eog resources

Lea County, NM (NAD 83 NME)

Nautilus 16 State Com #714H

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: -0.46°
Magnetic North: 6.37°

Magnetic Field
Strength: 47788.8snT
Dip Angle: 59.91°
Date: 1/10/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.37°
To convert a Magnetic Direction to a True Direction, Add 6.83° East
To convert a True Direction to a Grid Direction, Subtract 0.46°

WELL DETAILS: #714H

3318.0
KB = 25 @ 3343.0usft

Northing	Easting	Latitude	Longitude
383084.00	808798.00	32° 3' 0.858 N	103° 28' 12.244 W

SECTION DETAILS

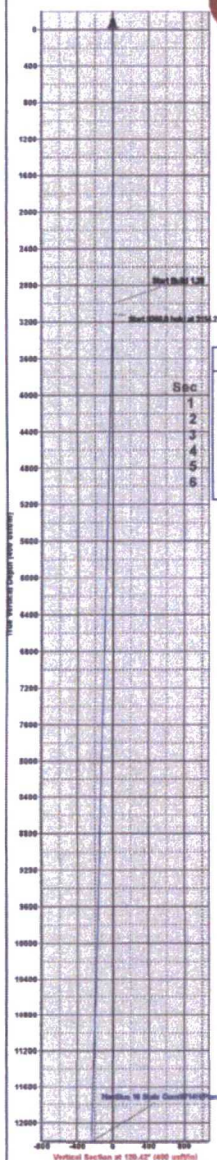
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3114.2	1.46	300.42	3114.2	0.7	-1.3	1.28	300.42	-0.7	
4	12380.2	1.46	300.42	12377.2	120.3	-204.9	0.00	0.00	-113.1	
5	13064.8	90.00	179.50	12815.0	-312.0	-210.7	13.26	-120.91	319.2	
6	17636.0	90.00	179.50	12815.0	-4883.0	-171.0	0.00	0.00	4886.0	PBHL (Nautilus 16 Fed Com #714H)

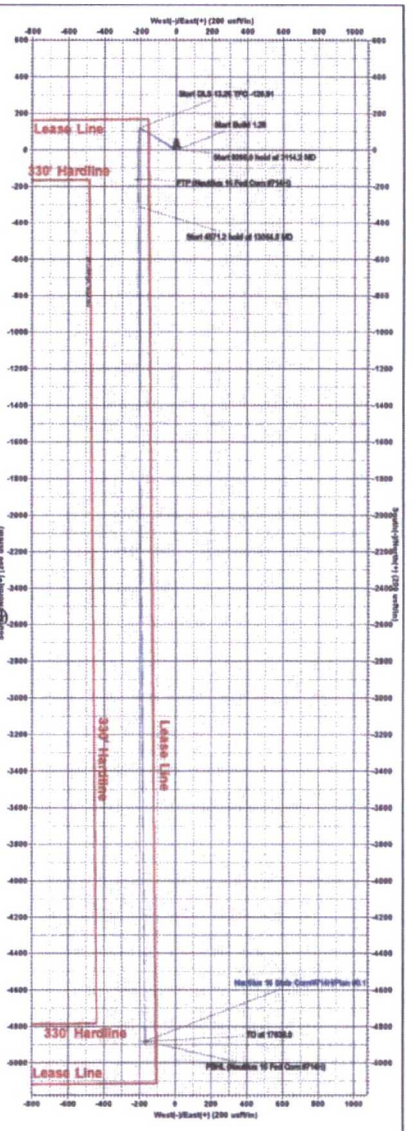
CASING DETAILS

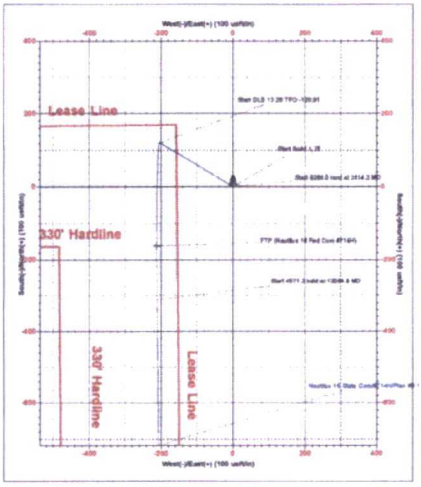
No casing data is available

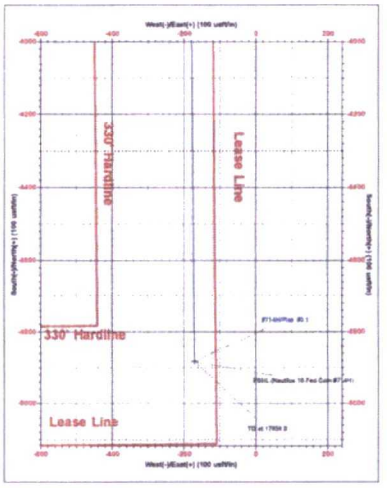
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

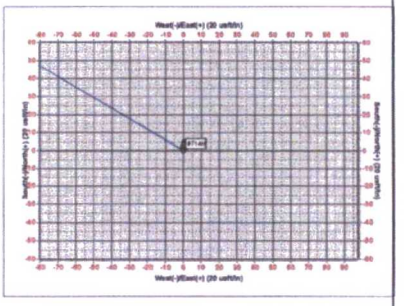
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Nautilus 16 Fed Com #714H)	12815.0	-162.0	-212.0	382922.00	808586.00
PBHL (Nautilus 16 Fed Com #714H)	12815.0	-4883.0	-171.0	378201.00	808627.00

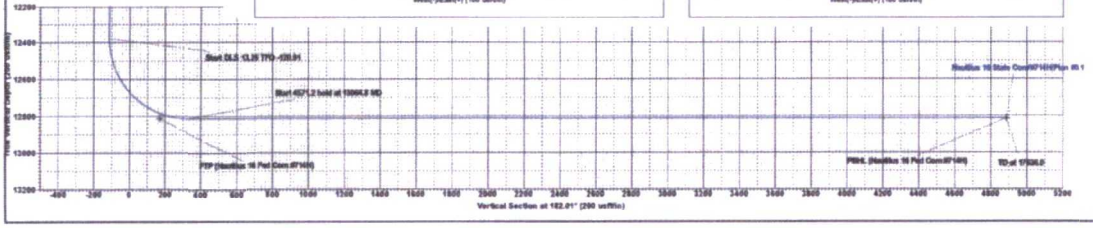












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Nautilus 16 State Com
#714H

OH

Plan: Plan #0.1

Standard Planning Report

10 January, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #714H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3343.0usft
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Nautilus 16 State Com				
Site Position:		**Northing:**	383,047.00 usft	**Latitude:**	32° 3' 0.681 N
From:	Map	**Easting:**	806,402.00 usft	**Longitude:**	103° 28' 40.085 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.45 °

Well	#714H				
Well Position	**+N/-S**	37.0 usft	**Northing:**	383,084.00 usft	**Latitude:**	32° 3' 0.858 N
	+E/-W	2,396.0 usft	**Easting:**	808,798.00 usft	**Longitude:**	103° 28' 12.244 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,318.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	1/10/2018	6.83	59.91	47,787.96691852

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	182.01

Plan Survey Tool Program **Date** 1/10/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,636.0	Plan #0.1 (OH)	MWD MWD - Standard	

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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,114.2	1.46	300.42	3,114.2	0.7	-1.3	1.28	1.28	0.00	300.42	
12,380.2	1.46	300.42	12,377.2	120.3	-204.9	0.00	0.00	0.00	0.00	
13,064.8	90.00	179.50	12,815.0	-312.0	-210.7	13.26	12.93	-17.66	-120.91	
17,636.0	90.00	179.50	12,815.0	-4,883.0	-171.0	0.00	0.00	0.00	0.00	PBHL (Nautilus 16 Fe

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #714H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3343.0usft
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**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)
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	1.28	300.42	3,100.0	0.6	-1.0	-0.5	1.28	1.28	0.00
3,114.2	1.46	300.42	3,114.2	0.7	-1.3	-0.7	1.28	1.28	0.00
3,200.0	1.46	300.42	3,200.0	1.8	-3.1	-1.7	0.00	0.00	0.00
3,300.0	1.46	300.42	3,299.9	3.1	-5.3	-2.9	0.00	0.00	0.00
3,400.0	1.46	300.42	3,399.9	4.4	-7.5	-4.2	0.00	0.00	0.00
3,500.0	1.46	300.42	3,499.9	5.7	-9.7	-5.4	0.00	0.00	0.00
3,600.0	1.46	300.42	3,599.8	7.0	-11.9	-6.6	0.00	0.00	0.00
3,700.0	1.46	300.42	3,699.8	8.3	-14.1	-7.8	0.00	0.00	0.00
3,800.0	1.46	300.42	3,799.8	9.6	-16.3	-9.0	0.00	0.00	0.00
3,900.0	1.46	300.42	3,899.7	10.9	-18.5	-10.2	0.00	0.00	0.00
4,000.0	1.46	300.42	3,999.7	12.2	-20.7	-11.4	0.00	0.00	0.00
4,100.0	1.46	300.42	4,099.7	13.5	-22.9	-12.6	0.00	0.00	0.00
4,200.0	1.46	300.42	4,199.6	14.7	-25.1	-13.9	0.00	0.00	0.00
4,300.0	1.46	300.42	4,299.6	16.0	-27.3	-15.1	0.00	0.00	0.00
4,400.0	1.46	300.42	4,399.6	17.3	-29.5	-16.3	0.00	0.00	0.00
4,500.0	1.46	300.42	4,499.5	18.6	-31.7	-17.5	0.00	0.00	0.00
4,600.0	1.46	300.42	4,599.5	19.9	-33.9	-18.7	0.00	0.00	0.00
4,700.0	1.46	300.42	4,699.5	21.2	-36.1	-19.9	0.00	0.00	0.00
4,800.0	1.46	300.42	4,799.4	22.5	-38.3	-21.1	0.00	0.00	0.00
4,900.0	1.46	300.42	4,899.4	23.8	-40.5	-22.3	0.00	0.00	0.00
5,000.0	1.46	300.42	4,999.4	25.1	-42.7	-23.6	0.00	0.00	0.00
5,100.0	1.46	300.42	5,099.3	26.4	-44.9	-24.8	0.00	0.00	0.00
5,200.0	1.46	300.42	5,199.3	27.7	-47.1	-26.0	0.00	0.00	0.00

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Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**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	1.46	300.42	5,299.3	28.9	-49.3	-27.2	0.00	0.00	0.00
5,400.0	1.46	300.42	5,399.2	30.2	-51.5	-28.4	0.00	0.00	0.00
5,500.0	1.46	300.42	5,499.2	31.5	-53.7	-29.6	0.00	0.00	0.00
5,600.0	1.46	300.42	5,599.2	32.8	-55.9	-30.8	0.00	0.00	0.00
5,700.0	1.46	300.42	5,699.1	34.1	-58.1	-32.0	0.00	0.00	0.00
5,800.0	1.46	300.42	5,799.1	35.4	-60.3	-33.3	0.00	0.00	0.00
5,900.0	1.46	300.42	5,899.1	36.7	-62.5	-34.5	0.00	0.00	0.00
6,000.0	1.46	300.42	5,999.1	38.0	-64.7	-35.7	0.00	0.00	0.00
6,100.0	1.46	300.42	6,099.0	39.3	-66.9	-36.9	0.00	0.00	0.00
6,200.0	1.46	300.42	6,199.0	40.6	-69.1	-38.1	0.00	0.00	0.00
6,300.0	1.46	300.42	6,299.0	41.8	-71.3	-39.3	0.00	0.00	0.00
6,400.0	1.46	300.42	6,398.9	43.1	-73.5	-40.5	0.00	0.00	0.00
6,500.0	1.46	300.42	6,498.9	44.4	-75.7	-41.8	0.00	0.00	0.00
6,600.0	1.46	300.42	6,598.9	45.7	-77.9	-43.0	0.00	0.00	0.00
6,700.0	1.46	300.42	6,698.8	47.0	-80.1	-44.2	0.00	0.00	0.00
6,800.0	1.46	300.42	6,798.8	48.3	-82.3	-45.4	0.00	0.00	0.00
6,900.0	1.46	300.42	6,898.8	49.6	-84.4	-46.6	0.00	0.00	0.00
7,000.0	1.46	300.42	6,998.7	50.9	-86.6	-47.8	0.00	0.00	0.00
7,100.0	1.46	300.42	7,098.7	52.2	-88.8	-49.0	0.00	0.00	0.00
7,200.0	1.46	300.42	7,198.7	53.5	-91.0	-50.2	0.00	0.00	0.00
7,300.0	1.46	300.42	7,298.6	54.7	-93.2	-51.5	0.00	0.00	0.00
7,400.0	1.46	300.42	7,398.6	56.0	-95.4	-52.7	0.00	0.00	0.00
7,500.0	1.46	300.42	7,498.6	57.3	-97.6	-53.9	0.00	0.00	0.00
7,600.0	1.46	300.42	7,598.5	58.6	-99.8	-55.1	0.00	0.00	0.00
7,700.0	1.46	300.42	7,698.5	59.9	-102.0	-56.3	0.00	0.00	0.00
7,800.0	1.46	300.42	7,798.5	61.2	-104.2	-57.5	0.00	0.00	0.00
7,900.0	1.46	300.42	7,898.4	62.5	-106.4	-58.7	0.00	0.00	0.00
8,000.0	1.46	300.42	7,998.4	63.8	-108.6	-59.9	0.00	0.00	0.00
8,100.0	1.46	300.42	8,098.4	65.1	-110.8	-61.2	0.00	0.00	0.00
8,200.0	1.46	300.42	8,198.3	66.4	-113.0	-62.4	0.00	0.00	0.00
8,300.0	1.46	300.42	8,298.3	67.7	-115.2	-63.6	0.00	0.00	0.00
8,400.0	1.46	300.42	8,398.3	68.9	-117.4	-64.8	0.00	0.00	0.00
8,500.0	1.46	300.42	8,498.2	70.2	-119.6	-66.0	0.00	0.00	0.00
8,600.0	1.46	300.42	8,598.2	71.5	-121.8	-67.2	0.00	0.00	0.00
8,700.0	1.46	300.42	8,698.2	72.8	-124.0	-68.4	0.00	0.00	0.00
8,800.0	1.46	300.42	8,798.1	74.1	-126.2	-69.6	0.00	0.00	0.00
8,900.0	1.46	300.42	8,898.1	75.4	-128.4	-70.9	0.00	0.00	0.00
9,000.0	1.46	300.42	8,998.1	76.7	-130.6	-72.1	0.00	0.00	0.00
9,100.0	1.46	300.42	9,098.0	78.0	-132.8	-73.3	0.00	0.00	0.00
9,200.0	1.46	300.42	9,198.0	79.3	-135.0	-74.5	0.00	0.00	0.00
9,300.0	1.46	300.42	9,298.0	80.6	-137.2	-75.7	0.00	0.00	0.00
9,400.0	1.46	300.42	9,397.9	81.8	-139.4	-76.9	0.00	0.00	0.00
9,500.0	1.46	300.42	9,497.9	83.1	-141.6	-78.1	0.00	0.00	0.00
9,600.0	1.46	300.42	9,597.9	84.4	-143.8	-79.3	0.00	0.00	0.00
9,700.0	1.46	300.42	9,697.8	85.7	-146.0	-80.6	0.00	0.00	0.00
9,800.0	1.46	300.42	9,797.8	87.0	-148.2	-81.8	0.00	0.00	0.00
9,900.0	1.46	300.42	9,897.8	88.3	-150.4	-83.0	0.00	0.00	0.00
10,000.0	1.46	300.42	9,997.8	89.6	-152.6	-84.2	0.00	0.00	0.00
10,100.0	1.46	300.42	10,097.7	90.9	-154.8	-85.4	0.00	0.00	0.00
10,200.0	1.46	300.42	10,197.7	92.2	-157.0	-86.6	0.00	0.00	0.00
10,300.0	1.46	300.42	10,297.7	93.5	-159.2	-87.8	0.00	0.00	0.00
10,400.0	1.46	300.42	10,397.6	94.7	-161.4	-89.0	0.00	0.00	0.00
10,500.0	1.46	300.42	10,497.6	96.0	-163.6	-90.3	0.00	0.00	0.00
10,600.0	1.46	300.42	10,597.6	97.3	-165.8	-91.5	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #714H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3343.0usft
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**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)
10,700.0	1.46	300.42	10,697.5	98.6	-168.0	-92.7	0.00	0.00	0.00
10,800.0	1.46	300.42	10,797.5	99.9	-170.2	-93.9	0.00	0.00	0.00
10,900.0	1.46	300.42	10,897.5	101.2	-172.3	-95.1	0.00	0.00	0.00
11,000.0	1.46	300.42	10,997.4	102.5	-174.5	-96.3	0.00	0.00	0.00
11,100.0	1.46	300.42	11,097.4	103.8	-176.7	-97.5	0.00	0.00	0.00
11,200.0	1.46	300.42	11,197.4	105.1	-178.9	-98.7	0.00	0.00	0.00
11,300.0	1.46	300.42	11,297.3	106.4	-181.1	-100.0	0.00	0.00	0.00
11,400.0	1.46	300.42	11,397.3	107.7	-183.3	-101.2	0.00	0.00	0.00
11,500.0	1.46	300.42	11,497.3	108.9	-185.5	-102.4	0.00	0.00	0.00
11,600.0	1.46	300.42	11,597.2	110.2	-187.7	-103.6	0.00	0.00	0.00
11,700.0	1.46	300.42	11,697.2	111.5	-189.9	-104.8	0.00	0.00	0.00
11,800.0	1.46	300.42	11,797.2	112.8	-192.1	-106.0	0.00	0.00	0.00
11,900.0	1.46	300.42	11,897.1	114.1	-194.3	-107.2	0.00	0.00	0.00
12,000.0	1.46	300.42	11,997.1	115.4	-196.5	-108.4	0.00	0.00	0.00
12,100.0	1.46	300.42	12,097.1	116.7	-198.7	-109.7	0.00	0.00	0.00
12,200.0	1.46	300.42	12,197.0	118.0	-200.9	-110.9	0.00	0.00	0.00
12,300.0	1.46	300.42	12,297.0	119.3	-203.1	-112.1	0.00	0.00	0.00
12,380.2	1.46	300.42	12,377.2	120.3	-204.9	-113.1	0.00	0.00	0.00
12,400.0	2.25	213.29	12,397.0	120.1	-205.3	-112.8	13.26	4.00	-440.56
12,425.0	5.33	193.05	12,421.9	118.6	-205.8	-111.3	13.26	12.33	-80.98
12,450.0	8.59	187.83	12,446.7	115.6	-206.4	-108.3	13.26	13.02	-20.89
12,475.0	11.88	185.47	12,471.3	111.2	-206.9	-103.9	13.26	13.15	-9.42
12,500.0	15.18	184.13	12,495.6	105.3	-207.3	-98.0	13.26	13.20	-5.38
12,525.0	18.48	183.25	12,519.6	98.1	-207.8	-90.8	13.26	13.22	-3.49
12,550.0	21.79	182.64	12,543.0	89.5	-208.2	-82.2	13.26	13.23	-2.46
12,575.0	25.10	182.18	12,566.0	79.6	-208.7	-72.2	13.26	13.24	-1.84
12,600.0	28.41	181.82	12,588.3	68.3	-209.0	-61.0	13.26	13.24	-1.44
12,625.0	31.72	181.53	12,609.9	55.8	-209.4	-48.5	13.26	13.24	-1.16
12,650.0	35.03	181.29	12,630.8	42.1	-209.7	-34.7	13.26	13.24	-0.96
12,675.0	38.34	181.09	12,650.8	27.1	-210.1	-19.8	13.26	13.25	-0.81
12,700.0	41.65	180.91	12,670.0	11.1	-210.3	-3.7	13.26	13.25	-0.70
12,725.0	44.97	180.76	12,688.2	-6.1	-210.6	13.4	13.26	13.25	-0.62
12,750.0	48.28	180.62	12,705.3	-24.2	-210.8	31.6	13.26	13.25	-0.55
12,775.0	51.59	180.50	12,721.4	-43.4	-211.0	50.7	13.26	13.25	-0.50
12,800.0	54.90	180.38	12,736.4	-63.4	-211.1	70.7	13.26	13.25	-0.45
12,825.0	58.22	180.28	12,750.2	-84.2	-211.3	91.6	13.26	13.25	-0.42
12,850.0	61.53	180.18	12,762.7	-105.9	-211.3	113.2	13.26	13.25	-0.39
12,875.0	64.84	180.09	12,774.0	-128.2	-211.4	135.5	13.26	13.25	-0.36
12,900.0	68.15	180.00	12,784.0	-151.1	-211.4	158.4	13.26	13.25	-0.34
12,921.0	70.93	179.94	12,791.3	-170.7	-211.4	178.0	13.26	13.25	-0.33
FTP (Nautilus 16 Fed Com #714H)									
12,925.0	71.47	179.92	12,792.6	-174.6	-211.4	181.8	13.26	13.25	-0.32
12,950.0	74.78	179.84	12,799.8	-198.5	-211.4	205.7	13.26	13.25	-0.32
12,975.0	78.09	179.77	12,805.7	-222.8	-211.3	230.0	13.26	13.25	-0.31
13,000.0	81.41	179.69	12,810.1	-247.4	-211.2	254.6	13.26	13.25	-0.30
13,025.0	84.72	179.62	12,813.2	-272.2	-211.0	279.4	13.26	13.25	-0.29
13,050.0	88.03	179.55	12,814.7	-297.1	-210.8	304.3	13.26	13.25	-0.29
13,064.8	90.00	179.50	12,815.0	-312.0	-210.7	319.2	13.26	13.25	-0.29
13,100.0	90.00	179.50	12,815.0	-347.1	-210.4	354.3	0.00	0.00	0.00
13,200.0	90.00	179.50	12,815.0	-447.1	-209.5	454.2	0.00	0.00	0.00
13,300.0	90.00	179.50	12,815.0	-547.1	-208.7	554.1	0.00	0.00	0.00
13,400.0	90.00	179.50	12,815.0	-647.1	-207.8	654.0	0.00	0.00	0.00
13,500.0	90.00	179.50	12,815.0	-747.1	-206.9	753.9	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #714H
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Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3343.0usft
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**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)
13,600.0	90.00	179.50	12,815.0	-847.1	-206.1	853.8	0.00	0.00	0.00
13,700.0	90.00	179.50	12,815.0	-947.1	-205.2	953.7	0.00	0.00	0.00
13,800.0	90.00	179.50	12,815.0	-1,047.1	-204.3	1,053.6	0.00	0.00	0.00
13,900.0	90.00	179.50	12,815.0	-1,147.1	-203.4	1,153.5	0.00	0.00	0.00
14,000.0	90.00	179.50	12,815.0	-1,247.1	-202.6	1,253.4	0.00	0.00	0.00
14,100.0	90.00	179.50	12,815.0	-1,347.1	-201.7	1,353.3	0.00	0.00	0.00
14,200.0	90.00	179.50	12,815.0	-1,447.1	-200.8	1,453.2	0.00	0.00	0.00
14,300.0	90.00	179.50	12,815.0	-1,547.1	-200.0	1,553.1	0.00	0.00	0.00
14,400.0	90.00	179.50	12,815.0	-1,647.1	-199.1	1,653.0	0.00	0.00	0.00
14,500.0	90.00	179.50	12,815.0	-1,747.1	-198.2	1,752.9	0.00	0.00	0.00
14,600.0	90.00	179.50	12,815.0	-1,847.1	-197.4	1,852.8	0.00	0.00	0.00
14,700.0	90.00	179.50	12,815.0	-1,947.1	-196.5	1,952.7	0.00	0.00	0.00
14,800.0	90.00	179.50	12,815.0	-2,047.1	-195.6	2,052.7	0.00	0.00	0.00
14,900.0	90.00	179.50	12,815.0	-2,147.1	-194.8	2,152.6	0.00	0.00	0.00
15,000.0	90.00	179.50	12,815.0	-2,247.1	-193.9	2,252.5	0.00	0.00	0.00
15,100.0	90.00	179.50	12,815.0	-2,347.0	-193.0	2,352.4	0.00	0.00	0.00
15,200.0	90.00	179.50	12,815.0	-2,447.0	-192.2	2,452.3	0.00	0.00	0.00
15,300.0	90.00	179.50	12,815.0	-2,547.0	-191.3	2,552.2	0.00	0.00	0.00
15,400.0	90.00	179.50	12,815.0	-2,647.0	-190.4	2,652.1	0.00	0.00	0.00
15,500.0	90.00	179.50	12,815.0	-2,747.0	-189.6	2,752.0	0.00	0.00	0.00
15,600.0	90.00	179.50	12,815.0	-2,847.0	-188.7	2,851.9	0.00	0.00	0.00
15,700.0	90.00	179.50	12,815.0	-2,947.0	-187.8	2,951.8	0.00	0.00	0.00
15,800.0	90.00	179.50	12,815.0	-3,047.0	-186.9	3,051.7	0.00	0.00	0.00
15,900.0	90.00	179.50	12,815.0	-3,147.0	-186.1	3,151.6	0.00	0.00	0.00
16,000.0	90.00	179.50	12,815.0	-3,247.0	-185.2	3,251.5	0.00	0.00	0.00
16,100.0	90.00	179.50	12,815.0	-3,347.0	-184.3	3,351.4	0.00	0.00	0.00
16,200.0	90.00	179.50	12,815.0	-3,447.0	-183.5	3,451.3	0.00	0.00	0.00
16,300.0	90.00	179.50	12,815.0	-3,547.0	-182.6	3,551.2	0.00	0.00	0.00
16,400.0	90.00	179.50	12,815.0	-3,647.0	-181.7	3,651.1	0.00	0.00	0.00
16,500.0	90.00	179.50	12,815.0	-3,747.0	-180.9	3,751.0	0.00	0.00	0.00
16,600.0	90.00	179.50	12,815.0	-3,847.0	-180.0	3,850.9	0.00	0.00	0.00
16,700.0	90.00	179.50	12,815.0	-3,947.0	-179.1	3,950.8	0.00	0.00	0.00
16,800.0	90.00	179.50	12,815.0	-4,047.0	-178.3	4,050.7	0.00	0.00	0.00
16,900.0	90.00	179.50	12,815.0	-4,147.0	-177.4	4,150.6	0.00	0.00	0.00
17,000.0	90.00	179.50	12,815.0	-4,247.0	-176.5	4,250.6	0.00	0.00	0.00
17,100.0	90.00	179.50	12,815.0	-4,347.0	-175.7	4,350.5	0.00	0.00	0.00
17,200.0	90.00	179.50	12,815.0	-4,447.0	-174.8	4,450.4	0.00	0.00	0.00
17,300.0	90.00	179.50	12,815.0	-4,547.0	-173.9	4,550.3	0.00	0.00	0.00
17,400.0	90.00	179.50	12,815.0	-4,647.0	-173.0	4,650.2	0.00	0.00	0.00
17,500.0	90.00	179.50	12,815.0	-4,747.0	-172.2	4,750.1	0.00	0.00	0.00
17,600.0	90.00	179.50	12,815.0	-4,847.0	-171.3	4,850.0	0.00	0.00	0.00
17,636.0	90.00	179.50	12,815.0	-4,883.0	-171.0	4,886.0	0.00	0.00	0.00
PBHL (Nautilus 16 Fed Com #714H)									

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #714H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3343.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3343.0usft
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#714H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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 (Nautilus 16 Fed (- plan hits target center - Point	0.00	0.00	12,815.0	-4,883.0	-171.0	378,201.00	808,627.00	32° 2' 12.553 N	103° 28' 14.683 W
FTP (Nautilus 16 Fed Cc - plan misses target center by 25.3usft at 12921.0usft MD (12791.3 TVD, -170.7 N, -211.4 E) - Point	0.00	0.00	12,815.0	-162.0	-212.0	382,922.00	808,586.00	32° 2' 59.272 N	103° 28' 14.722 W