



Lea County, NM (NAD 83 NME)

Yarrow 32 State #704H

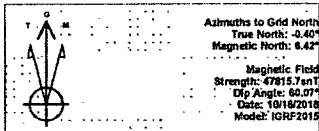
Plan #0.1

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: #704H

KB = 25 @ 3697.0ust
Northing 457299.00 Easting 770659.00
Latitude 32° 15' 10.542 N Longitude 103° 35' 28.074 W



To convert a Magnetic Direction to a Grid Direction, Add 8.42°
To convert a Magnetic Direction to a True Direction, Add 8.82° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

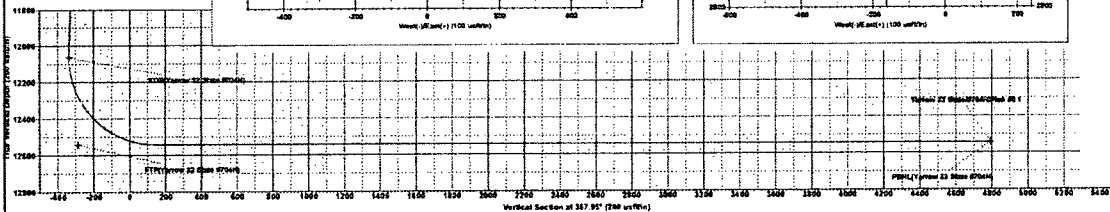
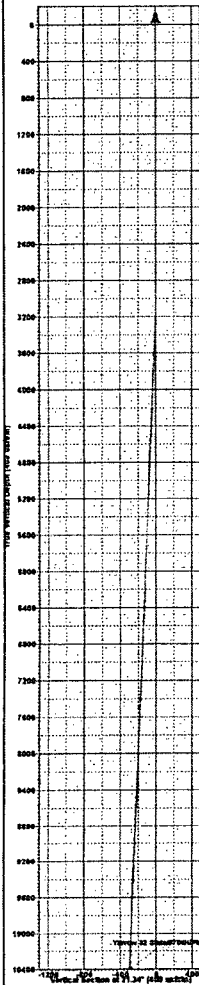
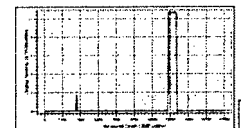
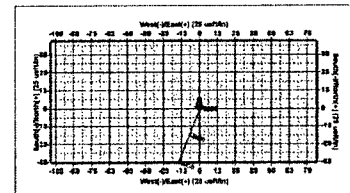
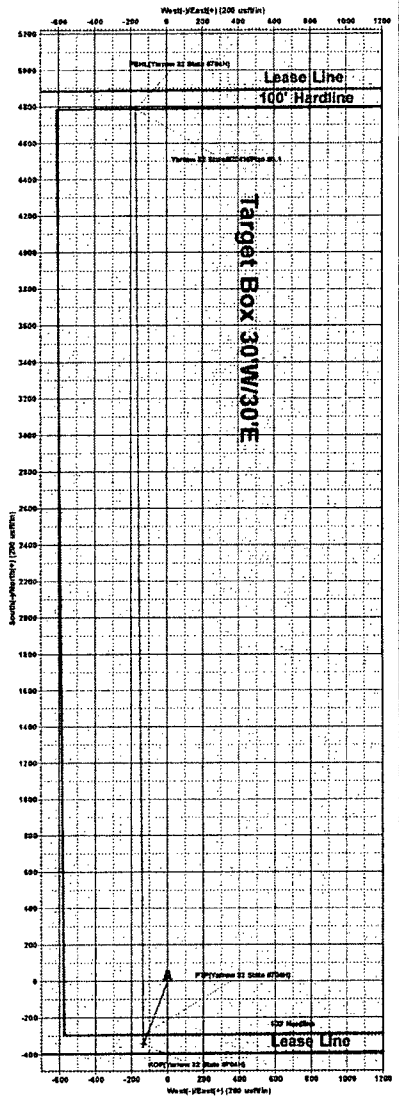
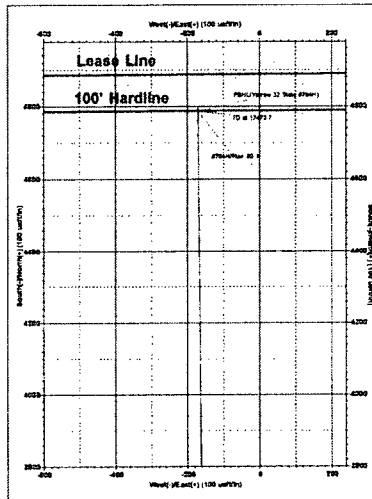
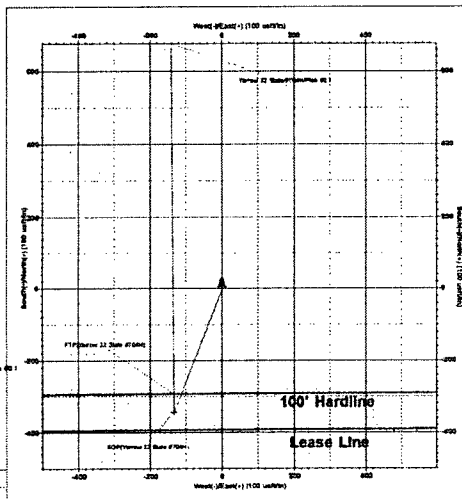
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Tface	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3117.9	2.36	201.34	3117.8	-2.3	-0.9	2.00	201.34	-2.2	
4	11953.2	2.36	201.34	11945.7	-340.7	-133.1	0.00	0.00	-335.8	
5	12071.0	0.00	0.00	12063.5	-343.0	-134.0	2.00	180.00	-338.0	KOP(Yarrow 32 State #704H)
6	12821.0	90.00	359.59	12541.0	134.4	-137.4	12.00	359.59	139.3	PBHL(Yarrow 32 State #704H)
7	17473.7	90.00	359.59	12541.0	4787.0	-171.0	0.00	0.00	4790.1	

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Yarrow 32 State #704H)	12069.5	-343.0	-134.0	458364.00	770558.00
PBHL(Yarrow 32 State #704H)	12541.0	4787.0	-171.0	482088.00	770518.00
FTP(Yarrow 32 State #704H)	12541.0	-293.0	-134.0	487006.00	770558.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#704H

OH

Plan: Plan #0.1

Standard Planning Report

16 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
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:	#704H	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	#704H					
Well Position	+N/-S	-5.0 usft	Northing:	457,299.00 usft	Latitude:	32° 15' 18.042 N
	+E/-W	-1,173.0 usft	Easting:	770,689.00 usft	Longitude:	103° 35' 29.074 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	47,815.68105255

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	357.95

Plan Survey Tool Program	Date	10/16/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,473.7 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	
3,117.9	2.36	201.34	3,117.8	-2.3	-0.9	2.00	2.00	0.00	201.34	
11,953.2	2.36	201.34	11,945.7	-340.7	-133.1	0.00	0.00	0.00	0.00	
12,071.0	0.00	0.00	12,063.5	-343.0	-134.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,821.0	90.00	359.59	12,541.0	134.4	-137.4	12.00	12.00	-0.06	359.59	
17,473.7	90.00	359.59	12,541.0	4,787.0	-171.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 Stat



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:	#704H	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	201.34	3,100.0	-1.6	-0.6	-1.6	2.00	2.00	0.00
3,117.9	2.36	201.34	3,117.8	-2.3	-0.9	-2.2	2.00	2.00	0.00
3,200.0	2.36	201.34	3,199.9	-5.4	-2.1	-5.3	0.00	0.00	0.00
3,300.0	2.36	201.34	3,299.8	-9.2	-3.6	-9.1	0.00	0.00	0.00
3,400.0	2.36	201.34	3,399.7	-13.1	-5.1	-12.9	0.00	0.00	0.00
3,500.0	2.36	201.34	3,499.6	-16.9	-6.6	-16.7	0.00	0.00	0.00
3,600.0	2.36	201.34	3,599.6	-20.7	-8.1	-20.4	0.00	0.00	0.00
3,700.0	2.36	201.34	3,699.5	-24.6	-9.6	-24.2	0.00	0.00	0.00
3,800.0	2.36	201.34	3,799.4	-28.4	-11.1	-28.0	0.00	0.00	0.00
3,900.0	2.36	201.34	3,899.3	-32.2	-12.6	-31.8	0.00	0.00	0.00
4,000.0	2.36	201.34	3,999.2	-36.1	-14.1	-35.5	0.00	0.00	0.00
4,100.0	2.36	201.34	4,099.1	-39.9	-15.6	-39.3	0.00	0.00	0.00
4,200.0	2.36	201.34	4,199.1	-43.7	-17.1	-43.1	0.00	0.00	0.00
4,300.0	2.36	201.34	4,299.0	-47.5	-18.6	-46.9	0.00	0.00	0.00
4,400.0	2.36	201.34	4,398.9	-51.4	-20.1	-50.6	0.00	0.00	0.00
4,500.0	2.36	201.34	4,498.8	-55.2	-21.6	-54.4	0.00	0.00	0.00
4,600.0	2.36	201.34	4,598.7	-59.0	-23.1	-58.2	0.00	0.00	0.00
4,700.0	2.36	201.34	4,698.6	-62.9	-24.6	-62.0	0.00	0.00	0.00
4,800.0	2.36	201.34	4,798.5	-66.7	-26.1	-65.7	0.00	0.00	0.00
4,900.0	2.36	201.34	4,898.5	-70.5	-27.6	-69.5	0.00	0.00	0.00
5,000.0	2.36	201.34	4,998.4	-74.4	-29.1	-73.3	0.00	0.00	0.00
5,100.0	2.36	201.34	5,098.3	-78.2	-30.5	-77.1	0.00	0.00	0.00
5,200.0	2.36	201.34	5,198.2	-82.0	-32.0	-80.8	0.00	0.00	0.00



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Site:	Yarrow 32 State	North Reference:	Grid
Well:	#704H	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	2.36	201.34	5,298.1	-85.9	-33.5	-84.6	0.00	0.00	0.00	
5,400.0	2.36	201.34	5,398.0	-89.7	-35.0	-88.4	0.00	0.00	0.00	
5,500.0	2.36	201.34	5,498.0	-93.5	-36.5	-92.2	0.00	0.00	0.00	
5,600.0	2.36	201.34	5,597.9	-97.3	-38.0	-95.9	0.00	0.00	0.00	
5,700.0	2.36	201.34	5,697.8	-101.2	-39.5	-99.7	0.00	0.00	0.00	
5,800.0	2.36	201.34	5,797.7	-105.0	-41.0	-103.5	0.00	0.00	0.00	
5,900.0	2.36	201.34	5,897.6	-108.8	-42.5	-107.3	0.00	0.00	0.00	
6,000.0	2.36	201.34	5,997.5	-112.7	-44.0	-111.0	0.00	0.00	0.00	
6,100.0	2.36	201.34	6,097.4	-116.5	-45.5	-114.8	0.00	0.00	0.00	
6,200.0	2.36	201.34	6,197.4	-120.3	-47.0	-118.6	0.00	0.00	0.00	
6,300.0	2.36	201.34	6,297.3	-124.2	-48.5	-122.4	0.00	0.00	0.00	
6,400.0	2.36	201.34	6,397.2	-128.0	-50.0	-126.1	0.00	0.00	0.00	
6,500.0	2.36	201.34	6,497.1	-131.8	-51.5	-129.9	0.00	0.00	0.00	
6,600.0	2.36	201.34	6,597.0	-135.7	-53.0	-133.7	0.00	0.00	0.00	
6,700.0	2.36	201.34	6,696.9	-139.5	-54.5	-137.5	0.00	0.00	0.00	
6,800.0	2.36	201.34	6,796.9	-143.3	-56.0	-141.2	0.00	0.00	0.00	
6,900.0	2.36	201.34	6,896.8	-147.2	-57.5	-145.0	0.00	0.00	0.00	
7,000.0	2.36	201.34	6,996.7	-151.0	-59.0	-148.8	0.00	0.00	0.00	
7,100.0	2.36	201.34	7,096.6	-154.8	-60.5	-152.6	0.00	0.00	0.00	
7,200.0	2.36	201.34	7,196.5	-158.6	-62.0	-156.3	0.00	0.00	0.00	
7,300.0	2.36	201.34	7,296.4	-162.5	-63.5	-160.1	0.00	0.00	0.00	
7,400.0	2.36	201.34	7,396.3	-166.3	-65.0	-163.9	0.00	0.00	0.00	
7,500.0	2.36	201.34	7,496.3	-170.1	-66.5	-167.7	0.00	0.00	0.00	
7,600.0	2.36	201.34	7,596.2	-174.0	-68.0	-171.4	0.00	0.00	0.00	
7,700.0	2.36	201.34	7,696.1	-177.8	-69.5	-175.2	0.00	0.00	0.00	
7,800.0	2.36	201.34	7,796.0	-181.6	-71.0	-179.0	0.00	0.00	0.00	
7,900.0	2.36	201.34	7,895.9	-185.5	-72.5	-182.8	0.00	0.00	0.00	
8,000.0	2.36	201.34	7,995.8	-189.3	-74.0	-186.5	0.00	0.00	0.00	
8,100.0	2.36	201.34	8,095.8	-193.1	-75.4	-190.3	0.00	0.00	0.00	
8,200.0	2.36	201.34	8,195.7	-197.0	-76.9	-194.1	0.00	0.00	0.00	
8,300.0	2.36	201.34	8,295.6	-200.8	-78.4	-197.9	0.00	0.00	0.00	
8,400.0	2.36	201.34	8,395.5	-204.6	-79.9	-201.6	0.00	0.00	0.00	
8,500.0	2.36	201.34	8,495.4	-208.4	-81.4	-205.4	0.00	0.00	0.00	
8,600.0	2.36	201.34	8,595.3	-212.3	-82.9	-209.2	0.00	0.00	0.00	
8,700.0	2.36	201.34	8,695.2	-216.1	-84.4	-213.0	0.00	0.00	0.00	
8,800.0	2.36	201.34	8,795.2	-219.9	-85.9	-216.7	0.00	0.00	0.00	
8,900.0	2.36	201.34	8,895.1	-223.8	-87.4	-220.5	0.00	0.00	0.00	
9,000.0	2.36	201.34	8,995.0	-227.6	-88.9	-224.3	0.00	0.00	0.00	
9,100.0	2.36	201.34	9,094.9	-231.4	-90.4	-228.1	0.00	0.00	0.00	
9,200.0	2.36	201.34	9,194.8	-235.3	-91.9	-231.8	0.00	0.00	0.00	
9,300.0	2.36	201.34	9,294.7	-239.1	-93.4	-235.6	0.00	0.00	0.00	
9,400.0	2.36	201.34	9,394.7	-242.9	-94.9	-239.4	0.00	0.00	0.00	
9,500.0	2.36	201.34	9,494.6	-246.8	-96.4	-243.2	0.00	0.00	0.00	
9,600.0	2.36	201.34	9,594.5	-250.6	-97.9	-246.9	0.00	0.00	0.00	
9,700.0	2.36	201.34	9,694.4	-254.4	-99.4	-250.7	0.00	0.00	0.00	
9,800.0	2.36	201.34	9,794.3	-258.3	-100.9	-254.5	0.00	0.00	0.00	
9,900.0	2.36	201.34	9,894.2	-262.1	-102.4	-258.3	0.00	0.00	0.00	
10,000.0	2.36	201.34	9,994.1	-265.9	-103.9	-262.0	0.00	0.00	0.00	
10,100.0	2.36	201.34	10,094.1	-269.7	-105.4	-265.8	0.00	0.00	0.00	
10,200.0	2.36	201.34	10,194.0	-273.6	-106.9	-269.6	0.00	0.00	0.00	
10,300.0	2.36	201.34	10,293.9	-277.4	-108.4	-273.4	0.00	0.00	0.00	
10,400.0	2.36	201.34	10,393.8	-281.2	-109.9	-277.1	0.00	0.00	0.00	
10,500.0	2.36	201.34	10,493.7	-285.1	-111.4	-280.9	0.00	0.00	0.00	
10,600.0	2.36	201.34	10,593.6	-288.9	-112.9	-284.7	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
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:	#704H	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)
10,700.0	2.36	201.34	10,693.6	-292.7	-114.4	-288.5	0.00	0.00	0.00
10,800.0	2.36	201.34	10,793.5	-296.6	-115.9	-292.2	0.00	0.00	0.00
10,900.0	2.36	201.34	10,893.4	-300.4	-117.4	-296.0	0.00	0.00	0.00
11,000.0	2.36	201.34	10,993.3	-304.2	-118.9	-299.8	0.00	0.00	0.00
11,100.0	2.36	201.34	11,093.2	-308.1	-120.3	-303.6	0.00	0.00	0.00
11,200.0	2.36	201.34	11,193.1	-311.9	-121.8	-307.3	0.00	0.00	0.00
11,300.0	2.36	201.34	11,293.0	-315.7	-123.3	-311.1	0.00	0.00	0.00
11,400.0	2.36	201.34	11,393.0	-319.5	-124.8	-314.9	0.00	0.00	0.00
11,500.0	2.36	201.34	11,492.9	-323.4	-126.3	-318.7	0.00	0.00	0.00
11,600.0	2.36	201.34	11,592.8	-327.2	-127.8	-322.4	0.00	0.00	0.00
11,700.0	2.36	201.34	11,692.7	-331.0	-129.3	-326.2	0.00	0.00	0.00
11,800.0	2.36	201.34	11,792.6	-334.9	-130.8	-330.0	0.00	0.00	0.00
11,900.0	2.36	201.34	11,892.5	-338.7	-132.3	-333.8	0.00	0.00	0.00
11,953.2	2.36	201.34	11,945.7	-340.7	-133.1	-335.8	0.00	0.00	0.00
12,000.0	1.42	201.34	11,992.5	-342.2	-133.7	-337.2	2.00	-2.00	0.00
12,071.0	0.00	0.00	12,063.5	-343.0	-134.0	-338.0	2.00	-2.00	0.00
KOP(Yarrow 32 State #704H)									
12,075.0	0.47	359.59	12,067.5	-343.0	-134.0	-338.0	12.00	12.00	0.00
12,100.0	3.47	359.59	12,092.4	-342.1	-134.0	-337.1	12.00	12.00	0.00
12,125.0	6.47	359.59	12,117.3	-340.0	-134.0	-335.0	12.00	12.00	0.00
12,150.0	9.47	359.59	12,142.1	-336.5	-134.0	-331.5	12.00	12.00	0.00
12,175.0	12.47	359.59	12,166.6	-331.7	-134.1	-326.7	12.00	12.00	0.00
12,200.0	15.47	359.59	12,190.9	-325.7	-134.1	-320.7	12.00	12.00	0.00
12,225.0	18.47	359.59	12,214.8	-318.4	-134.2	-313.4	12.00	12.00	0.00
12,250.0	21.47	359.59	12,238.3	-309.9	-134.2	-304.9	12.00	12.00	0.00
12,275.0	24.47	359.59	12,261.3	-300.1	-134.3	-295.1	12.00	12.00	0.00
12,300.0	27.47	359.59	12,283.8	-289.1	-134.4	-284.2	12.00	12.00	0.00
12,325.0	30.47	359.59	12,305.7	-277.0	-134.5	-272.1	12.00	12.00	0.00
12,350.0	33.47	359.59	12,326.9	-263.8	-134.6	-258.8	12.00	12.00	0.00
12,375.0	36.47	359.59	12,347.3	-249.5	-134.7	-244.5	12.00	12.00	0.00
12,400.0	39.47	359.59	12,367.0	-234.1	-134.8	-229.1	12.00	12.00	0.00
12,425.0	42.47	359.59	12,385.9	-217.7	-134.9	-212.7	12.00	12.00	0.00
12,450.0	45.47	359.59	12,403.9	-200.3	-135.0	-195.4	12.00	12.00	0.00
12,475.0	48.47	359.59	12,421.0	-182.1	-135.2	-177.1	12.00	12.00	0.00
FTP(Yarrow 32 State #704H)									
12,500.0	51.47	359.59	12,437.0	-162.9	-135.3	-158.0	12.00	12.00	0.00
12,525.0	54.47	359.59	12,452.1	-143.0	-135.4	-138.0	12.00	12.00	0.00
12,550.0	57.47	359.59	12,466.1	-122.3	-135.6	-117.3	12.00	12.00	0.00
12,575.0	60.47	359.59	12,479.0	-100.8	-135.7	-95.9	12.00	12.00	0.00
12,600.0	63.47	359.59	12,490.7	-78.8	-135.9	-73.9	12.00	12.00	0.00
12,625.0	66.47	359.59	12,501.3	-56.1	-136.1	-51.2	12.00	12.00	0.00
12,650.0	69.47	359.59	12,510.7	-33.0	-136.2	-28.1	12.00	12.00	0.00
12,675.0	72.47	359.59	12,518.8	-9.3	-136.4	-4.4	12.00	12.00	0.00
12,700.0	75.47	359.59	12,525.7	14.7	-136.6	19.6	12.00	12.00	0.00
12,725.0	78.47	359.59	12,531.3	39.1	-136.8	43.9	12.00	12.00	0.00
12,750.0	81.47	359.59	12,535.7	63.7	-136.9	68.5	12.00	12.00	0.00
12,775.0	84.47	359.59	12,538.7	88.5	-137.1	93.3	12.00	12.00	0.00
12,800.0	87.47	359.59	12,540.5	113.4	-137.3	118.2	12.00	12.00	0.00
12,821.0	90.00	359.59	12,541.0	134.4	-137.4	139.3	12.00	12.00	0.00
12,900.0	90.00	359.59	12,541.0	213.4	-138.0	218.2	0.00	0.00	0.00
13,000.0	90.00	359.59	12,541.0	313.4	-138.7	318.2	0.00	0.00	0.00
13,100.0	90.00	359.59	12,541.0	413.4	-139.5	418.1	0.00	0.00	0.00
13,200.0	90.00	359.59	12,541.0	513.4	-140.2	518.1	0.00	0.00	0.00
13,300.0	90.00	359.59	12,541.0	613.4	-140.9	618.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
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:	#704H	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)
13,400.0	90.00	359.59	12,541.0	713.4	-141.6	718.0	0.00	0.00	0.00
13,500.0	90.00	359.59	12,541.0	813.4	-142.3	818.0	0.00	0.00	0.00
13,600.0	90.00	359.59	12,541.0	913.4	-143.1	917.9	0.00	0.00	0.00
13,700.0	90.00	359.59	12,541.0	1,013.4	-143.8	1,017.9	0.00	0.00	0.00
13,800.0	90.00	359.59	12,541.0	1,113.4	-144.5	1,117.8	0.00	0.00	0.00
13,900.0	90.00	359.59	12,541.0	1,213.4	-145.2	1,217.8	0.00	0.00	0.00
14,000.0	90.00	359.59	12,541.0	1,313.4	-145.9	1,317.8	0.00	0.00	0.00
14,100.0	90.00	359.59	12,541.0	1,413.4	-146.7	1,417.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,541.0	1,513.4	-147.4	1,517.7	0.00	0.00	0.00
14,300.0	90.00	359.59	12,541.0	1,613.4	-148.1	1,617.6	0.00	0.00	0.00
14,400.0	90.00	359.59	12,541.0	1,713.4	-148.8	1,717.6	0.00	0.00	0.00
14,500.0	90.00	359.59	12,541.0	1,813.4	-149.6	1,817.5	0.00	0.00	0.00
14,600.0	90.00	359.59	12,541.0	1,913.4	-150.3	1,917.5	0.00	0.00	0.00
14,700.0	90.00	359.59	12,541.0	2,013.4	-151.0	2,017.5	0.00	0.00	0.00
14,800.0	90.00	359.59	12,541.0	2,113.4	-151.7	2,117.4	0.00	0.00	0.00
14,900.0	90.00	359.59	12,541.0	2,213.4	-152.4	2,217.4	0.00	0.00	0.00
15,000.0	90.00	359.59	12,541.0	2,313.4	-153.2	2,317.3	0.00	0.00	0.00
15,100.0	90.00	359.59	12,541.0	2,413.4	-153.9	2,417.3	0.00	0.00	0.00
15,200.0	90.00	359.59	12,541.0	2,513.3	-154.6	2,517.3	0.00	0.00	0.00
15,300.0	90.00	359.59	12,541.0	2,613.3	-155.3	2,617.2	0.00	0.00	0.00
15,400.0	90.00	359.59	12,541.0	2,713.3	-156.0	2,717.2	0.00	0.00	0.00
15,500.0	90.00	359.59	12,541.0	2,813.3	-156.8	2,817.1	0.00	0.00	0.00
15,600.0	90.00	359.59	12,541.0	2,913.3	-157.5	2,917.1	0.00	0.00	0.00
15,700.0	90.00	359.59	12,541.0	3,013.3	-158.2	3,017.1	0.00	0.00	0.00
15,800.0	90.00	359.59	12,541.0	3,113.3	-158.9	3,117.0	0.00	0.00	0.00
15,900.0	90.00	359.59	12,541.0	3,213.3	-159.6	3,217.0	0.00	0.00	0.00
16,000.0	90.00	359.59	12,541.0	3,313.3	-160.4	3,316.9	0.00	0.00	0.00
16,100.0	90.00	359.59	12,541.0	3,413.3	-161.1	3,416.9	0.00	0.00	0.00
16,200.0	90.00	359.59	12,541.0	3,513.3	-161.8	3,516.9	0.00	0.00	0.00
16,300.0	90.00	359.59	12,541.0	3,613.3	-162.5	3,616.8	0.00	0.00	0.00
16,400.0	90.00	359.59	12,541.0	3,713.3	-163.3	3,716.8	0.00	0.00	0.00
16,500.0	90.00	359.59	12,541.0	3,813.3	-164.0	3,816.7	0.00	0.00	0.00
16,600.0	90.00	359.59	12,541.0	3,913.3	-164.7	3,916.7	0.00	0.00	0.00
16,700.0	90.00	359.59	12,541.0	4,013.3	-165.4	4,016.7	0.00	0.00	0.00
16,800.0	90.00	359.59	12,541.0	4,113.3	-166.1	4,116.6	0.00	0.00	0.00
16,900.0	90.00	359.59	12,541.0	4,213.3	-166.9	4,216.6	0.00	0.00	0.00
17,000.0	90.00	359.59	12,541.0	4,313.3	-167.6	4,316.5	0.00	0.00	0.00
17,100.0	90.00	359.59	12,541.0	4,413.3	-168.3	4,416.5	0.00	0.00	0.00
17,200.0	90.00	359.59	12,541.0	4,513.3	-169.0	4,516.5	0.00	0.00	0.00
17,300.0	90.00	359.59	12,541.0	4,613.3	-169.7	4,616.4	0.00	0.00	0.00
17,400.0	90.00	359.59	12,541.0	4,713.3	-170.5	4,716.4	0.00	0.00	0.00
17,473.7	90.00	359.59	12,541.0	4,787.0	-171.0	4,790.1	0.00	0.00	0.00

PBHL(Yarrow 32 State #704H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
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:	#704H	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 - plan hits target center - Point	0.00	0.00	12,063.5	-343.0	-134.0	456,956.00	770,555.00	32° 15' 14.657 N	103° 35' 30.662 W
PBHL(Yarrow 32 State # - plan hits target center - Point	0.00	0.01	12,541.0	4,787.0	-171.0	462,086.00	770,518.00	32° 16' 5.422 N	103° 35' 30.680 W
FTP(Yarrow 32 State #7 - plan misses target center by 163.4usft at 12475.0usft MD (12421.0 TVD, -182.1 N, -135.2 E) - Point	0.00	0.00	12,541.0	-293.0	-134.0	457,006.00	770,555.00	32° 15' 15.152 N	103° 35' 30.658 W