



Lea County, NM (NAD 83 NME)

Yarrow 32 State #703H

Plan #0.2

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: #703H

KB = 25 @ 3497.0usft 3673.0
Northing 487299.00 Easting 770722.00 Latitude 32° 15' 13.940 N Longitude 103° 35' 23.890 W

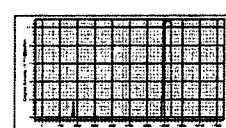
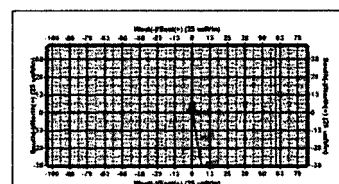
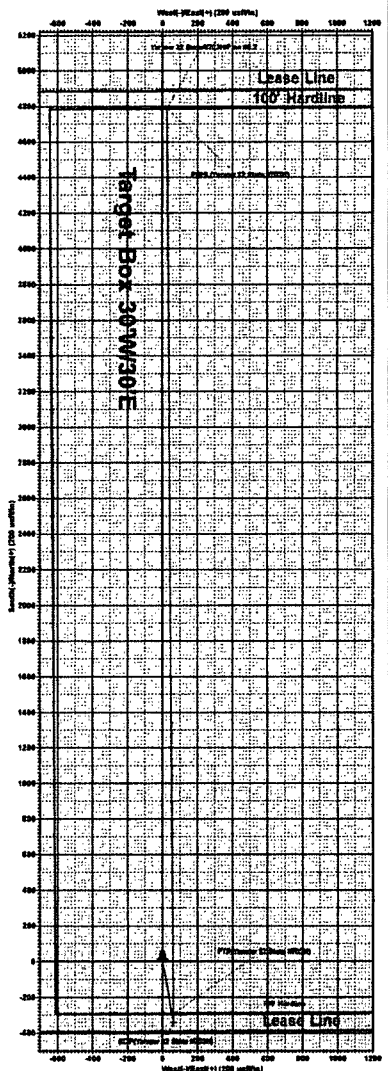
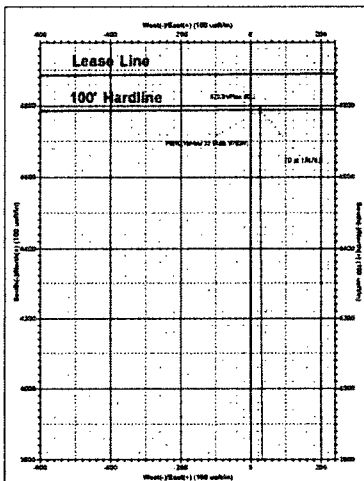
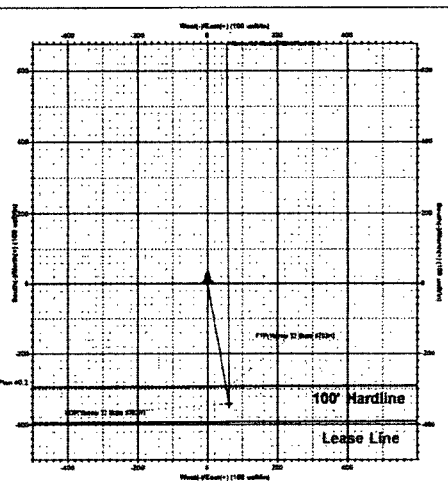
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
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	3111.1	2.22	169.72	3111.1	-2.1	0.4	2.00	169.72	-2.1	
4	11961.1	2.22	169.72	11954.4	-339.9	61.6	0.00	0.00	-339.5	
5	12072.2	0.00	0.00	12065.5	-342.0	62.0	2.00	180.00	-341.7	KOP(Yarrow 32 State #703H)
6	12622.2	90.00	369.60	12543.0	135.4	65.6	12.00	369.60	135.8	
7	17474.9	90.00	369.60	12543.0	4768.0	26.0	0.00	0.00	4768.1	PBHL(Yarrow 32 State #703H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (NAD 83 COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(Yarrow 32 State #703H)	12065.5	-342.0	62.0	486987.00	770754.00
PBHL(Yarrow 32 State #703H)	12543.0	4768.0	26.0	487007.00	770748.00
FTY(Yarrow 32 State #703H)	12543.0	-242.0	62.0	487007.00	770754.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#703H

OH

Plan: Plan #0.2

Standard Planning Report

31 January, 2019



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
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	Yarrow 32 State			
Site Position:		Northing:	457,304.00 usft	Latitude: 32° 15' 18.011 N
From:	Map	Easting:	771,862.00 usft	Longitude: 103° 35' 15.414 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.40 °

Well	#703H			
Well Position	+N/-S	-5.0 usft	Northing: 457,299.00 usft	Latitude: 32° 15' 18.040 N
	+E/-W	-1,140.0 usft	Easting: 770,722.00 usft	Longitude: 103° 35' 28.690 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,672.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/2018	6.82	60.07	47,815.69184006

Design	Plan #0.2			
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	0.31

Plan Survey Tool Program	Date 1/31/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	17,474.9	Plan #0.2 (OH)	MWD	
			OWSG 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	
3,111.1	2.22	169.72	3,111.1	-2.1	0.4	2.00	2.00	0.00	169.72	
11,961.1	2.22	169.72	11,954.4	-339.9	61.6	0.00	0.00	0.00	0.00	
12,072.2	0.00	0.00	12,065.5	-342.0	62.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,822.2	90.00	359.60	12,543.0	135.4	58.6	12.00	12.00	-0.05	359.60	
17,474.9	90.00	359.60	12,543.0	4,788.0	26.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 State



Planning Report

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Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVS Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+/-S (usft)	+/-EW (usft)	Vertical Section (usft)	Degrees Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100.0	0.0	0.0	100.0	0.0	0.0	0.0	0.0	0.0	0.0
200.0	0.0	0.0	200.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	300.0	0.0	0.0	0.0	0.0	0.0	0.0
400.0	0.0	0.0	400.0	0.0	0.0	0.0	0.0	0.0	0.0
500.0	0.0	0.0	500.0	0.0	0.0	0.0	0.0	0.0	0.0
600.0	0.0	0.0	600.0	0.0	0.0	0.0	0.0	0.0	0.0
700.0	0.0	0.0	700.0	0.0	0.0	0.0	0.0	0.0	0.0
800.0	0.0	0.0	800.0	0.0	0.0	0.0	0.0	0.0	0.0
900.0	0.0	0.0	900.0	0.0	0.0	0.0	0.0	0.0	0.0
1,000.0	0.0	0.0	1,000.0	0.0	0.0	0.0	0.0	0.0	0.0
1,100.0	0.0	0.0	1,100.0	0.0	0.0	0.0	0.0	0.0	0.0
1,200.0	0.0	0.0	1,200.0	0.0	0.0	0.0	0.0	0.0	0.0
1,300.0	0.0	0.0	1,300.0	0.0	0.0	0.0	0.0	0.0	0.0
1,400.0	0.0	0.0	1,400.0	0.0	0.0	0.0	0.0	0.0	0.0
1,500.0	0.0	0.0	1,500.0	0.0	0.0	0.0	0.0	0.0	0.0
1,600.0	0.0	0.0	1,600.0	0.0	0.0	0.0	0.0	0.0	0.0
1,700.0	0.0	0.0	1,700.0	0.0	0.0	0.0	0.0	0.0	0.0
1,800.0	0.0	0.0	1,800.0	0.0	0.0	0.0	0.0	0.0	0.0
1,900.0	0.0	0.0	1,900.0	0.0	0.0	0.0	0.0	0.0	0.0
2,000.0	0.0	0.0	2,000.0	0.0	0.0	0.0	0.0	0.0	0.0
2,100.0	0.0	0.0	2,100.0	0.0	0.0	0.0	0.0	0.0	0.0
2,200.0	0.0	0.0	2,200.0	0.0	0.0	0.0	0.0	0.0	0.0
2,300.0	0.0	0.0	2,300.0	0.0	0.0	0.0	0.0	0.0	0.0
2,400.0	0.0	0.0	2,400.0	0.0	0.0	0.0	0.0	0.0	0.0
2,500.0	0.0	0.0	2,500.0	0.0	0.0	0.0	0.0	0.0	0.0
2,600.0	0.0	0.0	2,600.0	0.0	0.0	0.0	0.0	0.0	0.0
2,700.0	0.0	0.0	2,700.0	0.0	0.0	0.0	0.0	0.0	0.0
2,800.0	0.0	0.0	2,800.0	0.0	0.0	0.0	0.0	0.0	0.0
2,900.0	0.0	0.0	2,900.0	0.0	0.0	0.0	0.0	0.0	0.0
3,000.0	0.0	0.0	3,000.0	0.0	0.0	0.0	0.0	0.0	0.0
3,100.0	2.0	168.72	3,100.0	-1.7	0.3	0.3	-1.7	2.0	0.0
3,111.1	2.22	168.72	3,111.1	-2.1	0.4	-2.1	2.0	2.0	0.0
3,200.0	2.22	168.72	3,199.9	-5.5	1.0	-5.5	0.0	0.0	0.0
3,300.0	2.22	168.72	3,299.8	-9.3	1.7	-9.3	0.0	0.0	0.0
3,400.0	2.22	168.72	3,399.8	-13.1	2.4	-13.1	0.0	0.0	0.0
3,500.0	2.22	168.72	3,499.7	-17.0	3.1	-16.9	0.0	0.0	0.0
3,600.0	2.22	168.72	3,599.6	-20.8	3.8	-20.8	0.0	0.0	0.0
3,700.0	2.22	168.72	3,699.5	-24.6	4.5	-24.6	0.0	0.0	0.0
3,800.0	2.22	168.72	3,799.5	-28.4	5.2	-28.4	0.0	0.0	0.0
3,900.0	2.22	168.72	3,899.4	-32.2	5.8	-32.2	0.0	0.0	0.0
4,000.0	2.22	168.72	3,999.3	-36.0	6.5	-36.0	0.0	0.0	0.0
4,100.0	2.22	168.72	4,099.2	-39.9	7.2	-39.8	0.0	0.0	0.0
4,200.0	2.22	168.72	4,199.2	-43.7	7.9	-43.6	0.0	0.0	0.0
4,300.0	2.22	168.72	4,299.1	-47.5	8.6	-47.4	0.0	0.0	0.0
4,400.0	2.22	168.72	4,399.0	-51.3	9.3	-51.3	0.0	0.0	0.0
4,500.0	2.22	168.72	4,498.9	-55.1	10.0	-55.1	0.0	0.0	0.0
4,600.0	2.22	168.72	4,598.9	-58.9	10.7	-58.9	0.0	0.0	0.0
4,700.0	2.22	168.72	4,698.8	-62.8	11.4	-62.7	0.0	0.0	0.0
4,800.0	2.22	168.72	4,798.7	-66.6	12.1	-66.5	0.0	0.0	0.0
4,900.0	2.22	168.72	4,898.6	-70.4	12.8	-70.3	0.0	0.0	0.0
5,000.0	2.22	168.72	4,998.6	-74.2	13.5	-74.1	0.0	0.0	0.0
5,100.0	2.22	168.72	5,098.5	-78.0	14.1	-77.9	0.0	0.0	0.0
5,200.0	2.22	168.72	5,198.4	-81.8	14.8	-81.8	0.0	0.0	0.0



Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #703H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3697.0usft
 MD Reference: KB = 25 @ 3697.0usft
 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	2.22	169.72	5,298.3	-85.7	15.5	-85.6	0.00	0.00	0.00
5,400.0	2.22	169.72	5,398.2	-89.5	16.2	-89.4	0.00	0.00	0.00
5,500.0	2.22	169.72	5,498.2	-93.3	16.9	-93.2	0.00	0.00	0.00
5,600.0	2.22	169.72	5,598.1	-97.1	17.6	-97.0	0.00	0.00	0.00
5,700.0	2.22	169.72	5,698.0	-100.9	18.3	-100.8	0.00	0.00	0.00
5,800.0	2.22	169.72	5,797.9	-104.7	19.0	-104.6	0.00	0.00	0.00
5,900.0	2.22	169.72	5,897.9	-108.6	19.7	-108.4	0.00	0.00	0.00
6,000.0	2.22	169.72	5,997.8	-112.4	20.4	-112.3	0.00	0.00	0.00
6,100.0	2.22	169.72	6,097.7	-116.2	21.1	-116.1	0.00	0.00	0.00
6,200.0	2.22	169.72	6,197.6	-120.0	21.8	-119.9	0.00	0.00	0.00
6,300.0	2.22	169.72	6,297.6	-123.8	22.4	-123.7	0.00	0.00	0.00
6,400.0	2.22	169.72	6,397.5	-127.6	23.1	-127.5	0.00	0.00	0.00
6,500.0	2.22	169.72	6,497.4	-131.5	23.8	-131.3	0.00	0.00	0.00
6,600.0	2.22	169.72	6,597.3	-135.3	24.5	-135.1	0.00	0.00	0.00
6,700.0	2.22	169.72	6,697.3	-139.1	25.2	-139.0	0.00	0.00	0.00
6,800.0	2.22	169.72	6,797.2	-142.9	25.9	-142.8	0.00	0.00	0.00
6,900.0	2.22	169.72	6,897.1	-146.7	26.6	-146.6	0.00	0.00	0.00
7,000.0	2.22	169.72	6,997.0	-150.5	27.3	-150.4	0.00	0.00	0.00
7,100.0	2.22	169.72	7,097.0	-154.4	28.0	-154.2	0.00	0.00	0.00
7,200.0	2.22	169.72	7,196.9	-158.2	28.7	-158.0	0.00	0.00	0.00
7,300.0	2.22	169.72	7,296.8	-162.0	29.4	-161.8	0.00	0.00	0.00
7,400.0	2.22	169.72	7,396.7	-165.8	30.1	-165.6	0.00	0.00	0.00
7,500.0	2.22	169.72	7,496.7	-169.6	30.8	-169.5	0.00	0.00	0.00
7,600.0	2.22	169.72	7,596.6	-173.4	31.4	-173.3	0.00	0.00	0.00
7,700.0	2.22	169.72	7,696.5	-177.3	32.1	-177.1	0.00	0.00	0.00
7,800.0	2.22	169.72	7,796.4	-181.1	32.8	-180.9	0.00	0.00	0.00
7,900.0	2.22	169.72	7,896.4	-184.9	33.5	-184.7	0.00	0.00	0.00
8,000.0	2.22	169.72	7,996.3	-188.7	34.2	-188.5	0.00	0.00	0.00
8,100.0	2.22	169.72	8,096.2	-192.5	34.9	-192.3	0.00	0.00	0.00
8,200.0	2.22	169.72	8,196.1	-196.3	35.6	-196.1	0.00	0.00	0.00
8,300.0	2.22	169.72	8,296.1	-200.2	36.3	-200.0	0.00	0.00	0.00
8,400.0	2.22	169.72	8,396.0	-204.0	37.0	-203.8	0.00	0.00	0.00
8,500.0	2.22	169.72	8,495.9	-207.8	37.7	-207.6	0.00	0.00	0.00
8,600.0	2.22	169.72	8,595.8	-211.6	38.4	-211.4	0.00	0.00	0.00
8,700.0	2.22	169.72	8,695.8	-215.4	39.1	-215.2	0.00	0.00	0.00
8,800.0	2.22	169.72	8,795.7	-219.2	39.7	-219.0	0.00	0.00	0.00
8,900.0	2.22	169.72	8,895.6	-223.1	40.4	-222.8	0.00	0.00	0.00
9,000.0	2.22	169.72	8,995.5	-226.9	41.1	-226.6	0.00	0.00	0.00
9,100.0	2.22	169.72	9,095.5	-230.7	41.8	-230.5	0.00	0.00	0.00
9,200.0	2.22	169.72	9,195.4	-234.5	42.5	-234.3	0.00	0.00	0.00
9,300.0	2.22	169.72	9,295.3	-238.3	43.2	-238.1	0.00	0.00	0.00
9,400.0	2.22	169.72	9,395.2	-242.1	43.9	-241.9	0.00	0.00	0.00
9,500.0	2.22	169.72	9,495.2	-246.0	44.6	-245.7	0.00	0.00	0.00
9,600.0	2.22	169.72	9,595.1	-249.8	45.3	-249.5	0.00	0.00	0.00
9,700.0	2.22	169.72	9,695.0	-253.6	46.0	-253.3	0.00	0.00	0.00
9,800.0	2.22	169.72	9,794.9	-257.4	46.7	-257.1	0.00	0.00	0.00
9,900.0	2.22	169.72	9,894.9	-261.2	47.4	-261.0	0.00	0.00	0.00
10,000.0	2.22	169.72	9,994.8	-265.0	48.0	-264.8	0.00	0.00	0.00
10,100.0	2.22	169.72	10,094.7	-268.9	48.7	-268.6	0.00	0.00	0.00
10,200.0	2.22	169.72	10,194.6	-272.7	49.4	-272.4	0.00	0.00	0.00
10,300.0	2.22	169.72	10,294.6	-276.5	50.1	-276.2	0.00	0.00	0.00
10,400.0	2.22	169.72	10,394.5	-280.3	50.8	-280.0	0.00	0.00	0.00
10,500.0	2.22	169.72	10,494.4	-284.1	51.5	-283.8	0.00	0.00	0.00
10,600.0	2.22	169.72	10,594.3	-287.9	52.2	-287.6	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)
10,700.0	2.22	169.72	10,694.3	-291.8	52.9	-291.5	0.00	0.00	0.00
10,800.0	2.22	169.72	10,794.2	-295.6	53.6	-295.3	0.00	0.00	0.00
10,900.0	2.22	169.72	10,894.1	-299.4	54.3	-299.1	0.00	0.00	0.00
11,000.0	2.22	169.72	10,994.0	-303.2	55.0	-302.9	0.00	0.00	0.00
11,100.0	2.22	169.72	11,094.0	-307.0	55.7	-306.7	0.00	0.00	0.00
11,200.0	2.22	169.72	11,193.9	-310.8	56.3	-310.5	0.00	0.00	0.00
11,300.0	2.22	169.72	11,293.8	-314.6	57.0	-314.3	0.00	0.00	0.00
11,400.0	2.22	169.72	11,393.7	-318.5	57.7	-318.1	0.00	0.00	0.00
11,500.0	2.22	169.72	11,493.7	-322.3	58.4	-322.0	0.00	0.00	0.00
11,600.0	2.22	169.72	11,593.6	-326.1	59.1	-325.8	0.00	0.00	0.00
11,700.0	2.22	169.72	11,693.5	-329.9	59.8	-329.6	0.00	0.00	0.00
11,800.0	2.22	169.72	11,793.4	-333.7	60.5	-333.4	0.00	0.00	0.00
11,900.0	2.22	169.72	11,893.4	-337.5	61.2	-337.2	0.00	0.00	0.00
11,961.1	2.22	169.72	11,954.4	-339.9	61.6	-339.5	0.00	0.00	0.00
12,000.0	1.44	169.72	11,993.3	-341.1	61.8	-340.8	2.00	-2.00	0.00
12,072.2	0.00	0.00	12,065.5	-342.0	62.0	-341.7	2.00	-2.00	0.00
KOP(Yarrow 32 State #703H)									
12,075.0	0.33	359.60	12,068.3	-342.0	62.0	-341.7	12.00	12.00	0.00
12,100.0	3.33	359.60	12,093.3	-341.2	62.0	-340.9	12.00	12.00	0.00
12,125.0	6.33	359.60	12,118.2	-339.1	62.0	-338.7	12.00	12.00	0.00
12,150.0	9.33	359.60	12,142.9	-335.7	62.0	-335.3	12.00	12.00	0.00
12,175.0	12.33	359.60	12,167.5	-331.0	61.9	-330.6	12.00	12.00	0.00
12,200.0	15.33	359.60	12,191.8	-325.0	61.9	-324.7	12.00	12.00	0.00
12,225.0	18.33	359.60	12,215.7	-317.8	61.8	-317.4	12.00	12.00	0.00
12,250.0	21.33	359.60	12,239.2	-309.3	61.8	-308.9	12.00	12.00	0.00
12,275.0	24.33	359.60	12,262.2	-299.6	61.7	-299.2	12.00	12.00	0.00
12,300.0	27.33	359.60	12,284.7	-288.7	61.6	-288.4	12.00	12.00	0.00
12,325.0	30.33	359.60	12,306.6	-276.6	61.5	-276.3	12.00	12.00	0.00
12,350.0	33.33	359.60	12,327.9	-263.4	61.4	-263.1	12.00	12.00	0.00
12,375.0	36.33	359.60	12,348.4	-249.2	61.3	-248.8	12.00	12.00	0.00
12,400.0	39.33	359.60	12,368.1	-233.8	61.2	-233.5	12.00	12.00	0.00
12,425.0	42.33	359.60	12,387.1	-217.5	61.1	-217.2	12.00	12.00	0.00
12,450.0	45.33	359.60	12,405.1	-200.2	61.0	-199.8	12.00	12.00	0.00
12,475.0	48.33	359.60	12,422.2	-182.0	60.9	-181.6	12.00	12.00	0.00
FTP(Yarrow 32 State #703H)									
12,500.0	51.33	359.60	12,438.3	-162.8	60.7	-162.5	12.00	12.00	0.00
12,525.0	54.33	359.60	12,453.4	-142.9	60.6	-142.6	12.00	12.00	0.00
12,550.0	57.33	359.60	12,467.4	-122.2	60.5	-121.9	12.00	12.00	0.00
12,575.0	60.33	359.60	12,480.4	-100.9	60.3	-100.5	12.00	12.00	0.00
12,600.0	63.33	359.60	12,492.2	-78.8	60.2	-78.5	12.00	12.00	0.00
12,625.0	66.33	359.60	12,502.8	-56.2	60.0	-55.9	12.00	12.00	0.00
12,650.0	69.33	359.60	12,512.2	-33.0	59.8	-32.7	12.00	12.00	0.00
12,675.0	72.33	359.60	12,520.4	-9.4	59.7	-9.1	12.00	12.00	0.00
12,700.0	75.33	359.60	12,527.4	14.6	59.5	14.9	12.00	12.00	0.00
12,725.0	78.33	359.60	12,533.1	38.9	59.3	39.2	12.00	12.00	0.00
12,750.0	81.33	359.60	12,537.5	63.5	59.2	63.8	12.00	12.00	0.00
12,775.0	84.33	359.60	12,540.6	88.3	59.0	88.6	12.00	12.00	0.00
12,800.0	87.33	359.60	12,542.4	113.2	58.8	113.6	12.00	12.00	0.00
12,822.2	90.00	359.60	12,543.0	135.4	58.6	135.8	12.00	12.00	0.00
12,900.0	90.00	359.60	12,543.0	213.2	58.1	213.5	0.00	0.00	0.00
13,000.0	90.00	359.60	12,543.0	313.2	57.4	313.5	0.00	0.00	0.00
13,100.0	90.00	359.60	12,543.0	413.2	56.7	413.5	0.00	0.00	0.00
13,200.0	90.00	359.60	12,543.0	513.2	56.0	513.5	0.00	0.00	0.00
13,300.0	90.00	359.60	12,543.0	613.2	55.3	613.5	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
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)
13,400.0	90.00	359.60	12,543.0	713.2	54.6	713.5	0.00	0.00	0.00
13,500.0	90.00	359.60	12,543.0	813.2	53.9	813.5	0.00	0.00	0.00
13,600.0	90.00	359.60	12,543.0	913.2	53.2	913.5	0.00	0.00	0.00
13,700.0	90.00	359.60	12,543.0	1,013.2	52.5	1,013.5	0.00	0.00	0.00
13,800.0	90.00	359.60	12,543.0	1,113.2	51.8	1,113.5	0.00	0.00	0.00
13,900.0	90.00	359.60	12,543.0	1,213.2	51.1	1,213.5	0.00	0.00	0.00
14,000.0	90.00	359.60	12,543.0	1,313.2	50.4	1,313.5	0.00	0.00	0.00
14,100.0	90.00	359.60	12,543.0	1,413.2	49.7	1,413.5	0.00	0.00	0.00
14,200.0	90.00	359.60	12,543.0	1,513.2	49.0	1,513.4	0.00	0.00	0.00
14,300.0	90.00	359.60	12,543.0	1,613.2	48.3	1,613.4	0.00	0.00	0.00
14,400.0	90.00	359.60	12,543.0	1,713.2	47.6	1,713.4	0.00	0.00	0.00
14,500.0	90.00	359.60	12,543.0	1,813.2	46.9	1,813.4	0.00	0.00	0.00
14,600.0	90.00	359.60	12,543.0	1,913.2	46.2	1,913.4	0.00	0.00	0.00
14,700.0	90.00	359.60	12,543.0	2,013.2	45.5	2,013.4	0.00	0.00	0.00
14,800.0	90.00	359.60	12,543.0	2,113.2	44.8	2,113.4	0.00	0.00	0.00
14,900.0	90.00	359.60	12,543.0	2,213.2	44.1	2,213.4	0.00	0.00	0.00
15,000.0	90.00	359.60	12,543.0	2,313.2	43.4	2,313.4	0.00	0.00	0.00
15,100.0	90.00	359.60	12,543.0	2,413.2	42.7	2,413.4	0.00	0.00	0.00
15,200.0	90.00	359.60	12,543.0	2,513.2	42.0	2,513.4	0.00	0.00	0.00
15,300.0	90.00	359.60	12,543.0	2,613.2	41.3	2,613.4	0.00	0.00	0.00
15,400.0	90.00	359.60	12,543.0	2,713.2	40.6	2,713.4	0.00	0.00	0.00
15,500.0	90.00	359.60	12,543.0	2,813.2	39.9	2,813.3	0.00	0.00	0.00
15,600.0	90.00	359.60	12,543.0	2,913.2	39.2	2,913.3	0.00	0.00	0.00
15,700.0	90.00	359.60	12,543.0	3,013.2	38.5	3,013.3	0.00	0.00	0.00
15,800.0	90.00	359.60	12,543.0	3,113.2	37.8	3,113.3	0.00	0.00	0.00
15,900.0	90.00	359.60	12,543.0	3,213.2	37.1	3,213.3	0.00	0.00	0.00
16,000.0	90.00	359.60	12,543.0	3,313.2	36.3	3,313.3	0.00	0.00	0.00
16,100.0	90.00	359.60	12,543.0	3,413.2	35.6	3,413.3	0.00	0.00	0.00
16,200.0	90.00	359.60	12,543.0	3,513.2	34.9	3,513.3	0.00	0.00	0.00
16,300.0	90.00	359.60	12,543.0	3,613.2	34.2	3,613.3	0.00	0.00	0.00
16,400.0	90.00	359.60	12,543.0	3,713.1	33.5	3,713.3	0.00	0.00	0.00
16,500.0	90.00	359.60	12,543.0	3,813.1	32.8	3,813.3	0.00	0.00	0.00
16,600.0	90.00	359.60	12,543.0	3,913.1	32.1	3,913.3	0.00	0.00	0.00
16,700.0	90.00	359.60	12,543.0	4,013.1	31.4	4,013.3	0.00	0.00	0.00
16,800.0	90.00	359.60	12,543.0	4,113.1	30.7	4,113.2	0.00	0.00	0.00
16,900.0	90.00	359.60	12,543.0	4,213.1	30.0	4,213.2	0.00	0.00	0.00
17,000.0	90.00	359.60	12,543.0	4,313.1	29.3	4,313.2	0.00	0.00	0.00
17,100.0	90.00	359.60	12,543.0	4,413.1	28.6	4,413.2	0.00	0.00	0.00
17,200.0	90.00	359.60	12,543.0	4,513.1	27.9	4,513.2	0.00	0.00	0.00
17,300.0	90.00	359.60	12,543.0	4,613.1	27.2	4,613.2	0.00	0.00	0.00
17,400.0	90.00	359.60	12,543.0	4,713.1	26.5	4,713.2	0.00	0.00	0.00
17,474.9	90.00	359.60	12,543.0	4,788.0	26.0	4,788.1	0.00	0.00	0.00

PBHL(Yarrow 32 State #703H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #703H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3697.0usft
MD Reference: KB = 25 @ 3697.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
KOP(Yarrow 32 State #7 - plan hits target center - Point	0.00	0.00	12,065.5	-342.0	62.0	456,957.00	770,784.00	32° 15' 14.651 N	103° 35' 27.995 W
PBHL(Yarrow 32 State # - plan hits target center - Point	0.00	0.00	12,543.0	4,788.0	26.0	462,087.00	770,748.00	32° 16' 5.416 N	103° 35' 28.001 W
FTP(Yarrow 32 State #7 - plan misses target center by 163.4usft at 12475.0usft MD (12422.2 TVD, -182.0 N, 60.9 E) - Point	0.00	0.00	12,543.0	-292.0	62.0	457,007.00	770,784.00	32° 15' 15.146 N	103° 35' 27.991 W