

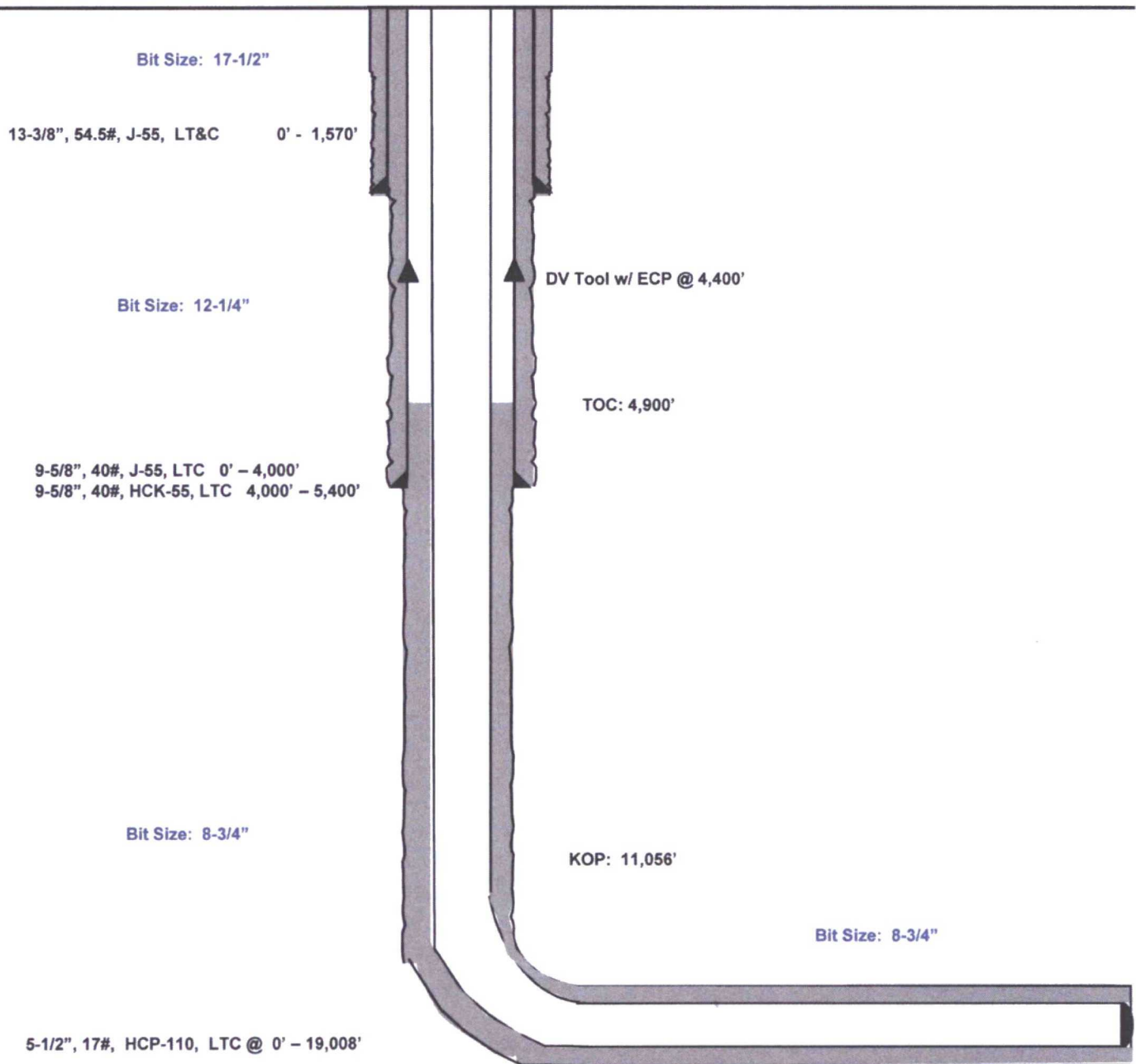
Hunter 21 State Com #605H

Lea County, New Mexico
Proposed Wellbore

522' FNL
1151' FEL
Section 21
T-23-S, R-35-E

API: 30-025-*****

KB: 3,465'
GL: 3,440'



Lateral: 19,008' MD, 11,521' TVD

BH Location: 2410' FNL & 1826' FEL
Section 28
T-23-S, R-35-E

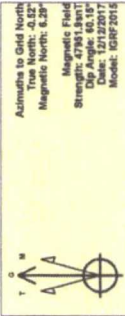


Lea County, NM (NAD 83 NME)
Hunter 21 State Com #605H
Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)
Geoid: System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System: Geocentric Mean Sea Level

WELL DETAILS: #605H

Northing 47742.00
Easting 839697.80
KB - 25 @ 3465.0' x 3440.0'
32° 17' 45.115 N 103° 27' 3.008 W



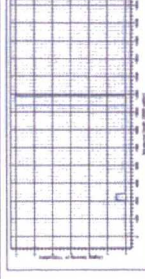
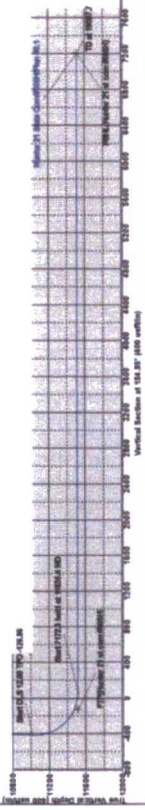
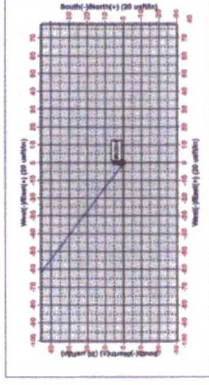
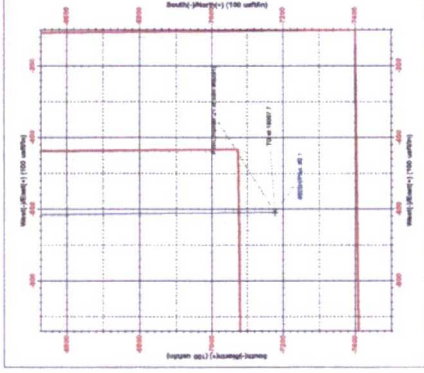
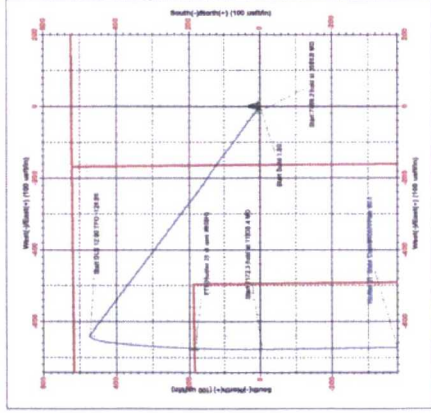
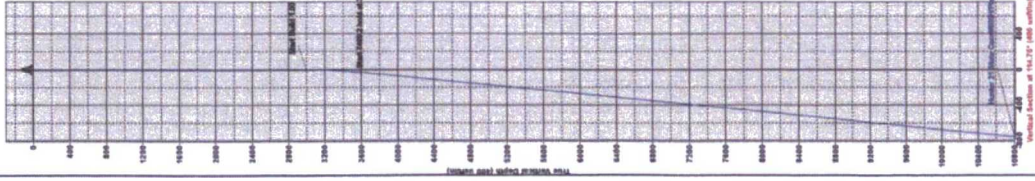
To convert a Magnetic Direction to a Grid Direction, Add 6.23°
To convert a Magnetic Direction to a True Direction, Add 6.23°
To convert a True Direction to a Grid Direction, Subtract 6.23°

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeal
0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0
3000.0	0.00	0.00	3000.0	0.0	0.00	0.00	0.00	0.0
3556.8	5.87	306.48	3556.8	17.9	-24.1	1.00	306.48	-15.7
11056.0	5.87	306.48	11015.8	471.9	-638.2	0.00	0.00	-416.2
11835.4	90.00	179.47	11521.0	-5.0	-875.2	12.00	-126.86	62.1
19007.7	90.00	179.47	11521.0	-7177.0	-609.0	0.00	0.00	7202.8

WELLBORE TANGENT DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PTP Hunter 21 at com #605H	11821.0	186.0	47742.00	47742.00	839697.80
PTP Hunter 21 at com #605H	11821.0	-7177.0	47742.00	47742.00	839697.80





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#605H

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: #605H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
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 #605H

Well Position +N/-S -288.0 usft Northing: 472,742.00 usft Latitude: 32° 17' 45.415 N
 +E/-W 3,445.0 usft Easting: 839,697.00 usft Longitude: 103° 22' 3.906 W
Position Uncertainty 0.0 usft **Wellhead Elevation:** Ground Level: 3,440.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/12/2017	6.81	60.15	47,951.88572063

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	184.85

Plan Survey Tool Program Date 12/12/2017

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,007.7 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	
3,586.8	5.87	306.48	3,585.8	17.9	-24.1	1.00	1.00	0.00	306.48	
11,056.0	5.87	306.48	11,015.8	471.9	-638.2	0.00	0.00	0.00	0.00	
11,835.4	90.00	179.47	11,521.0	-5.0	-675.2	12.00	10.79	-16.30	-126.86	
19,007.7	90.00	179.47	11,521.0	-7,177.0	-609.0	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: #605H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
 TVD Reference: KB = 25 @ 3465.0usft
 MD Reference: KB = 25 @ 3465.0usft
 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	306.48	3,100.0	0.5	-0.7	-0.5	1.00	1.00	0.00
3,200.0	2.00	306.48	3,200.0	2.1	-2.8	-1.8	1.00	1.00	0.00
3,300.0	3.00	306.48	3,299.9	4.7	-6.3	-4.1	1.00	1.00	0.00
3,400.0	4.00	306.48	3,399.7	8.3	-11.2	-7.3	1.00	1.00	0.00
3,500.0	5.00	306.48	3,499.4	13.0	-17.5	-11.4	1.00	1.00	0.00
3,586.8	5.87	306.48	3,585.8	17.9	-24.1	-15.7	1.00	1.00	0.00
3,600.0	5.87	306.48	3,598.9	18.7	-25.2	-16.5	0.00	0.00	0.00
3,700.0	5.87	306.48	3,698.4	24.7	-33.4	-21.8	0.00	0.00	0.00
3,800.0	5.87	306.48	3,797.9	30.8	-41.7	-27.2	0.00	0.00	0.00
3,900.0	5.87	306.48	3,897.3	36.9	-49.9	-32.5	0.00	0.00	0.00
4,000.0	5.87	306.48	3,996.8	43.0	-58.1	-37.9	0.00	0.00	0.00
4,100.0	5.87	306.48	4,096.3	49.0	-66.3	-43.3	0.00	0.00	0.00
4,200.0	5.87	306.48	4,195.8	55.1	-74.6	-48.6	0.00	0.00	0.00
4,300.0	5.87	306.48	4,295.2	61.2	-82.8	-54.0	0.00	0.00	0.00
4,400.0	5.87	306.48	4,394.7	67.3	-91.0	-59.3	0.00	0.00	0.00
4,500.0	5.87	306.48	4,494.2	73.4	-99.2	-64.7	0.00	0.00	0.00
4,600.0	5.87	306.48	4,593.7	79.4	-107.4	-70.1	0.00	0.00	0.00
4,700.0	5.87	306.48	4,693.1	85.5	-115.7	-75.4	0.00	0.00	0.00
4,800.0	5.87	306.48	4,792.6	91.6	-123.9	-80.8	0.00	0.00	0.00
4,900.0	5.87	306.48	4,892.1	97.7	-132.1	-86.2	0.00	0.00	0.00
5,000.0	5.87	306.48	4,991.6	103.8	-140.3	-91.5	0.00	0.00	0.00
5,100.0	5.87	306.48	5,091.0	109.8	-148.5	-96.9	0.00	0.00	0.00
5,200.0	5.87	306.48	5,190.5	115.9	-156.8	-102.2	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: #605H
 Wellbore: OH
 Design: Plan #0.1

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

Well #605H
 KB = 25 @ 3465.0usft
 KB = 25 @ 3465.0usft
 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	5.87	306.48	5,290.0	122.0	-165.0	-107.6	0.00	0.00	0.00
5,400.0	5.87	306.48	5,389.5	128.1	-173.2	-113.0	0.00	0.00	0.00
5,500.0	5.87	306.48	5,488.9	134.1	-181.4	-118.3	0.00	0.00	0.00
5,600.0	5.87	306.48	5,588.4	140.2	-189.6	-123.7	0.00	0.00	0.00
5,700.0	5.87	306.48	5,687.9	146.3	-197.9	-129.0	0.00	0.00	0.00
5,800.0	5.87	306.48	5,787.4	152.4	-206.1	-134.4	0.00	0.00	0.00
5,900.0	5.87	306.48	5,886.9	158.5	-214.3	-139.8	0.00	0.00	0.00
6,000.0	5.87	306.48	5,986.3	164.5	-222.5	-145.1	0.00	0.00	0.00
6,100.0	5.87	306.48	6,085.8	170.6	-230.8	-150.5	0.00	0.00	0.00
6,200.0	5.87	306.48	6,185.3	176.7	-239.0	-155.9	0.00	0.00	0.00
6,300.0	5.87	306.48	6,284.8	182.8	-247.2	-161.2	0.00	0.00	0.00
6,400.0	5.87	306.48	6,384.2	188.9	-255.4	-166.6	0.00	0.00	0.00
6,500.0	5.87	306.48	6,483.7	194.9	-263.6	-171.9	0.00	0.00	0.00
6,600.0	5.87	306.48	6,583.2	201.0	-271.9	-177.3	0.00	0.00	0.00
6,700.0	5.87	306.48	6,682.7	207.1	-280.1	-182.7	0.00	0.00	0.00
6,800.0	5.87	306.48	6,782.1	213.2	-288.3	-188.0	0.00	0.00	0.00
6,900.0	5.87	306.48	6,881.6	219.2	-296.5	-193.4	0.00	0.00	0.00
7,000.0	5.87	306.48	6,981.1	225.3	-304.7	-198.8	0.00	0.00	0.00
7,100.0	5.87	306.48	7,080.6	231.4	-313.0	-204.1	0.00	0.00	0.00
7,200.0	5.87	306.48	7,180.0	237.5	-321.2	-209.5	0.00	0.00	0.00
7,300.0	5.87	306.48	7,279.5	243.6	-329.4	-214.8	0.00	0.00	0.00
7,400.0	5.87	306.48	7,379.0	249.6	-337.6	-220.2	0.00	0.00	0.00
7,500.0	5.87	306.48	7,478.5	255.7	-345.8	-225.6	0.00	0.00	0.00
7,600.0	5.87	306.48	7,577.9	261.8	-354.1	-230.9	0.00	0.00	0.00
7,700.0	5.87	306.48	7,677.4	267.9	-362.3	-236.3	0.00	0.00	0.00
7,800.0	5.87	306.48	7,776.9	274.0	-370.5	-241.6	0.00	0.00	0.00
7,900.0	5.87	306.48	7,876.4	280.0	-378.7	-247.0	0.00	0.00	0.00
8,000.0	5.87	306.48	7,975.8	286.1	-387.0	-252.4	0.00	0.00	0.00
8,100.0	5.87	306.48	8,075.3	292.2	-395.2	-257.7	0.00	0.00	0.00
8,200.0	5.87	306.48	8,174.8	298.3	-403.4	-263.1	0.00	0.00	0.00
8,300.0	5.87	306.48	8,274.3	304.3	-411.6	-268.5	0.00	0.00	0.00
8,400.0	5.87	306.48	8,373.8	310.4	-419.8	-273.8	0.00	0.00	0.00
8,500.0	5.87	306.48	8,473.2	316.5	-428.1	-279.2	0.00	0.00	0.00
8,600.0	5.87	306.48	8,572.7	322.6	-436.3	-284.5	0.00	0.00	0.00
8,700.0	5.87	306.48	8,672.2	328.7	-444.5	-289.9	0.00	0.00	0.00
8,800.0	5.87	306.48	8,771.7	334.7	-452.7	-295.3	0.00	0.00	0.00
8,900.0	5.87	306.48	8,871.1	340.8	-460.9	-300.6	0.00	0.00	0.00
9,000.0	5.87	306.48	8,970.6	346.9	-469.2	-306.0	0.00	0.00	0.00
9,100.0	5.87	306.48	9,070.1	353.0	-477.4	-311.4	0.00	0.00	0.00
9,200.0	5.87	306.48	9,169.6	359.1	-485.6	-316.7	0.00	0.00	0.00
9,300.0	5.87	306.48	9,269.0	365.1	-493.8	-322.1	0.00	0.00	0.00
9,400.0	5.87	306.48	9,368.5	371.2	-502.0	-327.4	0.00	0.00	0.00
9,500.0	5.87	306.48	9,468.0	377.3	-510.3	-332.8	0.00	0.00	0.00
9,600.0	5.87	306.48	9,567.5	383.4	-518.5	-338.2	0.00	0.00	0.00
9,700.0	5.87	306.48	9,666.9	389.4	-526.7	-343.5	0.00	0.00	0.00
9,800.0	5.87	306.48	9,766.4	395.5	-534.9	-348.9	0.00	0.00	0.00
9,900.0	5.87	306.48	9,865.9	401.6	-543.2	-354.2	0.00	0.00	0.00
10,000.0	5.87	306.48	9,965.4	407.7	-551.4	-359.6	0.00	0.00	0.00
10,100.0	5.87	306.48	10,064.8	413.8	-559.6	-365.0	0.00	0.00	0.00
10,200.0	5.87	306.48	10,164.3	419.8	-567.8	-370.3	0.00	0.00	0.00
10,300.0	5.87	306.48	10,263.8	425.9	-576.0	-375.7	0.00	0.00	0.00
10,400.0	5.87	306.48	10,363.3	432.0	-584.3	-381.1	0.00	0.00	0.00
10,500.0	5.87	306.48	10,462.7	438.1	-592.5	-386.4	0.00	0.00	0.00
10,600.0	5.87	306.48	10,562.2	444.2	-600.7	-391.8	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: #605H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
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	5.87	306.48	10,661.7	450.2	-608.9	-397.1	0.00	0.00	0.00
10,800.0	5.87	306.48	10,761.2	456.3	-617.1	-402.5	0.00	0.00	0.00
10,900.0	5.87	306.48	10,860.6	462.4	-625.4	-407.9	0.00	0.00	0.00
11,000.0	5.87	306.48	10,960.1	468.5	-633.6	-413.2	0.00	0.00	0.00
11,056.0	5.87	306.48	11,015.8	471.9	-638.2	-416.2	0.00	0.00	0.00
11,075.0	4.86	284.41	11,034.8	472.7	-639.7	-416.9	12.00	-5.34	-116.25
11,100.0	5.01	248.99	11,059.7	472.5	-641.8	-416.6	12.00	0.61	-141.67
11,125.0	6.67	224.02	11,084.5	471.1	-643.8	-415.0	12.00	6.66	-99.88
11,150.0	9.05	210.48	11,109.3	468.4	-645.8	-412.1	12.00	9.52	-54.17
11,175.0	11.72	202.78	11,133.9	464.3	-647.8	-407.9	12.00	10.66	-30.80
11,200.0	14.51	197.96	11,158.2	459.0	-649.8	-402.4	12.00	11.18	-19.30
11,225.0	17.38	194.68	11,182.3	452.4	-651.7	-395.7	12.00	11.45	-13.12
11,250.0	20.28	192.31	11,205.9	444.6	-653.5	-387.7	12.00	11.61	-9.48
11,275.0	23.20	190.51	11,229.2	435.5	-655.4	-378.5	12.00	11.70	-7.19
11,300.0	26.14	189.10	11,251.9	425.2	-657.1	-368.1	12.00	11.77	-5.65
11,325.0	29.10	187.95	11,274.0	413.7	-658.8	-356.5	12.00	11.81	-4.58
11,350.0	32.06	187.00	11,295.5	401.1	-660.5	-343.8	12.00	11.84	-3.80
11,375.0	35.03	186.20	11,316.4	387.4	-662.1	-330.0	12.00	11.87	-3.22
11,400.0	38.00	185.50	11,336.5	372.6	-663.6	-315.2	12.00	11.89	-2.78
11,425.0	40.97	184.89	11,355.8	356.8	-665.0	-299.3	12.00	11.90	-2.43
11,450.0	43.95	184.35	11,374.2	340.0	-666.4	-282.4	12.00	11.91	-2.16
11,475.0	46.93	183.87	11,391.7	322.2	-667.7	-264.6	12.00	11.92	-1.94
11,500.0	49.91	183.43	11,408.3	303.5	-668.8	-245.9	12.00	11.93	-1.76
11,525.0	52.90	183.03	11,423.9	284.0	-669.9	-226.4	12.00	11.93	-1.61
11,550.0	55.88	182.66	11,438.5	263.7	-671.0	-206.1	12.00	11.94	-1.49
11,575.0	58.87	182.31	11,452.0	242.7	-671.9	-185.0	12.00	11.94	-1.38
11,600.0	61.85	181.99	11,464.3	221.0	-672.7	-163.3	12.00	11.95	-1.30
11,625.0	64.84	181.68	11,475.5	198.7	-673.4	-141.0	12.00	11.95	-1.23
11,650.0	67.83	181.39	11,485.6	175.8	-674.0	-118.2	12.00	11.95	-1.17
11,653.9	68.30	181.34	11,487.0	172.1	-674.1	-114.5	12.00	11.95	-1.14
FTP(Hunter 21 st com #605H)									
11,675.0	70.82	181.11	11,494.4	152.4	-674.5	-94.8	12.00	11.95	-1.12
11,700.0	73.81	180.84	11,502.0	128.6	-674.9	-71.0	12.00	11.96	-1.08
11,725.0	76.79	180.57	11,508.3	104.4	-675.2	-46.9	12.00	11.96	-1.05
11,750.0	79.78	180.32	11,513.4	79.9	-675.4	-22.5	12.00	11.96	-1.02
11,775.0	82.77	180.07	11,517.2	55.2	-675.5	2.1	12.00	11.96	-1.00
11,800.0	85.76	179.82	11,519.7	30.3	-675.5	26.9	12.00	11.96	-0.99
11,825.0	88.75	179.57	11,520.9	5.4	-675.3	51.7	12.00	11.96	-0.98
11,835.4	90.00	179.47	11,521.0	-5.0	-675.2	62.1	12.00	11.96	-0.98
11,900.0	90.00	179.47	11,521.0	-69.6	-674.6	126.4	0.00	0.00	0.00
12,000.0	90.00	179.47	11,521.0	-169.6	-673.7	226.0	0.00	0.00	0.00
12,100.0	90.00	179.47	11,521.0	-269.6	-672.8	325.5	0.00	0.00	0.00
12,200.0	90.00	179.47	11,521.0	-369.6	-671.9	425.1	0.00	0.00	0.00
12,300.0	90.00	179.47	11,521.0	-469.6	-671.0	524.7	0.00	0.00	0.00
12,400.0	90.00	179.47	11,521.0	-569.6	-670.0	624.2	0.00	0.00	0.00
12,500.0	90.00	179.47	11,521.0	-669.6	-669.1	723.8	0.00	0.00	0.00
12,600.0	90.00	179.47	11,521.0	-769.6	-668.2	823.3	0.00	0.00	0.00
12,700.0	90.00	179.47	11,521.0	-869.6	-667.3	922.9	0.00	0.00	0.00
12,800.0	90.00	179.47	11,521.0	-969.6	-666.3	1,022.5	0.00	0.00	0.00
12,900.0	90.00	179.47	11,521.0	-1,069.6	-665.4	1,122.0	0.00	0.00	0.00
13,000.0	90.00	179.47	11,521.0	-1,169.6	-664.5	1,221.6	0.00	0.00	0.00
13,100.0	90.00	179.47	11,521.0	-1,269.6	-663.6	1,321.1	0.00	0.00	0.00
13,200.0	90.00	179.47	11,521.0	-1,369.6	-662.6	1,420.7	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: #605H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #605H
TVD Reference: KB = 25 @ 3465.0usft
MD Reference: KB = 25 @ 3465.0usft
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	179.47	11,521.0	-1,469.6	-661.7	1,520.2	0.00	0.00	0.00
13,400.0	90.00	179.47	11,521.0	-1,569.6	-660.8	1,619.8	0.00	0.00	0.00
13,500.0	90.00	179.47	11,521.0	-1,669.6	-659.9	1,719.4	0.00	0.00	0.00
13,600.0	90.00	179.47	11,521.0	-1,769.6	-658.9	1,818.9	0.00	0.00	0.00
13,700.0	90.00	179.47	11,521.0	-1,869.5	-658.0	1,918.5	0.00	0.00	0.00
13,800.0	90.00	179.47	11,521.0	-1,969.5	-657.1	2,018.0	0.00	0.00	0.00
13,900.0	90.00	179.47	11,521.0	-2,069.5	-656.2	2,117.6	0.00	0.00	0.00
14,000.0	90.00	179.47	11,521.0	-2,169.5	-655.3	2,217.2	0.00	0.00	0.00
14,100.0	90.00	179.47	11,521.0	-2,269.5	-654.3	2,316.7	0.00	0.00	0.00
14,200.0	90.00	179.47	11,521.0	-2,369.5	-653.4	2,416.3	0.00	0.00	0.00
14,300.0	90.00	179.47	11,521.0	-2,469.5	-652.5	2,515.8	0.00	0.00	0.00
14,400.0	90.00	179.47	11,521.0	-2,569.5	-651.6	2,615.4	0.00	0.00	0.00
14,500.0	90.00	179.47	11,521.0	-2,669.5	-650.6	2,715.0	0.00	0.00	0.00
14,600.0	90.00	179.47	11,521.0	-2,769.5	-649.7	2,814.5	0.00	0.00	0.00
14,700.0	90.00	179.47	11,521.0	-2,869.5	-648.8	2,914.1	0.00	0.00	0.00
14,800.0	90.00	179.47	11,521.0	-2,969.5	-647.9	3,013.6	0.00	0.00	0.00
14,900.0	90.00	179.47	11,521.0	-3,069.5	-646.9	3,113.2	0.00	0.00	0.00
15,000.0	90.00	179.47	11,521.0	-3,169.5	-646.0	3,212.8	0.00	0.00	0.00
15,100.0	90.00	179.47	11,521.0	-3,269.5	-645.1	3,312.3	0.00	0.00	0.00
15,200.0	90.00	179.47	11,521.0	-3,369.5	-644.2	3,411.9	0.00	0.00	0.00
15,300.0	90.00	179.47	11,521.0	-3,469.5	-643.2	3,511.4	0.00	0.00	0.00
15,400.0	90.00	179.47	11,521.0	-3,569.5	-642.3	3,611.0	0.00	0.00	0.00
15,500.0	90.00	179.47	11,521.0	-3,669.5	-641.4	3,710.6	0.00	0.00	0.00
15,600.0	90.00	179.47	11,521.0	-3,769.5	-640.5	3,810.1	0.00	0.00	0.00
15,700.0	90.00	179.47	11,521.0	-3,869.5	-639.6	3,909.7	0.00	0.00	0.00
15,800.0	90.00	179.47	11,521.0	-3,969.5	-638.6	4,009.2	0.00	0.00	0.00
15,900.0	90.00	179.47	11,521.0	-4,069.5	-637.7	4,108.8	0.00	0.00	0.00
16,000.0	90.00	179.47	11,521.0	-4,169.4	-636.8	4,208.4	0.00	0.00	0.00
16,100.0	90.00	179.47	11,521.0	-4,269.4	-635.9	4,307.9	0.00	0.00	0.00
16,200.0	90.00	179.47	11,521.0	-4,369.4	-634.9	4,407.5	0.00	0.00	0.00
16,300.0	90.00	179.47	11,521.0	-4,469.4	-634.0	4,507.0	0.00	0.00	0.00
16,400.0	90.00	179.47	11,521.0	-4,569.4	-633.1	4,606.6	0.00	0.00	0.00
16,500.0	90.00	179.47	11,521.0	-4,669.4	-632.2	4,706.2	0.00	0.00	0.00
16,600.0	90.00	179.47	11,521.0	-4,769.4	-631.2	4,805.7	0.00	0.00	0.00
16,700.0	90.00	179.47	11,521.0	-4,869.4	-630.3	4,905.3	0.00	0.00	0.00
16,800.0	90.00	179.47	11,521.0	-4,969.4	-629.4	5,004.8	0.00	0.00	0.00
16,900.0	90.00	179.47	11,521.0	-5,069.4	-628.5	5,104.4	0.00	0.00	0.00
17,000.0	90.00	179.47	11,521.0	-5,169.4	-627.5	5,204.0	0.00	0.00	0.00
17,100.0	90.00	179.47	11,521.0	-5,269.4	-626.6	5,303.5	0.00	0.00	0.00
17,200.0	90.00	179.47	11,521.0	-5,369.4	-625.7	5,403.1	0.00	0.00	0.00
17,300.0	90.00	179.47	11,521.0	-5,469.4	-624.8	5,502.6	0.00	0.00	0.00
17,400.0	90.00	179.47	11,521.0	-5,569.4	-623.8	5,602.2	0.00	0.00	0.00
17,500.0	90.00	179.47	11,521.0	-5,669.4	-622.9	5,701.8	0.00	0.00	0.00
17,600.0	90.00	179.47	11,521.0	-5,769.4	-622.0	5,801.3	0.00	0.00	0.00
17,700.0	90.00	179.47	11,521.0	-5,869.4	-621.1	5,900.9	0.00	0.00	0.00
17,800.0	90.00	179.47	11,521.0	-5,969.4	-620.2	6,000.4	0.00	0.00	0.00
17,900.0	90.00	179.47	11,521.0	-6,069.4	-619.2	6,100.0	0.00	0.00	0.00
18,000.0	90.00	179.47	11,521.0	-6,169.4	-618.3	6,199.5	0.00	0.00	0.00
18,100.0	90.00	179.47	11,521.0	-6,269.4	-617.4	6,299.1	0.00	0.00	0.00
18,200.0	90.00	179.47	11,521.0	-6,369.4	-616.5	6,398.7	0.00	0.00	0.00
18,300.0	90.00	179.47	11,521.0	-6,469.3	-615.5	6,498.2	0.00	0.00	0.00
18,400.0	90.00	179.47	11,521.0	-6,569.3	-614.6	6,597.8	0.00	0.00	0.00
18,500.0	90.00	179.47	11,521.0	-6,669.3	-613.7	6,697.3	0.00	0.00	0.00
18,600.0	90.00	179.47	11,521.0	-6,769.3	-612.8	6,796.9	0.00	0.00	0.00



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 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	11,521.0	-6,869.3	-611.8	6,896.5	0.00	0.00	0.00
18,800.0	90.00	179.47	11,521.0	-6,969.3	-610.9	6,996.0	0.00	0.00	0.00
18,900.0	90.00	179.47	11,521.0	-7,069.3	-610.0	7,095.6	0.00	0.00	0.00
19,007.7	90.00	179.47	11,521.0	-7,177.0	-609.0	7,202.8	0.00	0.00	0.00

PBHL(Hunter 21 st com #605H)

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									
PBHL(Hunter 21 st com	0.00	0.00	11,521.0	-7,177.0	-609.0	465,565.00	839,088.00	32° 16' 34.456 N	103° 22' 11.751 W
- plan hits target center									
- Point									
FTP(Hunter 21 st com #	0.00	0.00	11,521.0	185.0	-677.0	472,927.00	839,020.00	32° 17' 47.305 N	103° 22' 11.773 W
- plan misses target center by 36.4usft at 11653.9usft MD (11487.0 TVD, 172.1 N, -674.1 E)									
- Point									