



Lea County, NM (NAD 83 NME)

Ares 4 State #705H

H&P 424

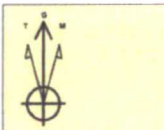
Plan #0.1

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: #705H

Ground Level: 3582.0
KB = 25 @ 3907.5usft (H&P 434)
Northing: 452448.00 Easting: 776134.00 Latitude: 32° 14' 29.864 N Longitude: 103° 34' 28.068 W



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.49°
Magnetic Field
Strength: 47885.6nT
Dip Angle: 60.07°
Date: 1/11/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.49°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

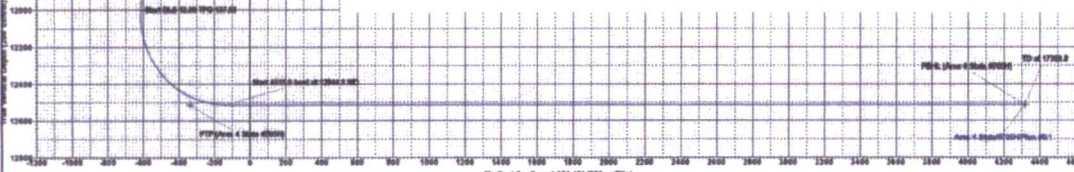
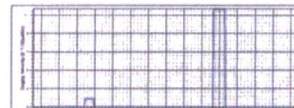
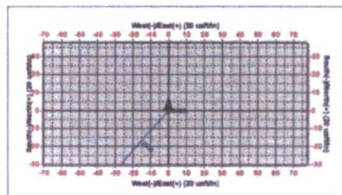
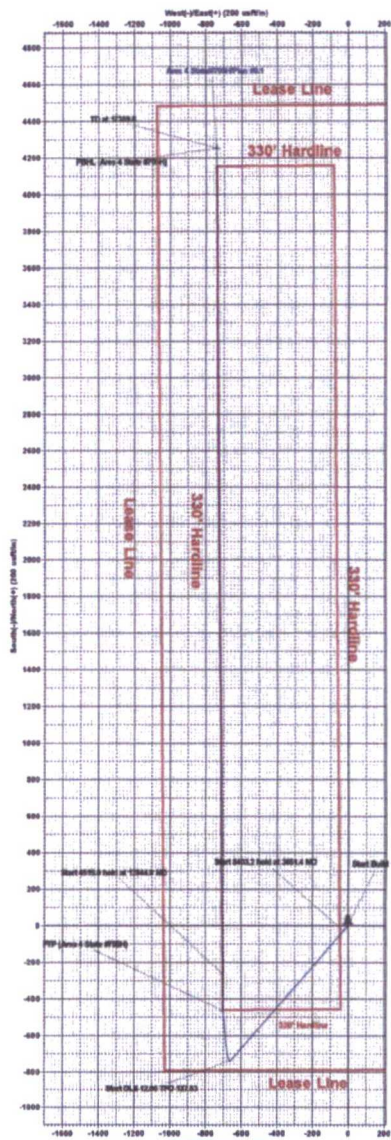
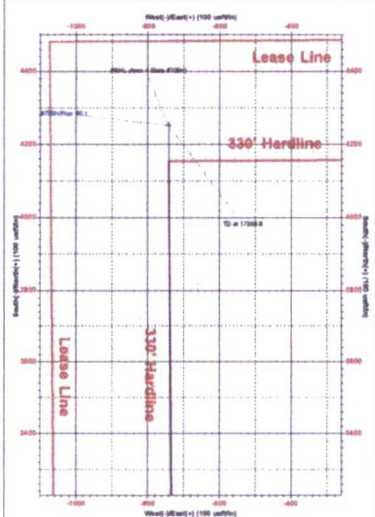
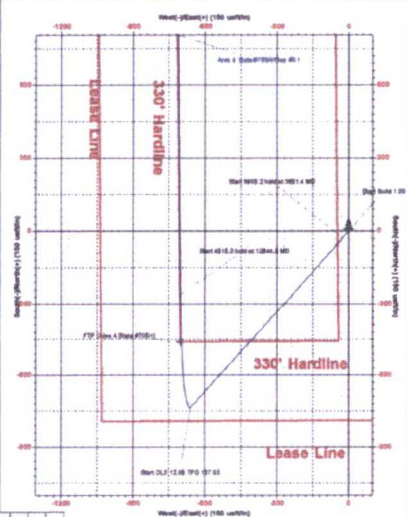
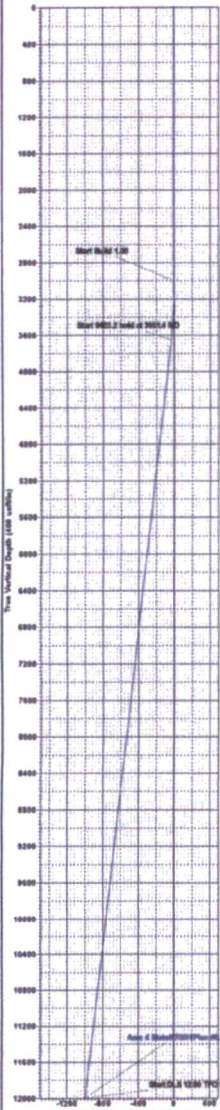
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSeal	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0		
3	3651.4	6.51	221.80	3650.0	-27.6	-34.7	1.00	221.80	-22.9		
4	12864.6	6.51	221.80	11989.0	-738.3	-660.0	0.00	0.00	-613.8		
5	12864.6	90.00	359.51	12815.0	-262.8	-703.7	12.00	137.50	-158.0		
6	17358.9	90.00	359.51	12815.0	4232.0	-742.0	0.00	0.00	4218.0		PBH (Area 4 State #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBH (Area 4 State #705H)	12516.0	4282.3	-742.0	486700.00	775392.00
FTP (Area 4 State #705H)	12516.0	-463.0	-703.0	481965.00	775432.50





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Ares 4 State

#705H

OH

Plan: Plan #0.1

Standard Planning Report

11 January, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3607.0usft (H&P 424)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3607.0usft (H&P 424)
Site:	Ares 4 State	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Ares 4 State		
Site Position:		Northing:	451,993.00 usft
From:	Map	Easting:	777,413.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 25.072 N
		Longitude:	103° 34' 11.215 W
		Grid Convergence:	0.41 °

Well	#705H		
Well Position	+N/-S	455.0 usft	Northing: 452,448.00 usft
	+E/-W	-1,279.0 usft	Easting: 776,134.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 14' 29.664 N
			Longitude: 103° 34' 26.068 W
			Ground Level: 3,582.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	1/11/2018	6.89
			Dip Angle (°)
			60.07
			Field Strength (nT)
			47,888.56616777

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)
	0.0	0.0	0.0
			Direction (°)
			350.10

Plan Survey Tool Program	Date 1/11/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	17,359.8 Plan #0.1 (OH)	MWD
			MWD - Standard
			Remarks

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	
3,651.4	6.51	221.80	3,650.0	-27.6	-24.7	1.00	1.00	0.00	221.80	
12,054.6	6.51	221.80	11,999.0	-738.3	-660.0	0.00	0.00	0.00	0.00	
12,844.8	90.00	359.51	12,515.0	-262.8	-703.7	12.00	10.57	17.43	137.53	
17,359.8	90.00	359.51	12,515.0	4,252.0	-742.0	0.00	0.00	0.00	0.00	PBHL (Ares 4 State #



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Ares 4 State
 Well: #705H
 Wellbore: OH
 Design: Plan #0.1

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

Well #705H
 KB = 25 @ 3607.0usft (H&P 424)
 KB = 25 @ 3607.0usft (H&P 424)
 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	221.80	3,100.0	-0.7	-0.6	-0.5	1.00	1.00	0.00
3,200.0	2.00	221.80	3,200.0	-2.6	-2.3	-2.2	1.00	1.00	0.00
3,300.0	3.00	221.80	3,299.9	-5.9	-5.2	-4.9	1.00	1.00	0.00
3,400.0	4.00	221.80	3,399.7	-10.4	-9.3	-8.7	1.00	1.00	0.00
3,500.0	5.00	221.80	3,499.4	-16.3	-14.5	-13.5	1.00	1.00	0.00
3,600.0	6.00	221.80	3,598.9	-23.4	-20.9	-19.5	1.00	1.00	0.00
3,651.4	6.51	221.80	3,650.0	-27.6	-24.7	-22.9	1.00	1.00	0.00
3,700.0	6.51	221.80	3,698.3	-31.7	-28.3	-26.3	0.00	0.00	0.00
3,800.0	6.51	221.80	3,797.6	-40.1	-35.9	-33.4	0.00	0.00	0.00
3,900.0	6.51	221.80	3,897.0	-48.6	-43.4	-40.4	0.00	0.00	0.00
4,000.0	6.51	221.80	3,996.3	-57.1	-51.0	-47.4	0.00	0.00	0.00
4,100.0	6.51	221.80	4,095.7	-65.5	-58.6	-54.5	0.00	0.00	0.00
4,200.0	6.51	221.80	4,195.1	-74.0	-66.1	-61.5	0.00	0.00	0.00
4,300.0	6.51	221.80	4,294.4	-82.4	-73.7	-68.5	0.00	0.00	0.00
4,400.0	6.51	221.80	4,393.8	-90.9	-81.3	-75.6	0.00	0.00	0.00
4,500.0	6.51	221.80	4,493.1	-99.3	-88.8	-82.6	0.00	0.00	0.00
4,600.0	6.51	221.80	4,592.5	-107.8	-96.4	-89.6	0.00	0.00	0.00
4,700.0	6.51	221.80	4,691.8	-116.3	-103.9	-96.7	0.00	0.00	0.00
4,800.0	6.51	221.80	4,791.2	-124.7	-111.5	-103.7	0.00	0.00	0.00
4,900.0	6.51	221.80	4,890.5	-133.2	-119.1	-110.7	0.00	0.00	0.00
5,000.0	6.51	221.80	4,989.9	-141.6	-126.6	-117.8	0.00	0.00	0.00
5,100.0	6.51	221.80	5,089.2	-150.1	-134.2	-124.8	0.00	0.00	0.00
5,200.0	6.51	221.80	5,188.6	-158.5	-141.7	-131.8	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3607.0usft (H&P 424)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3607.0usft (H&P 424)
Site:	Ares 4 State	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	6.51	221.80	5,288.0	-167.0	-149.3	-138.9	0.00	0.00	0.00
5,400.0	6.51	221.80	5,387.3	-175.5	-156.9	-145.9	0.00	0.00	0.00
5,500.0	6.51	221.80	5,486.7	-183.9	-164.4	-152.9	0.00	0.00	0.00
5,600.0	6.51	221.80	5,586.0	-192.4	-172.0	-159.9	0.00	0.00	0.00
5,700.0	6.51	221.80	5,685.4	-200.8	-179.5	-167.0	0.00	0.00	0.00
5,800.0	6.51	221.80	5,784.7	-209.3	-187.1	-174.0	0.00	0.00	0.00
5,900.0	6.51	221.80	5,884.1	-217.7	-194.7	-181.0	0.00	0.00	0.00
6,000.0	6.51	221.80	5,983.4	-226.2	-202.2	-188.1	0.00	0.00	0.00
6,100.0	6.51	221.80	6,082.8	-234.7	-209.8	-195.1	0.00	0.00	0.00
6,200.0	6.51	221.80	6,182.1	-243.1	-217.4	-202.1	0.00	0.00	0.00
6,300.0	6.51	221.80	6,281.5	-251.6	-224.9	-209.2	0.00	0.00	0.00
6,400.0	6.51	221.80	6,380.9	-260.0	-232.5	-216.2	0.00	0.00	0.00
6,500.0	6.51	221.80	6,480.2	-268.5	-240.0	-223.2	0.00	0.00	0.00
6,600.0	6.51	221.80	6,579.6	-276.9	-247.6	-230.3	0.00	0.00	0.00
6,700.0	6.51	221.80	6,678.9	-285.4	-255.2	-237.3	0.00	0.00	0.00
6,800.0	6.51	221.80	6,778.3	-293.9	-262.7	-244.3	0.00	0.00	0.00
6,900.0	6.51	221.80	6,877.6	-302.3	-270.3	-251.4	0.00	0.00	0.00
7,000.0	6.51	221.80	6,977.0	-310.8	-277.8	-258.4	0.00	0.00	0.00
7,100.0	6.51	221.80	7,076.3	-319.2	-285.4	-265.4	0.00	0.00	0.00
7,200.0	6.51	221.80	7,175.7	-327.7	-293.0	-272.5	0.00	0.00	0.00
7,300.0	6.51	221.80	7,275.0	-336.1	-300.5	-279.5	0.00	0.00	0.00
7,400.0	6.51	221.80	7,374.4	-344.6	-308.1	-286.5	0.00	0.00	0.00
7,500.0	6.51	221.80	7,473.8	-353.1	-315.6	-293.5	0.00	0.00	0.00
7,600.0	6.51	221.80	7,573.1	-361.5	-323.2	-300.6	0.00	0.00	0.00
7,700.0	6.51	221.80	7,672.5	-370.0	-330.8	-307.6	0.00	0.00	0.00
7,800.0	6.51	221.80	7,771.8	-378.4	-338.3	-314.6	0.00	0.00	0.00
7,900.0	6.51	221.80	7,871.2	-386.9	-345.9	-321.7	0.00	0.00	0.00
8,000.0	6.51	221.80	7,970.5	-395.4	-353.5	-328.7	0.00	0.00	0.00
8,100.0	6.51	221.80	8,069.9	-403.8	-361.0	-335.7	0.00	0.00	0.00
8,200.0	6.51	221.80	8,169.2	-412.3	-368.6	-342.8	0.00	0.00	0.00
8,300.0	6.51	221.80	8,268.6	-420.7	-376.1	-349.8	0.00	0.00	0.00
8,400.0	6.51	221.80	8,367.9	-429.2	-383.7	-356.8	0.00	0.00	0.00
8,500.0	6.51	221.80	8,467.3	-437.6	-391.3	-363.9	0.00	0.00	0.00
8,600.0	6.51	221.80	8,566.7	-446.1	-398.8	-370.9	0.00	0.00	0.00
8,700.0	6.51	221.80	8,666.0	-454.6	-406.4	-377.9	0.00	0.00	0.00
8,800.0	6.51	221.80	8,765.4	-463.0	-413.9	-385.0	0.00	0.00	0.00
8,900.0	6.51	221.80	8,864.7	-471.5	-421.5	-392.0	0.00	0.00	0.00
9,000.0	6.51	221.80	8,964.1	-479.9	-429.1	-399.0	0.00	0.00	0.00
9,100.0	6.51	221.80	9,063.4	-488.4	-436.6	-406.1	0.00	0.00	0.00
9,200.0	6.51	221.80	9,162.8	-496.8	-444.2	-413.1	0.00	0.00	0.00
9,300.0	6.51	221.80	9,262.1	-505.3	-451.7	-420.1	0.00	0.00	0.00
9,400.0	6.51	221.80	9,361.5	-513.8	-459.3	-427.1	0.00	0.00	0.00
9,500.0	6.51	221.80	9,460.8	-522.2	-466.9	-434.2	0.00	0.00	0.00
9,600.0	6.51	221.80	9,560.2	-530.7	-474.4	-441.2	0.00	0.00	0.00
9,700.0	6.51	221.80	9,659.6	-539.1	-482.0	-448.2	0.00	0.00	0.00
9,800.0	6.51	221.80	9,758.9	-547.6	-489.5	-455.3	0.00	0.00	0.00
9,900.0	6.51	221.80	9,858.3	-556.0	-497.1	-462.3	0.00	0.00	0.00
10,000.0	6.51	221.80	9,957.6	-564.5	-504.7	-469.3	0.00	0.00	0.00
10,100.0	6.51	221.80	10,057.0	-573.0	-512.2	-476.4	0.00	0.00	0.00
10,200.0	6.51	221.80	10,156.3	-581.4	-519.8	-483.4	0.00	0.00	0.00
10,300.0	6.51	221.80	10,255.7	-589.9	-527.4	-490.4	0.00	0.00	0.00
10,400.0	6.51	221.80	10,355.0	-598.3	-534.9	-497.5	0.00	0.00	0.00
10,500.0	6.51	221.80	10,454.4	-606.8	-542.5	-504.5	0.00	0.00	0.00
10,600.0	6.51	221.80	10,553.7	-615.2	-550.0	-511.5	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Ares 4 State
Well: #705H
Wellbore: OH
Design: Plan #0.1

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

Well #705H
KB = 25 @ 3607.0usft (H&P 424)
KB = 25 @ 3607.0usft (H&P 424)
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	6.51	221.80	10,653.1	-623.7	-557.6	-518.6	0.00	0.00	0.00
10,800.0	6.51	221.80	10,752.4	-632.2	-565.2	-525.6	0.00	0.00	0.00
10,900.0	6.51	221.80	10,851.8	-640.6	-572.7	-532.6	0.00	0.00	0.00
11,000.0	6.51	221.80	10,951.2	-649.1	-580.3	-539.7	0.00	0.00	0.00
11,100.0	6.51	221.80	11,050.5	-657.5	-587.8	-546.7	0.00	0.00	0.00
11,200.0	6.51	221.80	11,149.9	-666.0	-595.4	-553.7	0.00	0.00	0.00
11,300.0	6.51	221.80	11,249.2	-674.4	-603.0	-560.7	0.00	0.00	0.00
11,400.0	6.51	221.80	11,348.6	-682.9	-610.5	-567.8	0.00	0.00	0.00
11,500.0	6.51	221.80	11,447.9	-691.4	-618.1	-574.8	0.00	0.00	0.00
11,600.0	6.51	221.80	11,547.3	-699.8	-625.6	-581.8	0.00	0.00	0.00
11,700.0	6.51	221.80	11,646.6	-708.3	-633.2	-588.9	0.00	0.00	0.00
11,800.0	6.51	221.80	11,746.0	-716.7	-640.8	-595.9	0.00	0.00	0.00
11,900.0	6.51	221.80	11,845.3	-725.2	-648.3	-602.9	0.00	0.00	0.00
12,000.0	6.51	221.80	11,944.7	-733.6	-655.9	-610.0	0.00	0.00	0.00
12,054.6	6.51	221.80	11,999.0	-738.3	-660.0	-613.8	0.00	0.00	0.00
12,075.0	4.99	241.13	12,019.2	-739.6	-661.6	-614.8	12.00	-7.48	94.90
12,100.0	4.44	277.68	12,044.2	-739.9	-663.5	-614.9	12.00	-2.21	146.21
12,125.0	5.70	309.14	12,069.1	-739.0	-665.4	-613.6	12.00	5.03	125.86
12,150.0	7.95	326.13	12,093.9	-736.8	-667.3	-611.1	12.00	9.01	67.94
12,175.0	10.58	335.22	12,118.6	-733.3	-669.3	-607.3	12.00	10.51	36.36
12,200.0	13.36	340.64	12,143.0	-728.5	-671.2	-602.3	12.00	11.14	21.70
12,225.0	16.22	344.20	12,167.2	-722.4	-673.1	-595.9	12.00	11.44	14.24
12,250.0	19.12	346.71	12,191.0	-715.1	-675.0	-588.4	12.00	11.61	10.04
12,275.0	22.05	348.58	12,214.4	-706.5	-676.8	-579.6	12.00	11.71	7.47
12,300.0	24.99	350.03	12,237.3	-696.7	-678.7	-569.6	12.00	11.78	5.79
12,325.0	27.95	351.19	12,259.7	-685.7	-680.5	-558.5	12.00	11.82	4.64
12,350.0	30.91	352.14	12,281.5	-673.5	-682.3	-546.2	12.00	11.85	3.82
12,375.0	33.88	352.94	12,302.6	-660.2	-684.0	-532.8	12.00	11.88	3.21
12,400.0	36.86	353.63	12,323.0	-645.9	-685.7	-518.4	12.00	11.89	2.75
12,425.0	39.83	354.23	12,342.6	-630.4	-687.3	-502.9	12.00	11.91	2.39
12,450.0	42.81	354.76	12,361.4	-614.0	-688.9	-486.4	12.00	11.92	2.11
12,475.0	45.79	355.23	12,379.2	-596.6	-690.4	-469.0	12.00	11.93	1.89
12,500.0	48.78	355.65	12,396.2	-578.3	-691.9	-450.8	12.00	11.93	1.70
12,525.0	51.76	356.04	12,412.2	-559.1	-693.3	-431.6	12.00	11.94	1.56
12,550.0	54.75	356.40	12,427.1	-539.2	-694.6	-411.7	12.00	11.95	1.43
12,575.0	57.74	356.73	12,441.0	-518.4	-695.8	-391.1	12.00	11.95	1.33
12,600.0	60.72	357.05	12,453.8	-497.0	-697.0	-369.7	12.00	11.95	1.25
12,625.0	63.71	357.34	12,465.5	-474.9	-698.1	-347.8	12.00	11.95	1.17
12,650.0	66.70	357.62	12,475.9	-452.2	-699.1	-325.3	12.00	11.96	1.12
12,654.6	67.25	357.67	12,477.7	-448.0	-699.3	-321.1	12.00	11.96	1.09
FTP (Ares 4 State #705H)									
12,675.0	69.69	357.88	12,485.2	-429.0	-700.0	-302.3	12.00	11.96	1.06
12,700.0	72.68	358.14	12,493.3	-405.4	-700.8	-278.9	12.00	11.96	1.03
12,725.0	75.67	358.39	12,500.1	-381.3	-701.5	-255.0	12.00	11.96	0.99
12,750.0	78.66	358.63	12,505.7	-357.0	-702.2	-230.9	12.00	11.96	0.97
12,775.0	81.65	358.87	12,509.9	-332.3	-702.7	-206.6	12.00	11.96	0.95
12,800.0	84.65	359.10	12,512.9	-307.5	-703.2	-182.1	12.00	11.96	0.93
12,825.0	87.64	359.33	12,514.6	-282.6	-703.5	-157.4	12.00	11.96	0.92
12,844.8	90.00	359.51	12,515.0	-262.8	-703.7	-138.0	12.00	11.96	0.92
12,900.0	90.00	359.51	12,515.0	-207.6	-704.2	-83.4	0.00	0.00	0.00
13,000.0	90.00	359.51	12,515.0	-107.6	-705.0	15.2	0.00	0.00	0.00
13,100.0	90.00	359.51	12,515.0	-7.6	-705.9	113.9	0.00	0.00	0.00
13,200.0	90.00	359.51	12,515.0	92.4	-706.7	212.5	0.00	0.00	0.00



Planning Report

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Project: Lea County, NM (NAD 83 NME)
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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	359.51	12,515.0	192.4	-707.6	311.2	0.00	0.00	0.00
13,400.0	90.00	359.51	12,515.0	292.4	-708.4	409.8	0.00	0.00	0.00
13,500.0	90.00	359.51	12,515.0	392.4	-709.3	508.5	0.00	0.00	0.00
13,600.0	90.00	359.51	12,515.0	492.4	-710.1	607.1	0.00	0.00	0.00
13,700.0	90.00	359.51	12,515.0	592.4	-711.0	705.8	0.00	0.00	0.00
13,800.0	90.00	359.51	12,515.0	692.4	-711.8	804.4	0.00	0.00	0.00
13,900.0	90.00	359.51	12,515.0	792.4	-712.7	903.1	0.00	0.00	0.00
14,000.0	90.00	359.51	12,515.0	892.4	-713.5	1,001.7	0.00	0.00	0.00
14,100.0	90.00	359.51	12,515.0	992.4	-714.3	1,100.4	0.00	0.00	0.00
14,200.0	90.00	359.51	12,515.0	1,092.4	-715.2	1,199.0	0.00	0.00	0.00
14,300.0	90.00	359.51	12,515.0	1,192.4	-716.0	1,297.7	0.00	0.00	0.00
14,400.0	90.00	359.51	12,515.0	1,292.4	-716.9	1,396.4	0.00	0.00	0.00
14,500.0	90.00	359.51	12,515.0	1,392.4	-717.7	1,495.0	0.00	0.00	0.00
14,600.0	90.00	359.51	12,515.0	1,492.3	-718.6	1,593.7	0.00	0.00	0.00
14,700.0	90.00	359.51	12,515.0	1,592.3	-719.4	1,692.3	0.00	0.00	0.00
14,800.0	90.00	359.51	12,515.0	1,692.3	-720.3	1,791.0	0.00	0.00	0.00
14,900.0	90.00	359.51	12,515.0	1,792.3	-721.1	1,889.6	0.00	0.00	0.00
15,000.0	90.00	359.51	12,515.0	1,892.3	-722.0	1,988.3	0.00	0.00	0.00
15,100.0	90.00	359.51	12,515.0	1,992.3	-722.8	2,086.9	0.00	0.00	0.00
15,200.0	90.00	359.51	12,515.0	2,092.3	-723.7	2,185.6	0.00	0.00	0.00
15,300.0	90.00	359.51	12,515.0	2,192.3	-724.5	2,284.2	0.00	0.00	0.00
15,400.0	90.00	359.51	12,515.0	2,292.3	-725.4	2,382.9	0.00	0.00	0.00
15,500.0	90.00	359.51	12,515.0	2,392.3	-726.2	2,481.5	0.00	0.00	0.00
15,600.0	90.00	359.51	12,515.0	2,492.3	-727.1	2,580.2	0.00	0.00	0.00
15,700.0	90.00	359.51	12,515.0	2,592.3	-727.9	2,678.9	0.00	0.00	0.00
15,800.0	90.00	359.51	12,515.0	2,692.3	-728.8	2,777.5	0.00	0.00	0.00
15,900.0	90.00	359.51	12,515.0	2,792.3	-729.6	2,876.2	0.00	0.00	0.00
16,000.0	90.00	359.51	12,515.0	2,892.3	-730.5	2,974.8	0.00	0.00	0.00
16,100.0	90.00	359.51	12,515.0	2,992.3	-731.3	3,073.5	0.00	0.00	0.00
16,200.0	90.00	359.51	12,515.0	3,092.3	-732.2	3,172.1	0.00	0.00	0.00
16,300.0	90.00	359.51	12,515.0	3,192.3	-733.0	3,270.8	0.00	0.00	0.00
16,400.0	90.00	359.51	12,515.0	3,292.3	-733.9	3,369.4	0.00	0.00	0.00
16,500.0	90.00	359.51	12,515.0	3,392.3	-734.7	3,468.1	0.00	0.00	0.00
16,600.0	90.00	359.51	12,515.0	3,492.3	-735.6	3,566.7	0.00	0.00	0.00
16,700.0	90.00	359.51	12,515.0	3,592.3	-736.4	3,665.4	0.00	0.00	0.00
16,800.0	90.00	359.51	12,515.0	3,692.3	-737.3	3,764.0	0.00	0.00	0.00
16,900.0	90.00	359.51	12,515.0	3,792.3	-738.1	3,862.7	0.00	0.00	0.00
17,000.0	90.00	359.51	12,515.0	3,892.3	-738.9	3,961.3	0.00	0.00	0.00
17,100.0	90.00	359.51	12,515.0	3,992.3	-739.8	4,060.0	0.00	0.00	0.00
17,200.0	90.00	359.51	12,515.0	4,092.3	-740.6	4,158.7	0.00	0.00	0.00
17,300.0	90.00	359.51	12,515.0	4,192.3	-741.5	4,257.3	0.00	0.00	0.00
17,359.8	90.00	359.51	12,515.0	4,252.0	-742.0	4,316.3	0.00	0.00	0.00

PBHL (Ares 4 State #705H)



Planning Report

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Local Co-ordinate Reference: Well #705H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
FTP (Ares 4 State #705H) - plan misses target center by 40.3usft at 12654.6usft MD (12477.7 TVD, -448.0 N, -699.3 E) - Point	0.00	0.00	12,515.0	-463.0	-702.0	451,985.00	775,432.00	32° 14' 25.131 N	103° 34' 34.280 W
PBHL (Ares 4 State #705H) - plan hits target center - Point	0.00	0.00	12,515.0	4,252.0	-742.0	456,700.00	775,392.00	32° 15' 11.790 N	103° 34' 34.358 W