

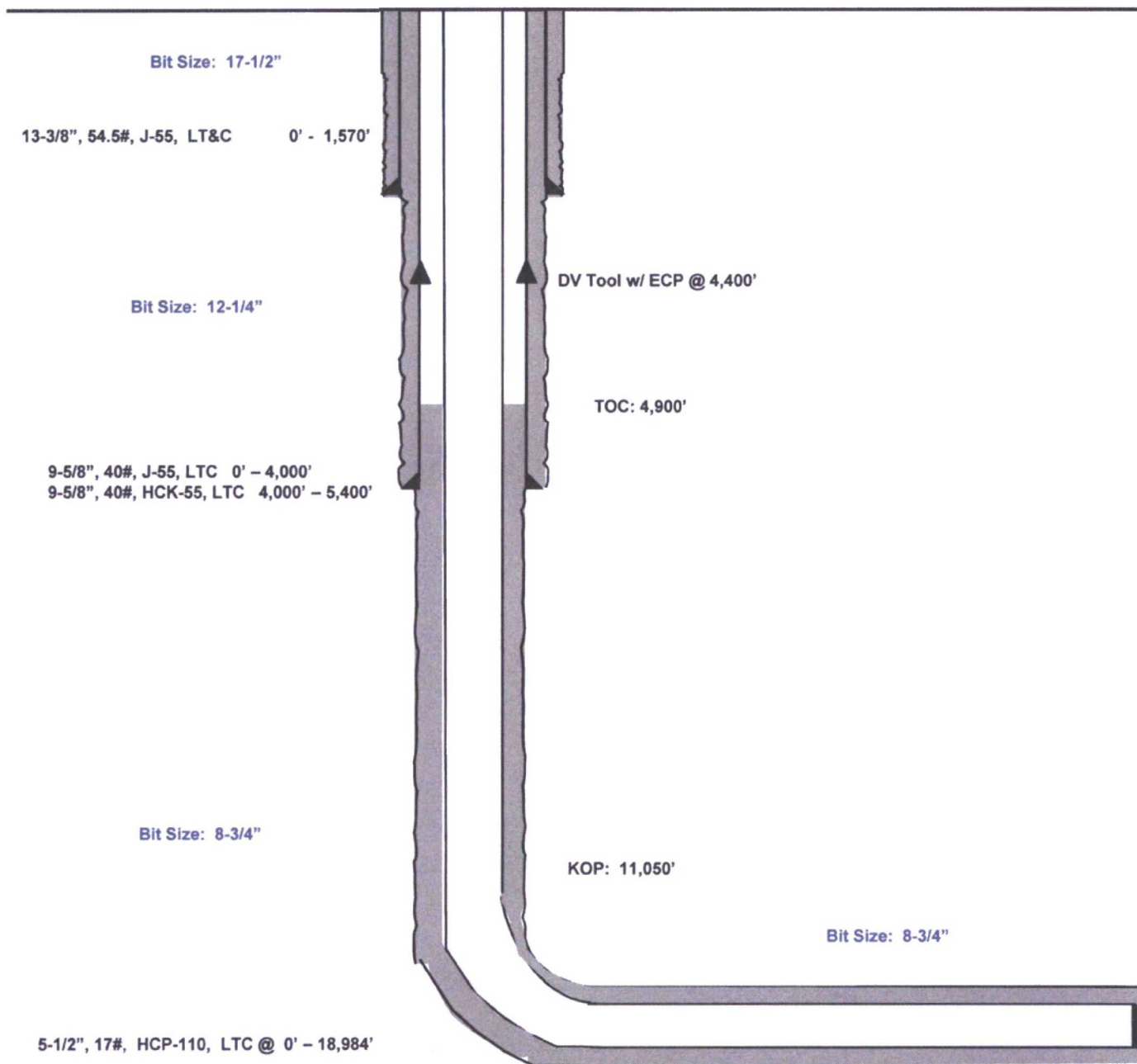
Hunter 21 State Com #607H

Lea County, New Mexico
Proposed Wellbore

577' FNL
1114' FEL
Section 21
T-23-S, R-35-E

API: 30-025-*****

KB: 3,464'
GL: 3,439'



Lateral: 18,984' MD, 11,505' TVD

BH Location: 2410' FNL & 330' FEL
Section 28
T-23-S, R-35-E



Lea County, NM (NAD 83 NME)

Hunter 21 State Com #607H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR83
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #607H

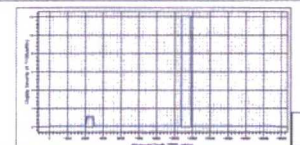
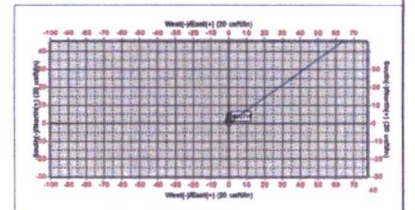
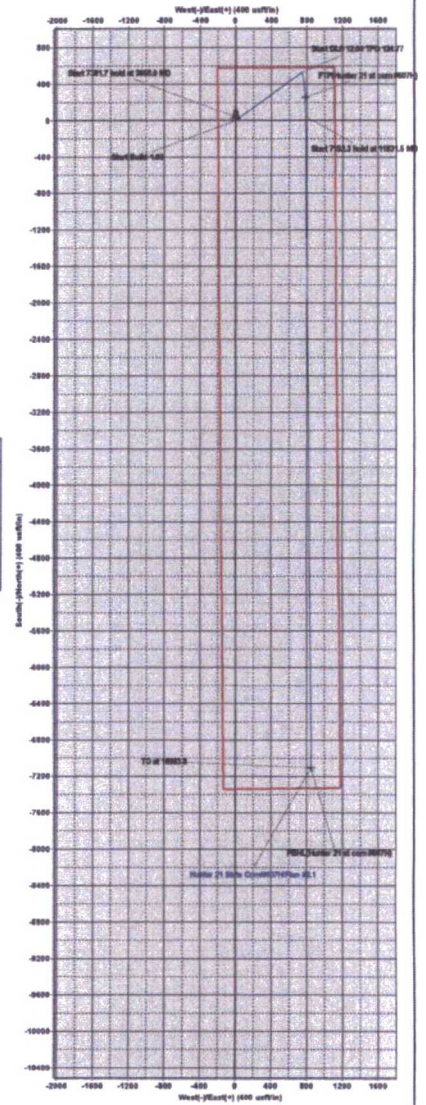
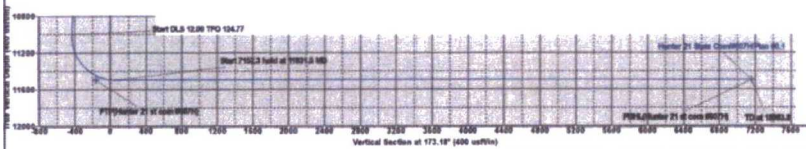
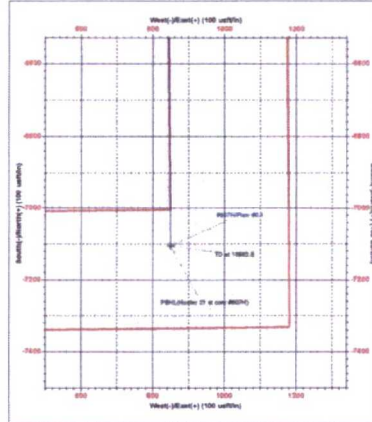
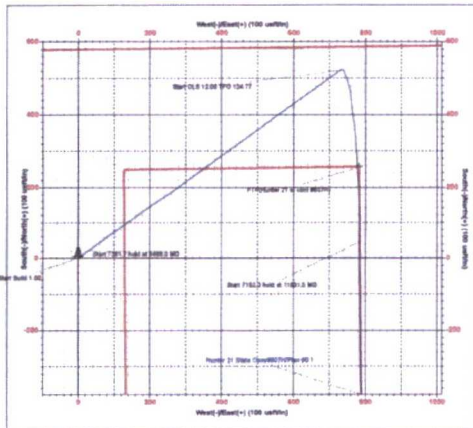
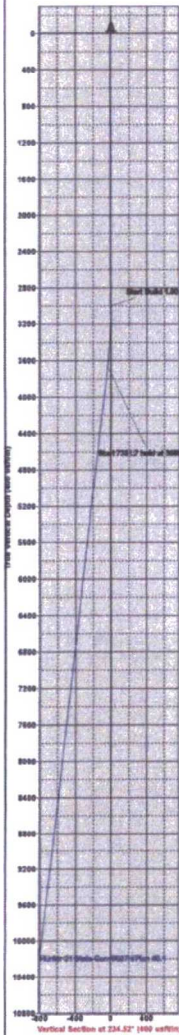
KB = 25 @ 3464.0usft 3439.0
Northing 47287.00 Easting 839734.00 Latitude 32° 17' 44.867 N Longitude 103° 22' 3.481 W

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
3668.0	6.68	54.52	3666.5	22.6	31.7	1.00	54.52	-18.7
11049.7	6.68	54.52	10998.0	520.9	730.9	0.00	0.00	-430.5
11831.5	90.00	179.47	11505.0	45.0	783.9	12.00	124.77	48.4
18983.8	90.00	179.47	11505.0	-7107.0	850.0	0.00	0.00	7157.6

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP(Hunter 21 at com #607H)	11805.0	255.0	782.0	472842.00	840516.00
PBWL(Hunter 21 at com #607H)	11805.0	-7107.0	950.0	469550.00	840556.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#607H

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: #607H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #607H
TVD Reference: KB = 25 @ 3464.0usft
MD Reference: KB = 25 @ 3464.0usft
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:	From: Map	Northing:	473,030.00 usft
		Easting:	836,252.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 17' 48.570 N
		Longitude:	103° 22' 44.008 W
		Grid Convergence:	0.51 °

Well	#607H		
Well Position	+N/-S	-343.0 usft	Northing:
	+E/-W	3,482.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	472,687.00 usft
		Ground Level:	3,439.0 usft
		Latitude:	32° 17' 44.867 N
		Longitude:	103° 22' 3.481 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	12/12/2017	(°)
			6.81
			Dip Angle
			(°)
			60.15
			Field Strength
			(nT)
			47,951.81505476

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			173.18

Plan Survey Tool Program	Date 12/12/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	18,983.8 Plan #0.1 (OH)	MWD
			MWD - Standard
			Remarks

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
3,668.0	6.68	54.52	3,666.5	22.6	31.7	1.00	1.00	0.00	54.52	
11,049.7	6.68	54.52	10,998.0	520.9	730.9	0.00	0.00	0.00	0.00	
11,831.5	90.00	179.47	11,505.0	45.0	783.9	12.00	10.66	15.98	124.77	
18,983.8	90.00	179.47	11,505.0	-7,107.0	850.0	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: #607H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #607H
 TVD Reference: KB = 25 @ 3464.0usft
 MD Reference: KB = 25 @ 3464.0usft
 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	54.52	3,100.0	0.5	0.7	-0.4	1.00	1.00	0.00
3,200.0	2.00	54.52	3,200.0	2.0	2.8	-1.7	1.00	1.00	0.00
3,300.0	3.00	54.52	3,299.9	4.6	6.4	-3.8	1.00	1.00	0.00
3,400.0	4.00	54.52	3,399.7	8.1	11.4	-6.7	1.00	1.00	0.00
3,500.0	5.00	54.52	3,499.4	12.7	17.8	-10.5	1.00	1.00	0.00
3,600.0	6.00	54.52	3,598.9	18.2	25.6	-15.1	1.00	1.00	0.00
3,668.0	6.68	54.52	3,666.5	22.6	31.7	-18.7	1.00	1.00	0.00
3,700.0	6.68	54.52	3,698.3	24.7	34.7	-20.4	0.00	0.00	0.00
3,800.0	6.68	54.52	3,797.6	31.5	44.2	-26.0	0.00	0.00	0.00
3,900.0	6.68	54.52	3,896.9	38.2	53.6	-31.6	0.00	0.00	0.00
4,000.0	6.68	54.52	3,996.2	45.0	63.1	-37.2	0.00	0.00	0.00
4,100.0	6.68	54.52	4,095.6	51.7	72.6	-42.8	0.00	0.00	0.00
4,200.0	6.68	54.52	4,194.9	58.5	82.1	-48.3	0.00	0.00	0.00
4,300.0	6.68	54.52	4,294.2	65.2	91.5	-53.9	0.00	0.00	0.00
4,400.0	6.68	54.52	4,393.5	72.0	101.0	-59.5	0.00	0.00	0.00
4,500.0	6.68	54.52	4,492.8	78.7	110.5	-65.1	0.00	0.00	0.00
4,600.0	6.68	54.52	4,592.2	85.5	120.0	-70.6	0.00	0.00	0.00
4,700.0	6.68	54.52	4,691.5	92.3	129.4	-76.2	0.00	0.00	0.00
4,800.0	6.68	54.52	4,790.8	99.0	138.9	-81.8	0.00	0.00	0.00
4,900.0	6.68	54.52	4,890.1	105.8	148.4	-87.4	0.00	0.00	0.00
5,000.0	6.68	54.52	4,989.4	112.5	157.8	-93.0	0.00	0.00	0.00
5,100.0	6.68	54.52	5,088.8	119.3	167.3	-98.5	0.00	0.00	0.00
5,200.0	6.68	54.52	5,188.1	126.0	176.8	-104.1	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: #607H
Wellbore: OH
Design: Plan #0.1

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

Well #607H
KB = 25 @ 3464.0usft
KB = 25 @ 3464.0usft
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	6.68	54.52	5,287.4	132.8	186.3	-109.7	0.00	0.00	0.00
5,400.0	6.68	54.52	5,386.7	139.5	195.7	-115.3	0.00	0.00	0.00
5,500.0	6.68	54.52	5,486.1	146.3	205.2	-120.9	0.00	0.00	0.00
5,600.0	6.68	54.52	5,585.4	153.0	214.7	-126.4	0.00	0.00	0.00
5,700.0	6.68	54.52	5,684.7	159.8	224.1	-132.0	0.00	0.00	0.00
5,800.0	6.68	54.52	5,784.0	166.5	233.6	-137.6	0.00	0.00	0.00
5,900.0	6.68	54.52	5,883.3	173.3	243.1	-143.2	0.00	0.00	0.00
6,000.0	6.68	54.52	5,982.7	180.0	252.6	-148.8	0.00	0.00	0.00
6,100.0	6.68	54.52	6,082.0	186.8	262.0	-154.3	0.00	0.00	0.00
6,200.0	6.68	54.52	6,181.3	193.5	271.5	-159.9	0.00	0.00	0.00
6,300.0	6.68	54.52	6,280.6	200.3	281.0	-165.5	0.00	0.00	0.00
6,400.0	6.68	54.52	6,379.9	207.0	290.5	-171.1	0.00	0.00	0.00
6,500.0	6.68	54.52	6,479.3	213.8	299.9	-176.6	0.00	0.00	0.00
6,600.0	6.68	54.52	6,578.6	220.5	309.4	-182.2	0.00	0.00	0.00
6,700.0	6.68	54.52	6,677.9	227.3	318.9	-187.8	0.00	0.00	0.00
6,800.0	6.68	54.52	6,777.2	234.0	328.3	-193.4	0.00	0.00	0.00
6,900.0	6.68	54.52	6,876.5	240.8	337.8	-199.0	0.00	0.00	0.00
7,000.0	6.68	54.52	6,975.9	247.5	347.3	-204.5	0.00	0.00	0.00
7,100.0	6.68	54.52	7,075.2	254.3	356.8	-210.1	0.00	0.00	0.00
7,200.0	6.68	54.52	7,174.5	261.0	366.2	-215.7	0.00	0.00	0.00
7,300.0	6.68	54.52	7,273.8	267.8	375.7	-221.3	0.00	0.00	0.00
7,400.0	6.68	54.52	7,373.2	274.5	385.2	-226.9	0.00	0.00	0.00
7,500.0	6.68	54.52	7,472.5	281.3	394.6	-232.4	0.00	0.00	0.00
7,600.0	6.68	54.52	7,571.8	288.0	404.1	-238.0	0.00	0.00	0.00
7,700.0	6.68	54.52	7,671.1	294.8	413.6	-243.6	0.00	0.00	0.00
7,800.0	6.68	54.52	7,770.4	301.5	423.1	-249.2	0.00	0.00	0.00
7,900.0	6.68	54.52	7,869.8	308.3	432.5	-254.7	0.00	0.00	0.00
8,000.0	6.68	54.52	7,969.1	315.0	442.0	-260.3	0.00	0.00	0.00
8,100.0	6.68	54.52	8,068.4	321.8	451.5	-265.9	0.00	0.00	0.00
8,200.0	6.68	54.52	8,167.7	328.6	461.0	-271.5	0.00	0.00	0.00
8,300.0	6.68	54.52	8,267.0	335.3	470.4	-277.1	0.00	0.00	0.00
8,400.0	6.68	54.52	8,366.4	342.1	479.9	-282.6	0.00	0.00	0.00
8,500.0	6.68	54.52	8,465.7	348.8	489.4	-288.2	0.00	0.00	0.00
8,600.0	6.68	54.52	8,565.0	355.6	498.8	-293.8	0.00	0.00	0.00
8,700.0	6.68	54.52	8,664.3	362.3	508.3	-299.4	0.00	0.00	0.00
8,800.0	6.68	54.52	8,763.7	369.1	517.8	-305.0	0.00	0.00	0.00
8,900.0	6.68	54.52	8,863.0	375.8	527.3	-310.5	0.00	0.00	0.00
9,000.0	6.68	54.52	8,962.3	382.6	536.7	-316.1	0.00	0.00	0.00
9,100.0	6.68	54.52	9,061.6	389.3	546.2	-321.7	0.00	0.00	0.00
9,200.0	6.68	54.52	9,160.9	396.1	555.7	-327.3	0.00	0.00	0.00
9,300.0	6.68	54.52	9,260.3	402.8	565.1	-332.9	0.00	0.00	0.00
9,400.0	6.68	54.52	9,359.6	409.6	574.6	-338.4	0.00	0.00	0.00
9,500.0	6.68	54.52	9,458.9	416.3	584.1	-344.0	0.00	0.00	0.00
9,600.0	6.68	54.52	9,558.2	423.1	593.6	-349.6	0.00	0.00	0.00
9,700.0	6.68	54.52	9,657.5	429.8	603.0	-355.2	0.00	0.00	0.00
9,800.0	6.68	54.52	9,756.9	436.6	612.5	-360.7	0.00	0.00	0.00
9,900.0	6.68	54.52	9,856.2	443.3	622.0	-366.3	0.00	0.00	0.00
10,000.0	6.68	54.52	9,955.5	450.1	631.5	-371.9	0.00	0.00	0.00
10,100.0	6.68	54.52	10,054.8	456.8	640.9	-377.5	0.00	0.00	0.00
10,200.0	6.68	54.52	10,154.1	463.6	650.4	-383.1	0.00	0.00	0.00
10,300.0	6.68	54.52	10,253.5	470.3	659.9	-388.6	0.00	0.00	0.00
10,400.0	6.68	54.52	10,352.8	477.1	669.3	-394.2	0.00	0.00	0.00
10,500.0	6.68	54.52	10,452.1	483.8	678.8	-399.8	0.00	0.00	0.00
10,600.0	6.68	54.52	10,551.4	490.6	688.3	-405.4	0.00	0.00	0.00



Planning Report

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 Site: Hunter 21 State Com
 Well: #607H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference:
 TVD Reference:
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 North Reference:
 Survey Calculation Method:
 Well #607H
 KB = 25 @ 3464.0usft
 KB = 25 @ 3464.0usft
 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)
10,700.0	6.68	54.52	10,650.8	497.3	697.8	-411.0	0.00	0.00	0.00
10,800.0	6.68	54.52	10,750.1	504.1	707.2	-416.5	0.00	0.00	0.00
10,900.0	6.68	54.52	10,849.4	510.8	716.7	-422.1	0.00	0.00	0.00
11,000.0	6.68	54.52	10,948.7	517.6	726.2	-427.7	0.00	0.00	0.00
11,049.7	6.68	54.52	10,998.0	520.9	730.9	-430.5	0.00	0.00	0.00
11,075.0	5.54	81.35	11,023.2	522.0	733.3	-431.2	12.00	-4.51	105.92
11,100.0	5.91	111.54	11,048.1	521.7	735.7	-430.6	12.00	1.50	120.77
11,125.0	7.56	133.18	11,073.0	520.1	738.1	-428.8	12.00	6.60	86.55
11,150.0	9.87	145.98	11,097.7	517.2	740.5	-425.6	12.00	9.22	51.22
11,175.0	12.47	153.75	11,122.2	513.0	742.9	-421.1	12.00	10.41	31.06
11,200.0	15.22	158.81	11,146.5	507.5	745.2	-415.4	12.00	10.99	20.24
11,225.0	18.05	162.33	11,170.4	500.8	747.6	-408.4	12.00	11.31	14.10
11,250.0	20.92	164.93	11,194.0	492.8	749.9	-400.2	12.00	11.49	10.37
11,275.0	23.82	166.91	11,217.1	483.5	752.3	-390.8	12.00	11.61	7.95
11,300.0	26.75	168.49	11,239.7	473.1	754.5	-380.1	12.00	11.69	6.31
11,325.0	29.68	169.78	11,261.7	461.5	756.7	-368.4	12.00	11.75	5.14
11,350.0	32.63	170.85	11,283.1	448.7	758.9	-355.4	12.00	11.79	4.29
11,375.0	35.59	171.76	11,303.8	434.9	761.0	-341.4	12.00	11.82	3.65
11,400.0	38.55	172.55	11,323.8	420.0	763.1	-326.4	12.00	11.85	3.16
11,425.0	41.52	173.25	11,342.9	404.0	765.1	-310.3	12.00	11.87	2.77
11,450.0	44.49	173.86	11,361.2	387.1	767.0	-293.2	12.00	11.88	2.47
11,475.0	47.46	174.42	11,378.6	369.2	768.8	-275.3	12.00	11.89	2.22
11,500.0	50.44	174.92	11,395.0	350.4	770.6	-256.4	12.00	11.90	2.02
11,525.0	53.41	175.38	11,410.4	330.8	772.2	-236.8	12.00	11.91	1.85
11,550.0	56.39	175.81	11,424.8	310.4	773.8	-216.3	12.00	11.92	1.71
11,575.0	59.37	176.21	11,438.0	289.3	775.3	-195.2	12.00	11.92	1.60
11,600.0	62.36	176.59	11,450.2	267.5	776.6	-173.4	12.00	11.93	1.50
11,625.0	65.34	176.94	11,461.2	245.1	777.9	-151.0	12.00	11.93	1.42
11,633.3	66.33	177.06	11,464.6	237.5	778.3	-143.4	12.00	11.93	1.38
FTP(Hunter 21 st com #607H)									
11,650.0	68.32	177.28	11,471.1	222.1	779.0	-128.1	12.00	11.94	1.35
11,675.0	71.31	177.61	11,479.7	198.7	780.1	-104.7	12.00	11.94	1.30
11,700.0	74.29	177.92	11,487.1	174.8	781.0	-80.9	12.00	11.94	1.26
11,725.0	77.28	178.23	11,493.2	150.6	781.8	-56.7	12.00	11.94	1.22
11,750.0	80.26	178.53	11,498.1	126.1	782.5	-32.3	12.00	11.94	1.19
11,775.0	83.25	178.82	11,501.7	101.4	783.1	-7.7	12.00	11.94	1.17
11,800.0	86.24	179.11	11,504.0	76.5	783.5	17.1	12.00	11.94	1.16
11,825.0	89.22	179.40	11,505.0	51.5	783.9	41.9	12.00	11.94	1.15
11,831.5	90.00	179.47	11,505.0	45.0	783.9	48.4	12.00	11.95	1.15
11,900.0	90.00	179.47	11,505.0	-23.5	784.6	116.5	0.00	0.00	0.00
12,000.0	90.00	179.47	11,505.0	-123.5	785.5	215.9	0.00	0.00	0.00
12,100.0	90.00	179.47	11,505.0	-223.5	786.4	315.3	0.00	0.00	0.00
12,200.0	90.00	179.47	11,505.0	-323.5	787.3	414.7	0.00	0.00	0.00
12,300.0	90.00	179.47	11,505.0	-423.5	788.3	514.1	0.00	0.00	0.00
12,400.0	90.00	179.47	11,505.0	-523.5	789.2	613.5	0.00	0.00	0.00
12,500.0	90.00	179.47	11,505.0	-623.5	790.1	712.9	0.00	0.00	0.00
12,600.0	90.00	179.47	11,505.0	-723.4	791.0	812.3	0.00	0.00	0.00
12,700.0	90.00	179.47	11,505.0	-823.4	792.0	911.7	0.00	0.00	0.00
12,800.0	90.00	179.47	11,505.0	-923.4	792.9	1,011.1	0.00	0.00	0.00
12,900.0	90.00	179.47	11,505.0	-1,023.4	793.8	1,110.5	0.00	0.00	0.00
13,000.0	90.00	179.47	11,505.0	-1,123.4	794.7	1,209.9	0.00	0.00	0.00
13,100.0	90.00	179.47	11,505.0	-1,223.4	795.7	1,309.3	0.00	0.00	0.00
13,200.0	90.00	179.47	11,505.0	-1,323.4	796.6	1,408.7	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: #607H
 Wellbore: OH
 Design: Plan #0.1

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

Well #607H
 KB = 25 @ 3464.0usft
 KB = 25 @ 3464.0usft
 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)
13,300.0	90.00	179.47	11,505.0	-1,423.4	797.5	1,508.1	0.00	0.00	0.00
13,400.0	90.00	179.47	11,505.0	-1,523.4	798.4	1,607.4	0.00	0.00	0.00
13,500.0	90.00	179.47	11,505.0	-1,623.4	799.4	1,706.8	0.00	0.00	0.00
13,600.0	90.00	179.47	11,505.0	-1,723.4	800.3	1,806.2	0.00	0.00	0.00
13,700.0	90.00	179.47	11,505.0	-1,823.4	801.2	1,905.6	0.00	0.00	0.00
13,800.0	90.00	179.47	11,505.0	-1,923.4	802.1	2,005.0	0.00	0.00	0.00
13,900.0	90.00	179.47	11,505.0	-2,023.4	803.0	2,104.4	0.00	0.00	0.00
14,000.0	90.00	179.47	11,505.0	-2,123.4	804.0	2,203.8	0.00	0.00	0.00
14,100.0	90.00	179.47	11,505.0	-2,223.4	804.9	2,303.2	0.00	0.00	0.00
14,200.0	90.00	179.47	11,505.0	-2,323.4	805.8	2,402.6	0.00	0.00	0.00
14,300.0	90.00	179.47	11,505.0	-2,423.4	806.7	2,502.0	0.00	0.00	0.00
14,400.0	90.00	179.47	11,505.0	-2,523.4	807.7	2,601.4	0.00	0.00	0.00
14,500.0	90.00	179.47	11,505.0	-2,623.4	808.6	2,700.8	0.00	0.00	0.00
14,600.0	90.00	179.47	11,505.0	-2,723.4	809.5	2,800.2	0.00	0.00	0.00
14,700.0	90.00	179.47	11,505.0	-2,823.4	810.4	2,899.6	0.00	0.00	0.00
14,800.0	90.00	179.47	11,505.0	-2,923.4	811.4	2,999.0	0.00	0.00	0.00
14,900.0	90.00	179.47	11,505.0	-3,023.3	812.3	3,098.4	0.00	0.00	0.00
15,000.0	90.00	179.47	11,505.0	-3,123.3	813.2	3,197.8	0.00	0.00	0.00
15,100.0	90.00	179.47	11,505.0	-3,223.3	814.1	3,297.2	0.00	0.00	0.00
15,200.0	90.00	179.47	11,505.0	-3,323.3	815.1	3,396.6	0.00	0.00	0.00
15,300.0	90.00	179.47	11,505.0	-3,423.3	816.0	3,496.0	0.00	0.00	0.00
15,400.0	90.00	179.47	11,505.0	-3,523.3	816.9	3,595.4	0.00	0.00	0.00
15,500.0	90.00	179.47	11,505.0	-3,623.3	817.8	3,694.8	0.00	0.00	0.00
15,600.0	90.00	179.47	11,505.0	-3,723.3	818.7	3,794.2	0.00	0.00	0.00
15,700.0	90.00	179.47	11,505.0	-3,823.3	819.7	3,893.6	0.00	0.00	0.00
15,800.0	90.00	179.47	11,505.0	-3,923.3	820.6	3,993.0	0.00	0.00	0.00
15,900.0	90.00	179.47	11,505.0	-4,023.3	821.5	4,092.4	0.00	0.00	0.00
16,000.0	90.00	179.47	11,505.0	-4,123.3	822.4	4,191.8	0.00	0.00	0.00
16,100.0	90.00	179.47	11,505.0	-4,223.3	823.4	4,291.2	0.00	0.00	0.00
16,200.0	90.00	179.47	11,505.0	-4,323.3	824.3	4,390.6	0.00	0.00	0.00
16,300.0	90.00	179.47	11,505.0	-4,423.3	825.2	4,490.0	0.00	0.00	0.00
16,400.0	90.00	179.47	11,505.0	-4,523.3	826.1	4,589.4	0.00	0.00	0.00
16,500.0	90.00	179.47	11,505.0	-4,623.3	827.1	4,688.8	0.00	0.00	0.00
16,600.0	90.00	179.47	11,505.0	-4,723.3	828.0	4,788.2	0.00	0.00	0.00
16,700.0	90.00	179.47	11,505.0	-4,823.3	828.9	4,887.6	0.00	0.00	0.00
16,800.0	90.00	179.47	11,505.0	-4,923.3	829.8	4,987.0	0.00	0.00	0.00
16,900.0	90.00	179.47	11,505.0	-5,023.3	830.8	5,086.4	0.00	0.00	0.00
17,000.0	90.00	179.47	11,505.0	-5,123.3	831.7	5,185.8	0.00	0.00	0.00
17,100.0	90.00	179.47	11,505.0	-5,223.3	832.6	5,285.2	0.00	0.00	0.00
17,200.0	90.00	179.47	11,505.0	-5,323.2	833.5	5,384.6	0.00	0.00	0.00
17,300.0	90.00	179.47	11,505.0	-5,423.2	834.4	5,484.0	0.00	0.00	0.00
17,400.0	90.00	179.47	11,505.0	-5,523.2	835.4	5,583.4	0.00	0.00	0.00
17,500.0	90.00	179.47	11,505.0	-5,623.2	836.3	5,682.8	0.00	0.00	0.00
17,600.0	90.00	179.47	11,505.0	-5,723.2	837.2	5,782.2	0.00	0.00	0.00
17,700.0	90.00	179.47	11,505.0	-5,823.2	838.1	5,881.6	0.00	0.00	0.00
17,800.0	90.00	179.47	11,505.0	-5,923.2	839.1	5,981.0	0.00	0.00	0.00
17,900.0	90.00	179.47	11,505.0	-6,023.2	840.0	6,080.4	0.00	0.00	0.00
18,000.0	90.00	179.47	11,505.0	-6,123.2	840.9	6,179.7	0.00	0.00	0.00
18,100.0	90.00	179.47	11,505.0	-6,223.2	841.8	6,279.1	0.00	0.00	0.00
18,200.0	90.00	179.47	11,505.0	-6,323.2	842.8	6,378.5	0.00	0.00	0.00
18,300.0	90.00	179.47	11,505.0	-6,423.2	843.7	6,477.9	0.00	0.00	0.00
18,400.0	90.00	179.47	11,505.0	-6,523.2	844.6	6,577.3	0.00	0.00	0.00
18,500.0	90.00	179.47	11,505.0	-6,623.2	845.5	6,676.7	0.00	0.00	0.00
18,600.0	90.00	179.47	11,505.0	-6,723.2	846.5	6,776.1	0.00	0.00	0.00



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Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #607H
TVD Reference: KB = 25 @ 3464.0usft
MD Reference: KB = 25 @ 3464.0usft
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)
18,700.0	90.00	179.47	11,505.0	-6,823.2	847.4	6,875.5	0.00	0.00	0.00
18,800.0	90.00	179.47	11,505.0	-6,923.2	848.3	6,974.9	0.00	0.00	0.00
18,900.0	90.00	179.47	11,505.0	-7,023.2	849.2	7,074.3	0.00	0.00	0.00
18,983.8	90.00	179.47	11,505.0	-7,107.0	850.0	7,157.6	0.00	0.00	0.00

PBHL(Hunter 21 st com #607H)

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	11,505.0	255.0	782.0	472,942.00	840,516.00	32° 17' 47.321 N	103° 21' 54.344 W
- plan misses target center by 44.1usft at 11633.3usft MD (11464.6 TVD, 237.5 N, 778.3 E)									
- Point									
PBHL(Hunter 21 st com	0.00	0.00	11,505.0	-7,107.0	850.0	465,580.00	840,584.00	32° 16' 34.471 N	103° 21' 54.326 W
- plan hits target center									
- Point									