.0	89.40	179.55	11,100.9	-1,378.5	-58.9	1,378.4	0.00	0.00	0.00	
12,500.0	89.40	179.55	11,101.9	-1,478.4	-58.1	1,478.4	0.00	0.00	0.00	
12,600.0	89.40	179.55	11,103.0	-1,578.4	-57.3	1,578.4	0.00	0.00	0.00	
12,700.0	89.40	179.55	11,104.0	-1,678.4	-56.5	1,678.4	0.00	0.00	0.00	
12,800.0	89.40	179.55	11,105.1	-1,778.4	-55.7	1,778.4	0.00	0.00	0.00	
12,900.0	89.40	179.55	11,106.1	-1,878.4	-54.9	1,878.4	0.00	0.00	0.00	
13,000.0	89.40	179.55	11,107.2	-1,978.4	-54.2	1,978.3	0.00	0.00	0.00	
13,100.0	89.40	179.55	11,108.2	-2,078.4	-53.4	2,078.3	0.00	0.00	0.00	
13,200.0	89.40	179.55	11,109.3	-2,178.4	-52.6	2,178.3	0.00	0.00	0.00	
13,300.0	89.40	179.55	11,110.3	-2,278.4	-51.8	2,278.3	0.00	0.00	0.00	



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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)
13,400.0	89.40	179.55	11,111.4	-2,378.4	-51.0	2,378.3	0.00	0.00	0.00
13,500.0	89.40	179.55	11,112.4	-2,478.4	-50.2	2,478.3	0.00	0.00	0.00
13,600.0	89.40	179.55	11,113.5	-2,578.3	-49.4	2,578.3	0.00	0.00	0.00
13,700.0	89.40	179.55	11,114.5	-2,678.3	-48.7	2,678.3	0.00	0.00	0.00
13,800.0	89.40	179.55	11,115.6	-2,778.3	-47.9	2,778.3	0.00	0.00	0.00
13,900.0	89.40	179.55	11,116.6	-2,878.3	-47.1	2,878.3	0.00	0.00	0.00
14,000.0	89.40	179.55	11,117.7	-2,978.3	-46.3	2,978.3	0.00	0.00	0.00
14,100.0	89.40	179.55	11,118.7	-3,078.3	-45.5	3,078.3	0.00	0.00	0.00
14,200.0	89.40	179.55	11,119.7	-3,178.3	-44.7	3,178.3	0.00	0.00	0.00
14,300.0	89.40	179.55	11,120.8	-3,278.3	-43.9	3,278.2	0.00	0.00	0.00
14,400.0	89.40	179.55	11,121.8	-3,378.3	-43.2	3,378.2	0.00	0.00	0.00
14,500.0	89.40	179.55	11,122.9	-3,478.3	-42.4	3,478.2	0.00	0.00	0.00
14,600.0	89.40	179.55	11,123.9	-3,578.3	-41.6	3,578.2	0.00	0.00	0.00
14,700.0	89.40	179.55	11,125.0	-3,678.3	-40.8	3,678.2	0.00	0.00	0.00
14,800.0	89.40	179.55	11,126.0	-3,778.2	-40.0	3,778.2	0.00	0.00	0.00
14,900.0	89.40	179.55	11,127.1	-3,878.2	-39.2	3,878.2	0.00	0.00	0.00
15,000.0	89.40	179.55	11,128.1	-3,978.2	-38.5	3,978.2	0.00	0.00	0.00
15,100.0	89.40	179.55	11,129.2	-4,078.2	-37.7	4,078.2	0.00	0.00	0.00
15,200.0	89.40	179.55	11,130.2	-4,178.2	-36.9	4,178.2	0.00	0.00	0.00
15,300.0	89.40	179.55	11,131.3	-4,278.2	-36.1	4,278.2	0.00	0.00	0.00
15,400.0	89.40	179.55	11,132.3	-4,378.2	-35.3	4,378.2	0.00	0.00	0.00
15,500.0	89.40	179.55	11,133.4	-4,478.2	-34.5	4,478.2	0.00	0.00	0.00
15,600.0	89.40	179.55	11,134.4	-4,578.2	-33.7	4,578.1	0.00	0.00	0.00
15,700.0	89.40	179.55	11,135.5	-4,678.2	-33.0	4,678.1	0.00	0.00	0.00
15,800.0	89.40	179.55	11,136.5	-4,778.2	-32.2	4,778.1	0.00	0.00	0.00
15,900.0	89.40	179.55	11,137.6	-4,878.2	-31.4	4,878.1	0.00	0.00	0.00
16,000.0	89.40	179.55	11,138.6	-4,978.1	-30.6	4,978.1	0.00	0.00	0.00
16,100.0	89.40	179.55	11,139.6	-5,078.1	-29.8	5,078.1	0.00	0.00	0.00
16,200.0	89.40	179.55	11,140.7	-5,178.1	-29.0	5,178.1	0.00	0.00	0.00
16,300.0	89.40	179.55	11,141.7	-5,278.1	-28.2	5,278.1	0.00	0.00	0.00
16,400.0	89.40	179.55	11,142.8	-5,378.1	-27.5	5,378.1	0.00	0.00	0.00
16,500.0	89.40	179.55	11,143.8	-5,478.1	-26.7	5,478.1	0.00	0.00	0.00
16,600.0	89.40	179.55	11,144.9	-5,578.1	-25.9	5,578.1	0.00	0.00	0.00
16,700.0	89.40	179.55	11,145.9	-5,678.1	-25.1	5,678.1	0.00	0.00	0.00
16,800.0	89.40	179.55	11,147.0	-5,778.1	-24.3	5,778.0	0.00	0.00	0.00
16,900.0	89.40	179.55	11,148.0	-5,878.1	-23.5	5,878.0	0.00	0.00	0.00
17,000.0	89.40	179.55	11,149.1	-5,978.1	-22.7	5,978.0	0.00	0.00	0.00
17,100.0	89.40	179.55	11,150.1	-6,078.0	-22.0	6,078.0	0.00	0.00	0.00
17,200.0	89.40	179.55	11,151.2	-6,178.0	-21.2	6,178.0	0.00	0.00	0.00
17,300.0	89.40	179.55	11,152.2	-6,278.0	-20.4	6,278.0	0.00	0.00	0.00
17,400.0	89.40	179.55	11,153.3	-6,378.0	-19.6	6,378.0	0.00	0.00	0.00
17,500.0	89.40	179.55	11,154.3	-6,478.0	-18.8	6,478.0	0.00	0.00	0.00
17,600.0	89.40	179.55	11,155.4	-6,578.0	-18.0	6,578.0	0.00	0.00	0.00
17,700.0	89.40	179.55	11,156.4	-6,678.0	-17.2	6,678.0	0.00	0.00	0.00
17,800.0	89.40	179.55	11,157.4	-6,778.0	-16.5	6,778.0	0.00	0.00	0.00
17,900.0	89.40	179.55	11,158.5	-6,878.0	-15.7	6,878.0	0.00	0.00	0.00
18,000.0	89.40	179.55	11,159.5	-6,978.0	-14.9	6,978.0	0.00	0.00	0.00
18,100.0	89.40	179.55	11,160.6	-7,078.0	-14.1	7,077.9	0.00	0.00	0.00
18,200.0	89.40	179.55	11,161.6	-7,178.0	-13.3	7,177.9	0.00	0.00	0.00
18,300.0	89.40	179.55	11,162.7	-7,277.9	-12.5	7,277.9	0.00	0.00	0.00
18,400.0	89.40	179.55	11,163.7	-7,377.9	-11.7	7,377.9	0.00	0.00	0.00
18,500.0	89.40	179.55	11,164.8	-7,477.9	-11.0	7,477.9	0.00	0.00	0.00
18,600.0	89.40	179.55	11,165.8	-7,577.9	-10.2	7,577.9	0.00	0.00	0.00
18,700.0	89.40	179.55	11,166.9	-7,677.9	-9.4	7,677.9	0.00	0.00	0.00



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Design: Plan #0.1

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TVD Reference: KB = 25' @ 3770.0usft
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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)
18,800.0	89.40	179.55	11,167.9	-7,777.9	-8.6	7,777.9	0.00	0.00	0.00
18,900.0	89.40	179.55	11,169.0	-7,877.9	-7.8	7,877.9	0.00	0.00	0.00
19,000.0	89.40	179.55	11,170.0	-7,977.9	-7.0	7,977.9	0.00	0.00	0.00
19,100.0	89.40	179.55	11,171.1	-8,077.9	-6.3	8,077.9	0.00	0.00	0.00
19,200.0	89.40	179.55	11,172.1	-8,177.9	-5.5	8,177.9	0.00	0.00	0.00
19,300.0	89.40	179.55	11,173.2	-8,277.9	-4.7	8,277.9	0.00	0.00	0.00
19,400.0	89.40	179.55	11,174.2	-8,377.9	-3.9	8,377.8	0.00	0.00	0.00
19,500.0	89.40	179.55	11,175.2	-8,477.8	-3.1	8,477.8	0.00	0.00	0.00
19,600.0	89.40	179.55	11,176.3	-8,577.8	-2.3	8,577.8	0.00	0.00	0.00
19,700.0	89.40	179.55	11,177.3	-8,677.8	-1.5	8,677.8	0.00	0.00	0.00
19,800.0	89.40	179.55	11,178.4	-8,777.8	-0.8	8,777.8	0.00	0.00	0.00
19,900.0	89.40	179.55	11,179.4	-8,877.8	0.0	8,877.8	0.00	0.00	0.00
20,000.0	89.40	179.55	11,180.5	-8,977.8	0.8	8,977.8	0.00	0.00	0.00
20,100.0	89.40	179.55	11,181.5	-9,077.8	1.6	9,077.8	0.00	0.00	0.00
20,200.0	89.40	179.55	11,182.6	-9,177.8	2.4	9,177.8	0.00	0.00	0.00
20,300.0	89.40	179.55	11,183.6	-9,277.8	3.2	9,277.8	0.00	0.00	0.00
20,400.0	89.40	179.55	11,184.7	-9,377.8	4.0	9,377.8	0.00	0.00	0.00
20,500.0	89.40	179.55	11,185.7	-9,477.8	4.7	9,477.8	0.00	0.00	0.00
20,600.0	89.40	179.55	11,186.8	-9,577.7	5.5	9,577.8	0.00	0.00	0.00
20,700.0	89.40	179.55	11,187.8	-9,677.7	6.3	9,677.7	0.00	0.00	0.00
20,800.0	89.40	179.55	11,188.9	-9,777.7	7.1	9,777.7	0.00	0.00	0.00
20,900.0	89.40	179.55	11,189.9	-9,877.7	7.9	9,877.7	0.00	0.00	0.00
21,000.0	89.40	179.55	11,191.0	-9,977.7	8.7	9,977.7	0.00	0.00	0.00
21,100.0	89.40	179.55	11,192.0	-10,077.7	9.5	10,077.7	0.00	0.00	0.00
21,169.3	89.40	179.55	11,192.7	-10,147.0	10.0	10,147.0	0.00	0.00	0.00
PBHL (Naguss 30 State Corn #501H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP (Naguss 30 State C	0.00	0.00	11,090.0	-147.0	-68.0	530,568.00	752,115.00	32° 27' 21.567 N	103° 30' 57.550 W
- plan misses target center by 38.8usft at 11177.7usft MD (11054.0 TVD, -161.0 N, -68.1 E)									
- Point									
PBHL (Naguss 30 State	0.00	0.00	11,192.7	-10,147.0	10.0	520,568.00	752,193.00	32° 25' 42.611 N	103° 30' 57.533 W
- plan hits target center									
- Point									