

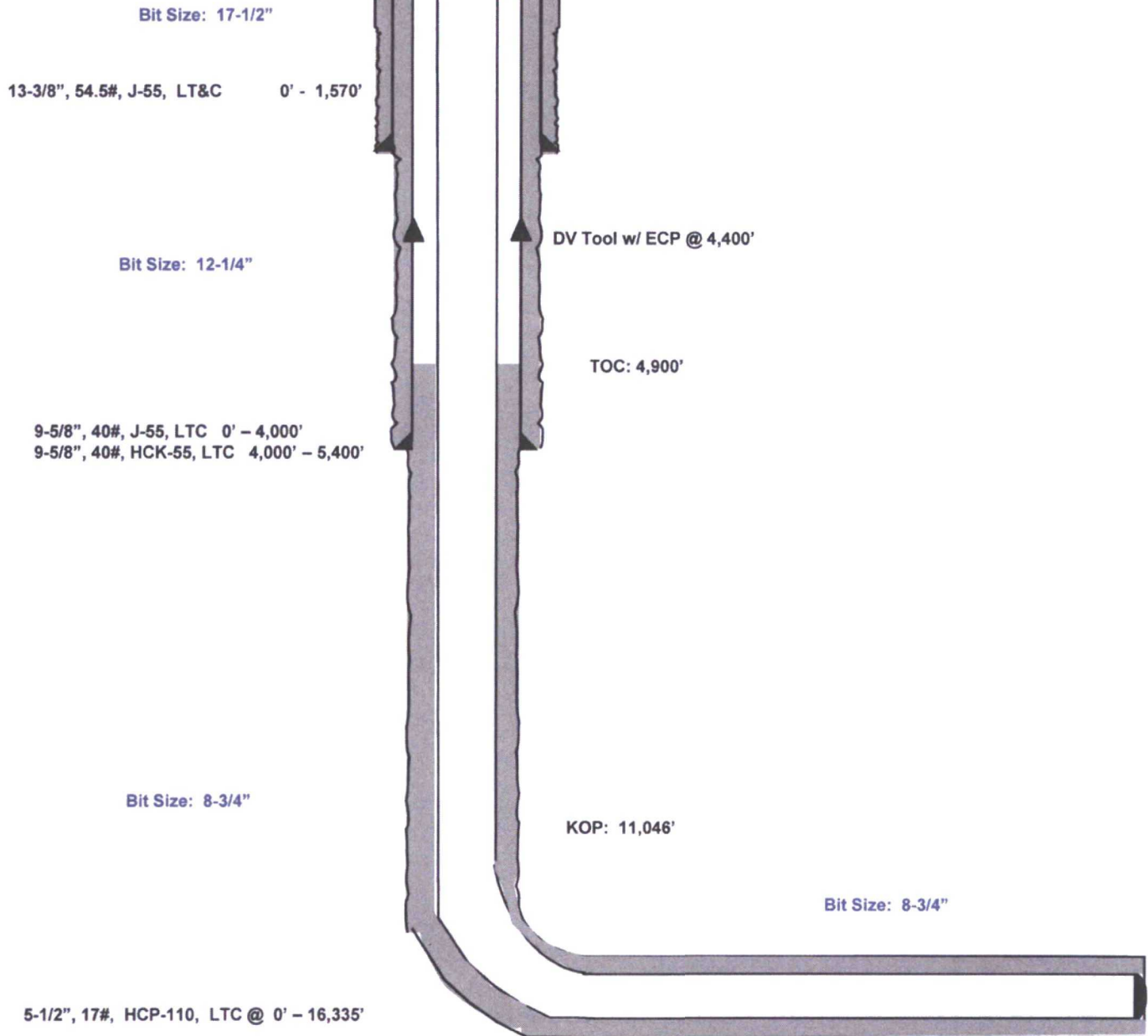
Hunter 21 State Com #601H

Lea County, New Mexico
Proposed Wellbore

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

API: 30-025-*****

KB: 3,435'
GL: 3,410'



Lateral: 16,335' MD, 11,524' TVD

BH Location: 230' FSL & 332' FWL
Section 21
T-23-S, R-35-E



Lea County, NM (NAD 83 NME)

Hunter 21 State Com #601H

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

WELL DETAILS: #601H

North 473039.00 Easting 836252.00 Latitude 32° 17' 48.570 N Longitude 103° 22' 44.008 W

Azimuths to Grid North
True North: -0.81°
Magnetic North: 6.31°

Magnetic Field
Strength: 47951.5enT
Dip Angle: 60.16°
Date: 12/12/2017
Model: IGRF2015

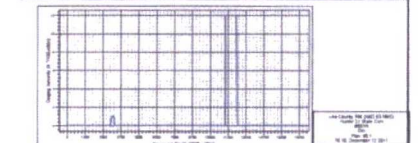
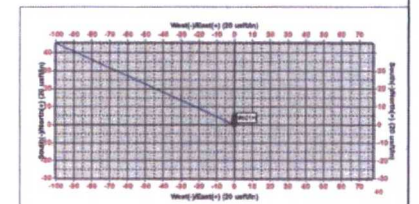
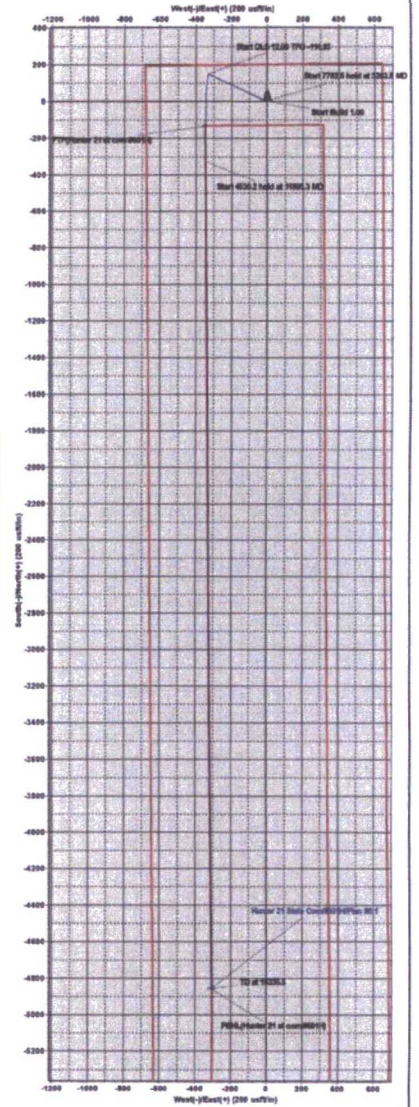
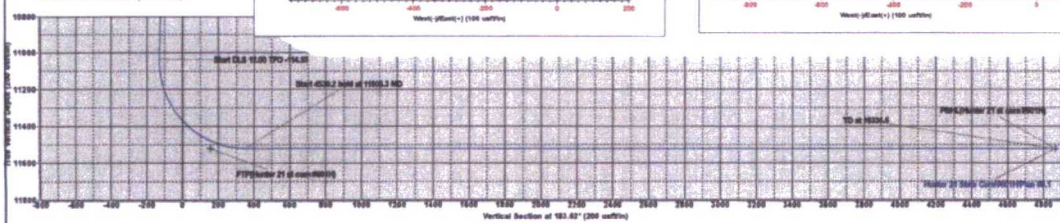
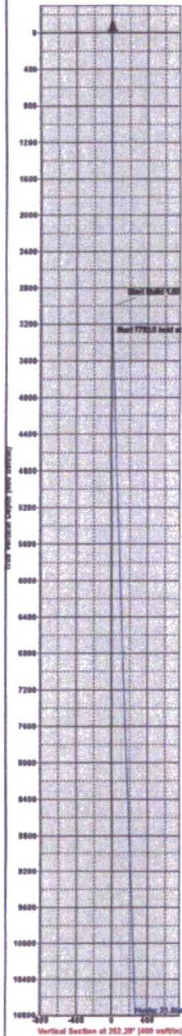
To convert a Magnetic Direction to a Grid Direction, Add 6.31°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.51°

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
3263.5	2.64	294.44	3263.4	2.5	-5.5	1.00	294.44	-2.2
11046.0	2.64	294.44	11037.7	150.6	-331.2	0.00	0.00	-129.4
11805.3	90.00	179.49	11524.0	-327.0	-347.3	12.00	-114.93	348.2
16335.5	90.00	179.49	11524.0	-4857.0	-307.0	0.00	0.00	4866.7

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTF(Hunter 21 at com #601H)	11824.9	-134.0	-348.0	472996.00	836801.00
PB(L)(Hunter 21 at com #601H)	11824.0	-4957.0	-307.0	468173.00	835846.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#601H

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: #601H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #601H
TVD Reference: Kb = 25 @ 3435.0usft
MD Reference: Kb = 25 @ 3435.0usft
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 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 #601H
Well Position **+N/-S** 0.0 usft **Northing:** 473,030.00 usft **Latitude:** 32° 17' 48.570 N
+E/-W 0.0 usft **Easting:** 836,252.00 usft **Longitude:** 103° 22' 44.008 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** **Ground Level:** 3,410.0 usft

Wellbore OH
Magnetics **Model Name** **Sample Date** **Declination** **Dip Angle** **Field Strength**
 (°) (°) (nT)
 IGRF2015 12/12/2017 6.82 60.15 47,951.47013634

Design Plan #0.1
Audit Notes:
Version: **Phase:** PLAN **Tie On Depth:** 0.0
Vertical Section: **Depth From (TVD)** **+N/-S** **+E/-W** **Direction**
 (usft) (usft) (usft) (°)
 0.0 0.0 0.0 183.62

Plan Survey Tool Program **Date** 12/12/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,335.5 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	
3,263.5	2.64	294.44	3,263.4	2.5	-5.5	1.00	1.00	0.00	294.44	
11,046.0	2.64	294.44	11,037.7	150.6	-331.2	0.00	0.00	0.00	0.00	
11,805.3	90.00	179.49	11,524.0	-327.0	-347.3	12.00	11.51	-15.14	-114.93	
16,335.5	90.00	179.49	11,524.0	-4,857.0	-307.0	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: #601H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #601H
TVD Reference: Kb = 25 @ 3435.0usft
MD Reference: Kb = 25 @ 3435.0usft
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	294.44	3,100.0	0.4	-0.8	-0.3	1.00	1.00	0.00
3,200.0	2.00	294.44	3,200.0	1.4	-3.2	-1.2	1.00	1.00	0.00
3,263.5	2.64	294.44	3,263.4	2.5	-5.5	-2.2	1.00	1.00	0.00
3,300.0	2.64	294.44	3,299.9	3.2	-7.0	-2.8	0.00	0.00	0.00
3,400.0	2.64	294.44	3,399.8	5.1	-11.2	-4.4	0.00	0.00	0.00
3,500.0	2.64	294.44	3,499.7	7.0	-15.4	-6.0	0.00	0.00	0.00
3,600.0	2.64	294.44	3,599.6	8.9	-19.6	-7.7	0.00	0.00	0.00
3,700.0	2.64	294.44	3,699.4	10.8	-23.8	-9.3	0.00	0.00	0.00
3,800.0	2.64	294.44	3,799.3	12.7	-28.0	-10.9	0.00	0.00	0.00
3,900.0	2.64	294.44	3,899.2	14.6	-32.2	-12.6	0.00	0.00	0.00
4,000.0	2.64	294.44	3,999.1	16.5	-36.3	-14.2	0.00	0.00	0.00
4,100.0	2.64	294.44	4,099.0	18.4	-40.5	-15.8	0.00	0.00	0.00
4,200.0	2.64	294.44	4,198.9	20.3	-44.7	-17.5	0.00	0.00	0.00
4,300.0	2.64	294.44	4,298.8	22.2	-48.9	-19.1	0.00	0.00	0.00
4,400.0	2.64	294.44	4,398.7	24.1	-53.1	-20.7	0.00	0.00	0.00
4,500.0	2.64	294.44	4,498.6	26.0	-57.3	-22.4	0.00	0.00	0.00
4,600.0	2.64	294.44	4,598.5	27.9	-61.5	-24.0	0.00	0.00	0.00
4,700.0	2.64	294.44	4,698.4	29.8	-65.6	-25.6	0.00	0.00	0.00
4,800.0	2.64	294.44	4,798.3	31.7	-69.8	-27.3	0.00	0.00	0.00
4,900.0	2.64	294.44	4,898.2	33.6	-74.0	-28.9	0.00	0.00	0.00
5,000.0	2.64	294.44	4,998.1	35.5	-78.2	-30.5	0.00	0.00	0.00
5,100.0	2.64	294.44	5,098.0	37.4	-82.4	-32.2	0.00	0.00	0.00
5,200.0	2.64	294.44	5,197.9	39.3	-86.6	-33.8	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: #601H
Wellbore: OH
Design: Plan #0.1

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

Well #601H
Kb = 25 @ 3435.0ust
Kb = 25 @ 3435.0ust
Grid
Minimum Curvature

Planned Survey									
Measured Depth (ustf)	Inclination (°)	Azimuth (°)	Vertical Depth (ustf)	+N/S (ustf)	+E/W (ustf)	Vertical Section (ustf)	Dogleg Rate (°/100ustf)	Build Rate (°/100ustf)	Turn Rate (°/100ustf)
5,300.0	2.64	294.44	5,297.8	41.2	-90.7	-35.4	0.00	0.00	0.00
5,400.0	2.64	294.44	5,397.6	43.2	-94.9	-37.1	0.00	0.00	0.00
5,500.0	2.64	294.44	5,497.5	45.1	-99.1	-38.7	0.00	0.00	0.00
5,600.0	2.64	294.44	5,597.4	47.0	-103.3	-40.3	0.00	0.00	0.00
5,700.0	2.64	294.44	5,697.3	48.9	-107.5	-42.0	0.00	0.00	0.00
5,800.0	2.64	294.44	5,797.2	50.8	-111.7	-43.6	0.00	0.00	0.00
5,900.0	2.64	294.44	5,897.1	52.7	-115.9	-45.2	0.00	0.00	0.00
6,000.0	2.64	294.44	5,997.0	54.6	-120.0	-46.9	0.00	0.00	0.00
6,100.0	2.64	294.44	6,096.9	56.5	-124.2	-48.5	0.00	0.00	0.00
6,200.0	2.64	294.44	6,196.8	58.4	-128.4	-50.2	0.00	0.00	0.00
6,300.0	2.64	294.44	6,296.7	60.3	-132.6	-51.8	0.00	0.00	0.00
6,400.0	2.64	294.44	6,396.6	62.2	-136.8	-53.4	0.00	0.00	0.00
6,500.0	2.64	294.44	6,496.5	64.1	-141.0	-55.1	0.00	0.00	0.00
6,600.0	2.64	294.44	6,596.4	66.0	-145.2	-56.7	0.00	0.00	0.00
6,700.0	2.64	294.44	6,696.3	67.9	-149.3	-58.3	0.00	0.00	0.00
6,800.0	2.64	294.44	6,796.2	69.8	-153.5	-60.0	0.00	0.00	0.00
6,900.0	2.64	294.44	6,896.1	71.7	-157.7	-61.6	0.00	0.00	0.00
7,000.0	2.64	294.44	6,996.0	73.6	-161.9	-63.2	0.00	0.00	0.00
7,100.0	2.64	294.44	7,095.9	75.5	-166.1	-64.9	0.00	0.00	0.00
7,200.0	2.64	294.44	7,195.7	77.4	-170.3	-66.5	0.00	0.00	0.00
7,300.0	2.64	294.44	7,295.6	79.3	-174.5	-68.1	0.00	0.00	0.00
7,400.0	2.64	294.44	7,395.5	81.2	-178.6	-69.8	0.00	0.00	0.00
7,500.0	2.64	294.44	7,495.4	83.1	-182.8	-71.4	0.00	0.00	0.00
7,600.0	2.64	294.44	7,595.3	85.0	-187.0	-73.0	0.00	0.00	0.00
7,700.0	2.64	294.44	7,695.2	86.9	-191.2	-74.7	0.00	0.00	0.00
7,800.0	2.64	294.44	7,795.1	88.8	-195.4	-76.3	0.00	0.00	0.00
7,900.0	2.64	294.44	7,895.0	90.7	-199.6	-77.9	0.00	0.00	0.00
8,000.0	2.64	294.44	7,994.9	92.6	-203.8	-79.6	0.00	0.00	0.00
8,100.0	2.64	294.44	8,094.8	94.5	-207.9	-81.2	0.00	0.00	0.00
8,200.0	2.64	294.44	8,194.7	96.4	-212.1	-82.8	0.00	0.00	0.00
8,300.0	2.64	294.44	8,294.6	98.3	-216.3	-84.5	0.00	0.00	0.00
8,400.0	2.64	294.44	8,394.5	100.2	-220.5	-86.1	0.00	0.00	0.00
8,500.0	2.64	294.44	8,494.4	102.1	-224.7	-87.7	0.00	0.00	0.00
8,600.0	2.64	294.44	8,594.3	104.0	-228.9	-89.4	0.00	0.00	0.00
8,700.0	2.64	294.44	8,694.2	105.9	-233.0	-91.0	0.00	0.00	0.00
8,800.0	2.64	294.44	8,794.1	107.8	-237.2	-92.7	0.00	0.00	0.00
8,900.0	2.64	294.44	8,893.9	109.7	-241.4	-94.3	0.00	0.00	0.00
9,000.0	2.64	294.44	8,993.8	111.6	-245.6	-95.9	0.00	0.00	0.00
9,100.0	2.64	294.44	9,093.7	113.5	-249.8	-97.6	0.00	0.00	0.00
9,200.0	2.64	294.44	9,193.6	115.4	-254.0	-99.2	0.00	0.00	0.00
9,300.0	2.64	294.44	9,293.5	117.3	-258.2	-100.8	0.00	0.00	0.00
9,400.0	2.64	294.44	9,393.4	119.2	-262.3	-102.5	0.00	0.00	0.00
9,500.0	2.64	294.44	9,493.3	121.1	-266.5	-104.1	0.00	0.00	0.00
9,600.0	2.64	294.44	9,593.2	123.0	-270.7	-105.7	0.00	0.00	0.00
9,700.0	2.64	294.44	9,693.1	125.0	-274.9	-107.4	0.00	0.00	0.00
9,800.0	2.64	294.44	9,793.0	126.9	-279.1	-109.0	0.00	0.00	0.00
9,900.0	2.64	294.44	9,892.9	128.8	-283.3	-110.6	0.00	0.00	0.00
10,000.0	2.64	294.44	9,992.8	130.7	-287.5	-112.3	0.00	0.00	0.00
10,100.0	2.64	294.44	10,092.7	132.6	-291.6	-113.9	0.00	0.00	0.00
10,200.0	2.64	294.44	10,192.6	134.5	-295.8	-115.5	0.00	0.00	0.00
10,300.0	2.64	294.44	10,292.5	136.4	-300.0	-117.2	0.00	0.00	0.00
10,400.0	2.64	294.44	10,392.4	138.3	-304.2	-118.8	0.00	0.00	0.00
10,500.0	2.64	294.44	10,492.3	140.2	-308.4	-120.4	0.00	0.00	0.00
10,600.0	2.64	294.44	10,592.1	142.1	-312.6	-122.1	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: #601H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #601H
TVD Reference: Kb = 25 @ 3435.0usft
MD Reference: Kb = 25 @ 3435.0usft
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	2.64	294.44	10,692.0	144.0	-316.8	-123.7	0.00	0.00	0.00
10,800.0	2.64	294.44	10,791.9	145.9	-320.9	-125.3	0.00	0.00	0.00
10,900.0	2.64	294.44	10,891.8	147.8	-325.1	-127.0	0.00	0.00	0.00
11,000.0	2.64	294.44	10,991.7	149.7	-329.3	-128.6	0.00	0.00	0.00
11,046.0	2.64	294.44	11,037.7	150.6	-331.2	-129.4	0.00	0.00	0.00
11,050.0	2.47	284.35	11,041.7	150.6	-331.4	-129.4	12.00	-4.10	-253.61
11,075.0	3.36	224.74	11,066.6	150.2	-332.4	-129.0	12.00	3.56	-238.42
11,100.0	5.87	203.42	11,091.6	148.5	-333.5	-127.2	12.00	10.04	-85.28
11,125.0	8.70	195.32	11,116.4	145.5	-334.5	-124.1	12.00	11.30	-32.42
11,150.0	11.61	191.21	11,141.0	141.2	-335.5	-119.8	12.00	11.65	-16.44
11,175.0	14.56	188.74	11,165.3	135.7	-336.4	-114.2	12.00	11.79	-9.89
11,200.0	17.52	187.08	11,189.3	128.8	-337.4	-107.3	12.00	11.86	-6.61
11,225.0	20.50	185.90	11,213.0	120.7	-338.3	-99.2	12.00	11.90	-4.74
11,250.0	23.48	185.00	11,236.2	111.4	-339.2	-89.8	12.00	11.93	-3.58
11,275.0	26.47	184.30	11,258.8	100.9	-340.0	-79.2	12.00	11.94	-2.82
11,300.0	29.45	183.73	11,280.9	89.2	-340.8	-67.5	12.00	11.95	-2.28
11,325.0	32.44	183.25	11,302.3	76.4	-341.6	-54.7	12.00	11.96	-1.90
11,350.0	35.44	182.85	11,323.1	62.4	-342.4	-40.7	12.00	11.97	-1.61
11,375.0	38.43	182.51	11,343.0	47.4	-343.1	-25.7	12.00	11.97	-1.39
11,400.0	41.42	182.20	11,362.2	31.4	-343.7	-9.7	12.00	11.97	-1.22
11,425.0	44.42	181.93	11,380.5	14.4	-344.3	7.4	12.00	11.98	-1.08
11,450.0	47.41	181.69	11,397.9	-3.6	-344.9	25.3	12.00	11.98	-0.97
11,475.0	50.41	181.47	11,414.3	-22.4	-345.4	44.1	12.00	11.98	-0.88
11,500.0	53.40	181.27	11,429.8	-42.1	-345.9	63.8	12.00	11.98	-0.81
11,525.0	56.40	181.08	11,444.1	-62.5	-346.3	84.2	12.00	11.98	-0.75
11,550.0	59.40	180.90	11,457.4	-83.7	-346.7	105.4	12.00	11.99	-0.70
11,575.0	62.39	180.74	11,469.6	-105.5	-347.0	127.2	12.00	11.99	-0.66
11,600.0	65.39	180.59	11,480.6	-128.0	-347.2	149.6	12.00	11.99	-0.62
11,622.6	68.10	180.45	11,489.5	-148.7	-347.4	170.4	12.00	11.99	-0.59
FTP(Hunter 21 st com #601H)									
11,625.0	68.39	180.44	11,490.4	-150.9	-347.4	172.6	12.00	11.99	-0.58
11,650.0	71.38	180.30	11,499.0	-174.4	-347.6	196.0	12.00	11.99	-0.57
11,675.0	74.38	180.16	11,506.4	-198.3	-347.7	219.8	12.00	11.99	-0.55
11,700.0	77.38	180.03	11,512.4	-222.5	-347.7	244.0	12.00	11.99	-0.53
11,725.0	80.37	179.90	11,517.3	-247.1	-347.7	268.5	12.00	11.99	-0.52
11,750.0	83.37	179.77	11,520.8	-271.8	-347.6	293.2	12.00	11.99	-0.51
11,775.0	86.37	179.64	11,523.0	-296.7	-347.5	318.1	12.00	11.99	-0.50
11,800.0	89.37	179.52	11,524.0	-321.7	-347.3	343.0	12.00	11.99	-0.50
11,805.3	90.00	179.49	11,524.0	-327.0	-347.3	348.2	12.00	11.99	-0.50
11,900.0	90.00	179.49	11,524.0	-421.7	-346.4	442.7	0.00	0.00	0.00
12,000.0	90.00	179.49	11,524.0	-521.7	-345.6	542.4	0.00	0.00	0.00
12,100.0	90.00	179.49	11,524.0	-621.7	-344.7	642.2	0.00	0.00	0.00
12,200.0	90.00	179.49	11,524.0	-721.7	-343.8	741.9	0.00	0.00	0.00
12,300.0	90.00	179.49	11,524.0	-821.7	-342.9	841.7	0.00	0.00	0.00
12,400.0	90.00	179.49	11,524.0	-921.7	-342.0	941.4	0.00	0.00	0.00
12,500.0	90.00	179.49	11,524.0	-1,021.7	-341.1	1,041.2	0.00	0.00	0.00
12,600.0	90.00	179.49	11,524.0	-1,121.7	-340.2	1,140.9	0.00	0.00	0.00
12,700.0	90.00	179.49	11,524.0	-1,221.7	-339.3	1,240.6	0.00	0.00	0.00
12,800.0	90.00	179.49	11,524.0	-1,321.7	-338.4	1,340.4	0.00	0.00	0.00
12,900.0	90.00	179.49	11,524.0	-1,421.7	-337.5	1,440.1	0.00	0.00	0.00
13,000.0	90.00	179.49	11,524.0	-1,521.7	-336.7	1,539.9	0.00	0.00	0.00
13,100.0	90.00	179.49	11,524.0	-1,621.6	-335.8	1,639.6	0.00	0.00	0.00
13,200.0	90.00	179.49	11,524.0	-1,721.6	-334.9	1,739.3	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: #601H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #601H
 TVD Reference: Kb = 25 @ 3435.0usft
 MD Reference: Kb = 25 @ 3435.0usft
 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)
13,300.0	90.00	179.49	11,524.0	-1,821.6	-334.0	1,839.1	0.00	0.00	0.00
13,400.0	90.00	179.49	11,524.0	-1,921.6	-333.1	1,938.8	0.00	0.00	0.00
13,500.0	90.00	179.49	11,524.0	-2,021.6	-332.2	2,038.6	0.00	0.00	0.00
13,600.0	90.00	179.49	11,524.0	-2,121.6	-331.3	2,138.3	0.00	0.00	0.00
13,700.0	90.00	179.49	11,524.0	-2,221.6	-330.4	2,238.0	0.00	0.00	0.00
13,800.0	90.00	179.49	11,524.0	-2,321.6	-329.5	2,337.8	0.00	0.00	0.00
13,900.0	90.00	179.49	11,524.0	-2,421.6	-328.7	2,437.5	0.00	0.00	0.00
14,000.0	90.00	179.49	11,524.0	-2,521.6	-327.8	2,537.3	0.00	0.00	0.00
14,100.0	90.00	179.49	11,524.0	-2,621.6	-326.9	2,637.0	0.00	0.00	0.00
14,200.0	90.00	179.49	11,524.0	-2,721.6	-326.0	2,736.7	0.00	0.00	0.00
14,300.0	90.00	179.49	11,524.0	-2,821.6	-325.1	2,836.5	0.00	0.00	0.00
14,400.0	90.00	179.49	11,524.0	-2,921.6	-324.2	2,936.2	0.00	0.00	0.00
14,500.0	90.00	179.49	11,524.0	-3,021.6	-323.3	3,036.0	0.00	0.00	0.00
14,600.0	90.00	179.49	11,524.0	-3,121.6	-322.4	3,135.7	0.00	0.00	0.00
14,700.0	90.00	179.49	11,524.0	-3,221.6	-321.5	3,235.5	0.00	0.00	0.00
14,800.0	90.00	179.49	11,524.0	-3,321.6	-320.7	3,335.2	0.00	0.00	0.00
14,900.0	90.00	179.49	11,524.0	-3,421.6	-319.8	3,434.9	0.00	0.00	0.00
15,000.0	90.00	179.49	11,524.0	-3,521.6	-318.9	3,534.7	0.00	0.00	0.00
15,100.0	90.00	179.49	11,524.0	-3,621.6	-318.0	3,634.4	0.00	0.00	0.00
15,200.0	90.00	179.49	11,524.0	-3,721.6	-317.1	3,734.2	0.00	0.00	0.00
15,300.0	90.00	179.49	11,524.0	-3,821.6	-316.2	3,833.9	0.00	0.00	0.00
15,400.0	90.00	179.49	11,524.0	-3,921.6	-315.3	3,933.6	0.00	0.00	0.00
15,500.0	90.00	179.49	11,524.0	-4,021.6	-314.4	4,033.4	0.00	0.00	0.00
15,600.0	90.00	179.49	11,524.0	-4,121.5	-313.5	4,133.1	0.00	0.00	0.00
15,700.0	90.00	179.49	11,524.0	-4,221.5	-312.7	4,232.9	0.00	0.00	0.00
15,800.0	90.00	179.49	11,524.0	-4,321.5	-311.8	4,332.6	0.00	0.00	0.00
15,900.0	90.00	179.49	11,524.0	-4,421.5	-310.9	4,432.3	0.00	0.00	0.00
16,000.0	90.00	179.49	11,524.0	-4,521.5	-310.0	4,532.1	0.00	0.00	0.00
16,100.0	90.00	179.49	11,524.0	-4,621.5	-309.1	4,631.8	0.00	0.00	0.00
16,200.0	90.00	179.49	11,524.0	-4,721.5	-308.2	4,731.6	0.00	0.00	0.00
16,300.0	90.00	179.49	11,524.0	-4,821.5	-307.3	4,831.3	0.00	0.00	0.00
16,335.5	90.00	179.49	11,524.0	-4,857.0	-307.0	4,866.7	0.00	0.00	0.00

PBHL(Hunter 21 st com #601H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Hunter 21 st com #1 - hit/miss target - Shape - plan misses target center by 37.5usft at 11622.6usft MD (11489.5 TVD, -148.7 N, -347.4 E) - Point	0.00	0.00	11,524.0	-134.0	-349.0	472,896.00	835,903.00	32° 17' 47.274 N	103° 22' 48.087 W
PBHL(Hunter 21 st com - plan hits target center - Point	0.00	0.00	11,524.0	-4,857.0	-307.0	468,173.00	835,945.00	32° 17' 0.539 N	103° 22' 48.087 W