



Lea County, NM (NAD 83 NME)

Yarrow 32 State #705H

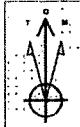
Plan #0.1

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

KB = 25 @ 3697.0usft
Northing 457296.00 Easting 770456.00
Latitude 32° 15' 18.044 N Longitude 103° 35' 29.458 W



Azimuths to Grid North
True North: 4.40°
Magnetic North: 4.42°
Magnetic Field
Strength: 47816.7usT
Dip Angle: 60.07°
Date: 10/16/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.42°
To convert a Magnetic Direction to a True Direction, Add 8.42° East
To convert a True Direction to a Grid Direction, Subtract 8.40°

SECTION DETAILS

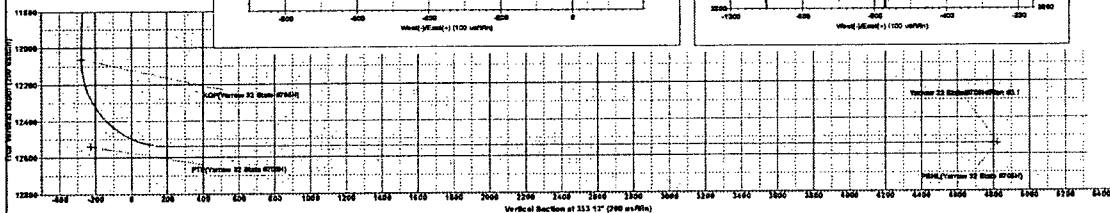
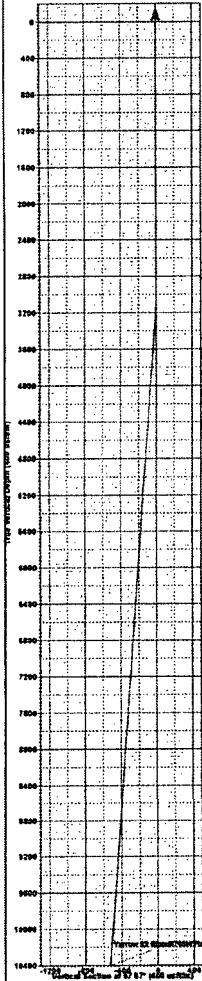
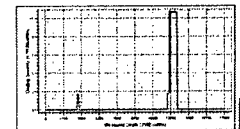
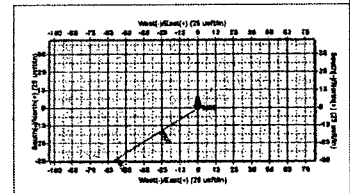
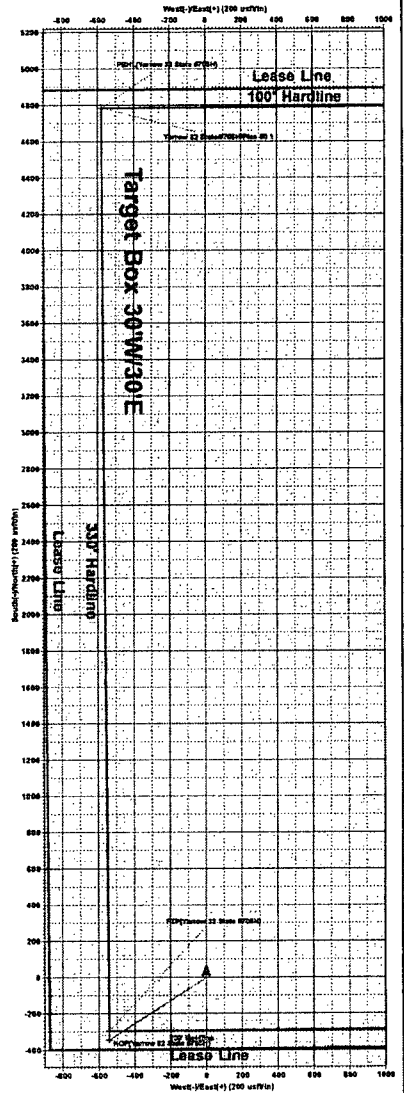
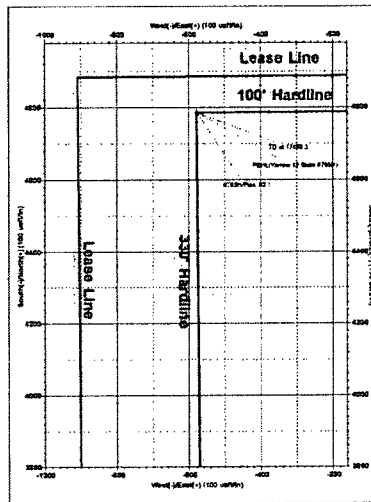
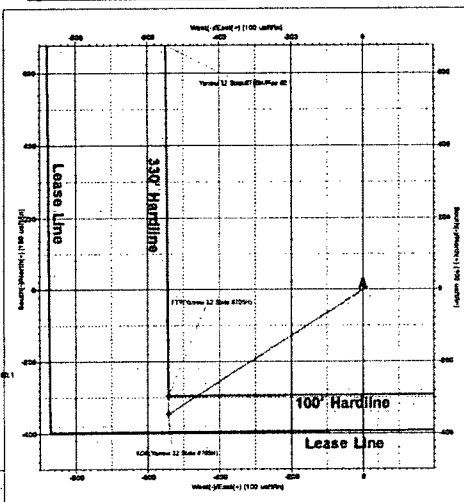
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.00	0.00	0.00	0.0	
3	3207.8	4.16	237.57	3207.6	-4.0	-6.4	2.00	237.57	-3.2	
4	11876.8	4.16	237.57	11853.9	-341.0	-536.6	0.00	0.00	-274.3	
5	12084.7	0.00	0.00	12081.5	-345.0	-543.0	2.00	180.00	-277.5	KOP(Yarrow 32 State #705H)
6	12834.7	90.00	359.62	12539.0	132.5	-546.2	12.00	359.62	196.9	
7	17488.3	90.00	359.62	12539.0	4786.0	-577.0	0.00	0.00	4820.7	PBHL(Yarrow 32 State #705H)

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 #705H)	12081.5	-345.0	-543.0	458384.00	770113.00
PBHL(Yarrow 32 State #705H)	12539.0	4786.0	-577.0	462086.00	770079.00
FTF(Yarrow 32 State #705H)	12539.0	-296.0	-543.0	467004.00	770113.00





HOBBS OCD
OCT 17 2018
RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#705H

OH

Plan: Plan #0.1

Standard Planning Report

16 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
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:	#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	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	#705H					
Well Position	+N/-S	-5.0 usft	Northing:	457,299.00 usft	Latitude:	32° 15' 18.044 N
	+E/-W	-1,206.0 usft	Easting:	770,656.00 usft	Longitude:	103° 35' 29.458 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	47,815.67026492

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	353.13	

Plan Survey Tool Program	Date 10/16/2018				
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1 0.0	17,488.3	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	
3,207.8	4.16	237.57	3,207.6	-4.0	-6.4	2.00	2.00	0.00	237.57	
11,876.9	4.16	237.57	11,853.9	-341.0	-536.6	0.00	0.00	0.00	0.00	
12,084.7	0.00	0.01	12,061.5	-345.0	-543.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,834.7	90.00	359.62	12,539.0	132.5	-546.2	12.00	12.00	-0.05	359.62	
17,488.3	90.00	359.62	12,539.0	4,786.0	-577.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 Stat



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
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:	#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)
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	237.57	3,100.0	-0.9	-1.5	-0.8	2.00	2.00	0.00
3,207.8	4.16	237.57	3,207.6	-4.0	-6.4	-3.2	2.00	2.00	0.00
3,300.0	4.16	237.57	3,299.6	-7.6	-12.0	-6.1	0.00	0.00	0.00
3,400.0	4.16	237.57	3,399.3	-11.5	-18.1	-9.3	0.00	0.00	0.00
3,500.0	4.16	237.57	3,499.0	-15.4	-24.2	-12.4	0.00	0.00	0.00
3,600.0	4.16	237.57	3,598.8	-19.3	-30.3	-15.5	0.00	0.00	0.00
3,700.0	4.16	237.57	3,698.5	-23.2	-36.5	-18.6	0.00	0.00	0.00
3,800.0	4.16	237.57	3,798.3	-27.1	-42.6	-21.8	0.00	0.00	0.00
3,900.0	4.16	237.57	3,898.0	-30.9	-48.7	-24.9	0.00	0.00	0.00
4,000.0	4.16	237.57	3,997.7	-34.8	-54.8	-28.0	0.00	0.00	0.00
4,100.0	4.16	237.57	4,097.5	-38.7	-60.9	-31.1	0.00	0.00	0.00
4,200.0	4.16	237.57	4,197.2	-42.6	-67.1	-34.3	0.00	0.00	0.00
4,300.0	4.16	237.57	4,296.9	-46.5	-73.2	-37.4	0.00	0.00	0.00
4,400.0	4.16	237.57	4,396.7	-50.4	-79.3	-40.5	0.00	0.00	0.00
4,500.0	4.16	237.57	4,496.4	-54.3	-85.4	-43.6	0.00	0.00	0.00
4,600.0	4.16	237.57	4,596.2	-58.1	-91.5	-46.8	0.00	0.00	0.00
4,700.0	4.16	237.57	4,695.9	-62.0	-97.6	-49.9	0.00	0.00	0.00
4,800.0	4.16	237.57	4,795.6	-65.9	-103.8	-53.0	0.00	0.00	0.00
4,900.0	4.16	237.57	4,895.4	-69.8	-109.9	-56.2	0.00	0.00	0.00
5,000.0	4.16	237.57	4,995.1	-73.7	-116.0	-59.3	0.00	0.00	0.00
5,100.0	4.16	237.57	5,094.8	-77.6	-122.1	-62.4	0.00	0.00	0.00
5,200.0	4.16	237.57	5,194.6	-81.5	-128.2	-65.5	0.00	0.00	0.00
5,300.0	4.16	237.57	5,294.3	-85.4	-134.3	-68.7	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:	#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)
5,400.0	4.16	237.57	5,394.1	-89.2	-140.5	-71.8	0.00	0.00	0.00
5,500.0	4.16	237.57	5,493.8	-93.1	-146.6	-74.9	0.00	0.00	0.00
5,600.0	4.16	237.57	5,593.5	-97.0	-152.7	-78.0	0.00	0.00	0.00
5,700.0	4.16	237.57	5,693.3	-100.9	-158.8	-81.2	0.00	0.00	0.00
5,800.0	4.16	237.57	5,793.0	-104.8	-164.9	-84.3	0.00	0.00	0.00
5,900.0	4.16	237.57	5,892.7	-108.7	-171.0	-87.4	0.00	0.00	0.00
6,000.0	4.16	237.57	5,992.5	-112.6	-177.2	-90.5	0.00	0.00	0.00
6,100.0	4.16	237.57	6,092.2	-116.4	-183.3	-93.7	0.00	0.00	0.00
6,200.0	4.16	237.57	6,191.9	-120.3	-189.4	-96.8	0.00	0.00	0.00
6,300.0	4.16	237.57	6,291.7	-124.2	-195.5	-99.9	0.00	0.00	0.00
6,400.0	4.16	237.57	6,391.4	-128.1	-201.6	-103.0	0.00	0.00	0.00
6,500.0	4.16	237.57	6,491.2	-132.0	-207.7	-106.2	0.00	0.00	0.00
6,600.0	4.16	237.57	6,590.9	-135.9	-213.9	-109.3	0.00	0.00	0.00
6,700.0	4.16	237.57	6,690.6	-139.8	-220.0	-112.4	0.00	0.00	0.00
6,800.0	4.16	237.57	6,790.4	-143.6	-226.1	-115.6	0.00	0.00	0.00
6,900.0	4.16	237.57	6,890.1	-147.5	-232.2	-118.7	0.00	0.00	0.00
7,000.0	4.16	237.57	6,989.8	-151.4	-238.3	-121.8	0.00	0.00	0.00
7,100.0	4.16	237.57	7,089.6	-155.3	-244.4	-124.9	0.00	0.00	0.00
7,200.0	4.16	237.57	7,189.3	-159.2	-250.6	-128.1	0.00	0.00	0.00
7,300.0	4.16	237.57	7,289.1	-163.1	-256.7	-131.2	0.00	0.00	0.00
7,400.0	4.16	237.57	7,388.8	-167.0	-262.8	-134.3	0.00	0.00	0.00
7,500.0	4.16	237.57	7,488.5	-170.9	-268.9	-137.4	0.00	0.00	0.00
7,600.0	4.16	237.57	7,588.3	-174.7	-275.0	-140.6	0.00	0.00	0.00
7,700.0	4.16	237.57	7,688.0	-178.6	-281.1	-143.7	0.00	0.00	0.00
7,800.0	4.16	237.57	7,787.7	-182.5	-287.3	-146.8	0.00	0.00	0.00
7,900.0	4.16	237.57	7,887.5	-186.4	-293.4	-149.9	0.00	0.00	0.00
8,000.0	4.16	237.57	7,987.2	-190.3	-299.5	-153.1	0.00	0.00	0.00
8,100.0	4.16	237.57	8,087.0	-194.2	-305.6	-156.2	0.00	0.00	0.00
8,200.0	4.16	237.57	8,186.7	-198.1	-311.7	-159.3	0.00	0.00	0.00
8,300.0	4.16	237.57	8,286.4	-201.9	-317.8	-162.5	0.00	0.00	0.00
8,400.0	4.16	237.57	8,386.2	-205.8	-324.0	-165.6	0.00	0.00	0.00
8,500.0	4.16	237.57	8,485.9	-209.7	-330.1	-168.7	0.00	0.00	0.00
8,600.0	4.16	237.57	8,585.6	-213.6	-336.2	-171.8	0.00	0.00	0.00
8,700.0	4.16	237.57	8,685.4	-217.5	-342.3	-175.0	0.00	0.00	0.00
8,800.0	4.16	237.57	8,785.1	-221.4	-348.4	-178.1	0.00	0.00	0.00
8,900.0	4.16	237.57	8,884.8	-225.3	-354.5	-181.2	0.00	0.00	0.00
9,000.0	4.16	237.57	8,984.6	-229.2	-360.7	-184.3	0.00	0.00	0.00
9,100.0	4.16	237.57	9,084.3	-233.0	-366.8	-187.5	0.00	0.00	0.00
9,200.0	4.16	237.57	9,184.1	-236.9	-372.9	-190.6	0.00	0.00	0.00
9,300.0	4.16	237.57	9,283.8	-240.8	-379.0	-193.7	0.00	0.00	0.00
9,400.0	4.16	237.57	9,383.5	-244.7	-385.1	-196.8	0.00	0.00	0.00
9,500.0	4.16	237.57	9,483.3	-248.6	-391.2	-200.0	0.00	0.00	0.00
9,600.0	4.16	237.57	9,583.0	-252.5	-397.4	-203.1	0.00	0.00	0.00
9,700.0	4.16	237.57	9,682.7	-256.4	-403.5	-206.2	0.00	0.00	0.00
9,800.0	4.16	237.57	9,782.5	-260.2	-409.6	-209.3	0.00	0.00	0.00
9,900.0	4.16	237.57	9,882.2	-264.1	-415.7	-212.5	0.00	0.00	0.00
10,000.0	4.16	237.57	9,982.0	-268.0	-421.8	-215.6	0.00	0.00	0.00
10,100.0	4.16	237.57	10,081.7	-271.9	-428.0	-218.7	0.00	0.00	0.00
10,200.0	4.16	237.57	10,181.4	-275.8	-434.1	-221.9	0.00	0.00	0.00
10,300.0	4.16	237.57	10,281.2	-279.7	-440.2	-225.0	0.00	0.00	0.00
10,400.0	4.16	237.57	10,380.9	-283.6	-446.3	-228.1	0.00	0.00	0.00
10,500.0	4.16	237.57	10,480.6	-287.4	-452.4	-231.2	0.00	0.00	0.00
10,600.0	4.16	237.57	10,580.4	-291.3	-458.5	-234.4	0.00	0.00	0.00
10,700.0	4.16	237.57	10,680.1	-295.2	-464.7	-237.5	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 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 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)
10,800.0	4.16	237.57	10,779.9	-299.1	-470.8	-240.6	0.00	0.00	0.00
10,900.0	4.16	237.57	10,879.6	-303.0	-476.9	-243.7	0.00	0.00	0.00
11,000.0	4.16	237.57	10,979.3	-306.9	-483.0	-246.9	0.00	0.00	0.00
11,100.0	4.16	237.57	11,079.1	-310.8	-489.1	-250.0	0.00	0.00	0.00
11,200.0	4.16	237.57	11,178.8	-314.7	-495.2	-253.1	0.00	0.00	0.00
11,300.0	4.16	237.57	11,278.5	-318.5	-501.4	-256.2	0.00	0.00	0.00
11,400.0	4.16	237.57	11,378.3	-322.4	-507.5	-259.4	0.00	0.00	0.00
11,500.0	4.16	237.57	11,478.0	-326.3	-513.6	-262.5	0.00	0.00	0.00
11,600.0	4.16	237.57	11,577.7	-330.2	-519.7	-265.6	0.00	0.00	0.00
11,700.0	4.16	237.57	11,677.5	-334.1	-525.8	-268.7	0.00	0.00	0.00
11,800.0	4.16	237.57	11,777.2	-338.0	-531.9	-271.9	0.00	0.00	0.00
11,876.9	4.16	237.57	11,853.9	-341.0	-536.6	-274.3	0.00	0.00	0.00
11,900.0	3.69	237.57	11,877.0	-341.8	-538.0	-275.0	2.00	-2.00	0.00
12,000.0	1.69	237.57	11,976.9	-344.3	-541.9	-277.0	2.00	-2.00	0.00
12,084.7	0.00	0.01	12,061.5	-345.0	-543.0	-277.5	2.00	-2.00	0.00
KOP(Yarrow 32 State #705H)									
12,100.0	1.84	359.62	12,076.8	-344.8	-543.0	-277.3	12.00	12.00	0.00
12,125.0	4.84	359.62	12,101.8	-343.3	-543.0	-275.8	12.00	12.00	0.00
12,150.0	7.84	359.62	12,126.6	-340.5	-543.0	-273.1	12.00	12.00	0.00
12,175.0	10.84	359.62	12,151.3	-336.5	-543.1	-269.1	12.00	12.00	0.00
12,200.0	13.84	359.62	12,175.7	-331.1	-543.1	-263.8	12.00	12.00	0.00
12,225.0	16.84	359.62	12,199.8	-324.5	-543.1	-257.2	12.00	12.00	0.00
12,250.0	19.84	359.62	12,223.6	-316.7	-543.2	-249.4	12.00	12.00	0.00
12,275.0	22.84	359.62	12,246.8	-307.6	-543.2	-240.3	12.00	12.00	0.00
12,300.0	25.84	359.62	12,269.6	-297.3	-543.3	-230.1	12.00	12.00	0.00
12,325.0	28.84	359.62	12,291.8	-285.8	-543.4	-218.7	12.00	12.00	0.00
12,350.0	31.84	359.62	12,313.4	-273.2	-543.5	-206.1	12.00	12.00	0.00
12,375.0	34.84	359.62	12,334.3	-259.4	-543.6	-192.5	12.00	12.00	0.00
12,400.0	37.84	359.62	12,354.4	-244.6	-543.7	-177.8	12.00	12.00	0.00
12,425.0	40.84	359.62	12,373.7	-228.8	-543.8	-162.0	12.00	12.00	0.00
12,450.0	43.84	359.62	12,392.2	-211.9	-543.9	-145.3	12.00	12.00	0.00
12,475.0	46.84	359.62	12,409.8	-194.1	-544.0	-127.6	12.00	12.00	0.00
12,485.5	48.10	359.62	12,416.9	-186.4	-544.1	-119.9	12.00	12.00	0.00
FTP(Yarrow 32 State #705H)									
12,500.0	49.84	359.62	12,426.4	-175.5	-544.1	-109.1	12.00	12.00	0.00
12,525.0	52.84	359.62	12,442.0	-155.9	-544.3	-89.7	12.00	12.00	0.00
12,550.0	55.84	359.62	12,456.6	-135.6	-544.4	-69.5	12.00	12.00	0.00
12,575.0	58.84	359.62	12,470.1	-114.6	-544.5	-48.6	12.00	12.00	0.00
12,600.0	61.84	359.62	12,482.5	-92.9	-544.7	-27.0	12.00	12.00	0.00
12,625.0	64.84	359.62	12,493.7	-70.5	-544.8	-4.8	12.00	12.00	0.00
12,650.0	67.84	359.62	12,503.7	-47.6	-545.0	17.9	12.00	12.00	0.00
12,675.0	70.84	359.62	12,512.5	-24.2	-545.1	41.2	12.00	12.00	0.00
12,700.0	73.84	359.62	12,520.1	-0.4	-545.3	64.8	12.00	12.00	0.00
12,725.0	76.84	359.62	12,526.4	23.8	-545.4	88.9	12.00	12.00	0.00
12,750.0	79.84	359.62	12,531.5	48.2	-545.6	113.2	12.00	12.00	0.00
12,775.0	82.84	359.62	12,535.2	73.0	-545.8	137.8	12.00	12.00	0.00
12,800.0	85.84	359.62	12,537.7	97.8	-545.9	162.5	12.00	12.00	0.00
12,825.0	88.84	359.62	12,538.9	122.8	-546.1	187.3	12.00	12.00	0.00
12,834.7	90.00	359.62	12,539.0	132.5	-546.2	196.9	12.00	12.00	0.00
12,900.0	90.00	359.62	12,539.0	197.8	-546.6	261.8	0.00	0.00	0.00
13,000.0	90.00	359.62	12,539.0	297.8	-547.3	361.2	0.00	0.00	0.00
13,100.0	90.00	359.62	12,539.0	397.8	-547.9	460.5	0.00	0.00	0.00
13,200.0	90.00	359.62	12,539.0	497.8	-548.6	559.9	0.00	0.00	0.00
13,300.0	90.00	359.62	12,539.0	597.8	-549.2	659.2	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 @ 3697.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3697.0usft
Site:	Yarrow 32 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)
13,400.0	90.00	359.62	12,539.0	697.8	-549.9	758.6	0.00	0.00	0.00
13,500.0	90.00	359.62	12,539.0	797.8	-550.6	857.9	0.00	0.00	0.00
13,600.0	90.00	359.62	12,539.0	897.8	-551.2	957.3	0.00	0.00	0.00
13,700.0	90.00	359.62	12,539.0	997.8	-551.9	1,056.7	0.00	0.00	0.00
13,800.0	90.00	359.62	12,539.0	1,097.8	-552.6	1,156.0	0.00	0.00	0.00
13,900.0	90.00	359.62	12,539.0	1,197.8	-553.2	1,255.4	0.00	0.00	0.00
14,000.0	90.00	359.62	12,539.0	1,297.8	-553.9	1,354.7	0.00	0.00	0.00
14,100.0	90.00	359.62	12,539.0	1,397.8	-554.5	1,454.1	0.00	0.00	0.00
14,200.0	90.00	359.62	12,539.0	1,497.8	-555.2	1,553.5	0.00	0.00	0.00
14,300.0	90.00	359.62	12,539.0	1,597.8	-555.9	1,652.8	0.00	0.00	0.00
14,400.0	90.00	359.62	12,539.0	1,697.8	-556.5	1,752.2	0.00	0.00	0.00
14,500.0	90.00	359.62	12,539.0	1,797.8	-557.2	1,851.5	0.00	0.00	0.00
14,600.0	90.00	359.62	12,539.0	1,897.8	-557.9	1,950.9	0.00	0.00	0.00
14,700.0	90.00	359.62	12,539.0	1,997.8	-558.5	2,050.2	0.00	0.00	0.00
14,800.0	90.00	359.62	12,539.0	2,097.8	-559.2	2,149.6	0.00	0.00	0.00
14,900.0	90.00	359.62	12,539.0	2,197.7	-559.8	2,249.0	0.00	0.00	0.00
15,000.0	90.00	359.62	12,539.0	2,297.7	-560.5	2,348.3	0.00	0.00	0.00
15,100.0	90.00	359.62	12,539.0	2,397.7	-561.2	2,447.7	0.00	0.00	0.00
15,200.0	90.00	359.62	12,539.0	2,497.7	-561.8	2,547.0	0.00	0.00	0.00
15,300.0	90.00	359.62	12,539.0	2,597.7	-562.5	2,646.4	0.00	0.00	0.00
15,400.0	90.00	359.62	12,539.0	2,697.7	-563.2	2,745.8	0.00	0.00	0.00
15,500.0	90.00	359.62	12,539.0	2,797.7	-563.8	2,845.1	0.00	0.00	0.00
15,600.0	90.00	359.62	12,539.0	2,897.7	-564.5	2,944.5	0.00	0.00	0.00
15,700.0	90.00	359.62	12,539.0	2,997.7	-565.2	3,043.8	0.00	0.00	0.00
15,800.0	90.00	359.62	12,539.0	3,097.7	-565.8	3,143.2	0.00	0.00	0.00
15,900.0	90.00	359.62	12,539.0	3,197.7	-566.5	3,242.5	0.00	0.00	0.00
16,000.0	90.00	359.62	12,539.0	3,297.7	-567.1	3,341.9	0.00	0.00	0.00
16,100.0	90.00	359.62	12,539.0	3,397.7	-567.8	3,441.3	0.00	0.00	0.00
16,200.0	90.00	359.62	12,539.0	3,497.7	-568.5	3,540.6	0.00	0.00	0.00
16,300.0	90.00	359.62	12,539.0	3,597.7	-569.1	3,640.0	0.00	0.00	0.00
16,400.0	90.00	359.62	12,539.0	3,697.7	-569.8	3,739.3	0.00	0.00	0.00
16,500.0	90.00	359.62	12,539.0	3,797.7	-570.5	3,838.7	0.00	0.00	0.00
16,600.0	90.00	359.62	12,539.0	3,897.7	-571.1	3,938.0	0.00	0.00	0.00
16,700.0	90.00	359.62	12,539.0	3,997.7	-571.8	4,037.4	0.00	0.00	0.00
16,800.0	90.00	359.62	12,539.0	4,097.7	-572.4	4,136.8	0.00	0.00	0.00
16,900.0	90.00	359.62	12,539.0	4,197.7	-573.1	4,236.1	0.00	0.00	0.00
17,000.0	90.00	359.62	12,539.0	4,297.7	-573.8	4,335.5	0.00	0.00	0.00
17,100.0	90.00	359.62	12,539.0	4,397.7	-574.4	4,434.8	0.00	0.00	0.00
17,200.0	90.00	359.62	12,539.0	4,497.7	-575.1	4,534.2	0.00	0.00	0.00
17,300.0	90.00	359.62	12,539.0	4,597.7	-575.8	4,633.6	0.00	0.00	0.00
17,400.0	90.00	359.62	12,539.0	4,697.7	-576.4	4,732.9	0.00	0.00	0.00
17,488.3	90.00	359.62	12,539.0	4,786.0	-577.0	4,820.7	0.00	0.00	0.00
PBHL(Yarrow 32 State #705H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
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:	#705H	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	0.01	12,061.5	-345.0	-543.0	456,954.00	770,113.00	32° 15' 14.667 N	103° 35' 35.809 W
FTP(Yarrow 32 State #7 - plan misses target center by 163.4usft at 12485.5usft MD (12416.9 TVD, -186.4 N, -544.1 E) - Point	0.00	0.00	12,539.0	-295.0	-543.0	457,004.00	770,113.00	32° 15' 15.162 N	103° 35' 35.805 W
PBHL(Yarrow 32 State # - plan hits target center - Point	0.00	0.00	12,539.0	4,786.0	-577.0	462,085.00	770,079.00	32° 16' 5.442 N	103° 35' 35.793 W