

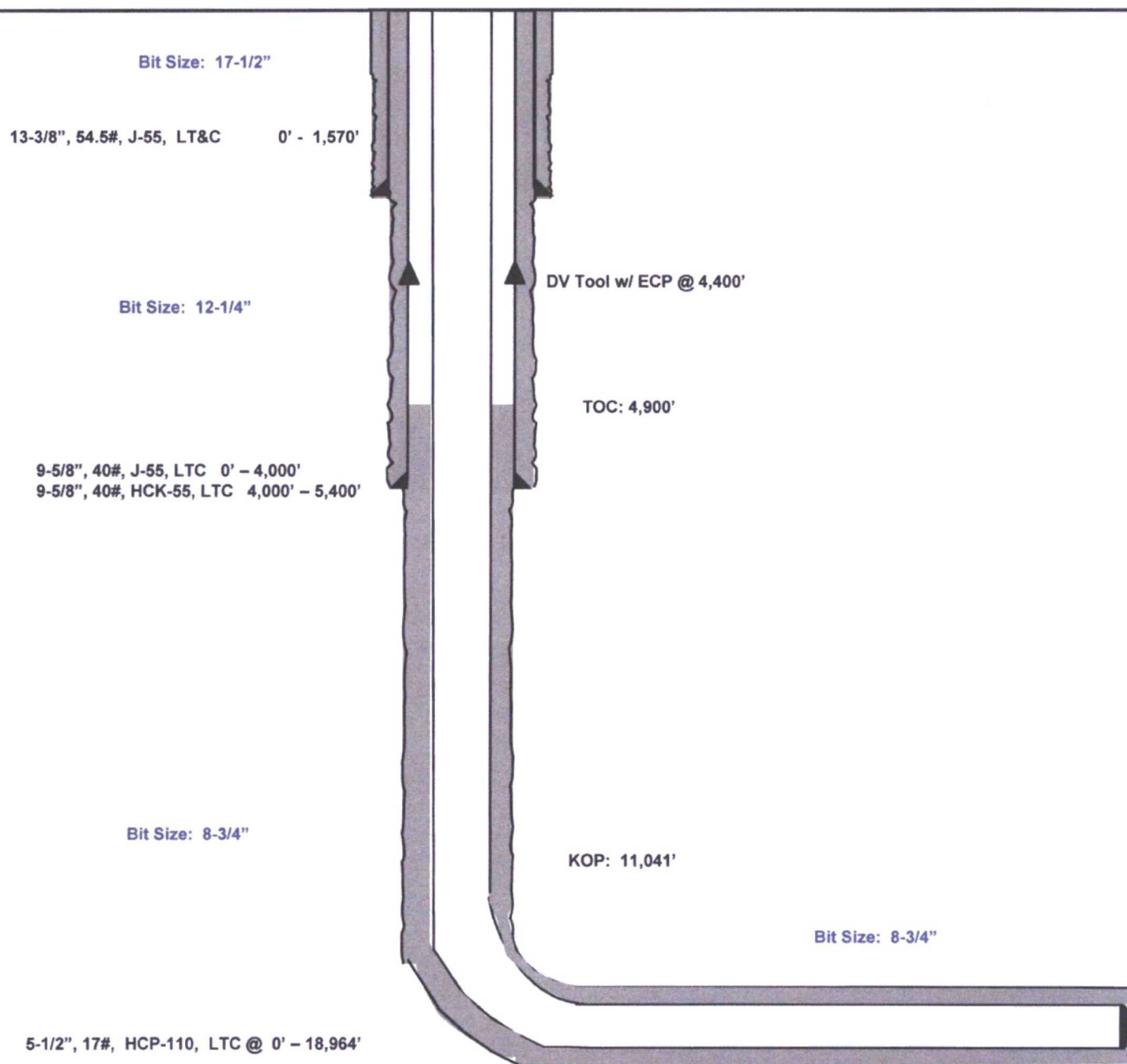
Hunter 21 State Com #604H

Lea County, New Mexico
Proposed Wellbore

200' FNL
2333' FWL
Section 21
T-23-S, R-35-E

API: 30-025-*****

KB: 3,456'
GL: 3,431'



Lateral: 18,964' MD, 11,519' TVD

BH Location: 2410' FNL & 2587' FEL
Section 28
T-23-S, R-35-E



Lea County, NM (NAD 83 NME)

Hunter 21 State Com #604H

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: #604H

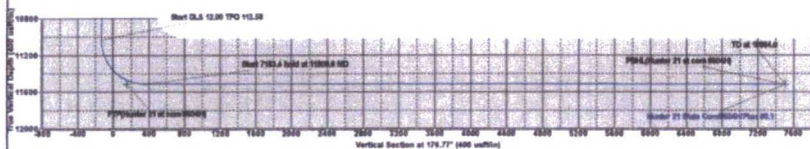
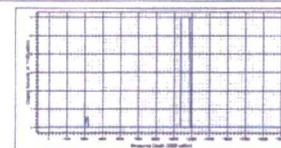
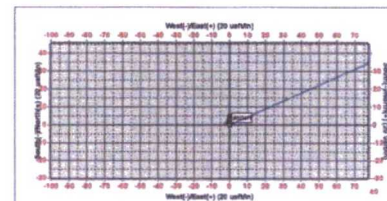
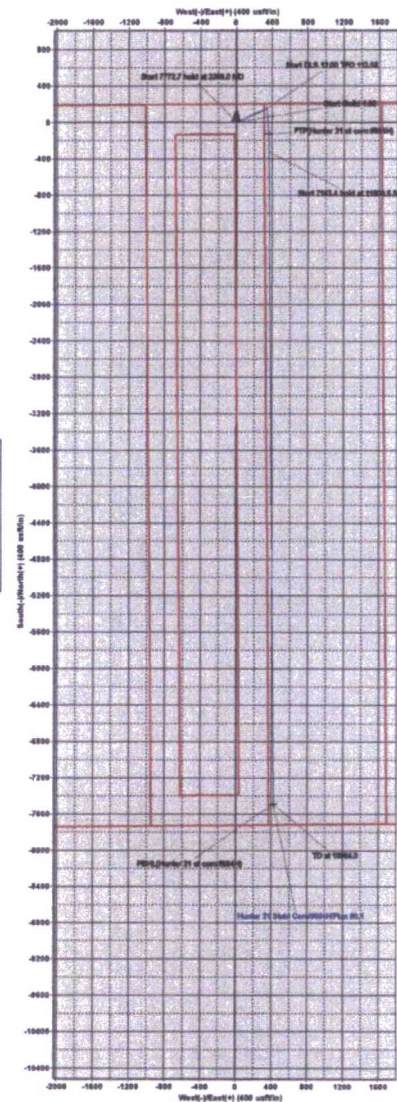
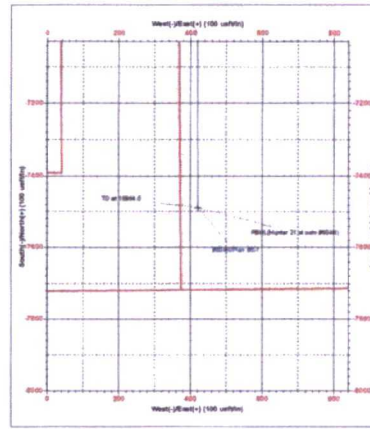
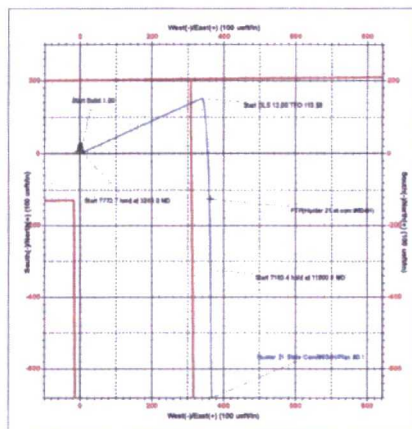
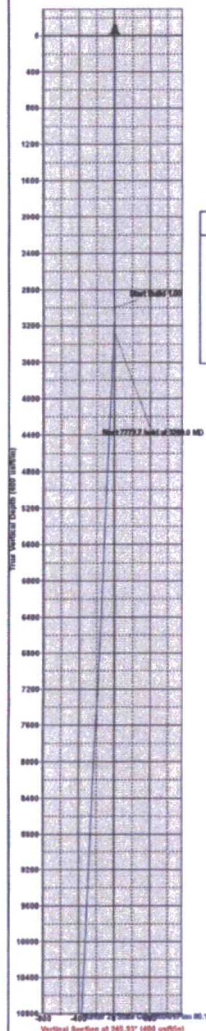
KB = 26 @ 3456.8uRt 3431.0
Northing 473046.00 Easting 837905.00 Latitude 32° 17' 48.582 N Longitude 103° 22' 34.750 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	V/Sect
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
3269.0	2.69	65.93	3268.9	2.6	5.8	1.00	65.93	-2.2
11041.7	2.69	65.93	11033.0	151.3	338.8	0.00	0.00	-132.0
11800.6	90.00	179.53	11519.0	-325.9	363.6	12.00	113.58	345.8
18964.0	90.00	179.53	11519.0	-7489.0	422.0	0.00	0.00	7500.9

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(Hunter 21 st com #604H)	11519.0	-126.0	362.0	472929.00	838267.00
PSHL(Hunter 21 st com #604H)	11519.0	-7489.0	422.0	469957.00	839327.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#604H

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: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
TVD Reference: KB = 25 @ 3456.0usft
MD Reference: KB = 25 @ 3456.0usft
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 #604H

Well Position +N/-S 16.0 usft Northing: 473,046.00 usft Latitude: 32° 17' 48.582 N
 +E/-W 1,653.0 usft Easting: 837,905.00 usft Longitude: 103° 22' 24.750 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** Ground Level: 3,431.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/12/2017	6.81	60.15	47,951.87321392

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	176.77

Plan Survey Tool Program Date 12/12/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	18,964.0 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	
3,269.0	2.69	65.93	3,268.9	2.6	5.8	1.00	1.00	0.00	65.93	
11,041.7	2.69	65.93	11,033.0	151.3	338.8	0.00	0.00	0.00	0.00	
11,800.6	90.00	179.53	11,519.0	-325.9	363.6	12.00	11.50	14.97	113.58	
18,964.0	90.00	179.53	11,519.0	-7,489.0	422.0	0.00	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: #604H
 Wellbore: OH
 Design: Plan #0.1

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

Well #604H
 KB = 25 @ 3456.0usft
 KB = 25 @ 3456.0usft
 Grid
 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	65.93	3,100.0	0.4	0.8	-0.3	1.00	1.00	0.00
3,200.0	2.00	65.93	3,200.0	1.4	3.2	-1.2	1.00	1.00	0.00
3,269.0	2.69	65.93	3,268.9	2.6	5.8	-2.2	1.00	1.00	0.00
3,300.0	2.69	65.93	3,299.9	3.2	7.1	-2.8	0.00	0.00	0.00
3,400.0	2.69	65.93	3,399.8	5.1	11.4	-4.4	0.00	0.00	0.00
3,500.0	2.69	65.93	3,499.6	7.0	15.7	-6.1	0.00	0.00	0.00
3,600.0	2.69	65.93	3,599.5	8.9	19.9	-7.8	0.00	0.00	0.00
3,700.0	2.69	65.93	3,699.4	10.8	24.2	-9.4	0.00	0.00	0.00
3,800.0	2.69	65.93	3,799.3	12.7	28.5	-11.1	0.00	0.00	0.00
3,900.0	2.69	65.93	3,899.2	14.6	32.8	-12.8	0.00	0.00	0.00
4,000.0	2.69	65.93	3,999.1	16.6	37.1	-14.5	0.00	0.00	0.00
4,100.0	2.69	65.93	4,099.0	18.5	41.4	-16.1	0.00	0.00	0.00
4,200.0	2.69	65.93	4,198.9	20.4	45.7	-17.8	0.00	0.00	0.00
4,300.0	2.69	65.93	4,298.8	22.3	49.9	-19.5	0.00	0.00	0.00
4,400.0	2.69	65.93	4,398.7	24.2	54.2	-21.1	0.00	0.00	0.00
4,500.0	2.69	65.93	4,498.5	26.1	58.5	-22.8	0.00	0.00	0.00
4,600.0	2.69	65.93	4,598.4	28.0	62.8	-24.5	0.00	0.00	0.00
4,700.0	2.69	65.93	4,698.3	30.0	67.1	-26.1	0.00	0.00	0.00
4,800.0	2.69	65.93	4,798.2	31.9	71.4	-27.8	0.00	0.00	0.00
4,900.0	2.69	65.93	4,898.1	33.8	75.7	-29.5	0.00	0.00	0.00
5,000.0	2.69	65.93	4,998.0	35.7	79.9	-31.1	0.00	0.00	0.00
5,100.0	2.69	65.93	5,097.9	37.6	84.2	-32.8	0.00	0.00	0.00
5,200.0	2.69	65.93	5,197.8	39.5	88.5	-34.5	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: #604H
 Wellbore: OH
 Design: Plan #0.1

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

Well #604H
 KB = 25 @ 3456.0usft
 KB = 25 @ 3456.0usft
 Grid
 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	2.69	65.93	5,297.7	41.4	92.8	-36.2	0.00	0.00	0.00
5,400.0	2.69	65.93	5,397.6	43.4	97.1	-37.8	0.00	0.00	0.00
5,500.0	2.69	65.93	5,497.4	45.3	101.4	-39.5	0.00	0.00	0.00
5,600.0	2.69	65.93	5,597.3	47.2	105.6	-41.2	0.00	0.00	0.00
5,700.0	2.69	65.93	5,697.2	49.1	109.9	-42.8	0.00	0.00	0.00
5,800.0	2.69	65.93	5,797.1	51.0	114.2	-44.5	0.00	0.00	0.00
5,900.0	2.69	65.93	5,897.0	52.9	118.5	-46.2	0.00	0.00	0.00
6,000.0	2.69	65.93	5,996.9	54.8	122.8	-47.8	0.00	0.00	0.00
6,100.0	2.69	65.93	6,096.8	56.7	127.1	-49.5	0.00	0.00	0.00
6,200.0	2.69	65.93	6,196.7	58.7	131.4	-51.2	0.00	0.00	0.00
6,300.0	2.69	65.93	6,296.6	60.6	135.6	-52.8	0.00	0.00	0.00
6,400.0	2.69	65.93	6,396.5	62.5	139.9	-54.5	0.00	0.00	0.00
6,500.0	2.69	65.93	6,496.3	64.4	144.2	-56.2	0.00	0.00	0.00
6,600.0	2.69	65.93	6,596.2	66.3	148.5	-57.9	0.00	0.00	0.00
6,700.0	2.69	65.93	6,696.1	68.2	152.8	-59.5	0.00	0.00	0.00
6,800.0	2.69	65.93	6,796.0	70.1	157.1	-61.2	0.00	0.00	0.00
6,900.0	2.69	65.93	6,895.9	72.1	161.4	-62.9	0.00	0.00	0.00
7,000.0	2.69	65.93	6,995.8	74.0	165.6	-64.5	0.00	0.00	0.00
7,100.0	2.69	65.93	7,095.7	75.9	169.9	-66.2	0.00	0.00	0.00
7,200.0	2.69	65.93	7,195.6	77.8	174.2	-67.9	0.00	0.00	0.00
7,300.0	2.69	65.93	7,295.5	79.7	178.5	-69.5	0.00	0.00	0.00
7,400.0	2.69	65.93	7,395.3	81.6	182.8	-71.2	0.00	0.00	0.00
7,500.0	2.69	65.93	7,495.2	83.5	187.1	-72.9	0.00	0.00	0.00
7,600.0	2.69	65.93	7,595.1	85.5	191.3	-74.6	0.00	0.00	0.00
7,700.0	2.69	65.93	7,695.0	87.4	195.6	-76.2	0.00	0.00	0.00
7,800.0	2.69	65.93	7,794.9	89.3	199.9	-77.9	0.00	0.00	0.00
7,900.0	2.69	65.93	7,894.8	91.2	204.2	-79.6	0.00	0.00	0.00
8,000.0	2.69	65.93	7,994.7	93.1	208.5	-81.2	0.00	0.00	0.00
8,100.0	2.69	65.93	8,094.6	95.0	212.8	-82.9	0.00	0.00	0.00
8,200.0	2.69	65.93	8,194.5	96.9	217.1	-84.6	0.00	0.00	0.00
8,300.0	2.69	65.93	8,294.4	98.8	221.3	-86.2	0.00	0.00	0.00
8,400.0	2.69	65.93	8,394.2	100.8	225.6	-87.9	0.00	0.00	0.00
8,500.0	2.69	65.93	8,494.1	102.7	229.9	-89.6	0.00	0.00	0.00
8,600.0	2.69	65.93	8,594.0	104.6	234.2	-91.2	0.00	0.00	0.00
8,700.0	2.69	65.93	8,693.9	106.5	238.5	-92.9	0.00	0.00	0.00
8,800.0	2.69	65.93	8,793.8	108.4	242.8	-94.6	0.00	0.00	0.00
8,900.0	2.69	65.93	8,893.7	110.3	247.0	-96.3	0.00	0.00	0.00
9,000.0	2.69	65.93	8,993.6	112.2	251.3	-97.9	0.00	0.00	0.00
9,100.0	2.69	65.93	9,093.5	114.2	255.6	-99.6	0.00	0.00	0.00
9,200.0	2.69	65.93	9,193.4	116.1	259.9	-101.3	0.00	0.00	0.00
9,300.0	2.69	65.93	9,293.3	118.0	264.2	-102.9	0.00	0.00	0.00
9,400.0	2.69	65.93	9,393.1	119.9	268.5	-104.6	0.00	0.00	0.00
9,500.0	2.69	65.93	9,493.0	121.8	272.8	-106.3	0.00	0.00	0.00
9,600.0	2.69	65.93	9,592.9	123.7	277.0	-107.9	0.00	0.00	0.00
9,700.0	2.69	65.93	9,692.8	125.6	281.3	-109.6	0.00	0.00	0.00
9,800.0	2.69	65.93	9,792.7	127.6	285.6	-111.3	0.00	0.00	0.00
9,900.0	2.69	65.93	9,892.6	129.5	289.9	-113.0	0.00	0.00	0.00
10,000.0	2.69	65.93	9,992.5	131.4	294.2	-114.6	0.00	0.00	0.00
10,100.0	2.69	65.93	10,092.4	133.3	298.5	-116.3	0.00	0.00	0.00
10,200.0	2.69	65.93	10,192.3	135.2	302.8	-118.0	0.00	0.00	0.00
10,300.0	2.69	65.93	10,292.2	137.1	307.0	-119.6	0.00	0.00	0.00
10,400.0	2.69	65.93	10,392.0	139.0	311.3	-121.3	0.00	0.00	0.00
10,500.0	2.69	65.93	10,491.9	140.9	315.6	-123.0	0.00	0.00	0.00
10,600.0	2.69	65.93	10,591.8	142.9	319.9	-124.6	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: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
TVD Reference: KB = 25 @ 3456.0usft
MD Reference: KB = 25 @ 3456.0usft
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	2.69	65.93	10,691.7	144.8	324.2	-126.3	0.00	0.00	0.00
10,800.0	2.69	65.93	10,791.6	146.7	328.5	-128.0	0.00	0.00	0.00
10,900.0	2.69	65.93	10,891.5	148.6	332.7	-129.6	0.00	0.00	0.00
11,000.0	2.69	65.93	10,991.4	150.5	337.0	-131.3	0.00	0.00	0.00
11,041.7	2.69	65.93	11,033.0	151.3	338.8	-132.0	0.00	0.00	0.00
11,050.0	2.47	87.73	11,041.3	151.4	339.2	-132.1	12.00	-2.68	261.84
11,075.0	3.82	139.42	11,066.3	150.8	340.3	-131.4	12.00	5.42	206.76
11,100.0	6.41	157.01	11,091.2	148.9	341.3	-129.4	12.00	10.36	70.38
11,125.0	9.25	164.21	11,116.0	145.7	342.4	-126.2	12.00	11.36	28.80
11,150.0	12.17	168.02	11,140.5	141.1	343.5	-121.6	12.00	11.67	15.23
11,175.0	15.12	170.36	11,164.8	135.3	344.6	-115.7	12.00	11.80	9.38
11,200.0	18.09	171.96	11,188.8	128.3	345.7	-108.6	12.00	11.86	6.37
11,225.0	21.06	173.11	11,212.3	120.0	346.8	-100.3	12.00	11.90	4.62
11,250.0	24.04	174.00	11,235.4	110.5	347.9	-90.7	12.00	11.92	3.52
11,275.0	27.03	174.69	11,258.0	99.7	348.9	-79.9	12.00	11.94	2.79
11,300.0	30.01	175.26	11,279.9	87.8	350.0	-68.0	12.00	11.95	2.27
11,325.0	33.00	175.73	11,301.2	74.8	351.0	-55.0	12.00	11.96	1.89
11,350.0	36.00	176.14	11,321.8	60.7	352.0	-40.8	12.00	11.97	1.61
11,375.0	38.99	176.48	11,341.7	45.5	353.0	-25.6	12.00	11.97	1.40
11,400.0	41.98	176.79	11,360.7	29.3	353.9	-9.4	12.00	11.97	1.23
11,425.0	44.98	177.06	11,378.8	12.1	354.8	7.8	12.00	11.98	1.09
11,450.0	47.97	177.31	11,396.0	-6.0	355.7	26.0	12.00	11.98	0.98
11,475.0	50.97	177.53	11,412.3	-24.9	356.6	45.0	12.00	11.98	0.89
11,500.0	53.96	177.74	11,427.5	-44.8	357.4	64.8	12.00	11.98	0.82
11,525.0	56.96	177.93	11,441.7	-65.3	358.2	85.4	12.00	11.98	0.76
11,550.0	59.95	178.11	11,454.8	-86.6	358.9	106.7	12.00	11.98	0.71
11,575.0	62.95	178.27	11,466.7	-108.6	359.6	128.6	12.00	11.99	0.67
11,600.0	65.95	178.43	11,477.5	-131.1	360.3	151.2	12.00	11.99	0.63
11,611.2	67.29	178.50	11,482.0	-141.4	360.5	161.5	12.00	11.99	0.61
FTP(Hunter 21 st com #604H)									
11,625.0	68.94	178.58	11,487.1	-154.2	360.9	174.2	12.00	11.99	0.60
11,650.0	71.94	178.73	11,495.5	-177.7	361.4	197.8	12.00	11.99	0.58
11,675.0	74.94	178.87	11,502.6	-201.7	361.9	221.7	12.00	11.99	0.56
11,700.0	77.93	179.01	11,508.4	-226.0	362.4	246.0	12.00	11.99	0.55
11,725.0	80.93	179.14	11,513.0	-250.6	362.8	270.6	12.00	11.99	0.53
11,750.0	83.93	179.27	11,516.3	-275.3	363.1	295.3	12.00	11.99	0.53
11,775.0	86.93	179.40	11,518.3	-300.2	363.4	320.2	12.00	11.99	0.52
11,800.6	90.00	179.53	11,519.0	-325.9	363.6	345.8	12.00	11.99	0.52
11,900.0	90.00	179.53	11,519.0	-425.2	364.4	445.1	0.00	0.00	0.00
12,000.0	90.00	179.53	11,519.0	-525.2	365.3	544.9	0.00	0.00	0.00
12,100.0	90.00	179.53	11,519.0	-625.2	366.1	644.8	0.00	0.00	0.00
12,200.0	90.00	179.53	11,519.0	-725.2	366.9	744.7	0.00	0.00	0.00
12,300.0	90.00	179.53	11,519.0	-825.2	367.7	844.6	0.00	0.00	0.00
12,400.0	90.00	179.53	11,519.0	-925.2	368.5	944.5	0.00	0.00	0.00
12,500.0	90.00	179.53	11,519.0	-1,025.2	369.3	1,044.4	0.00	0.00	0.00
12,600.0	90.00	179.53	11,519.0	-1,125.2	370.1	1,144.2	0.00	0.00	0.00
12,700.0	90.00	179.53	11,519.0	-1,225.2	371.0	1,244.1	0.00	0.00	0.00
12,800.0	90.00	179.53	11,519.0	-1,325.2	371.8	1,344.0	0.00	0.00	0.00
12,900.0	90.00	179.53	11,519.0	-1,425.2	372.6	1,443.9	0.00	0.00	0.00
13,000.0	90.00	179.53	11,519.0	-1,525.2	373.4	1,543.8	0.00	0.00	0.00
13,100.0	90.00	179.53	11,519.0	-1,625.2	374.2	1,643.7	0.00	0.00	0.00
13,200.0	90.00	179.53	11,519.0	-1,725.2	375.0	1,743.6	0.00	0.00	0.00
13,300.0	90.00	179.53	11,519.0	-1,825.2	375.8	1,843.4	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: #604H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
TVD Reference: KB = 25 @ 3456.0usft
MD Reference: KB = 25 @ 3456.0usft
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	179.53	11,519.0	-1,925.2	376.7	1,943.3	0.00	0.00	0.00
13,500.0	90.00	179.53	11,519.0	-2,025.2	377.5	2,043.2	0.00	0.00	0.00
13,600.0	90.00	179.53	11,519.0	-2,125.2	378.3	2,143.1	0.00	0.00	0.00
13,700.0	90.00	179.53	11,519.0	-2,225.2	379.1	2,243.0	0.00	0.00	0.00
13,800.0	90.00	179.53	11,519.0	-2,325.2	379.9	2,342.9	0.00	0.00	0.00
13,900.0	90.00	179.53	11,519.0	-2,425.2	380.7	2,442.7	0.00	0.00	0.00
14,000.0	90.00	179.53	11,519.0	-2,525.2	381.6	2,542.6	0.00	0.00	0.00
14,100.0	90.00	179.53	11,519.0	-2,625.2	382.4	2,642.5	0.00	0.00	0.00
14,200.0	90.00	179.53	11,519.0	-2,725.2	383.2	2,742.4	0.00	0.00	0.00
14,300.0	90.00	179.53	11,519.0	-2,825.1	384.0	2,842.3	0.00	0.00	0.00
14,400.0	90.00	179.53	11,519.0	-2,925.1	384.8	2,942.2	0.00	0.00	0.00
14,500.0	90.00	179.53	11,519.0	-3,025.1	385.6	3,042.0	0.00	0.00	0.00
14,600.0	90.00	179.53	11,519.0	-3,125.1	386.4	3,141.9	0.00	0.00	0.00
14,700.0	90.00	179.53	11,519.0	-3,225.1	387.3	3,241.8	0.00	0.00	0.00
14,800.0	90.00	179.53	11,519.0	-3,325.1	388.1	3,341.7	0.00	0.00	0.00
14,900.0	90.00	179.53	11,519.0	-3,425.1	388.9	3,441.6	0.00	0.00	0.00
15,000.0	90.00	179.53	11,519.0	-3,525.1	389.7	3,541.5	0.00	0.00	0.00
15,100.0	90.00	179.53	11,519.0	-3,625.1	390.5	3,641.4	0.00	0.00	0.00
15,200.0	90.00	179.53	11,519.0	-3,725.1	391.3	3,741.2	0.00	0.00	0.00
15,300.0	90.00	179.53	11,519.0	-3,825.1	392.1	3,841.1	0.00	0.00	0.00
15,400.0	90.00	179.53	11,519.0	-3,925.1	393.0	3,941.0	0.00	0.00	0.00
15,500.0	90.00	179.53	11,519.0	-4,025.1	393.8	4,040.9	0.00	0.00	0.00
15,600.0	90.00	179.53	11,519.0	-4,125.1	394.6	4,140.8	0.00	0.00	0.00
15,700.0	90.00	179.53	11,519.0	-4,225.1	395.4	4,240.7	0.00	0.00	0.00
15,800.0	90.00	179.53	11,519.0	-4,325.1	396.2	4,340.5	0.00	0.00	0.00
15,900.0	90.00	179.53	11,519.0	-4,425.1	397.0	4,440.4	0.00	0.00	0.00
16,000.0	90.00	179.53	11,519.0	-4,525.1	397.8	4,540.3	0.00	0.00	0.00
16,100.0	90.00	179.53	11,519.0	-4,625.1	398.7	4,640.2	0.00	0.00	0.00
16,200.0	90.00	179.53	11,519.0	-4,725.1	399.5	4,740.1	0.00	0.00	0.00
16,300.0	90.00	179.53	11,519.0	-4,825.1	400.3	4,840.0	0.00	0.00	0.00
16,400.0	90.00	179.53	11,519.0	-4,925.1	401.1	4,939.8	0.00	0.00	0.00
16,500.0	90.00	179.53	11,519.0	-5,025.1	401.9	5,039.7	0.00	0.00	0.00
16,600.0	90.00	179.53	11,519.0	-5,125.1	402.7	5,139.6	0.00	0.00	0.00
16,700.0	90.00	179.53	11,519.0	-5,225.1	403.6	5,239.5	0.00	0.00	0.00
16,800.0	90.00	179.53	11,519.0	-5,325.1	404.4	5,339.4	0.00	0.00	0.00
16,900.0	90.00	179.53	11,519.0	-5,425.1	405.2	5,439.3	0.00	0.00	0.00
17,000.0	90.00	179.53	11,519.0	-5,525.1	406.0	5,539.1	0.00	0.00	0.00
17,100.0	90.00	179.53	11,519.0	-5,625.1	406.8	5,639.0	0.00	0.00	0.00
17,200.0	90.00	179.53	11,519.0	-5,725.1	407.6	5,738.9	0.00	0.00	0.00
17,300.0	90.00	179.53	11,519.0	-5,825.0	408.4	5,838.8	0.00	0.00	0.00
17,400.0	90.00	179.53	11,519.0	-5,925.0	409.3	5,938.7	0.00	0.00	0.00
17,500.0	90.00	179.53	11,519.0	-6,025.0	410.1	6,038.6	0.00	0.00	0.00
17,600.0	90.00	179.53	11,519.0	-6,125.0	410.9	6,138.5	0.00	0.00	0.00
17,700.0	90.00	179.53	11,519.0	-6,225.0	411.7	6,238.3	0.00	0.00	0.00
17,800.0	90.00	179.53	11,519.0	-6,325.0	412.5	6,338.2	0.00	0.00	0.00
17,900.0	90.00	179.53	11,519.0	-6,425.0	413.3	6,438.1	0.00	0.00	0.00
18,000.0	90.00	179.53	11,519.0	-6,525.0	414.1	6,538.0	0.00	0.00	0.00
18,100.0	90.00	179.53	11,519.0	-6,625.0	415.0	6,637.9	0.00	0.00	0.00
18,200.0	90.00	179.53	11,519.0	-6,725.0	415.8	6,737.8	0.00	0.00	0.00
18,300.0	90.00	179.53	11,519.0	-6,825.0	416.6	6,837.6	0.00	0.00	0.00
18,400.0	90.00	179.53	11,519.0	-6,925.0	417.4	6,937.5	0.00	0.00	0.00
18,500.0	90.00	179.53	11,519.0	-7,025.0	418.2	7,037.4	0.00	0.00	0.00
18,600.0	90.00	179.53	11,519.0	-7,125.0	419.0	7,137.3	0.00	0.00	0.00
18,700.0	90.00	179.53	11,519.0	-7,225.0	419.8	7,237.2	0.00	0.00	0.00



Planning Report

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 Site: Hunter 21 State Com
 Well: #604H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #604H
 TVD Reference: KB = 25 @ 3456.0usft
 MD Reference: KB = 25 @ 3456.0usft
 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)
18,800.0	90.00	179.53	11,519.0	-7,325.0	420.7	7,337.1	0.00	0.00	0.00
18,900.0	90.00	179.53	11,519.0	-7,425.0	421.5	7,436.9	0.00	0.00	0.00
18,964.0	90.00	179.53	11,519.0	-7,489.0	422.0	7,500.9	0.00	0.00	0.00

PBHL(Hunter 21 st com #604H)

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(Hunter 21 st com #	0.00	0.00	11,519.0	-126.0	362.0	472,920.00	838,267.00	32° 17' 47.303 N	103° 22' 20.546 W
- plan misses target center by 40.2usft at 11611.2usft MD (11482.0 TVD, -141.4 N, 360.5 E)									
- Point									
PBHL(Hunter 21 st com	0.00	0.00	11,519.0	-7,489.0	422.0	465,557.00	838,327.00	32° 16' 34.444 N	103° 22' 20.615 W
- plan hits target center									
- Point									