30-025-42491

Permit Information:

Well Name: Nautilus 16 State Com No. 201H

Location:

SL: 230' FNL & 850' FEL, Section 16, T-26-S, R-34-E, Lea Co., N.M.
BHL: 230' FSL & 380' FEL, Section 16, T-26-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
17.5"	0 – 840'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' – 5200'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-14,995'	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
840'	575	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)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,200'	1325	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
14,995'	150	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1
	550	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1200	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 840'	Fresh - Gel	8.6-8.8	28-34	N/c
840' – 5,200'	Brine	10.0-10.2	28-34	N/c
5,200' – 9,646'	Cut Brine	8.4-9.0	28-34	N/c
KOP – 14,995' Lateral	Cut Brine	9.0-9.5	40-42	8-10

MAY 22 2015

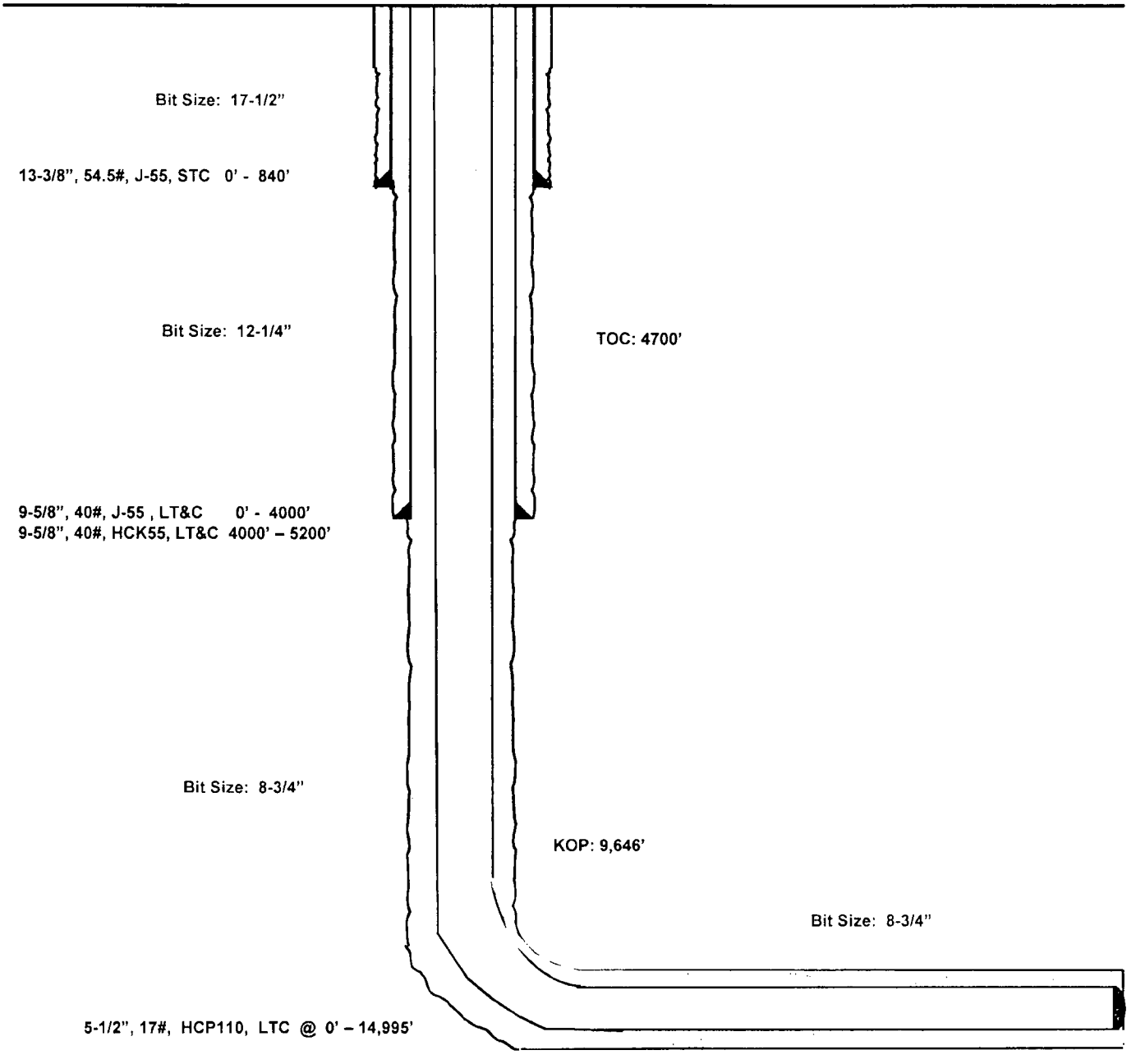
Nautilus 16 State Com #201H
Red Hills
Lea County, New Mexico

230' FNL
850' FEL
Section 16
T-26-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,341'
GL: 3,316'



Lateral: 14,995' MD, 10,220' TVD

BH Location: 230' FSL & 380' FEL
Section 16
T-26-S, R-34-E

eog resources

Lea County, NM (NAD 27 NME)

Nautilus 16 State Com #201H

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: -0.46°
Magnetic North: 6.88°

Magnetic Field
Strength: 48075.1nT
Dip Angle: 59.95°
Date: 3/26/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.88°
To convert a Magnetic Direction to a True Direction, Add 7.13° East
To convert a True Direction to a Grid Direction, Subtract 0.46°

WELL DETAILS: #201H

Ground Level: 3316.0
KB = 25 @ 3341.0usft (H&P 415)

Northing	Easting	Latitude	Longitude
382870.00	767927.00	32° 2' 59.820 N	103° 28' 8.899 W

SECTION DETAILS

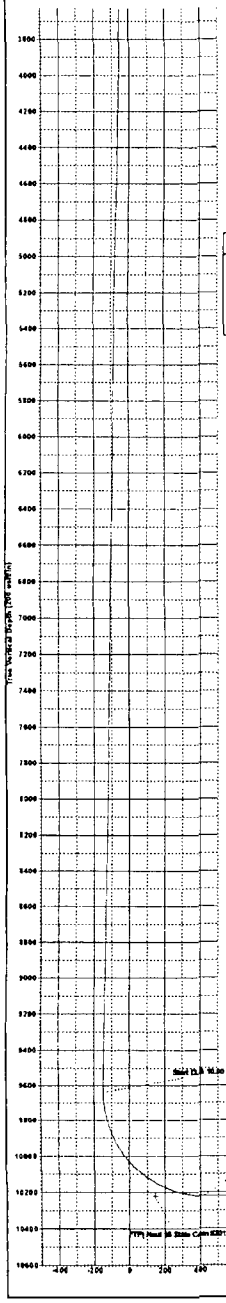
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	210.1	2.10	59.04	210.1	2.0	3.3	1.00	59.04	-1.6		
3	9646.5	2.10	59.04	9640.1	180.0	300.0	0.00	0.00	-147.3		
4	10563.7	90.00	169.20	10220.0	-379.0	427.0	10.00	110.15	422.0		
5	11068.6	90.00	179.50	10220.0	-890.7	477.6	2.00	90.00	936.2		
6	14895.1	90.00	179.50	10220.0	-4817.0	512.0	0.00	0.00	4844.1	PBHL(Naut 16 State Com #201H)	

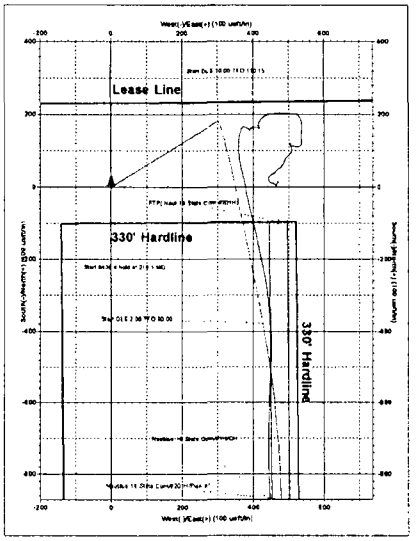
CASING DETAILS

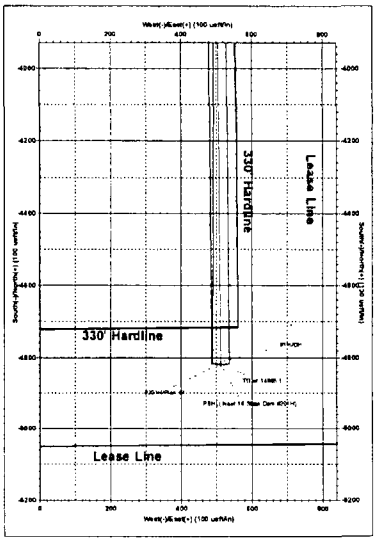
No casing data is available

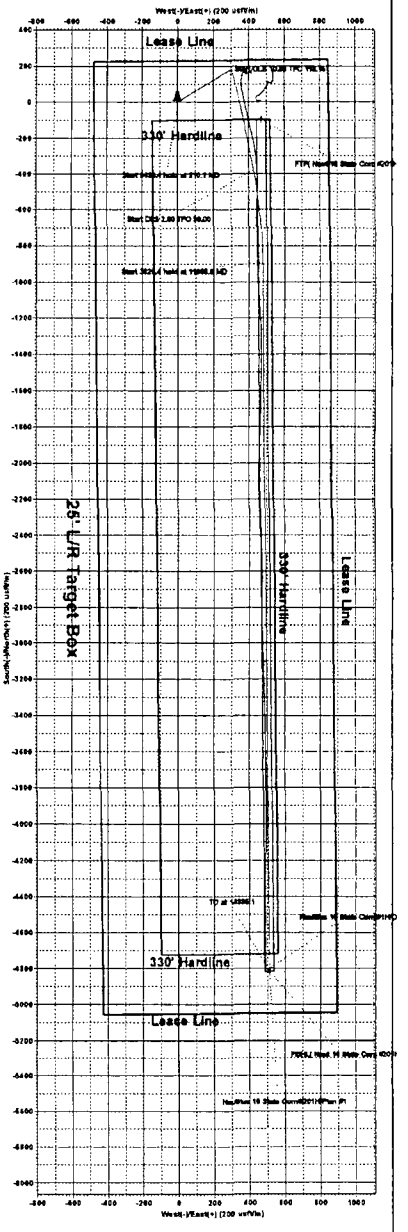
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

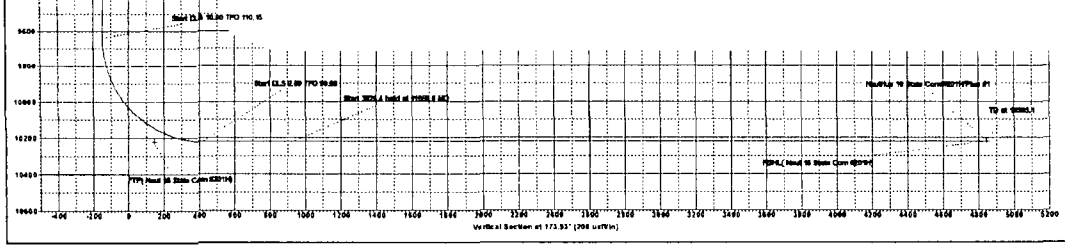
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(Naut 16 State Com #201H)	10220.0	-96.0	471.0	382874.00	768398.00
PBHL(Naut 16 State Com #201H)	10220.0	-4817.0	512.0	378163.00	768439.00











EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Nautilus 16 State Com
#201H

OH

Plan: Plan #1

Standard Planning Report

26 March, 2015

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #201H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#201H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	Nautilus 16 State Com				
Site Position:		**Northing:**	382,984.00 usft	**Latitude:**	32° 2' 59.921 N
From:	Map	**Easting:**	768,397.00 usft	**Longitude:**	103° 28' 1.438 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.46 °

Well	#201H					
Well Position	**+N/-S**	-14.0 usft	**Northing:**	382,970.00 usft	**Latitude:**	32° 2' 59.820 N
	+E/-W	-470.0 usft	**Easting:**	767,927.00 usft	**Longitude:**	103° 28' 6.899 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,316.0 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	3/26/2015	7.13	59.95	48,075

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	173.93	

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	
210.1	2.10	59.04	210.1	2.0	3.3	1.00	1.00	28.09	59.04	
9,646.5	2.10	59.04	9,640.1	180.0	300.0	0.00	0.00	0.00	0.00	
10,553.7	90.00	169.20	10,220.0	-379.0	427.0	10.00	9.69	12.14	110.15	
11,068.6	90.00	179.50	10,220.0	-890.7	477.6	2.00	0.00	2.00	90.00	
14,995.1	90.00	179.50	10,220.0	-4,817.0	512.0	0.00	0.00	0.00	0.00	PBHL(Naut 16 State

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #201H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#201H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	1.00	59.04	100.0	0.4	0.7	-0.4	1.00	1.00	0.00
200.0	2.00	59.04	200.0	1.8	3.0	-1.5	1.00	1.00	0.00
210.1	2.10	59.04	210.1	2.0	3.3	-1.6	1.00	1.00	0.00
300.0	2.10	59.04	299.9	3.7	6.1	-3.0	0.00	0.00	0.00
400.0	2.10	59.04	399.8	5.6	9.3	-4.6	0.00	0.00	0.00
500.0	2.10	59.04	499.8	7.5	12.4	-6.1	0.00	0.00	0.00
600.0	2.10	59.04	599.7	9.3	15.6	-7.6	0.00	0.00	0.00
700.0	2.10	59.04	699.6	11.2	18.7	-9.2	0.00	0.00	0.00
800.0	2.10	59.04	799.6	13.1	21.9	-10.7	0.00	0.00	0.00
900.0	2.10	59.04	899.5	15.0	25.0	-12.3	0.00	0.00	0.00
1,000.0	2.10	59.04	999.4	16.9	28.1	-13.8	0.00	0.00	0.00
1,100.0	2.10	59.04	1,099.4	18.8	31.3	-15.4	0.00	0.00	0.00
1,200.0	2.10	59.04	1,199.3	20.7	34.4	-16.9	0.00	0.00	0.00
1,300.0	2.10	59.04	1,299.2	22.5	37.6	-18.4	0.00	0.00	0.00
1,400.0	2.10	59.04	1,399.2	24.4	40.7	-20.0	0.00	0.00	0.00
1,500.0	2.10	59.04	1,499.1	26.3	43.9	-21.5	0.00	0.00	0.00
1,600.0	2.10	59.04	1,599.0	28.2	47.0	-23.1	0.00	0.00	0.00
1,700.0	2.10	59.04	1,699.0	30.1	50.1	-24.6	0.00	0.00	0.00
1,800.0	2.10	59.04	1,798.9	32.0	53.3	-26.2	0.00	0.00	0.00
1,900.0	2.10	59.04	1,898.8	33.9	56.4	-27.7	0.00	0.00	0.00
2,000.0	2.10	59.04	1,998.7	35.7	59.6	-29.3	0.00	0.00	0.00
2,100.0	2.10	59.04	2,098.7	37.6	62.7	-30.8	0.00	0.00	0.00
2,200.0	2.10	59.04	2,198.6	39.5	65.9	-32.3	0.00	0.00	0.00
2,300.0	2.10	59.04	2,298.5	41.4	69.0	-33.9	0.00	0.00	0.00
2,400.0	2.10	59.04	2,398.5	43.3	72.2	-35.4	0.00	0.00	0.00
2,500.0	2.10	59.04	2,498.4	45.2	75.3	-37.0	0.00	0.00	0.00
2,600.0	2.10	59.04	2,598.3	47.1	78.4	-38.5	0.00	0.00	0.00
2,700.0	2.10	59.04	2,698.3	49.0	81.6	-40.1	0.00	0.00	0.00
2,800.0	2.10	59.04	2,798.2	50.8	84.7	-41.6	0.00	0.00	0.00
2,900.0	2.10	59.04	2,898.1	52.7	87.9	-43.1	0.00	0.00	0.00
3,000.0	2.10	59.04	2,998.1	54.6	91.0	-44.7	0.00	0.00	0.00
3,100.0	2.10	59.04	3,098.0	56.5	94.2	-46.2	0.00	0.00	0.00
3,200.0	2.10	59.04	3,197.9	58.4	97.3	-47.8	0.00	0.00	0.00
3,300.0	2.10	59.04	3,297.9	60.3	100.5	-49.3	0.00	0.00	0.00
3,400.0	2.10	59.04	3,397.8	62.2	103.6	-50.9	0.00	0.00	0.00
3,500.0	2.10	59.04	3,497.7	64.0	106.7	-52.4	0.00	0.00	0.00
3,600.0	2.10	59.04	3,597.7	65.9	109.9	-54.0	0.00	0.00	0.00
3,700.0	2.10	59.04	3,697.6	67.8	113.0	-55.5	0.00	0.00	0.00
3,800.0	2.10	59.04	3,797.5	69.7	116.2	-57.0	0.00	0.00	0.00
3,900.0	2.10	59.04	3,897.5	71.6	119.3	-58.6	0.00	0.00	0.00
4,000.0	2.10	59.04	3,997.4	73.5	122.5	-60.1	0.00	0.00	0.00
4,100.0	2.10	59.04	4,097.3	75.4	125.6	-61.7	0.00	0.00	0.00
4,200.0	2.10	59.04	4,197.3	77.3	128.8	-63.2	0.00	0.00	0.00
4,300.0	2.10	59.04	4,297.2	79.1	131.9	-64.8	0.00	0.00	0.00
4,400.0	2.10	59.04	4,397.1	81.0	135.0	-66.3	0.00	0.00	0.00
4,500.0	2.10	59.04	4,497.1	82.9	138.2	-67.8	0.00	0.00	0.00
4,600.0	2.10	59.04	4,597.0	84.8	141.3	-69.4	0.00	0.00	0.00
4,700.0	2.10	59.04	4,696.9	86.7	144.5	-70.9	0.00	0.00	0.00
4,800.0	2.10	59.04	4,796.9	88.6	147.6	-72.5	0.00	0.00	0.00
4,900.0	2.10	59.04	4,896.8	90.5	150.8	-74.0	0.00	0.00	0.00
5,000.0	2.10	59.04	4,996.7	92.3	153.9	-75.6	0.00	0.00	0.00
5,100.0	2.10	59.04	5,096.7	94.2	157.1	-77.1	0.00	0.00	0.00
5,200.0	2.10	59.04	5,196.6	96.1	160.2	-78.6	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #201H
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Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#201H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	2.10	59.04	5,296.5	98.0	163.3	-80.2	0.00	0.00	0.00
5,400.0	2.10	59.04	5,396.5	99.9	166.5	-81.7	0.00	0.00	0.00
5,500.0	2.10	59.04	5,496.4	101.8	169.6	-83.3	0.00	0.00	0.00
5,600.0	2.10	59.04	5,596.3	103.7	172.8	-84.8	0.00	0.00	0.00
5,700.0	2.10	59.04	5,696.3	105.5	175.9	-86.4	0.00	0.00	0.00
5,800.0	2.10	59.04	5,796.2	107.4	179.1	-87.9	0.00	0.00	0.00
5,900.0	2.10	59.04	5,896.1	109.3	182.2	-89.5	0.00	0.00	0.00
6,000.0	2.10	59.04	5,996.1	111.2	185.3	-91.0	0.00	0.00	0.00
6,100.0	2.10	59.04	6,096.0	113.1	188.5	-92.5	0.00	0.00	0.00
6,200.0	2.10	59.04	6,195.9	115.0	191.6	-94.1	0.00	0.00	0.00
6,300.0	2.10	59.04	6,295.9	116.9	194.8	-95.6	0.00	0.00	0.00
6,400.0	2.10	59.04	6,395.8	118.8	197.9	-97.2	0.00	0.00	0.00
6,500.0	2.10	59.04	6,495.7	120.6	201.1	-98.7	0.00	0.00	0.00
6,600.0	2.10	59.04	6,595.7	122.5	204.2	-100.3	0.00	0.00	0.00
6,700.0	2.10	59.04	6,695.6	124.4	207.4	-101.8	0.00	0.00	0.00
6,800.0	2.10	59.04	6,795.5	126.3	210.5	-103.3	0.00	0.00	0.00
6,900.0	2.10	59.04	6,895.5	128.2	213.6	-104.9	0.00	0.00	0.00
7,000.0	2.10	59.04	6,995.4	130.1	216.8	-106.4	0.00	0.00	0.00
7,100.0	2.10	59.04	7,095.3	132.0	219.9	-108.0	0.00	0.00	0.00
7,200.0	2.10	59.04	7,195.3	133.8	223.1	-109.5	0.00	0.00	0.00
7,300.0	2.10	59.04	7,295.2	135.7	226.2	-111.1	0.00	0.00	0.00
7,400.0	2.10	59.04	7,395.1	137.6	229.4	-112.6	0.00	0.00	0.00
7,500.0	2.10	59.04	7,495.1	139.5	232.5	-114.2	0.00	0.00	0.00
7,600.0	2.10	59.04	7,595.0	141.4	235.7	-115.7	0.00	0.00	0.00
7,700.0	2.10	59.04	7,694.9	143.3	238.8	-117.2	0.00	0.00	0.00
7,800.0	2.10	59.04	7,794.8	145.2	241.9	-118.8	0.00	0.00	0.00
7,900.0	2.10	59.04	7,894.8	147.1	245.1	-120.3	0.00	0.00	0.00
8,000.0	2.10	59.04	7,994.7	148.9	248.2	-121.9	0.00	0.00	0.00
8,100.0	2.10	59.04	8,094.6	150.8	251.4	-123.4	0.00	0.00	0.00
8,200.0	2.10	59.04	8,194.6	152.7	254.5	-125.0	0.00	0.00	0.00
8,300.0	2.10	59.04	8,294.5	154.6	257.7	-126.5	0.00	0.00	0.00
8,400.0	2.10	59.04	8,394.4	156.5	260.8	-128.0	0.00	0.00	0.00
8,500.0	2.10	59.04	8,494.4	158.4	264.0	-129.6	0.00	0.00	0.00
8,600.0	2.10	59.04	8,594.3	160.3	267.1	-131.1	0.00	0.00	0.00
8,700.0	2.10	59.04	8,694.2	162.1	270.2	-132.7	0.00	0.00	0.00
8,800.0	2.10	59.04	8,794.2	164.0	273.4	-134.2	0.00	0.00	0.00
8,900.0	2.10	59.04	8,894.1	165.9	276.5	-135.8	0.00	0.00	0.00
9,000.0	2.10	59.04	8,994.0	167.8	279.7	-137.3	0.00	0.00	0.00
9,100.0	2.10	59.04	9,094.0	169.7	282.8	-138.9	0.00	0.00	0.00
9,200.0	2.10	59.04	9,193.9	171.6	286.0	-140.4	0.00	0.00	0.00
9,300.0	2.10	59.04	9,293.8	173.5	289.1	-141.9	0.00	0.00	0.00
9,400.0	2.10	59.04	9,393.8	175.3	292.2	-143.5	0.00	0.00	0.00
9,500.0	2.10	59.04	9,493.7	177.2	295.4	-145.0	0.00	0.00	0.00
9,600.0	2.10	59.04	9,593.6	179.1	298.5	-146.6	0.00	0.00	0.00
9,646.5	2.10	59.04	9,640.1	180.0	300.0	-147.3	0.00	0.00	0.00
9,650.0	2.01	68.48	9,643.6	180.1	300.1	-147.3	10.00	-2.67	269.18
9,700.0	5.03	146.16	9,693.5	178.6	302.1	-145.6	10.00	6.04	155.36
9,750.0	9.82	157.73	9,743.1	172.8	305.0	-139.6	10.00	9.59	23.14
9,800.0	14.76	161.69	9,791.9	162.8	308.6	-129.3	10.00	9.86	7.92
9,850.0	19.72	163.69	9,839.7	148.6	313.0	-114.7	10.00	9.93	4.00
9,900.0	24.70	164.91	9,885.9	130.4	318.1	-96.1	10.00	9.96	2.44
9,950.0	29.69	165.74	9,930.4	108.3	323.8	-73.5	10.00	9.97	1.66
10,000.0	34.68	166.35	9,972.7	82.5	330.3	-47.1	10.00	9.98	1.22
10,050.0	39.67	166.82	10,012.5	53.1	337.3	-17.2	10.00	9.98	0.95

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #201H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#201H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
10,100.0	44.66	167.20	10,049.6	20.4	344.8	16.1	10.00	9.99	0.77
10,150.0	49.66	167.52	10,083.6	-15.3	352.8	52.5	10.00	9.99	0.64
10,200.0	54.65	167.80	10,114.2	-53.9	361.2	91.8	10.00	9.99	0.55
10,250.0	59.65	168.04	10,141.4	-95.0	370.0	133.5	10.00	9.99	0.49
10,300.0	64.64	168.26	10,164.7	-138.2	379.1	177.5	10.00	9.99	0.44
10,350.0	69.64	168.47	10,184.1	-183.3	388.4	223.3	10.00	9.99	0.41
10,400.0	74.64	168.66	10,199.5	-229.9	397.8	270.7	10.00	9.99	0.38
10,450.0	79.63	168.84	10,210.6	-277.7	407.3	319.2	10.00	9.99	0.36
10,500.0	84.63	169.01	10,217.4	-326.3	416.8	368.6	10.00	9.99	0.35
10,553.7	90.00	169.20	10,220.0	-379.0	427.0	422.0	10.00	9.99	0.35
10,600.0	90.00	170.13	10,220.0	-424.5	435.3	468.2	2.00	0.00	2.00
10,700.0	90.00	172.13	10,220.0	-523.3	450.7	568.0	2.00	0.00	2.00
10,800.0	90.00	174.13	10,220.0	-622.6	462.7	668.0	2.00	0.00	2.00
10,900.0	90.00	176.13	10,220.0	-722.2	471.2	768.0	2.00	0.00	2.00
11,000.0	90.00	178.13	10,220.0	-822.1	476.2	867.8	2.00	0.00	2.00
11,068.6	90.00	179.50	10,220.0	-890.7	477.6	936.2	2.00	0.00	2.00
11,100.0	90.00	179.50	10,220.0	-922.1	477.9	967.4	0.00	0.00	0.00
11,200.0	90.00	179.50	10,220.0	-1,022.1	478.8	1,067.0	0.00	0.00	0.00
11,300.0	90.00	179.50	10,220.0	-1,122.1	479.6	1,166.5	0.00	0.00	0.00
11,400.0	90.00	179.50	10,220.0	-1,222.1	480.5	1,266.0	0.00	0.00	0.00
11,500.0	90.00	179.50	10,220.0	-1,322.1	481.4	1,365.5	0.00	0.00	0.00
11,600.0	90.00	179.50	10,220.0	-1,422.1	482.3	1,465.1	0.00	0.00	0.00
11,700.0	90.00	179.50	10,220.0	-1,522.1	483.1	1,564.6	0.00	0.00	0.00
11,800.0	90.00	179.50	10,220.0	-1,622.1	484.0	1,664.1	0.00	0.00	0.00
11,900.0	90.00	179.50	10,220.0	-1,722.1	484.9	1,763.7	0.00	0.00	0.00
12,000.0	90.00	179.50	10,220.0	-1,822.1	485.8	1,863.2	0.00	0.00	0.00
12,100.0	90.00	179.50	10,220.0	-1,922.1	486.6	1,962.7	0.00	0.00	0.00
12,200.0	90.00	179.50	10,220.0	-2,022.1	487.5	2,062.2	0.00	0.00	0.00
12,300.0	90.00	179.50	10,220.0	-2,122.0	488.4	2,161.8	0.00	0.00	0.00
12,400.0	90.00	179.50	10,220.0	-2,222.0	489.3	2,261.3	0.00	0.00	0.00
12,500.0	90.00	179.50	10,220.0	-2,322.0	490.1	2,360.8	0.00	0.00	0.00
12,600.0	90.00	179.50	10,220.0	-2,422.0	491.0	2,460.4	0.00	0.00	0.00
12,700.0	90.00	179.50	10,220.0	-2,522.0	491.9	2,559.9	0.00	0.00	0.00
12,800.0	90.00	179.50	10,220.0	-2,622.0	492.8	2,659.4	0.00	0.00	0.00
12,900.0	90.00	179.50	10,220.0	-2,722.0	493.6	2,759.0	0.00	0.00	0.00
13,000.0	90.00	179.50	10,220.0	-2,822.0	494.5	2,858.5	0.00	0.00	0.00
13,100.0	90.00	179.50	10,220.0	-2,922.0	495.4	2,958.0	0.00	0.00	0.00
13,200.0	90.00	179.50	10,220.0	-3,022.0	496.3	3,057.5	0.00	0.00	0.00
13,300.0	90.00	179.50	10,220.0	-3,122.0	497.2	3,157.1	0.00	0.00	0.00
13,400.0	90.00	179.50	10,220.0	-3,222.0	498.0	3,256.6	0.00	0.00	0.00
13,500.0	90.00	179.50	10,220.0	-3,322.0	498.9	3,356.1	0.00	0.00	0.00
13,600.0	90.00	179.50	10,220.0	-3,422.0	499.8	3,455.7	0.00	0.00	0.00
13,700.0	90.00	179.50	10,220.0	-3,522.0	500.7	3,555.2	0.00	0.00	0.00
13,800.0	90.00	179.50	10,220.0	-3,622.0	501.5	3,654.7	0.00	0.00	0.00
13,900.0	90.00	179.50	10,220.0	-3,722.0	502.4	3,754.2	0.00	0.00	0.00
14,000.0	90.00	179.50	10,220.0	-3,822.0	503.3	3,853.8	0.00	0.00	0.00
14,100.0	90.00	179.50	10,220.0	-3,922.0	504.2	3,953.3	0.00	0.00	0.00
14,200.0	90.00	179.50	10,220.0	-4,022.0	505.0	4,052.8	0.00	0.00	0.00
14,300.0	90.00	179.50	10,220.0	-4,122.0	505.9	4,152.4	0.00	0.00	0.00
14,400.0	90.00	179.50	10,220.0	-4,222.0	506.8	4,251.9	0.00	0.00	0.00
14,500.0	90.00	179.50	10,220.0	-4,322.0	507.7	4,351.4	0.00	0.00	0.00
14,600.0	90.00	179.50	10,220.0	-4,422.0	508.5	4,450.9	0.00	0.00	0.00
14,700.0	90.00	179.50	10,220.0	-4,522.0	509.4	4,550.5	0.00	0.00	0.00
14,800.0	90.00	179.50	10,220.0	-4,622.0	510.3	4,650.0	0.00	0.00	0.00

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Site:	Nautilus 16 State Com	**North Reference:**	Grid
Well:	#201H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
14,900.0	90.00	179.50	10,220.0	-4,721.9	511.2	4,749.5	0.00	0.00	0.00
14,995.1	90.00	179.50	10,220.0	-4,817.0	512.0	4,844.1	0.00	0.00	0.00

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(Naut 16 State Cc - plan hits target center - Rectangle (sides W50.0 H0.0 D4,721.0)	90.00	179.50	10,220.0	-4,817.0	512.0	378,153.00	768,439.00	32° 2' 12.112 N	103° 28' 1.400 W
FTP(Naut 16 State Cor - plan misses target center by 115.2usft at 10300.5usft MD (10164.9 TVD, -138.6 N, 379.2 E) - Point	0.00	0.00	10,220.0	-96.0	471.0	382,874.00	768,398.00	32° 2' 58.832 N	103° 28' 1.436 W