

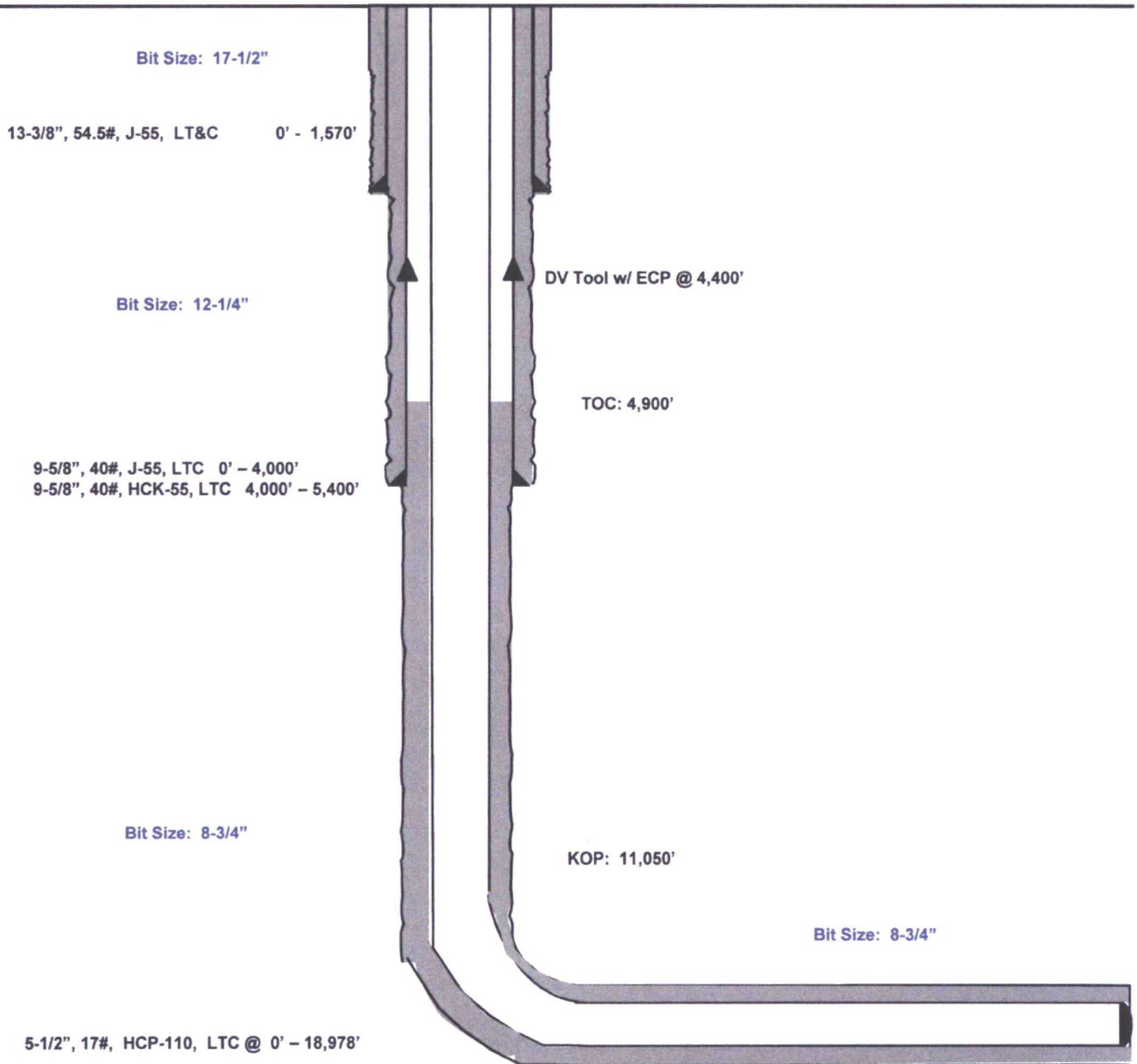
Hunter 21 State Com #603H

Lea County, New Mexico
Proposed Wellbore

200' FNL
2300' FWL
Section 21
T-23-S, R-35-E

API: 30-025-*****

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



Lateral: 18,978' MD, 11,529' TVD

BH Location: 2410' FNL & 1958' FWL
Section 28
T-23-S, R-35-E



Lea County, NM (NAD 83 NME)
Hunter 21 State Com #603H
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: #603H

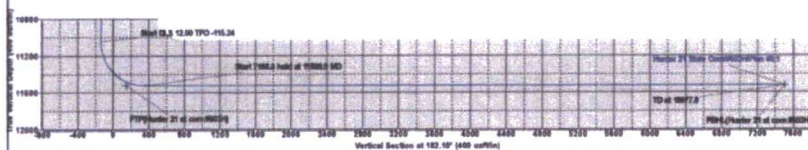
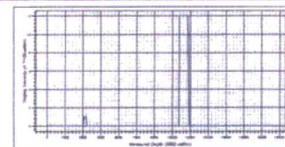
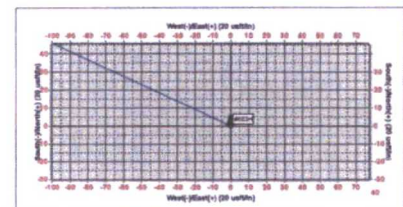
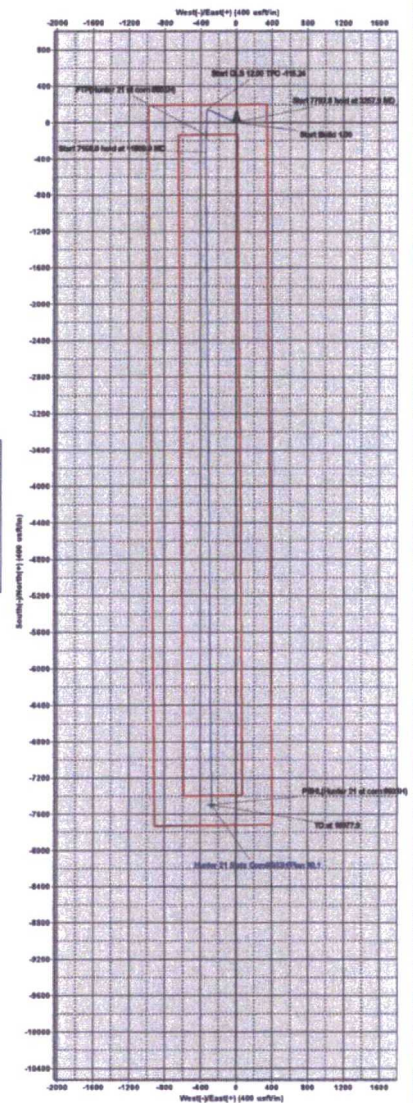
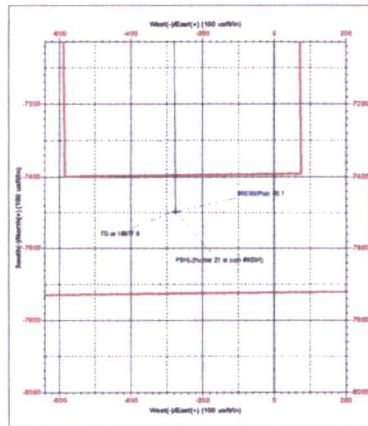
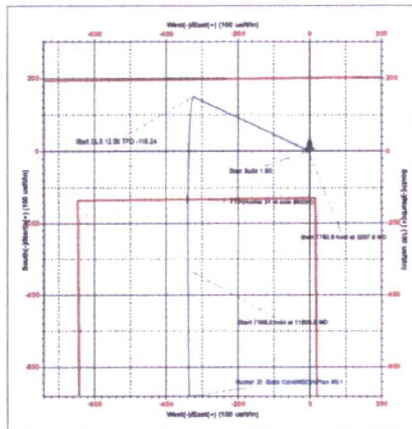
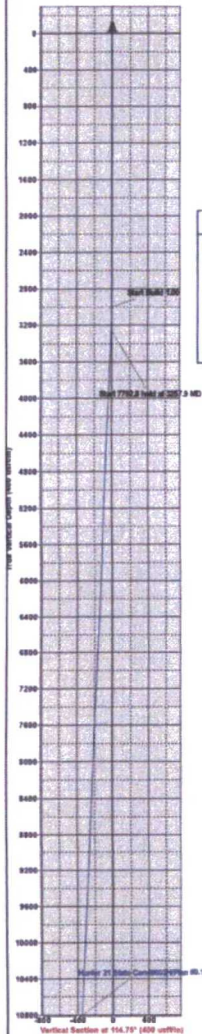
KB = 25 @ 3456.0usft 3431.0
Northing 473046.00 Easting 837872.00 Latitude 32° 17' 48.585 N Longitude 103° 22' 25.134 W

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
3257.9	2.58	294.75	3257.8	2.4	-5.3	1.00	294.75	-2.2
11050.7	2.58	294.75	11042.8	149.2	-323.7	0.00	0.00	-137.3
11809.9	90.00	179.49	11529.0	-328.3	-339.2	12.00	-115.24	340.5
18977.9	90.00	179.49	11529.0	-7496.0	-275.0	0.00	0.00	7501.0

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(Hunter 21 st com #603H)	11929.0	-133.0	-341.0	472915.00	837831.00
PBH(Hunter 21 st com #603H)	11529.0	-7496.0	-275.0	469580.00	837987.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Hunter 21 State Com

#603H

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: #603H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #603H
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	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
From:	Map	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	#603H		
Well Position	+N/-S	16.0 usft	Northing: 473,046.00 usft
	+E/-W	1,620.0 usft	Easting: 837,872.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 17' 48.585 N
			Longitude: 103° 22' 25.134 W
			Ground Level: 3,431.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	12/12/2017	(°)
			6.81
			Dip Angle
			(°)
			60.15
			Field Strength
			(nT)
			47,951.86261325

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
			(°)
			182.10

Plan Survey Tool Program	Date 12/12/2017		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	18,977.9 Plan #0.1 (OH)	MWD
			MWD - Standard

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	
3,257.9	2.58	294.75	3,257.8	2.4	-5.3	1.00	1.00	0.00	294.75	
11,050.7	2.58	294.75	11,042.8	149.2	-323.7	0.00	0.00	0.00	0.00	
11,809.9	90.00	179.49	11,529.0	-328.3	-339.2	12.00	11.52	-15.18	-115.24	
18,977.9	90.00	179.49	11,529.0	-7,496.0	-275.0	0.00	0.00	0.00	0.00	PBHL(Hunter 21 st co



Planning Report

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 Site: Hunter 21 State Com
 Well: #603H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #603H
 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)
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	294.75	3,100.0	0.4	-0.8	-0.3	1.00	1.00	0.00
3,200.0	2.00	294.75	3,200.0	1.5	-3.2	-1.3	1.00	1.00	0.00
3,257.9	2.58	294.75	3,257.8	2.4	-5.3	-2.2	1.00	1.00	0.00
3,300.0	2.58	294.75	3,299.9	3.2	-7.0	-3.0	0.00	0.00	0.00
3,400.0	2.58	294.75	3,399.8	5.1	-11.1	-4.7	0.00	0.00	0.00
3,500.0	2.58	294.75	3,499.7	7.0	-15.2	-6.4	0.00	0.00	0.00
3,600.0	2.58	294.75	3,599.6	8.9	-19.2	-8.2	0.00	0.00	0.00
3,700.0	2.58	294.75	3,699.5	10.8	-23.3	-9.9	0.00	0.00	0.00
3,800.0	2.58	294.75	3,799.4	12.6	-27.4	-11.6	0.00	0.00	0.00
3,900.0	2.58	294.75	3,899.3	14.5	-31.5	-13.4	0.00	0.00	0.00
4,000.0	2.58	294.75	3,999.2	16.4	-35.6	-15.1	0.00	0.00	0.00
4,100.0	2.58	294.75	4,099.1	18.3	-39.7	-16.8	0.00	0.00	0.00
4,200.0	2.58	294.75	4,199.0	20.2	-43.8	-18.6	0.00	0.00	0.00
4,300.0	2.58	294.75	4,298.9	22.1	-47.9	-20.3	0.00	0.00	0.00
4,400.0	2.58	294.75	4,398.8	23.9	-51.9	-22.0	0.00	0.00	0.00
4,500.0	2.58	294.75	4,498.7	25.8	-56.0	-23.8	0.00	0.00	0.00
4,600.0	2.58	294.75	4,598.6	27.7	-60.1	-25.5	0.00	0.00	0.00
4,700.0	2.58	294.75	4,698.5	29.6	-64.2	-27.2	0.00	0.00	0.00
4,800.0	2.58	294.75	4,798.4	31.5	-68.3	-29.0	0.00	0.00	0.00
4,900.0	2.58	294.75	4,898.2	33.4	-72.4	-30.7	0.00	0.00	0.00
5,000.0	2.58	294.75	4,998.1	35.3	-76.5	-32.4	0.00	0.00	0.00
5,100.0	2.58	294.75	5,098.0	37.1	-80.5	-34.2	0.00	0.00	0.00
5,200.0	2.58	294.75	5,197.9	39.0	-84.6	-35.9	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: #603H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #603H
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)
5,300.0	2.58	294.75	5,297.8	40.9	-88.7	-37.6	0.00	0.00	0.00
5,400.0	2.58	294.75	5,397.7	42.8	-92.8	-39.4	0.00	0.00	0.00
5,500.0	2.58	294.75	5,497.6	44.7	-96.9	-41.1	0.00	0.00	0.00
5,600.0	2.58	294.75	5,597.5	46.6	-101.0	-42.8	0.00	0.00	0.00
5,700.0	2.58	294.75	5,697.4	48.4	-105.1	-44.6	0.00	0.00	0.00
5,800.0	2.58	294.75	5,797.3	50.3	-109.2	-46.3	0.00	0.00	0.00
5,900.0	2.58	294.75	5,897.2	52.2	-113.2	-48.0	0.00	0.00	0.00
6,000.0	2.58	294.75	5,997.1	54.1	-117.3	-49.8	0.00	0.00	0.00
6,100.0	2.58	294.75	6,097.0	56.0	-121.4	-51.5	0.00	0.00	0.00
6,200.0	2.58	294.75	6,196.9	57.9	-125.5	-53.2	0.00	0.00	0.00
6,300.0	2.58	294.75	6,296.8	59.7	-129.6	-55.0	0.00	0.00	0.00
6,400.0	2.58	294.75	6,396.7	61.6	-133.7	-56.7	0.00	0.00	0.00
6,500.0	2.58	294.75	6,496.6	63.5	-137.8	-58.4	0.00	0.00	0.00
6,600.0	2.58	294.75	6,596.5	65.4	-141.8	-60.2	0.00	0.00	0.00
6,700.0	2.58	294.75	6,696.4	67.3	-145.9	-61.9	0.00	0.00	0.00
6,800.0	2.58	294.75	6,796.3	69.2	-150.0	-63.6	0.00	0.00	0.00
6,900.0	2.58	294.75	6,896.2	71.0	-154.1	-65.3	0.00	0.00	0.00
7,000.0	2.58	294.75	6,996.1	72.9	-158.2	-67.1	0.00	0.00	0.00
7,100.0	2.58	294.75	7,096.0	74.8	-162.3	-68.8	0.00	0.00	0.00
7,200.0	2.58	294.75	7,195.9	76.7	-166.4	-70.5	0.00	0.00	0.00
7,300.0	2.58	294.75	7,295.8	78.6	-170.4	-72.3	0.00	0.00	0.00
7,400.0	2.58	294.75	7,395.7	80.5	-174.5	-74.0	0.00	0.00	0.00
7,500.0	2.58	294.75	7,495.6	82.4	-178.6	-75.7	0.00	0.00	0.00
7,600.0	2.58	294.75	7,595.5	84.2	-182.7	-77.5	0.00	0.00	0.00
7,700.0	2.58	294.75	7,695.4	86.1	-186.8	-79.2	0.00	0.00	0.00
7,800.0	2.58	294.75	7,795.3	88.0	-190.9	-80.9	0.00	0.00	0.00
7,900.0	2.58	294.75	7,895.2	89.9	-195.0	-82.7	0.00	0.00	0.00
8,000.0	2.58	294.75	7,995.1	91.8	-199.1	-84.4	0.00	0.00	0.00
8,100.0	2.58	294.75	8,095.0	93.7	-203.1	-86.1	0.00	0.00	0.00
8,200.0	2.58	294.75	8,194.9	95.5	-207.2	-87.9	0.00	0.00	0.00
8,300.0	2.58	294.75	8,294.8	97.4	-211.3	-89.6	0.00	0.00	0.00
8,400.0	2.58	294.75	8,394.7	99.3	-215.4	-91.3	0.00	0.00	0.00
8,500.0	2.58	294.75	8,494.6	101.2	-219.5	-93.1	0.00	0.00	0.00
8,600.0	2.58	294.75	8,594.5	103.1	-223.6	-94.8	0.00	0.00	0.00
8,700.0	2.58	294.75	8,694.4	105.0	-227.7	-96.5	0.00	0.00	0.00
8,800.0	2.58	294.75	8,794.3	106.8	-231.7	-98.3	0.00	0.00	0.00
8,900.0	2.58	294.75	8,894.2	108.7	-235.8	-100.0	0.00	0.00	0.00
9,000.0	2.58	294.75	8,994.1	110.6	-239.9	-101.7	0.00	0.00	0.00
9,100.0	2.58	294.75	9,094.0	112.5	-244.0	-103.5	0.00	0.00	0.00
9,200.0	2.58	294.75	9,193.9	114.4	-248.1	-105.2	0.00	0.00	0.00
9,300.0	2.58	294.75	9,293.8	116.3	-252.2	-106.9	0.00	0.00	0.00
9,400.0	2.58	294.75	9,393.7	118.1	-256.3	-108.7	0.00	0.00	0.00
9,500.0	2.58	294.75	9,493.6	120.0	-260.4	-110.4	0.00	0.00	0.00
9,600.0	2.58	294.75	9,593.5	121.9	-264.4	-112.1	0.00	0.00	0.00
9,700.0	2.58	294.75	9,693.4	123.8	-268.5	-113.9	0.00	0.00	0.00
9,800.0	2.58	294.75	9,793.3	125.7	-272.6	-115.6	0.00	0.00	0.00
9,900.0	2.58	294.75	9,893.2	127.6	-276.7	-117.3	0.00	0.00	0.00
10,000.0	2.58	294.75	9,993.1	129.5	-280.8	-119.1	0.00	0.00	0.00
10,100.0	2.58	294.75	10,093.0	131.3	-284.9	-120.8	0.00	0.00	0.00
10,200.0	2.58	294.75	10,192.9	133.2	-289.0	-122.5	0.00	0.00	0.00
10,300.0	2.58	294.75	10,292.8	135.1	-293.0	-124.3	0.00	0.00	0.00
10,400.0	2.58	294.75	10,392.7	137.0	-297.1	-126.0	0.00	0.00	0.00
10,500.0	2.58	294.75	10,492.6	138.9	-301.2	-127.7	0.00	0.00	0.00
10,600.0	2.58	294.75	10,592.5	140.8	-305.3	-129.5	0.00	0.00	0.00



Planning Report

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 Company: EOG Resources - Midland
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 Design: Plan #0.1

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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)
10,700.0	2.58	294.75	10,692.4	142.6	-309.4	-131.2	0.00	0.00	0.00
10,800.0	2.58	294.75	10,792.3	144.5	-313.5	-132.9	0.00	0.00	0.00
10,900.0	2.58	294.75	10,892.2	146.4	-317.6	-134.7	0.00	0.00	0.00
11,000.0	2.58	294.75	10,992.1	148.3	-321.6	-136.4	0.00	0.00	0.00
11,050.7	2.58	294.75	11,042.8	149.2	-323.7	-137.3	0.00	0.00	0.00
11,075.0	2.95	231.67	11,067.0	149.1	-324.7	-137.1	12.00	1.54	-260.14
11,100.0	5.34	205.30	11,091.9	147.6	-325.7	-135.6	12.00	9.57	-105.46
11,125.0	8.15	196.02	11,116.8	144.9	-326.7	-132.8	12.00	11.22	-37.14
11,150.0	11.06	191.52	11,141.4	140.8	-327.7	-128.7	12.00	11.63	-17.98
11,175.0	14.00	188.89	11,165.8	135.5	-328.6	-123.4	12.00	11.78	-10.53
11,200.0	16.97	187.16	11,189.9	128.9	-329.5	-116.7	12.00	11.86	-6.92
11,225.0	19.94	185.93	11,213.6	121.0	-330.4	-108.8	12.00	11.90	-4.91
11,250.0	22.92	185.01	11,236.9	111.9	-331.3	-99.7	12.00	11.92	-3.68
11,275.0	25.91	184.30	11,259.6	101.6	-332.1	-89.4	12.00	11.94	-2.87
11,300.0	28.90	183.72	11,281.8	90.2	-332.9	-77.9	12.00	11.95	-2.31
11,325.0	31.89	183.24	11,303.4	77.5	-333.7	-65.2	12.00	11.96	-1.91
11,350.0	34.88	182.84	11,324.3	63.8	-334.4	-51.5	12.00	11.97	-1.62
11,375.0	37.87	182.49	11,344.4	49.0	-335.1	-36.7	12.00	11.97	-1.39
11,400.0	40.86	182.19	11,363.7	33.1	-335.8	-20.8	12.00	11.98	-1.22
11,425.0	43.86	181.92	11,382.2	16.3	-336.4	-4.0	12.00	11.98	-1.08
11,450.0	46.85	181.67	11,399.8	-1.5	-336.9	13.8	12.00	11.98	-0.97
11,475.0	49.85	181.46	11,416.4	-20.1	-337.4	32.5	12.00	11.98	-0.88
11,500.0	52.85	181.26	11,432.0	-39.7	-337.9	52.0	12.00	11.98	-0.80
11,525.0	55.84	181.07	11,446.6	-60.0	-338.3	72.3	12.00	11.98	-0.74
11,550.0	58.84	180.90	11,460.0	-81.0	-338.7	93.4	12.00	11.99	-0.69
11,575.0	61.84	180.74	11,472.4	-102.7	-339.0	115.1	12.00	11.99	-0.65
11,600.0	64.83	180.58	11,483.6	-125.1	-339.2	137.4	12.00	11.99	-0.61
11,625.0	67.83	180.44	11,493.7	-148.0	-339.4	160.3	12.00	11.99	-0.58
FTP(Hunter 21 st com #603H)									
11,650.0	70.83	180.30	11,502.5	-171.3	-339.6	183.7	12.00	11.99	-0.56
11,675.0	73.82	180.16	11,510.1	-195.2	-339.7	207.5	12.00	11.99	-0.54
11,700.0	76.82	180.03	11,516.4	-219.3	-339.7	231.6	12.00	11.99	-0.52
11,725.0	79.82	179.91	11,521.5	-243.8	-339.7	256.1	12.00	11.99	-0.51
11,750.0	82.82	179.78	11,525.2	-268.5	-339.6	280.8	12.00	11.99	-0.50
11,775.0	85.81	179.66	11,527.7	-293.4	-339.5	305.6	12.00	11.99	-0.49
11,800.0	88.81	179.53	11,528.9	-318.4	-339.3	330.6	12.00	11.99	-0.49
11,809.9	90.00	179.49	11,529.0	-328.3	-339.2	340.5	12.00	11.99	-0.49
11,900.0	90.00	179.49	11,529.0	-418.4	-338.4	430.5	0.00	0.00	0.00
12,000.0	90.00	179.49	11,529.0	-518.4	-337.5	530.4	0.00	0.00	0.00
12,100.0	90.00	179.49	11,529.0	-618.4	-336.6	630.3	0.00	0.00	0.00
12,200.0	90.00	179.49	11,529.0	-718.4	-335.8	730.2	0.00	0.00	0.00
12,300.0	90.00	179.49	11,529.0	-818.3	-334.9	830.1	0.00	0.00	0.00
12,400.0	90.00	179.49	11,529.0	-918.3	-334.0	930.0	0.00	0.00	0.00
12,500.0	90.00	179.49	11,529.0	-1,018.3	-333.1	1,029.9	0.00	0.00	0.00
12,600.0	90.00	179.49	11,529.0	-1,118.3	-332.2	1,129.8	0.00	0.00	0.00
12,700.0	90.00	179.49	11,529.0	-1,218.3	-331.3	1,229.7	0.00	0.00	0.00
12,800.0	90.00	179.49	11,529.0	-1,318.3	-330.4	1,329.6	0.00	0.00	0.00
12,900.0	90.00	179.49	11,529.0	-1,418.3	-329.5	1,429.4	0.00	0.00	0.00
13,000.0	90.00	179.49	11,529.0	-1,518.3	-328.6	1,529.3	0.00	0.00	0.00
13,100.0	90.00	179.49	11,529.0	-1,618.3	-327.7	1,629.2	0.00	0.00	0.00
13,200.0	90.00	179.49	11,529.0	-1,718.3	-326.8	1,729.1	0.00	0.00	0.00
13,300.0	90.00	179.49	11,529.0	-1,818.3	-325.9	1,829.0	0.00	0.00	0.00
13,400.0	90.00	179.49	11,529.0	-1,918.3	-325.0	1,928.9	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: #603H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #603H
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)
13,500.0	90.00	179.49	11,529.0	-2,018.3	-324.1	2,028.8	0.00	0.00	0.00
13,600.0	90.00	179.49	11,529.0	-2,118.3	-323.2	2,128.7	0.00	0.00	0.00
13,700.0	90.00	179.49	11,529.0	-2,218.3	-322.3	2,228.6	0.00	0.00	0.00
13,800.0	90.00	179.49	11,529.0	-2,318.3	-321.4	2,328.5	0.00	0.00	0.00
13,900.0	90.00	179.49	11,529.0	-2,418.3	-320.5	2,428.4	0.00	0.00	0.00
14,000.0	90.00	179.49	11,529.0	-2,518.3	-319.6	2,528.3	0.00	0.00	0.00
14,100.0	90.00	179.49	11,529.0	-2,618.3	-318.7	2,628.2	0.00	0.00	0.00
14,200.0	90.00	179.49	11,529.0	-2,718.3	-317.8	2,728.1	0.00	0.00	0.00
14,300.0	90.00	179.49	11,529.0	-2,818.3	-316.9	2,828.0	0.00	0.00	0.00
14,400.0	90.00	179.49	11,529.0	-2,918.3	-316.0	2,927.9	0.00	0.00	0.00
14,500.0	90.00	179.49	11,529.0	-3,018.3	-315.1	3,027.8	0.00	0.00	0.00
14,600.0	90.00	179.49	11,529.0	-3,118.3	-314.2	3,127.7	0.00	0.00	0.00
14,700.0	90.00	179.49	11,529.0	-3,218.3	-313.3	3,227.6	0.00	0.00	0.00
14,800.0	90.00	179.49	11,529.0	-3,318.2	-312.4	3,327.5	0.00	0.00	0.00
14,900.0	90.00	179.49	11,529.0	-3,418.2	-311.6	3,427.4	0.00	0.00	0.00
15,000.0	90.00	179.49	11,529.0	-3,518.2	-310.7	3,527.3	0.00	0.00	0.00
15,100.0	90.00	179.49	11,529.0	-3,618.2	-309.8	3,627.2	0.00	0.00	0.00
15,200.0	90.00	179.49	11,529.0	-3,718.2	-308.9	3,727.1	0.00	0.00	0.00
15,300.0	90.00	179.49	11,529.0	-3,818.2	-308.0	3,827.0	0.00	0.00	0.00
15,400.0	90.00	179.49	11,529.0	-3,918.2	-307.1	3,926.8	0.00	0.00	0.00
15,500.0	90.00	179.49	11,529.0	-4,018.2	-306.2	4,026.7	0.00	0.00	0.00
15,600.0	90.00	179.49	11,529.0	-4,118.2	-305.3	4,126.6	0.00	0.00	0.00
15,700.0	90.00	179.49	11,529.0	-4,218.2	-304.4	4,226.5	0.00	0.00	0.00
15,800.0	90.00	179.49	11,529.0	-4,318.2	-303.5	4,326.4	0.00	0.00	0.00
15,900.0	90.00	179.49	11,529.0	-4,418.2	-302.6	4,426.3	0.00	0.00	0.00
16,000.0	90.00	179.49	11,529.0	-4,518.2	-301.7	4,526.2	0.00	0.00	0.00
16,100.0	90.00	179.49	11,529.0	-4,618.2	-300.8	4,626.1	0.00	0.00	0.00
16,200.0	90.00	179.49	11,529.0	-4,718.2	-299.9	4,726.0	0.00	0.00	0.00
16,300.0	90.00	179.49	11,529.0	-4,818.2	-299.0	4,825.9	0.00	0.00	0.00
16,400.0	90.00	179.49	11,529.0	-4,918.2	-298.1	4,925.8	0.00	0.00	0.00
16,500.0	90.00	179.49	11,529.0	-5,018.2	-297.2	5,025.7	0.00	0.00	0.00
16,600.0	90.00	179.49	11,529.0	-5,118.2	-296.3	5,125.6	0.00	0.00	0.00
16,700.0	90.00	179.49	11,529.0	-5,218.2	-295.4	5,225.5	0.00	0.00	0.00
16,800.0	90.00	179.49	11,529.0	-5,318.2	-294.5	5,325.4	0.00	0.00	0.00
16,900.0	90.00	179.49	11,529.0	-5,418.2	-293.6	5,425.3	0.00	0.00	0.00
17,000.0	90.00	179.49	11,529.0	-5,518.2	-292.7	5,525.2	0.00	0.00	0.00
17,100.0	90.00	179.49	11,529.0	-5,618.2	-291.8	5,625.1	0.00	0.00	0.00
17,200.0	90.00	179.49	11,529.0	-5,718.2	-290.9	5,725.0	0.00	0.00	0.00
17,300.0	90.00	179.49	11,529.0	-5,818.1	-290.0	5,824.9	0.00	0.00	0.00
17,400.0	90.00	179.49	11,529.0	-5,918.1	-289.1	5,924.8	0.00	0.00	0.00
17,500.0	90.00	179.49	11,529.0	-6,018.1	-288.2	6,024.7	0.00	0.00	0.00
17,600.0	90.00	179.49	11,529.0	-6,118.1	-287.4	6,124.6	0.00	0.00	0.00
17,700.0	90.00	179.49	11,529.0	-6,218.1	-286.5	6,224.5	0.00	0.00	0.00
17,800.0	90.00	179.49	11,529.0	-6,318.1	-285.6	6,324.3	0.00	0.00	0.00
17,900.0	90.00	179.49	11,529.0	-6,418.1	-284.7	6,424.2	0.00	0.00	0.00
18,000.0	90.00	179.49	11,529.0	-6,518.1	-283.8	6,524.1	0.00	0.00	0.00
18,100.0	90.00	179.49	11,529.0	-6,618.1	-282.9	6,624.0	0.00	0.00	0.00
18,200.0	90.00	179.49	11,529.0	-6,718.1	-282.0	6,723.9	0.00	0.00	0.00
18,300.0	90.00	179.49	11,529.0	-6,818.1	-281.1	6,823.8	0.00	0.00	0.00
18,400.0	90.00	179.49	11,529.0	-6,918.1	-280.2	6,923.7	0.00	0.00	0.00
18,500.0	90.00	179.49	11,529.0	-7,018.1	-279.3	7,023.6	0.00	0.00	0.00
18,600.0	90.00	179.49	11,529.0	-7,118.1	-278.4	7,123.5	0.00	0.00	0.00
18,700.0	90.00	179.49	11,529.0	-7,218.1	-277.5	7,223.4	0.00	0.00	0.00
18,800.0	90.00	179.49	11,529.0	-7,318.1	-276.6	7,323.3	0.00	0.00	0.00



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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)
18,900.0	90.00	179.49	11,529.0	-7,418.1	-275.7	7,423.2	0.00	0.00	0.00
18,977.9	90.00	179.49	11,529.0	-7,496.0	-275.0	7,501.0	0.00	0.00	0.00

PBHL(Hunter 21 st com #603H)

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	0.00	11,529.0	-7,496.0	-275.0	465,550.00	837,597.00	32° 16' 34.439 N	103° 22' 29.118 W
FTP(Hunter 21 st com # - plan misses target center by 38.4usft at 11625.0usft MD (11493.7 TVD, -148.0 N, -339.4 E) - Point	0.00	0.00	11,529.0	-133.0	-341.0	472,913.00	837,531.00	32° 17' 47.299 N	103° 22' 29.120 W