

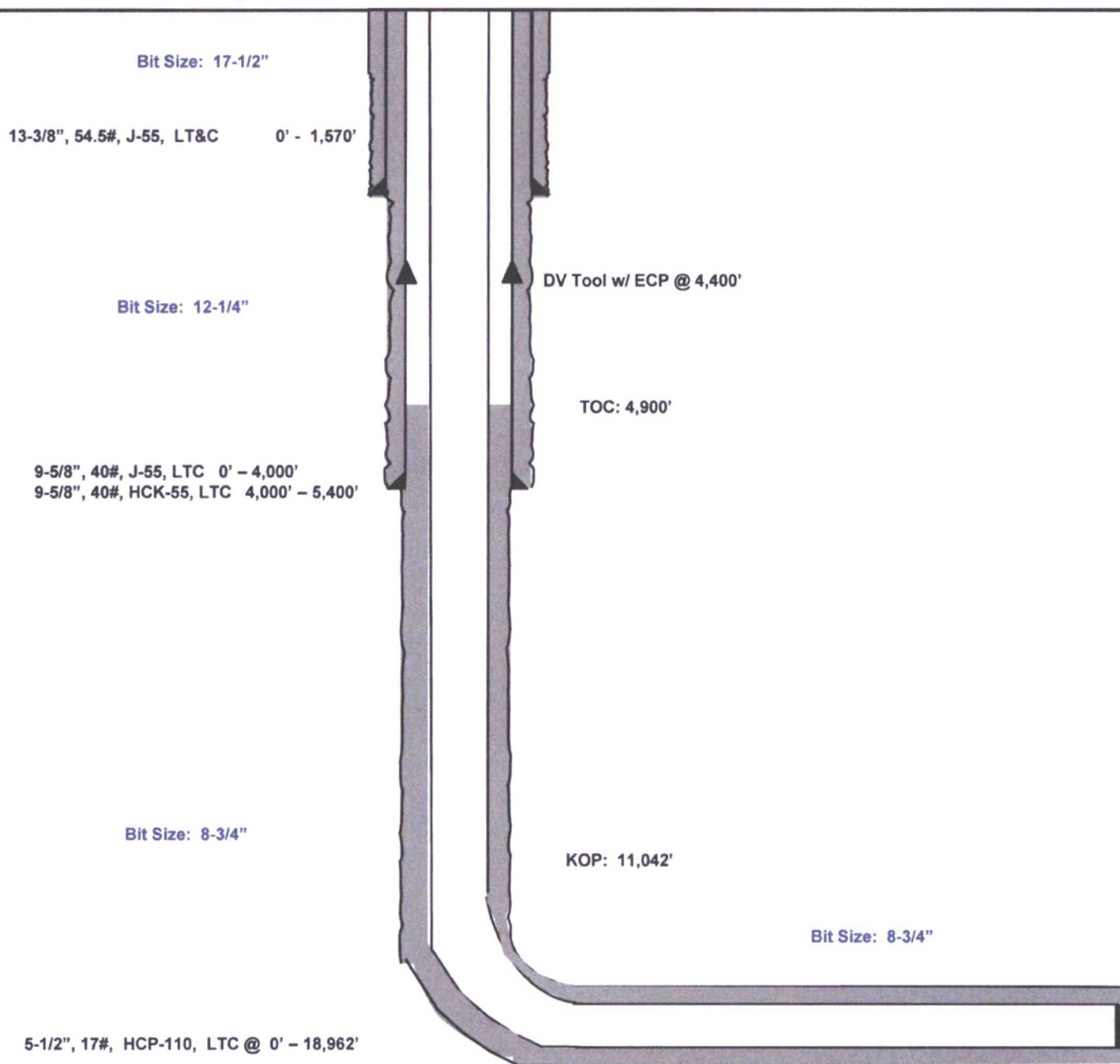
Hunter 21 State Com #602H

Lea County, New Mexico
Proposed Wellbore

200' FNL
713' FWL
Section 21
T-23-S, R-35-E

API: 30-025-*****

KB: 3,434'
GL: 3,409'



Lateral: 18,962' MD, 11,513' TVD

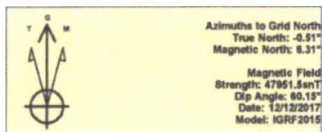
BH Location: 2411' FNL & 1209' FWL
Section 28
T-23-S, R-35-E



Lea County, NM (NAD 83 NME)

Hunter 21 State Com #602H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 0.51°
To convert a Magnetic Direction to a True Direction, Add 6.31° East
To convert a True Direction to a Grid Direction, Subtract 0.51°

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

WELL DETAILS: #602H

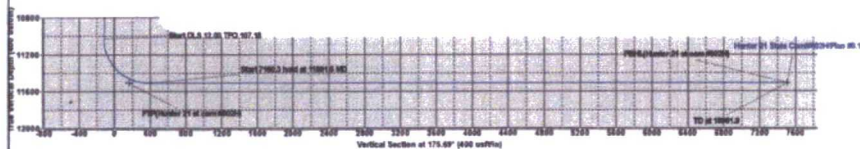
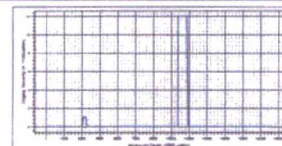
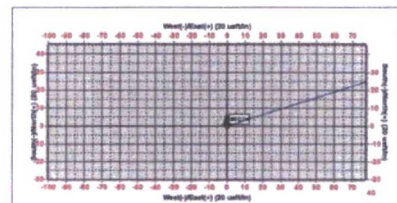
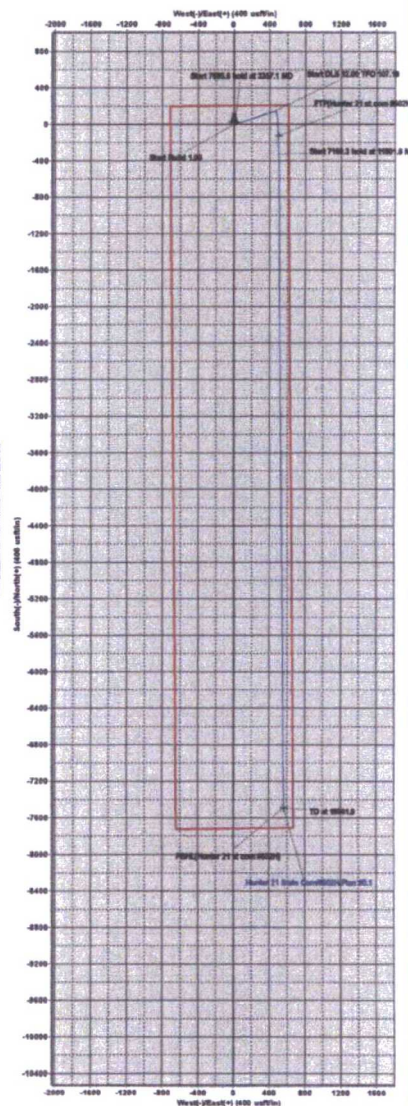
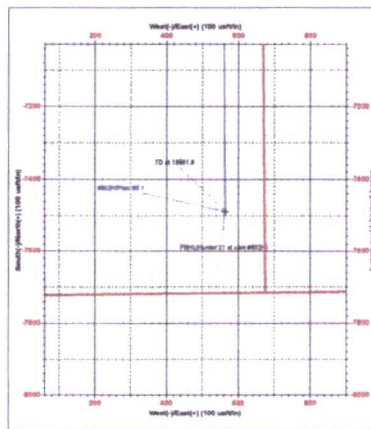
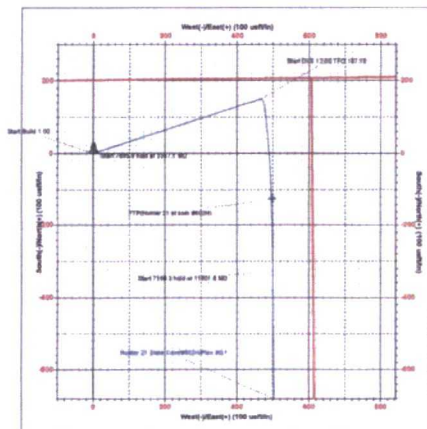
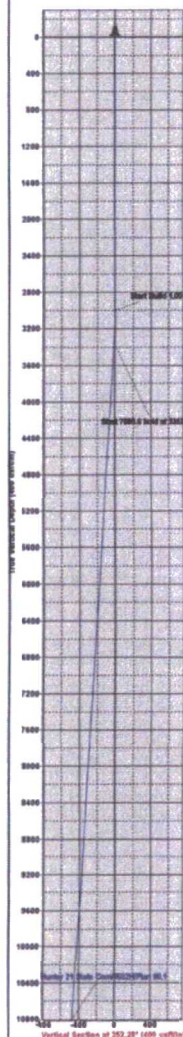
KB = 25 @ 3434.0usft 3409.0
Northing 473030.50 Easting 836285.50 Latitude 32° 17' 48.567 N Longitude 103° 22' 43.823 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0
3357.1	3.57	72.28	3356.9	3.4	10.6	1.00	72.28	-2.6
11042.8	3.57	72.28	11027.6	149.1	466.6	0.00	0.00	-113.7
11801.6	90.00	179.49	11513.0	-328.0	499.8	12.00	107.18	364.6
18961.9	90.00	179.49	11513.0	-7488.0	564.0	0.00	0.00	7509.2

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(Hunter 21 at com #602H)	11513.0	-128.0	489.0	472806.00	836783.50
PBHL(Hunter 21 at com #602H)	11513.0	-7488.0	564.0	465542.00	836549.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#602H

OH

Plan: Plan #0.1

Standard Planning Report

12 December, 2017



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hunter 21 State Com
Well: #602H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB = 25 @ 3434.0usft
MD Reference: KB = 25 @ 3434.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Hunter 21 State Com

Site Position: Northing: 473,030.00 usft Latitude: 32° 17' 48.570 N
From: Map Easting: 836,252.00 usft Longitude: 103° 22' 44.008 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.51 °

Well #602H

Well Position +N/-S 0.0 usft Northing: 473,030.00 usft Latitude: 32° 17' 48.567 N
 +E/-W 33.0 usft Easting: 836,285.00 usft Longitude: 103° 22' 43.623 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 3,409.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/12/2017	6.82	60.15	47,951.48808845

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	175.69

Plan Survey Tool Program Date 12/12/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,961.9 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	
3,357.1	3.57	72.28	3,356.9	3.4	10.6	1.00	1.00	0.00	72.28	
11,042.8	3.57	72.28	11,027.6	149.1	466.6	0.00	0.00	0.00	0.00	
11,801.6	90.00	179.49	11,513.0	-328.0	499.8	12.00	11.39	14.13	107.18	
18,961.9	90.00	179.49	11,513.0	-7,488.0	564.0	0.00	0.00	0.00	0.00	PBHL(Hunter 21 st co



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Hunter 21 State Com
 Well: #602H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3434.0usft
 MD Reference: KB = 25 @ 3434.0usft
 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	1.00	72.28	3,100.0	0.3	0.8	-0.2	1.00	1.00	0.00
3,200.0	2.00	72.28	3,200.0	1.1	3.3	-0.8	1.00	1.00	0.00
3,300.0	3.00	72.28	3,299.9	2.4	7.5	-1.8	1.00	1.00	0.00
3,357.1	3.57	72.28	3,356.9	3.4	10.6	-2.6	1.00	1.00	0.00
3,400.0	3.57	72.28	3,399.7	4.2	13.1	-3.2	0.00	0.00	0.00
3,500.0	3.57	72.28	3,499.5	6.1	19.1	-4.6	0.00	0.00	0.00
3,600.0	3.57	72.28	3,599.3	8.0	25.0	-6.1	0.00	0.00	0.00
3,700.0	3.57	72.28	3,699.1	9.9	30.9	-7.5	0.00	0.00	0.00
3,800.0	3.57	72.28	3,798.9	11.8	36.9	-9.0	0.00	0.00	0.00
3,900.0	3.57	72.28	3,898.7	13.7	42.8	-10.4	0.00	0.00	0.00
4,000.0	3.57	72.28	3,998.5	15.6	48.7	-11.9	0.00	0.00	0.00
4,100.0	3.57	72.28	4,098.3	17.5	54.7	-13.3	0.00	0.00	0.00
4,200.0	3.57	72.28	4,198.1	19.4	60.6	-14.8	0.00	0.00	0.00
4,300.0	3.57	72.28	4,297.9	21.3	66.5	-16.2	0.00	0.00	0.00
4,400.0	3.57	72.28	4,397.7	23.2	72.5	-17.7	0.00	0.00	0.00
4,500.0	3.57	72.28	4,497.5	25.1	78.4	-19.1	0.00	0.00	0.00
4,600.0	3.57	72.28	4,597.4	27.0	84.3	-20.5	0.00	0.00	0.00
4,700.0	3.57	72.28	4,697.2	28.8	90.3	-22.0	0.00	0.00	0.00
4,800.0	3.57	72.28	4,797.0	30.7	96.2	-23.4	0.00	0.00	0.00
4,900.0	3.57	72.28	4,896.8	32.6	102.1	-24.9	0.00	0.00	0.00
5,000.0	3.57	72.28	4,996.6	34.5	108.1	-26.3	0.00	0.00	0.00
5,100.0	3.57	72.28	5,096.4	36.4	114.0	-27.8	0.00	0.00	0.00
5,200.0	3.57	72.28	5,196.2	38.3	119.9	-29.2	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hunter 21 State Com
Well: #602H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB = 25 @ 3434.0usft
MD Reference: KB = 25 @ 3434.0usft
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)
5,300.0	3.57	72.28	5,296.0	40.2	125.9	-30.7	0.00	0.00	0.00
5,400.0	3.57	72.28	5,395.8	42.1	131.8	-32.1	0.00	0.00	0.00
5,500.0	3.57	72.28	5,495.6	44.0	137.7	-33.5	0.00	0.00	0.00
5,600.0	3.57	72.28	5,595.4	45.9	143.7	-35.0	0.00	0.00	0.00
5,700.0	3.57	72.28	5,695.2	47.8	149.6	-36.4	0.00	0.00	0.00
5,800.0	3.57	72.28	5,795.0	49.7	155.5	-37.9	0.00	0.00	0.00
5,900.0	3.57	72.28	5,894.8	51.6	161.5	-39.3	0.00	0.00	0.00
6,000.0	3.57	72.28	5,994.6	53.5	167.4	-40.8	0.00	0.00	0.00
6,100.0	3.57	72.28	6,094.4	55.4	173.3	-42.2	0.00	0.00	0.00
6,200.0	3.57	72.28	6,194.2	57.3	179.3	-43.7	0.00	0.00	0.00
6,300.0	3.57	72.28	6,294.1	59.2	185.2	-45.1	0.00	0.00	0.00
6,400.0	3.57	72.28	6,393.9	61.1	191.1	-46.6	0.00	0.00	0.00
6,500.0	3.57	72.28	6,493.7	63.0	197.1	-48.0	0.00	0.00	0.00
6,600.0	3.57	72.28	6,593.5	64.9	203.0	-49.4	0.00	0.00	0.00
6,700.0	3.57	72.28	6,693.3	66.8	208.9	-50.9	0.00	0.00	0.00
6,800.0	3.57	72.28	6,793.1	68.7	214.9	-52.3	0.00	0.00	0.00
6,900.0	3.57	72.28	6,892.9	70.6	220.8	-53.8	0.00	0.00	0.00
7,000.0	3.57	72.28	6,992.7	72.5	226.7	-55.2	0.00	0.00	0.00
7,100.0	3.57	72.28	7,092.5	74.4	232.7	-56.7	0.00	0.00	0.00
7,200.0	3.57	72.28	7,192.3	76.3	238.6	-58.1	0.00	0.00	0.00
7,300.0	3.57	72.28	7,292.1	78.1	244.5	-59.6	0.00	0.00	0.00
7,400.0	3.57	72.28	7,391.9	80.0	250.5	-61.0	0.00	0.00	0.00
7,500.0	3.57	72.28	7,491.7	81.9	256.4	-62.5	0.00	0.00	0.00
7,600.0	3.57	72.28	7,591.5	83.8	262.3	-63.9	0.00	0.00	0.00
7,700.0	3.57	72.28	7,691.3	85.7	268.3	-65.3	0.00	0.00	0.00
7,800.0	3.57	72.28	7,791.1	87.6	274.2	-66.8	0.00	0.00	0.00
7,900.0	3.57	72.28	7,890.9	89.5	280.1	-68.2	0.00	0.00	0.00
8,000.0	3.57	72.28	7,990.8	91.4	286.1	-69.7	0.00	0.00	0.00
8,100.0	3.57	72.28	8,090.6	93.3	292.0	-71.1	0.00	0.00	0.00
8,200.0	3.57	72.28	8,190.4	95.2	297.9	-72.6	0.00	0.00	0.00
8,300.0	3.57	72.28	8,290.2	97.1	303.9	-74.0	0.00	0.00	0.00
8,400.0	3.57	72.28	8,390.0	99.0	309.8	-75.5	0.00	0.00	0.00
8,500.0	3.57	72.28	8,489.8	100.9	315.7	-76.9	0.00	0.00	0.00
8,600.0	3.57	72.28	8,589.6	102.8	321.7	-78.3	0.00	0.00	0.00
8,700.0	3.57	72.28	8,689.4	104.7	327.6	-79.8	0.00	0.00	0.00
8,800.0	3.57	72.28	8,789.2	106.6	333.5	-81.2	0.00	0.00	0.00
8,900.0	3.57	72.28	8,889.0	108.5	339.5	-82.7	0.00	0.00	0.00
9,000.0	3.57	72.28	8,988.8	110.4	345.4	-84.1	0.00	0.00	0.00
9,100.0	3.57	72.28	9,088.6	112.3	351.3	-85.6	0.00	0.00	0.00
9,200.0	3.57	72.28	9,188.4	114.2	357.3	-87.0	0.00	0.00	0.00
9,300.0	3.57	72.28	9,288.2	116.1	363.2	-88.5	0.00	0.00	0.00
9,400.0	3.57	72.28	9,388.0	118.0	369.1	-89.9	0.00	0.00	0.00
9,500.0	3.57	72.28	9,487.8	119.9	375.1	-91.4	0.00	0.00	0.00
9,600.0	3.57	72.28	9,587.6	121.8	381.0	-92.8	0.00	0.00	0.00
9,700.0	3.57	72.28	9,687.5	123.7	386.9	-94.2	0.00	0.00	0.00
9,800.0	3.57	72.28	9,787.3	125.6	392.9	-95.7	0.00	0.00	0.00
9,900.0	3.57	72.28	9,887.1	127.4	398.8	-97.1	0.00	0.00	0.00
10,000.0	3.57	72.28	9,986.9	129.3	404.7	-98.6	0.00	0.00	0.00
10,100.0	3.57	72.28	10,086.7	131.2	410.7	-100.0	0.00	0.00	0.00
10,200.0	3.57	72.28	10,186.5	133.1	416.6	-101.5	0.00	0.00	0.00
10,300.0	3.57	72.28	10,286.3	135.0	422.5	-102.9	0.00	0.00	0.00
10,400.0	3.57	72.28	10,386.1	136.9	428.5	-104.4	0.00	0.00	0.00
10,500.0	3.57	72.28	10,485.9	138.8	434.4	-105.8	0.00	0.00	0.00
10,600.0	3.57	72.28	10,585.7	140.7	440.3	-107.3	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Hunter 21 State Com
Well: #602H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB = 25 @ 3434.0usft
MD Reference: KB = 25 @ 3434.0usft
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)
10,700.0	3.57	72.28	10,685.5	142.6	446.3	-108.7	0.00	0.00	0.00
10,800.0	3.57	72.28	10,785.3	144.5	452.2	-110.1	0.00	0.00	0.00
10,900.0	3.57	72.28	10,885.1	146.4	458.1	-111.6	0.00	0.00	0.00
11,000.0	3.57	72.28	10,984.9	148.3	464.1	-113.0	0.00	0.00	0.00
11,042.8	3.57	72.28	11,027.6	149.1	466.6	-113.7	0.00	0.00	0.00
11,050.0	3.42	86.36	11,034.8	149.2	467.0	-113.7	12.00	-2.13	194.31
11,075.0	4.42	129.04	11,059.8	148.6	468.5	-113.0	12.00	4.02	170.72
11,100.0	6.74	149.18	11,084.7	146.8	470.0	-111.1	12.00	9.27	80.57
11,125.0	9.45	158.49	11,109.4	143.6	471.5	-107.8	12.00	10.83	37.23
11,150.0	12.29	163.60	11,134.0	139.1	473.0	-103.2	12.00	11.37	20.46
11,175.0	15.19	166.81	11,158.2	133.4	474.5	-97.4	12.00	11.61	12.80
11,200.0	18.13	168.99	11,182.2	126.4	476.0	-90.3	12.00	11.74	8.76
11,225.0	21.08	170.59	11,205.7	118.1	477.5	-81.9	12.00	11.81	6.38
11,250.0	24.04	171.81	11,228.8	108.7	479.0	-72.4	12.00	11.85	4.87
11,275.0	27.01	172.77	11,251.4	98.0	480.4	-61.6	12.00	11.88	3.86
11,300.0	29.99	173.56	11,273.3	86.1	481.8	-49.7	12.00	11.91	3.14
11,325.0	32.97	174.21	11,294.7	73.2	483.2	-36.7	12.00	11.92	2.62
11,350.0	35.95	174.77	11,315.3	59.1	484.6	-22.5	12.00	11.93	2.23
11,375.0	38.94	175.26	11,335.1	43.9	485.9	-7.3	12.00	11.94	1.93
11,400.0	41.93	175.68	11,354.1	27.8	487.2	8.9	12.00	11.95	1.70
11,425.0	44.92	176.06	11,372.3	10.6	488.4	26.1	12.00	11.95	1.51
11,450.0	47.91	176.40	11,389.5	-7.4	489.6	44.2	12.00	11.96	1.36
11,475.0	50.90	176.71	11,405.8	-26.4	490.7	63.2	12.00	11.96	1.24
11,500.0	53.89	176.99	11,421.1	-46.1	491.8	83.0	12.00	11.97	1.14
11,525.0	56.88	177.26	11,435.3	-66.7	492.8	103.5	12.00	11.97	1.05
11,550.0	59.87	177.50	11,448.4	-88.0	493.8	124.8	12.00	11.97	0.99
11,575.0	62.87	177.74	11,460.3	-109.9	494.7	146.7	12.00	11.97	0.93
11,600.0	65.86	177.96	11,471.2	-132.4	495.6	169.2	12.00	11.97	0.88
11,609.4	66.98	178.03	11,474.9	-141.0	495.9	177.8	12.00	11.97	0.85
FTP(Hunter 21 st com #602H)									
11,625.0	68.85	178.17	11,480.8	-155.5	496.4	192.3	12.00	11.98	0.83
11,650.0	71.85	178.37	11,489.2	-179.0	497.1	215.8	12.00	11.98	0.81
11,675.0	74.84	178.56	11,496.4	-202.9	497.7	239.7	12.00	11.98	0.78
11,700.0	77.84	178.75	11,502.3	-227.2	498.3	264.0	12.00	11.98	0.76
11,725.0	80.83	178.94	11,506.9	-251.8	498.8	288.5	12.00	11.98	0.74
11,750.0	83.82	179.12	11,510.2	-276.5	499.2	313.3	12.00	11.98	0.73
11,775.0	86.82	179.30	11,512.3	-301.5	499.5	338.1	12.00	11.98	0.72
11,801.6	90.00	179.49	11,513.0	-328.0	499.8	364.6	12.00	11.98	0.71
11,900.0	90.00	179.49	11,513.0	-426.4	500.7	462.8	0.00	0.00	0.00
12,000.0	90.00	179.49	11,513.0	-526.4	501.6	562.6	0.00	0.00	0.00
12,100.0	90.00	179.49	11,513.0	-626.4	502.5	662.4	0.00	0.00	0.00
12,200.0	90.00	179.49	11,513.0	-726.4	503.4	762.2	0.00	0.00	0.00
12,300.0	90.00	179.49	11,513.0	-826.4	504.3	862.0	0.00	0.00	0.00
12,400.0	90.00	179.49	11,513.0	-926.4	505.2	961.7	0.00	0.00	0.00
12,500.0	90.00	179.49	11,513.0	-1,026.4	506.1	1,061.5	0.00	0.00	0.00
12,600.0	90.00	179.49	11,513.0	-1,126.4	507.0	1,161.3	0.00	0.00	0.00
12,700.0	90.00	179.49	11,513.0	-1,226.4	507.9	1,261.1	0.00	0.00	0.00
12,800.0	90.00	179.49	11,513.0	-1,326.4	508.8	1,360.9	0.00	0.00	0.00
12,900.0	90.00	179.49	11,513.0	-1,426.4	509.7	1,460.6	0.00	0.00	0.00
13,000.0	90.00	179.49	11,513.0	-1,526.4	510.6	1,560.4	0.00	0.00	0.00
13,100.0	90.00	179.49	11,513.0	-1,626.4	511.5	1,660.2	0.00	0.00	0.00
13,200.0	90.00	179.49	11,513.0	-1,726.4	512.4	1,760.0	0.00	0.00	0.00
13,300.0	90.00	179.49	11,513.0	-1,826.4	513.3	1,859.8	0.00	0.00	0.00



Planning Report

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 Project: Lea County, NM (NAD 83 NME)
 Site: Hunter 21 State Com
 Well: #602H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
 TVD Reference: KB = 25 @ 3434.0usft
 MD Reference: KB = 25 @ 3434.0usft
 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)
13,400.0	90.00	179.49	11,513.0	-1,926.4	514.1	1,959.5	0.00	0.00	0.00
13,500.0	90.00	179.49	11,513.0	-2,026.4	515.0	2,059.3	0.00	0.00	0.00
13,600.0	90.00	179.49	11,513.0	-2,126.4	515.9	2,159.1	0.00	0.00	0.00
13,700.0	90.00	179.49	11,513.0	-2,226.4	516.8	2,258.9	0.00	0.00	0.00
13,800.0	90.00	179.49	11,513.0	-2,326.4	517.7	2,358.7	0.00	0.00	0.00
13,900.0	90.00	179.49	11,513.0	-2,426.4	518.6	2,458.5	0.00	0.00	0.00
14,000.0	90.00	179.49	11,513.0	-2,526.3	519.5	2,558.2	0.00	0.00	0.00
14,100.0	90.00	179.49	11,513.0	-2,626.3	520.4	2,658.0	0.00	0.00	0.00
14,200.0	90.00	179.49	11,513.0	-2,726.3	521.3	2,757.8	0.00	0.00	0.00
14,300.0	90.00	179.49	11,513.0	-2,826.3	522.2	2,857.6	0.00	0.00	0.00
14,400.0	90.00	179.49	11,513.0	-2,926.3	523.1	2,957.4	0.00	0.00	0.00
14,500.0	90.00	179.49	11,513.0	-3,026.3	524.0	3,057.1	0.00	0.00	0.00
14,600.0	90.00	179.49	11,513.0	-3,126.3	524.9	3,156.9	0.00	0.00	0.00
14,700.0	90.00	179.49	11,513.0	-3,226.3	525.8	3,256.7	0.00	0.00	0.00
14,800.0	90.00	179.49	11,513.0	-3,326.3	526.7	3,356.5	0.00	0.00	0.00
14,900.0	90.00	179.49	11,513.0	-3,426.3	527.6	3,456.3	0.00	0.00	0.00
15,000.0	90.00	179.49	11,513.0	-3,526.3	528.5	3,556.0	0.00	0.00	0.00
15,100.0	90.00	179.49	11,513.0	-3,626.3	529.4	3,655.8	0.00	0.00	0.00
15,200.0	90.00	179.49	11,513.0	-3,726.3	530.3	3,755.6	0.00	0.00	0.00
15,300.0	90.00	179.49	11,513.0	-3,826.3	531.2	3,855.4	0.00	0.00	0.00
15,400.0	90.00	179.49	11,513.0	-3,926.3	532.1	3,955.2	0.00	0.00	0.00
15,500.0	90.00	179.49	11,513.0	-4,026.3	533.0	4,054.9	0.00	0.00	0.00
15,600.0	90.00	179.49	11,513.0	-4,126.3	533.9	4,154.7	0.00	0.00	0.00
15,700.0	90.00	179.49	11,513.0	-4,226.3	534.8	4,254.5	0.00	0.00	0.00
15,800.0	90.00	179.49	11,513.0	-4,326.3	535.7	4,354.3	0.00	0.00	0.00
15,900.0	90.00	179.49	11,513.0	-4,426.3	536.6	4,454.1	0.00	0.00	0.00
16,000.0	90.00	179.49	11,513.0	-4,526.3	537.5	4,553.8	0.00	0.00	0.00
16,100.0	90.00	179.49	11,513.0	-4,626.3	538.3	4,653.6	0.00	0.00	0.00
16,200.0	90.00	179.49	11,513.0	-4,726.3	539.2	4,753.4	0.00	0.00	0.00
16,300.0	90.00	179.49	11,513.0	-4,826.3	540.1	4,853.2	0.00	0.00	0.00
16,400.0	90.00	179.49	11,513.0	-4,926.3	541.0	4,953.0	0.00	0.00	0.00
16,500.0	90.00	179.49	11,513.0	-5,026.2	541.9	5,052.8	0.00	0.00	0.00
16,600.0	90.00	179.49	11,513.0	-5,126.2	542.8	5,152.5	0.00	0.00	0.00
16,700.0	90.00	179.49	11,513.0	-5,226.2	543.7	5,252.3	0.00	0.00	0.00
16,800.0	90.00	179.49	11,513.0	-5,326.2	544.6	5,352.1	0.00	0.00	0.00
16,900.0	90.00	179.49	11,513.0	-5,426.2	545.5	5,451.9	0.00	0.00	0.00
17,000.0	90.00	179.49	11,513.0	-5,526.2	546.4	5,551.7	0.00	0.00	0.00
17,100.0	90.00	179.49	11,513.0	-5,626.2	547.3	5,651.4	0.00	0.00	0.00
17,200.0	90.00	179.49	11,513.0	-5,726.2	548.2	5,751.2	0.00	0.00	0.00
17,300.0	90.00	179.49	11,513.0	-5,826.2	549.1	5,851.0	0.00	0.00	0.00
17,400.0	90.00	179.49	11,513.0	-5,926.2	550.0	5,950.8	0.00	0.00	0.00
17,500.0	90.00	179.49	11,513.0	-6,026.2	550.9	6,050.6	0.00	0.00	0.00
17,600.0	90.00	179.49	11,513.0	-6,126.2	551.8	6,150.3	0.00	0.00	0.00
17,700.0	90.00	179.49	11,513.0	-6,226.2	552.7	6,250.1	0.00	0.00	0.00
17,800.0	90.00	179.49	11,513.0	-6,326.2	553.6	6,349.9	0.00	0.00	0.00
17,900.0	90.00	179.49	11,513.0	-6,426.2	554.5	6,449.7	0.00	0.00	0.00
18,000.0	90.00	179.49	11,513.0	-6,526.2	555.4	6,549.5	0.00	0.00	0.00
18,100.0	90.00	179.49	11,513.0	-6,626.2	556.3	6,649.2	0.00	0.00	0.00
18,200.0	90.00	179.49	11,513.0	-6,726.2	557.2	6,749.0	0.00	0.00	0.00
18,300.0	90.00	179.49	11,513.0	-6,826.2	558.1	6,848.8	0.00	0.00	0.00
18,400.0	90.00	179.49	11,513.0	-6,926.2	559.0	6,948.6	0.00	0.00	0.00
18,500.0	90.00	179.49	11,513.0	-7,026.2	559.9	7,048.4	0.00	0.00	0.00
18,600.0	90.00	179.49	11,513.0	-7,126.2	560.8	7,148.2	0.00	0.00	0.00
18,700.0	90.00	179.49	11,513.0	-7,226.2	561.7	7,247.9	0.00	0.00	0.00



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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	90.00	179.49	11,513.0	-7,326.2	562.5	7,347.7	0.00	0.00	0.00
18,900.0	90.00	179.49	11,513.0	-7,426.1	563.4	7,447.5	0.00	0.00	0.00
18,961.9	90.00	179.49	11,513.0	-7,488.0	564.0	7,509.2	0.00	0.00	0.00
PBHL(Hunter 21 st com #602H)									

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(Hunter 21 st com - plan hits target center - Point	0.00	0.01	11,513.0	-7,488.0	564.0	465,542.00	836,849.00	32° 16' 34.426 N	103° 22' 37.831 W
FTP(Hunter 21 st com # - plan misses target center by 41.4usft at 11609.4usft MD (11474.9 TVD, -141.0 N, 495.9 E) - Point	0.00	0.00	11,513.0	-125.0	498.0	472,905.00	836,783.00	32° 17' 47.286 N	103° 22' 37.835 W