



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Arch 28 State

#601H

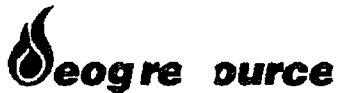
OH

Plan: Plan #1

Standard Planning Report

18 August, 2015

'AUG 20 2015'



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Arch 28 State
Well: #601H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3562.0usft (Precision 612)
MD Reference: KB = 25 @ 3562.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Arch 28 State			
Site Position:		Northing:	499,376.00 usft	Latitude: 32° 22' 9.041 N
From: Map		Easting:	799,108.00 usft	Longitude: 103° 21' 52.454 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.52 °

Well	#601H			
Well Position	+N/-S	0.0 usft	Northing:	499,376.00 usft
	+E/-W	0.0 usft	Easting:	799,108.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	0.0 usft
			Ground Level:	3,537.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/2/2016	7.02	60.25	48,187

Design Plan #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	179.50

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,692.8	1.93	359.30	4,692.7	3.2	0.0	1.00	1.00	0.00	359.30	
10,586.1	1.93	359.30	10,582.8	201.5	-2.4	0.00	0.00	0.00	0.00	
11,505.4	90.00	179.49	11,175.0	-371.1	2.6	10.00	9.58	-19.56	-179.81	
15,936.5	90.00	179.49	11,175.0	-4,802.0	42.0	0.00	0.00	0.00	0.00	PBHL(arch 28 ST #8C)



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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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	359.30	4,600.0	0.9	0.0	-0.9	1.00	1.00	0.00
4,692.8	1.93	359.30	4,692.7	3.2	0.0	-3.2	1.00	1.00	0.00
4,700.0	1.93	359.30	4,700.0	3.5	0.0	-3.5	0.00	0.00	0.00
4,800.0	1.93	359.30	4,799.9	6.8	-0.1	-6.8	0.00	0.00	0.00
4,900.0	1.93	359.30	4,899.8	10.2	-0.1	-10.2	0.00	0.00	0.00
5,000.0	1.93	359.30	4,999.8	13.6	-0.2	-13.6	0.00	0.00	0.00
5,100.0	1.93	359.30	5,099.7	16.9	-0.2	-16.9	0.00	0.00	0.00
5,200.0	1.93	359.30	5,199.7	20.3	-0.2	-20.3	0.00	0.00	0.00



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5,300.0	1.93	359.30	5,299.6	23.7	-0.3	-23.7	0.00	0.00	0.00
5,400.0	1.93	359.30	5,399.6	27.0	-0.3	-27.0	0.00	0.00	0.00
5,500.0	1.93	359.30	5,499.5	30.4	-0.4	-30.4	0.00	0.00	0.00
5,600.0	1.93	359.30	5,599.5	33.8	-0.4	-33.8	0.00	0.00	0.00
5,700.0	1.93	359.30	5,699.4	37.1	-0.5	-37.1	0.00	0.00	0.00
5,800.0	1.93	359.30	5,799.3	40.5	-0.5	-40.5	0.00	0.00	0.00
5,900.0	1.93	359.30	5,899.3	43.8	-0.5	-43.9	0.00	0.00	0.00
6,000.0	1.93	359.30	5,999.2	47.2	-0.6	-47.2	0.00	0.00	0.00
6,100.0	1.93	359.30	6,099.2	50.6	-0.6	-50.6	0.00	0.00	0.00
6,200.0	1.93	359.30	6,199.1	53.9	-0.7	-53.9	0.00	0.00	0.00
6,300.0	1.93	359.30	6,299.1	57.3	-0.7	-57.3	0.00	0.00	0.00
6,400.0	1.93	359.30	6,399.0	60.7	-0.7	-60.7	0.00	0.00	0.00
6,500.0	1.93	359.30	6,498.9	64.0	-0.8	-64.0	0.00	0.00	0.00
6,600.0	1.93	359.30	6,598.9	67.4	-0.8	-67.4	0.00	0.00	0.00
6,700.0	1.93	359.30	6,698.8	70.8	-0.9	-70.8	0.00	0.00	0.00
6,800.0	1.93	359.30	6,798.8	74.1	-0.9	-74.1	0.00	0.00	0.00
6,900.0	1.93	359.30	6,898.7	77.5	-0.9	-77.5	0.00	0.00	0.00
7,000.0	1.93	359.30	6,998.7	80.8	-1.0	-80.9	0.00	0.00	0.00
7,100.0	1.93	359.30	7,098.6	84.2	-1.0	-84.2	0.00	0.00	0.00
7,200.0	1.93	359.30	7,198.5	87.6	-1.1	-87.6	0.00	0.00	0.00
7,300.0	1.93	359.30	7,298.5	90.9	-1.1	-90.9	0.00	0.00	0.00
7,400.0	1.93	359.30	7,398.4	94.3	-1.1	-94.3	0.00	0.00	0.00
7,500.0	1.93	359.30	7,498.4	97.7	-1.2	-97.7	0.00	0.00	0.00
7,600.0	1.93	359.30	7,598.3	101.0	-1.2	-101.0	0.00	0.00	0.00
7,700.0	1.93	359.30	7,698.3	104.4	-1.3	-104.4	0.00	0.00	0.00
7,800.0	1.93	359.30	7,798.2	107.8	-1.3	-107.8	0.00	0.00	0.00
7,900.0	1.93	359.30	7,898.1	111.1	-1.4	-111.1	0.00	0.00	0.00
8,000.0	1.93	359.30	7,998.1	114.5	-1.4	-114.5	0.00	0.00	0.00
8,100.0	1.93	359.30	8,098.0	117.8	-1.4	-117.9	0.00	0.00	0.00
8,200.0	1.93	359.30	8,198.0	121.2	-1.5	-121.2	0.00	0.00	0.00
8,300.0	1.93	359.30	8,297.9	124.6	-1.5	-124.6	0.00	0.00	0.00
8,400.0	1.93	359.30	8,397.9	127.9	-1.6	-127.9	0.00	0.00	0.00
8,500.0	1.93	359.30	8,497.8	131.3	-1.6	-131.3	0.00	0.00	0.00
8,600.0	1.93	359.30	8,597.8	134.7	-1.6	-134.7	0.00	0.00	0.00
8,700.0	1.93	359.30	8,697.7	138.0	-1.7	-138.0	0.00	0.00	0.00
8,800.0	1.93	359.30	8,797.6	141.4	-1.7	-141.4	0.00	0.00	0.00
8,900.0	1.93	359.30	8,897.6	144.8	-1.8	-144.8	0.00	0.00	0.00
9,000.0	1.93	359.30	8,997.5	148.1	-1.8	-148.1	0.00	0.00	0.00
9,100.0	1.93	359.30	9,097.5	151.5	-1.8	-151.5	0.00	0.00	0.00
9,200.0	1.93	359.30	9,197.4	154.8	-1.9	-154.9	0.00	0.00	0.00
9,300.0	1.93	359.30	9,297.4	158.2	-1.9	-158.2	0.00	0.00	0.00
9,400.0	1.93	359.30	9,397.3	161.6	-2.0	-161.6	0.00	0.00	0.00
9,500.0	1.93	359.30	9,497.2	164.9	-2.0	-165.0	0.00	0.00	0.00
9,600.0	1.93	359.30	9,597.2	168.3	-2.0	-168.3	0.00	0.00	0.00
9,700.0	1.93	359.30	9,697.1	171.7	-2.1	-171.7	0.00	0.00	0.00
9,800.0	1.93	359.30	9,797.1	175.0	-2.1	-175.0	0.00	0.00	0.00
9,900.0	1.93	359.30	9,897.0	178.4	-2.2	-178.4	0.00	0.00	0.00
10,000.0	1.93	359.30	9,997.0	181.8	-2.2	-181.8	0.00	0.00	0.00
10,100.0	1.93	359.30	10,096.9	185.1	-2.2	-185.1	0.00	0.00	0.00
10,200.0	1.93	359.30	10,196.8	188.5	-2.3	-188.5	0.00	0.00	0.00
10,300.0	1.93	359.30	10,296.8	191.8	-2.3	-191.9	0.00	0.00	0.00
10,400.0	1.93	359.30	10,396.7	195.2	-2.4	-195.2	0.00	0.00	0.00
10,500.0	1.93	359.30	10,496.7	198.6	-2.4	-198.6	0.00	0.00	0.00
10,586.1	1.93	359.30	10,582.8	201.5	-2.4	-201.5	0.00	0.00	0.00



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10,600.0	0.54	358.83	10,596.6	201.8	-2.5	-201.8	10.00	-10.00	-3.44
10,650.0	4.46	179.57	10,646.6	200.1	-2.4	-200.1	10.00	7.83	-358.51
10,700.0	9.46	179.53	10,696.2	194.0	-2.4	-194.0	10.00	10.00	-0.09
10,750.0	14.46	179.51	10,745.1	183.7	-2.3	-183.7	10.00	10.00	-0.03
10,800.0	19.46	179.51	10,792.9	169.1	-2.2	-169.1	10.00	10.00	-0.01
10,850.0	24.46	179.50	10,839.3	150.4	-2.0	-150.4	10.00	10.00	-0.01
10,900.0	29.46	179.50	10,883.8	127.7	-1.8	-127.7	10.00	10.00	-0.01
10,950.0	34.46	179.50	10,926.2	101.3	-1.6	-101.3	10.00	10.00	0.00
11,000.0	39.46	179.50	10,966.2	71.2	-1.3	-71.2	10.00	10.00	0.00
11,050.0	44.46	179.50	11,003.3	37.8	-1.0	-37.8	10.00	10.00	0.00
11,100.0	49.46	179.50	11,037.5	1.3	-0.7	-1.3	10.00	10.00	0.00
11,150.0	54.46	179.49	11,068.3	-38.1	-0.4	38.1	10.00	10.00	0.00
11,200.0	59.46	179.49	11,095.5	-80.0	0.0	80.0	10.00	10.00	0.00
11,238.3	63.29	179.49	11,113.8	-113.6	0.3	113.6	10.00	10.00	0.00
FTP(Arch 28 ST #601H)									
11,250.0	64.46	179.49	11,119.0	-124.1	0.4	124.1	10.00	10.00	0.00
11,300.0	69.46	179.49	11,138.6	-170.1	0.8	170.1	10.00	10.00	0.00
11,350.0	74.46	179.49	11,154.0	-217.6	1.2	217.6	10.00	10.00	0.00
11,400.0	79.46	179.49	11,165.3	-266.3	1.6	266.3	10.00	10.00	0.00
11,450.0	84.46	179.49	11,172.3	-315.8	2.1	315.8	10.00	10.00	0.00
11,500.0	89.46	179.49	11,175.0	-365.7	2.5	365.7	10.00	10.00	0.00
11,505.4	90.00	179.49	11,175.0	-371.1	2.6	371.1	10.00	10.00	0.00
11,600.0	90.00	179.49	11,175.0	-465.7	3.4	465.7	0.00	0.00	0.00
11,700.0	90.00	179.49	11,175.0	-565.7	4.3	565.7	0.00	0.00	0.00
11,800.0	90.00	179.49	11,175.0	-665.7	5.2	665.7	0.00	0.00	0.00
11,900.0	90.00	179.49	11,175.0	-765.7	6.1	765.7	0.00	0.00	0.00
12,000.0	90.00	179.49	11,175.0	-865.7	7.0	865.7	0.00	0.00	0.00
12,100.0	90.00	179.49	11,175.0	-965.7	7.9	965.7	0.00	0.00	0.00
12,200.0	90.00	179.49	11,175.0	-1,065.7	8.8	1,065.7	0.00	0.00	0.00
12,300.0	90.00	179.49	11,175.0	-1,165.7	9.6	1,165.7	0.00	0.00	0.00
12,400.0	90.00	179.49	11,175.0	-1,265.7	10.5	1,265.7	0.00	0.00	0.00
12,500.0	90.00	179.49	11,175.0	-1,365.7	11.4	1,365.7	0.00	0.00	0.00
12,600.0	90.00	179.49	11,175.0	-1,465.7	12.3	1,465.7	0.00	0.00	0.00
12,700.0	90.00	179.49	11,175.0	-1,565.7	13.2	1,565.7	0.00	0.00	0.00
12,800.0	90.00	179.49	11,175.0	-1,665.7	14.1	1,665.7	0.00	0.00	0.00
12,900.0	90.00	179.49	11,175.0	-1,765.7	15.0	1,765.7	0.00	0.00	0.00
13,000.0	90.00	179.49	11,175.0	-1,865.7	15.9	1,865.7	0.00	0.00	0.00
13,100.0	90.00	179.49	11,175.0	-1,965.7	16.8	1,965.7	0.00	0.00	0.00
13,200.0	90.00	179.49	11,175.0	-2,065.7	17.7	2,065.7	0.00	0.00	0.00
13,300.0	90.00	179.49	11,175.0	-2,165.7	18.5	2,165.7	0.00	0.00	0.00
13,400.0	90.00	179.49	11,175.0	-2,265.6	19.4	2,265.7	0.00	0.00	0.00
13,500.0	90.00	179.49	11,175.0	-2,365.6	20.3	2,365.7	0.00	0.00	0.00
13,600.0	90.00	179.49	11,175.0	-2,465.6	21.2	2,465.7	0.00	0.00	0.00
13,700.0	90.00	179.49	11,175.0	-2,565.6	22.1	2,565.7	0.00	0.00	0.00
13,800.0	90.00	179.49	11,175.0	-2,665.6	23.0	2,665.7	0.00	0.00	0.00
13,900.0	90.00	179.49	11,175.0	-2,765.6	23.9	2,765.7	0.00	0.00	0.00
14,000.0	90.00	179.49	11,175.0	-2,865.6	24.8	2,865.7	0.00	0.00	0.00
14,100.0	90.00	179.49	11,175.0	-2,965.6	25.7	2,965.7	0.00	0.00	0.00
14,200.0	90.00	179.49	11,175.0	-3,065.6	26.6	3,065.7	0.00	0.00	0.00
14,300.0	90.00	179.49	11,175.0	-3,165.6	27.4	3,165.7	0.00	0.00	0.00
14,400.0	90.00	179.49	11,175.0	-3,265.6	28.3	3,265.7	0.00	0.00	0.00
14,500.0	90.00	179.49	11,175.0	-3,365.6	29.2	3,365.7	0.00	0.00	0.00
14,600.0	90.00	179.49	11,175.0	-3,465.6	30.1	3,465.7	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Arch 28 State
Well: #601H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #601H
TVD Reference: KB = 25 @ 3562.0usft (Precision 612)
MD Reference: KB = 25 @ 3562.0usft (Precision 612)
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)
14,700.0	90.00	179.49	11,175.0	-3,565.6	31.0	3,565.7	0.00	0.00	0.00
14,800.0	90.00	179.49	11,175.0	-3,665.6	31.9	3,665.7	0.00	0.00	0.00
14,900.0	90.00	179.49	11,175.0	-3,765.6	32.8	3,765.7	0.00	0.00	0.00
15,000.0	90.00	179.49	11,175.0	-3,865.6	33.7	3,865.7	0.00	0.00	0.00
15,100.0	90.00	179.49	11,175.0	-3,965.6	34.6	3,965.7	0.00	0.00	0.00
15,200.0	90.00	179.49	11,175.0	-4,065.6	35.4	4,065.7	0.00	0.00	0.00
15,300.0	90.00	179.49	11,175.0	-4,165.6	36.3	4,165.7	0.00	0.00	0.00
15,400.0	90.00	179.49	11,175.0	-4,265.6	37.2	4,265.7	0.00	0.00	0.00
15,500.0	90.00	179.49	11,175.0	-4,365.6	38.1	4,365.7	0.00	0.00	0.00
15,600.0	90.00	179.49	11,175.0	-4,465.6	39.0	4,465.7	0.00	0.00	0.00
15,700.0	90.00	179.49	11,175.0	-4,565.6	39.9	4,565.7	0.00	0.00	0.00
15,800.0	90.00	179.49	11,175.0	-4,665.6	40.8	4,665.7	0.00	0.00	0.00
15,900.0	90.00	179.49	11,175.0	-4,765.6	41.7	4,765.7	0.00	0.00	0.00
15,936.5	90.00	179.49	11,175.0	-4,802.0	42.0	4,802.2	0.00	0.00	0.00

PBHL(arch 28 ST #601H)

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(arch 28 ST #601H)	0.00	0.00	11,175.0	-4,802.0	42.0	494,574.00	799,150.00	32° 21' 21.523 N	103° 21' 52.471 W
- plan hits target center									
- Point									
FTP(arch 28 ST #601H)	0.00	0.00	11,175.0	-81.0	0.0	499,295.00	799,108.00	32° 22' 8.239 N	103° 21' 52.462 W
- plan misses target center by 69.3usft at 11238.3usft MD (11113.8 TVD, -113.6 N, 0.3 E)									
- Point									