



Lea County, NM (NAD 83 NME)

Yarrow 32 State #703H

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: #703H

KB = 25 @ 3697.0uM
Northing 457299.00 Easting 770722.00 Latitude 32° 15' 18.940 N Longitude 103° 35' 28.690 W

SECTION DETAILS

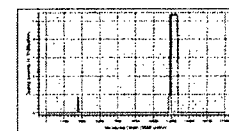
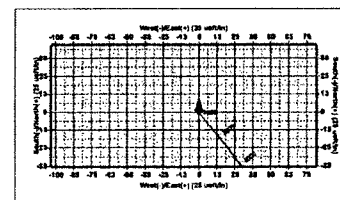
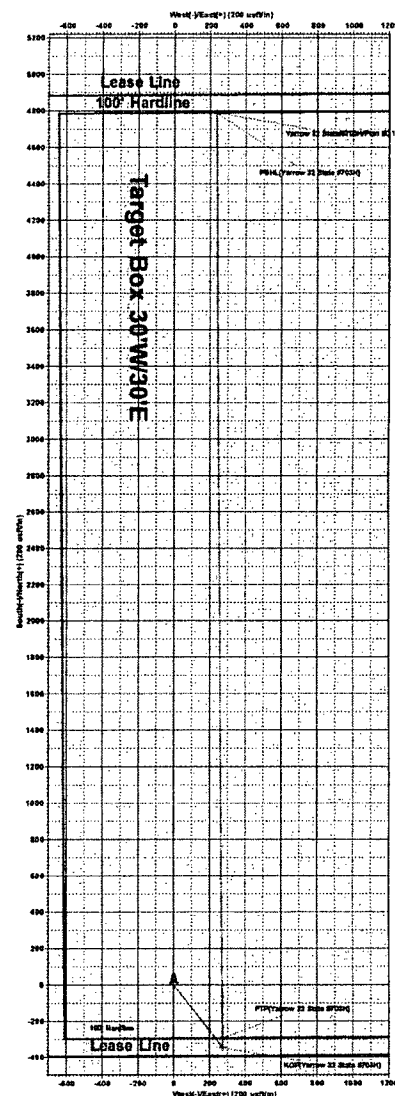
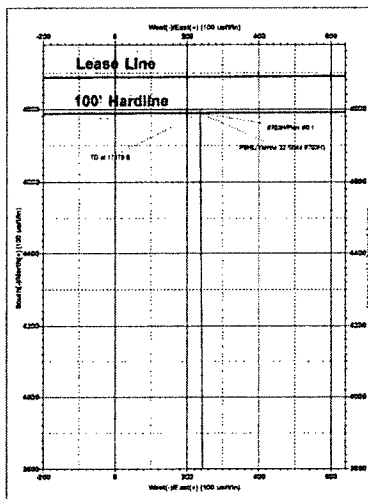
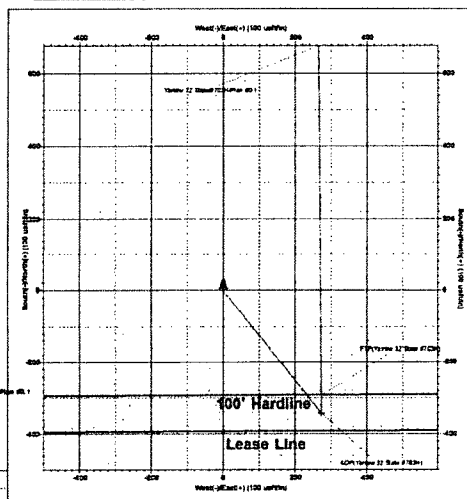
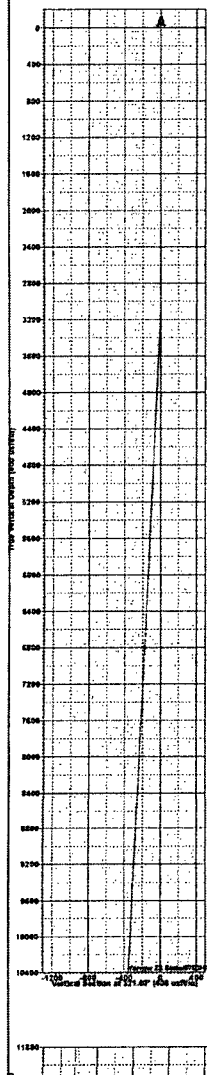
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3140.3	2.81	141.40	3140.3	-2.7	2.1	2.00	141.40	-2.6	
4	11935.6	2.81	141.40	11925.2	-339.3	270.9	0.00	0.00	-325.6	
5	12076.2	0.00	0.00	12065.5	-342.0	273.0	2.00	180.00	-328.1	KOP(Yarrow 32 State #703H)
6	12826.2	90.00	359.59	12843.0	135.4	269.6	12.00	359.59	148.6	
7	17479.8	90.00	359.59	12543.0	4789.0	236.0	0.00	0.00	4794.8	PBHL(Yarrow 32 State #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(Yarrow 32 State #703H)	12065.5	-342.0	273.0	456987.00	770995.00
PBHL(Yarrow 32 State #703H)	12843.0	4789.0	236.0	462098.00	770968.00
FTY(Yarrow 32 State #703H)	12543.0	-292.0	273.0	457007.00	770995.00



Lea County, NM (NAD 83 NME)
Yarrow 32 State #703H
Plan #0.1
11/11/2018

HOBES OCD
OCT 17 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#703H

OH

Plan: Plan #0.1

Standard Planning Report

16 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#703H	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	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			
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/2018	6.82	60.07	47,815.69184006

Design	Plan #0.1			
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	2.82

Plan Survey Tool Program	Date 10/16/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,479.8 Plan #0.1 (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	
3,140.3	2.81	141.40	3,140.3	-2.7	2.1	2.00	2.00	0.00	141.40	
11,935.8	2.81	141.40	11,925.2	-339.3	270.9	0.00	0.00	0.00	0.00	
12,076.2	0.00	0.00	12,065.5	-342.0	273.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,826.2	90.00	359.59	12,543.0	135.4	269.6	12.00	12.00	-0.06	359.59	
17,479.8	90.00	359.59	12,543.0	4,789.0	236.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 Stat



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#703H	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)
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	2.00	141.40	3,100.0	-1.4	1.1	-1.3	2.00	2.00	0.00
3,140.3	2.81	141.40	3,140.3	-2.7	2.1	-2.6	2.00	2.00	0.00
3,200.0	2.81	141.40	3,199.9	-5.0	4.0	-4.8	0.00	0.00	0.00
3,300.0	2.81	141.40	3,299.8	-8.8	7.0	-8.4	0.00	0.00	0.00
3,400.0	2.81	141.40	3,399.6	-12.6	10.1	-12.1	0.00	0.00	0.00
3,500.0	2.81	141.40	3,499.5	-16.5	13.1	-15.8	0.00	0.00	0.00
3,600.0	2.81	141.40	3,599.4	-20.3	16.2	-19.5	0.00	0.00	0.00
3,700.0	2.81	141.40	3,699.3	-24.1	19.2	-23.1	0.00	0.00	0.00
3,800.0	2.81	141.40	3,799.2	-27.9	22.3	-26.8	0.00	0.00	0.00
3,900.0	2.81	141.40	3,899.0	-31.8	25.4	-30.5	0.00	0.00	0.00
4,000.0	2.81	141.40	3,998.9	-35.6	28.4	-34.1	0.00	0.00	0.00
4,100.0	2.81	141.40	4,098.8	-39.4	31.5	-37.8	0.00	0.00	0.00
4,200.0	2.81	141.40	4,198.7	-43.2	34.5	-41.5	0.00	0.00	0.00
4,300.0	2.81	141.40	4,298.6	-47.1	37.6	-45.2	0.00	0.00	0.00
4,400.0	2.81	141.40	4,398.4	-50.9	40.6	-48.8	0.00	0.00	0.00
4,500.0	2.81	141.40	4,498.3	-54.7	43.7	-52.5	0.00	0.00	0.00
4,600.0	2.81	141.40	4,598.2	-58.6	46.7	-56.2	0.00	0.00	0.00
4,700.0	2.81	141.40	4,698.1	-62.4	49.8	-59.9	0.00	0.00	0.00
4,800.0	2.81	141.40	4,798.0	-66.2	52.8	-63.5	0.00	0.00	0.00
4,900.0	2.81	141.40	4,897.8	-70.0	55.9	-67.2	0.00	0.00	0.00
5,000.0	2.81	141.40	4,997.7	-73.9	59.0	-70.9	0.00	0.00	0.00
5,100.0	2.81	141.40	5,097.6	-77.7	62.0	-74.5	0.00	0.00	0.00
5,200.0	2.81	141.40	5,197.5	-81.5	65.1	-78.2	0.00	0.00	0.00



Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#703H	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	2.81	141.40	5,297.4	-85.3	68.1	-81.9	0.00	0.00	0.00	
5,400.0	2.81	141.40	5,397.2	-89.2	71.2	-85.6	0.00	0.00	0.00	
5,500.0	2.81	141.40	5,497.1	-93.0	74.2	-89.2	0.00	0.00	0.00	
5,600.0	2.81	141.40	5,597.0	-96.8	77.3	-92.9	0.00	0.00	0.00	
5,700.0	2.81	141.40	5,696.9	-100.7	80.3	-96.6	0.00	0.00	0.00	
5,800.0	2.81	141.40	5,796.8	-104.5	83.4	-100.2	0.00	0.00	0.00	
5,900.0	2.81	141.40	5,896.6	-108.3	86.5	-103.9	0.00	0.00	0.00	
6,000.0	2.81	141.40	5,996.5	-112.1	89.5	-107.6	0.00	0.00	0.00	
6,100.0	2.81	141.40	6,096.4	-116.0	92.6	-111.3	0.00	0.00	0.00	
6,200.0	2.81	141.40	6,196.3	-119.8	95.6	-114.9	0.00	0.00	0.00	
6,300.0	2.81	141.40	6,296.2	-123.6	98.7	-118.6	0.00	0.00	0.00	
6,400.0	2.81	141.40	6,396.0	-127.4	101.7	-122.3	0.00	0.00	0.00	
6,500.0	2.81	141.40	6,495.9	-131.3	104.8	-126.0	0.00	0.00	0.00	
6,600.0	2.81	141.40	6,595.8	-135.1	107.8	-129.6	0.00	0.00	0.00	
6,700.0	2.81	141.40	6,695.7	-138.9	110.9	-133.3	0.00	0.00	0.00	
6,800.0	2.81	141.40	6,795.6	-142.8	114.0	-137.0	0.00	0.00	0.00	
6,900.0	2.81	141.40	6,895.4	-146.6	117.0	-140.6	0.00	0.00	0.00	
7,000.0	2.81	141.40	6,995.3	-150.4	120.1	-144.3	0.00	0.00	0.00	
7,100.0	2.81	141.40	7,095.2	-154.2	123.1	-148.0	0.00	0.00	0.00	
7,200.0	2.81	141.40	7,195.1	-158.1	126.2	-151.7	0.00	0.00	0.00	
7,300.0	2.81	141.40	7,295.0	-161.9	129.2	-155.3	0.00	0.00	0.00	
7,400.0	2.81	141.40	7,394.8	-165.7	132.3	-159.0	0.00	0.00	0.00	
7,500.0	2.81	141.40	7,494.7	-169.5	135.3	-162.7	0.00	0.00	0.00	
7,600.0	2.81	141.40	7,594.6	-173.4	138.4	-166.3	0.00	0.00	0.00	
7,700.0	2.81	141.40	7,694.5	-177.2	141.4	-170.0	0.00	0.00	0.00	
7,800.0	2.81	141.40	7,794.4	-181.0	144.5	-173.7	0.00	0.00	0.00	
7,900.0	2.81	141.40	7,894.2	-184.9	147.6	-177.4	0.00	0.00	0.00	
8,000.0	2.81	141.40	7,994.1	-188.7	150.6	-181.0	0.00	0.00	0.00	
8,100.0	2.81	141.40	8,094.0	-192.5	153.7	-184.7	0.00	0.00	0.00	
8,200.0	2.81	141.40	8,193.9	-196.3	156.7	-188.4	0.00	0.00	0.00	
8,300.0	2.81	141.40	8,293.8	-200.2	159.8	-192.1	0.00	0.00	0.00	
8,400.0	2.81	141.40	8,393.6	-204.0	162.8	-195.7	0.00	0.00	0.00	
8,500.0	2.81	141.40	8,493.5	-207.8	165.9	-199.4	0.00	0.00	0.00	
8,600.0	2.81	141.40	8,593.4	-211.6	168.9	-203.1	0.00	0.00	0.00	
8,700.0	2.81	141.40	8,693.3	-215.5	172.0	-206.7	0.00	0.00	0.00	
8,800.0	2.81	141.40	8,793.2	-219.3	175.1	-210.4	0.00	0.00	0.00	
8,900.0	2.81	141.40	8,893.0	-223.1	178.1	-214.1	0.00	0.00	0.00	
9,000.0	2.81	141.40	8,992.9	-227.0	181.2	-217.8	0.00	0.00	0.00	
9,100.0	2.81	141.40	9,092.8	-230.8	184.2	-221.4	0.00	0.00	0.00	
9,200.0	2.81	141.40	9,192.7	-234.6	187.3	-225.1	0.00	0.00	0.00	
9,300.0	2.81	141.40	9,292.6	-238.4	190.3	-228.8	0.00	0.00	0.00	
9,400.0	2.81	141.40	9,392.4	-242.3	193.4	-232.4	0.00	0.00	0.00	
9,500.0	2.81	141.40	9,492.3	-246.1	196.4	-236.1	0.00	0.00	0.00	
9,600.0	2.81	141.40	9,592.2	-249.9	199.5	-239.8	0.00	0.00	0.00	
9,700.0	2.81	141.40	9,692.1	-253.7	202.5	-243.5	0.00	0.00	0.00	
9,800.0	2.81	141.40	9,792.0	-257.6	205.6	-247.1	0.00	0.00	0.00	
9,900.0	2.81	141.40	9,891.8	-261.4	208.7	-250.8	0.00	0.00	0.00	
10,000.0	2.81	141.40	9,991.7	-265.2	211.7	-254.5	0.00	0.00	0.00	
10,100.0	2.81	141.40	10,091.6	-269.1	214.8	-258.2	0.00	0.00	0.00	
10,200.0	2.81	141.40	10,191.5	-272.9	217.8	-261.8	0.00	0.00	0.00	
10,300.0	2.81	141.40	10,291.4	-276.7	220.9	-265.5	0.00	0.00	0.00	
10,400.0	2.81	141.40	10,391.2	-280.5	223.9	-269.2	0.00	0.00	0.00	
10,500.0	2.81	141.40	10,491.1	-284.4	227.0	-272.8	0.00	0.00	0.00	
10,600.0	2.81	141.40	10,591.0	-288.2	230.0	-276.5	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 #0.1

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)
10,700.0	2.81	141.40	10,690.9	-292.0	233.1	-280.2	0.00	0.00	0.00
10,800.0	2.81	141.40	10,790.8	-295.8	236.2	-283.9	0.00	0.00	0.00
10,900.0	2.81	141.40	10,890.6	-299.7	239.2	-287.5	0.00	0.00	0.00
11,000.0	2.81	141.40	10,990.5	-303.5	242.3	-291.2	0.00	0.00	0.00
11,100.0	2.81	141.40	11,090.4	-307.3	245.3	-294.9	0.00	0.00	0.00
11,200.0	2.81	141.40	11,190.3	-311.2	248.4	-298.5	0.00	0.00	0.00
11,300.0	2.81	141.40	11,290.2	-315.0	251.4	-302.2	0.00	0.00	0.00
11,400.0	2.81	141.40	11,390.0	-318.8	254.5	-305.9	0.00	0.00	0.00
11,500.0	2.81	141.40	11,489.9	-322.6	257.5	-309.6	0.00	0.00	0.00
11,600.0	2.81	141.40	11,589.8	-326.5	260.6	-313.2	0.00	0.00	0.00
11,700.0	2.81	141.40	11,689.7	-330.3	263.7	-316.9	0.00	0.00	0.00
11,800.0	2.81	141.40	11,789.6	-334.1	266.7	-320.6	0.00	0.00	0.00
11,900.0	2.81	141.40	11,889.4	-337.9	269.8	-324.3	0.00	0.00	0.00
11,935.8	2.81	141.40	11,925.2	-339.3	270.9	-325.6	0.00	0.00	0.00
12,000.0	1.52	141.40	11,989.3	-341.2	272.4	-327.4	2.00	-2.00	0.00
12,076.2	0.00	0.00	12,065.5	-342.0	273.0	-328.1	2.00	-2.00	0.00
KOP(Yarrow 32 State #703H)									
12,100.0	2.86	359.59	12,089.3	-341.4	273.0	-327.6	12.00	12.00	0.00
12,125.0	5.86	359.59	12,114.2	-339.5	273.0	-325.7	12.00	12.00	0.00
12,150.0	8.86	359.59	12,139.0	-336.3	273.0	-322.5	12.00	12.00	0.00
12,175.0	11.86	359.59	12,163.6	-331.8	272.9	-318.0	12.00	12.00	0.00
12,200.0	14.86	359.59	12,188.0	-326.0	272.9	-312.2	12.00	12.00	0.00
12,225.0	17.86	359.59	12,211.9	-319.0	272.8	-305.2	12.00	12.00	0.00
12,250.0	20.86	359.59	12,235.5	-310.7	272.8	-296.9	12.00	12.00	0.00
12,275.0	23.86	359.59	12,258.6	-301.2	272.7	-287.4	12.00	12.00	0.00
12,300.0	26.86	359.59	12,281.2	-290.5	272.6	-276.7	12.00	12.00	0.00
12,325.0	29.86	359.59	12,303.2	-278.6	272.5	-264.9	12.00	12.00	0.00
12,350.0	32.86	359.59	12,324.6	-265.6	272.4	-251.9	12.00	12.00	0.00
12,375.0	35.86	359.59	12,345.2	-251.5	272.3	-237.8	12.00	12.00	0.00
12,400.0	38.86	359.59	12,365.1	-236.3	272.2	-222.6	12.00	12.00	0.00
12,425.0	41.86	359.59	12,384.1	-220.1	272.1	-206.5	12.00	12.00	0.00
12,450.0	44.86	359.59	12,402.3	-203.0	272.0	-189.3	12.00	12.00	0.00
12,475.0	47.86	359.59	12,419.5	-184.9	271.9	-171.3	12.00	12.00	0.00
FTP(Yarrow 32 State #703H)									
12,500.0	50.86	359.59	12,435.8	-165.9	271.7	-152.3	12.00	12.00	0.00
12,525.0	53.86	359.59	12,451.1	-146.1	271.6	-132.6	12.00	12.00	0.00
12,550.0	56.86	359.59	12,465.3	-125.6	271.4	-112.1	12.00	12.00	0.00
12,575.0	59.86	359.59	12,478.4	-104.3	271.3	-90.8	12.00	12.00	0.00
12,600.0	62.86	359.59	12,490.4	-82.3	271.1	-68.9	12.00	12.00	0.00
12,625.0	65.86	359.59	12,501.2	-59.8	271.0	-46.4	12.00	12.00	0.00
12,650.0	68.86	359.59	12,510.8	-36.7	270.8	-23.4	12.00	12.00	0.00
12,675.0	71.86	359.59	12,519.2	-13.2	270.6	0.1	12.00	12.00	0.00
12,700.0	74.86	359.59	12,526.4	10.8	270.5	24.1	12.00	12.00	0.00
12,725.0	77.86	359.59	12,532.3	35.0	270.3	48.3	12.00	12.00	0.00
12,750.0	80.86	359.59	12,536.9	59.6	270.1	72.8	12.00	12.00	0.00
12,775.0	83.86	359.59	12,540.2	84.4	269.9	97.6	12.00	12.00	0.00
12,800.0	86.86	359.59	12,542.2	109.3	269.7	122.4	12.00	12.00	0.00
12,826.2	90.00	359.59	12,543.0	135.4	269.6	148.6	12.00	12.00	0.00
12,900.0	90.00	359.59	12,543.0	209.3	269.0	222.3	0.00	0.00	0.00
13,000.0	90.00	359.59	12,543.0	309.3	268.3	322.1	0.00	0.00	0.00
13,100.0	90.00	359.59	12,543.0	409.3	267.6	422.0	0.00	0.00	0.00
13,200.0	90.00	359.59	12,543.0	509.3	266.9	521.8	0.00	0.00	0.00
13,300.0	90.00	359.59	12,543.0	609.3	266.1	621.6	0.00	0.00	0.00
13,400.0	90.00	359.59	12,543.0	709.3	265.4	721.5	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 #0.1

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)
13,500.0	90.00	359.59	12,543.0	809.3	264.7	821.3	0.00	0.00	0.00
13,600.0	90.00	359.59	12,543.0	909.3	264.0	921.2	0.00	0.00	0.00
13,700.0	90.00	359.59	12,543.0	1,009.3	263.3	1,021.0	0.00	0.00	0.00
13,800.0	90.00	359.59	12,543.0	1,109.3	262.5	1,120.8	0.00	0.00	0.00
13,900.0	90.00	359.59	12,543.0	1,209.3	261.8	1,220.7	0.00	0.00	0.00
14,000.0	90.00	359.59	12,543.0	1,309.3	261.1	1,320.5	0.00	0.00	0.00
14,100.0	90.00	359.59	12,543.0	1,409.3	260.4	1,420.4	0.00	0.00	0.00
14,200.0	90.00	359.59	12,543.0	1,509.3	259.7	1,520.2	0.00	0.00	0.00
14,300.0	90.00	359.59	12,543.0	1,609.2	258.9	1,620.0	0.00	0.00	0.00
14,400.0	90.00	359.59	12,543.0	1,709.2	258.2	1,719.9	0.00	0.00	0.00
14,500.0	90.00	359.59	12,543.0	1,809.2	257.5	1,819.7	0.00	0.00	0.00
14,600.0	90.00	359.59	12,543.0	1,909.2	256.8	1,919.6	0.00	0.00	0.00
14,700.0	90.00	359.59	12,543.0	2,009.2	256.0	2,019.4	0.00	0.00	0.00
14,800.0	90.00	359.59	12,543.0	2,109.2	255.3	2,119.2	0.00	0.00	0.00
14,900.0	90.00	359.59	12,543.0	2,209.2	254.6	2,219.1	0.00	0.00	0.00
15,000.0	90.00	359.59	12,543.0	2,309.2	253.9	2,318.9	0.00	0.00	0.00
15,100.0	90.00	359.59	12,543.0	2,409.2	253.2	2,418.8	0.00	0.00	0.00
15,200.0	90.00	359.59	12,543.0	2,509.2	252.4	2,518.6	0.00	0.00	0.00
15,300.0	90.00	359.59	12,543.0	2,609.2	251.7	2,618.4	0.00	0.00	0.00
15,400.0	90.00	359.59	12,543.0	2,709.2	251.0	2,718.3	0.00	0.00	0.00
15,500.0	90.00	359.59	12,543.0	2,809.2	250.3	2,818.1	0.00	0.00	0.00
15,600.0	90.00	359.59	12,543.0	2,909.2	249.6	2,918.0	0.00	0.00	0.00
15,700.0	90.00	359.59	12,543.0	3,009.2	248.8	3,017.8	0.00	0.00	0.00
15,800.0	90.00	359.59	12,543.0	3,109.2	248.1	3,117.7	0.00	0.00	0.00
15,900.0	90.00	359.59	12,543.0	3,209.2	247.4	3,217.5	0.00	0.00	0.00
16,000.0	90.00	359.59	12,543.0	3,309.2	246.7	3,317.3	0.00	0.00	0.00
16,100.0	90.00	359.59	12,543.0	3,409.2	245.9	3,417.2	0.00	0.00	0.00
16,200.0	90.00	359.59	12,543.0	3,509.2	245.2	3,517.0	0.00	0.00	0.00
16,300.0	90.00	359.59	12,543.0	3,609.2	244.5	3,616.9	0.00	0.00	0.00
16,400.0	90.00	359.59	12,543.0	3,709.2	243.8	3,716.7	0.00	0.00	0.00
16,500.0	90.00	359.59	12,543.0	3,809.2	243.1	3,816.5	0.00	0.00	0.00
16,600.0	90.00	359.59	12,543.0	3,909.2	242.3	3,916.4	0.00	0.00	0.00
16,700.0	90.00	359.59	12,543.0	4,009.2	241.6	4,016.2	0.00	0.00	0.00
16,800.0	90.00	359.59	12,543.0	4,109.2	240.9	4,116.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,543.0	4,209.2	240.2	4,215.9	0.00	0.00	0.00
17,000.0	90.00	359.59	12,543.0	4,309.2	239.5	4,315.7	0.00	0.00	0.00
17,100.0	90.00	359.59	12,543.0	4,409.2	238.7	4,415.6	0.00	0.00	0.00
17,200.0	90.00	359.59	12,543.0	4,509.2	238.0	4,515.4	0.00	0.00	0.00
17,300.0	90.00	359.59	12,543.0	4,609.2	237.3	4,615.3	0.00	0.00	0.00
17,400.0	90.00	359.59	12,543.0	4,709.2	236.6	4,715.1	0.00	0.00	0.00
17,479.8	90.00	359.59	12,543.0	4,789.0	236.0	4,794.8	0.00	0.00	0.00

PBHL(Yarrow 32 State #703H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #703H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	0.00	0.00	12,065.5	-342.0	273.0	456,957.00	770,995.00	32° 15' 14.637 N	103° 35' 25.538 W
- plan hits target center									
- Point									
PBHL(Yarrow 32 State #	0.00	0.00	12,543.0	4,789.0	236.0	462,088.00	770,958.00	32° 16' 5.411 N	103° 35' 25.556 W
- plan hits target center									
- Point									
FTP(Yarrow 32 State #7	0.00	0.00	12,543.0	-292.0	273.0	457,007.00	770,995.00	32° 15' 15.131 N	103° 35' 25.534 W
- plan misses target center by 163.4usft at 12475.0usft MD (12419.5 TVD, -184.9 N, 271.9 E)									
- Point									