



Lea County, NM (NAD 83 NME)

Yarrow 32 State #702H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

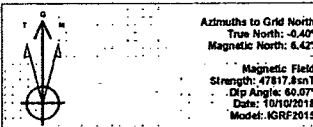
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #702H

KB = 25 @ 3692.0usft 3687.0
Northing 457304.00 Easting 771829.00 Latitude 32° 15' 18.013 N Longitude 103° 35' 15.798 W

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	3168.2	3.36	228.79	3168.1	-3.3	-3.7	2.00	228.79	-2.9	
4	11922.5	3.36	228.79	11907.4	-341.7	-390.3	0.00	0.00	-305.4	
5	12090.8	0.00	0.00	12075.5	-345.0	-394.0	2.00	180.00	-308.3	KOP(Yarrow 32 State #702H)
6	12840.8	90.00	359.59	12553.0	132.4	-397.4	12.00	359.59	167.6	
7	17494.5	90.00	359.59	12553.0	4786.0	-431.0	0.00	0.00	4805.4	PBHL(Yarrow 32 State #702H)



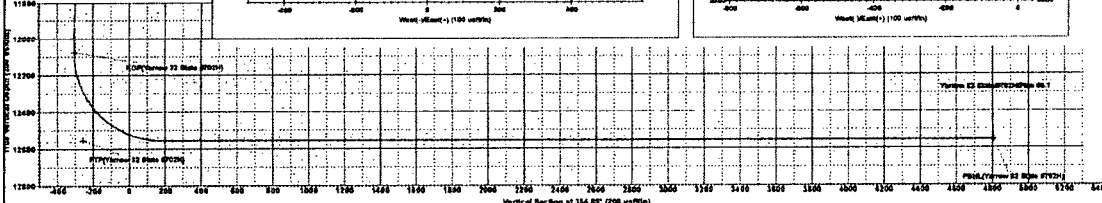
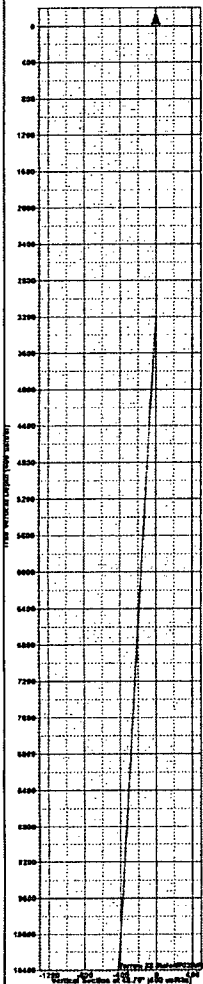
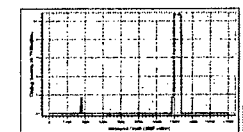
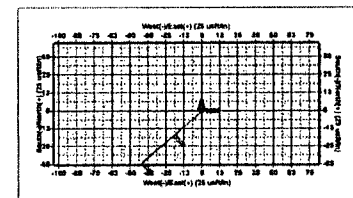
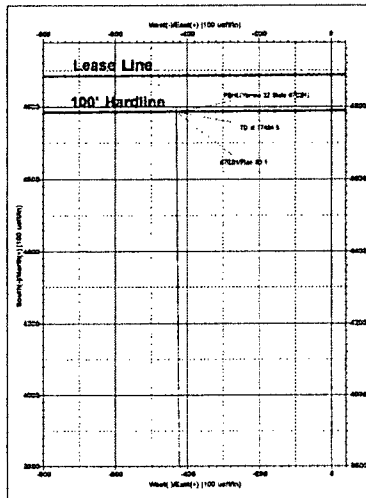
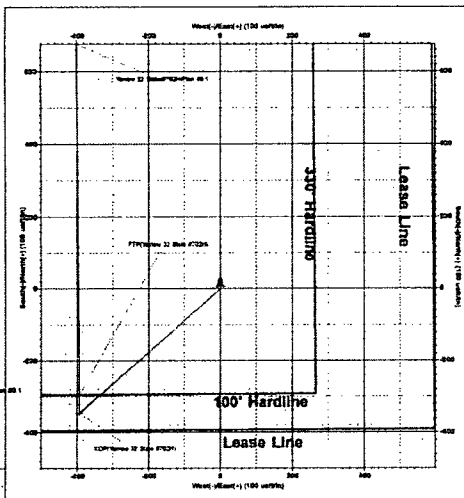
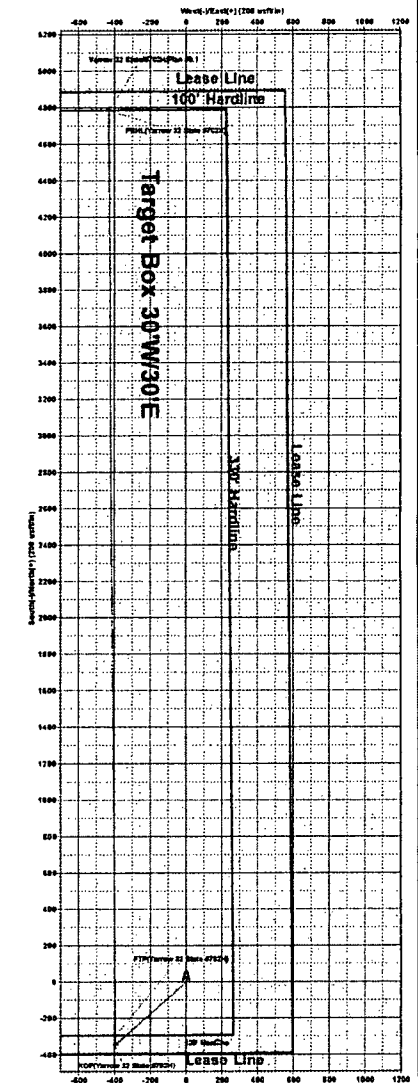
To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a True Direction to a Grid Direction, Subtract 0.40°

CASINO DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Yarrow 32 State #702H)	12075.5	-345.0	-394.0	456953.00	771435.00
PBHL(Yarrow 32 State #702H)	12553.0	4786.0	-431.0	462090.00	771398.00
PTM(Yarrow 32 State #702H)	12553.0	-258.0	-394.0	457009.00	771435.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#702H

OH

Plan: Plan #0.1

Standard Planning Report

10 October, 2018



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3692.0usft
 MD Reference: KB = 25 @ 3692.0usft
 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:	Map	Northing:	457,304.00 usft	Latitude: 32° 15' 18.011 N
From:		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	#702H			
Well Position	+N/-S	0.0 usft	Northing:	457,304.00 usft
	+E/-W	-33.0 usft	Easting:	771,829.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,667.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/10/2018	6.82	60.07	47,817.79000815

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	354.85

Plan Survey Tool Program	Date 10/10/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,494.5 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	
3,168.2	3.36	228.79	3,168.1	-3.3	-3.7	2.00	2.00	0.00	228.79	
11,922.5	3.36	228.79	11,907.4	-341.7	-390.3	0.00	0.00	0.00	0.00	
12,090.8	0.00	0.00	12,075.5	-345.0	-394.0	2.00	-2.00	0.00	180.00	KOP(Yarrow 32 State
12,840.8	90.00	359.59	12,553.0	132.4	-397.4	12.00	12.00	-0.06	359.59	
17,494.5	90.00	359.59	12,553.0	4,786.0	-431.0	0.00	0.00	0.00	0.00	PBHL(Yarrow 32 Stat



Planning Report

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 MD Reference: KB = 25 @ 3692.0usft
 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)
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	228.79	3,100.0	-1.1	-1.3	-1.0	2.00	2.00	0.00
3,168.2	3.36	228.79	3,168.1	-3.3	-3.7	-2.9	2.00	2.00	0.00
3,200.0	3.36	228.79	3,199.8	-4.5	-5.1	-4.0	0.00	0.00	0.00
3,300.0	3.36	228.79	3,299.7	-8.3	-9.5	-7.5	0.00	0.00	0.00
3,400.0	3.36	228.79	3,399.5	-12.2	-13.9	-10.9	0.00	0.00	0.00
3,500.0	3.36	228.79	3,499.3	-16.1	-18.4	-14.4	0.00	0.00	0.00
3,600.0	3.36	228.79	3,599.2	-19.9	-22.8	-17.8	0.00	0.00	0.00
3,700.0	3.36	228.79	3,699.0	-23.8	-27.2	-21.3	0.00	0.00	0.00
3,800.0	3.36	228.79	3,798.8	-27.7	-31.6	-24.7	0.00	0.00	0.00
3,900.0	3.36	228.79	3,898.6	-31.5	-36.0	-28.2	0.00	0.00	0.00
4,000.0	3.36	228.79	3,998.5	-35.4	-40.4	-31.6	0.00	0.00	0.00
4,100.0	3.36	228.79	4,098.3	-39.3	-44.9	-35.1	0.00	0.00	0.00
4,200.0	3.36	228.79	4,198.1	-43.1	-49.3	-38.6	0.00	0.00	0.00
4,300.0	3.36	228.79	4,298.0	-47.0	-53.7	-42.0	0.00	0.00	0.00
4,400.0	3.36	228.79	4,397.8	-50.9	-58.1	-45.5	0.00	0.00	0.00
4,500.0	3.36	228.79	4,497.6	-54.7	-62.5	-48.9	0.00	0.00	0.00
4,600.0	3.36	228.79	4,597.4	-58.6	-66.9	-52.4	0.00	0.00	0.00
4,700.0	3.36	228.79	4,697.3	-62.5	-71.4	-55.8	0.00	0.00	0.00
4,800.0	3.36	228.79	4,797.1	-66.3	-75.8	-59.3	0.00	0.00	0.00
4,900.0	3.36	228.79	4,896.9	-70.2	-80.2	-62.7	0.00	0.00	0.00
5,000.0	3.36	228.79	4,996.7	-74.1	-84.6	-66.2	0.00	0.00	0.00
5,100.0	3.36	228.79	5,096.6	-77.9	-89.0	-69.6	0.00	0.00	0.00
5,200.0	3.36	228.79	5,196.4	-81.8	-93.4	-73.1	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: #702H
 Wellbore: OH
 Design: Plan #0.1

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 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	3.36	228.79	5,296.2	-85.7	-97.8	-76.6	0.00	0.00	0.00
5,400.0	3.36	228.79	5,396.1	-89.5	-102.3	-80.0	0.00	0.00	0.00
5,500.0	3.36	228.79	5,495.9	-93.4	-106.7	-83.5	0.00	0.00	0.00
5,600.0	3.36	228.79	5,595.7	-97.3	-111.1	-86.9	0.00	0.00	0.00
5,700.0	3.36	228.79	5,695.5	-101.1	-115.5	-90.4	0.00	0.00	0.00
5,800.0	3.36	228.79	5,795.4	-105.0	-119.9	-93.8	0.00	0.00	0.00
5,900.0	3.36	228.79	5,895.2	-108.9	-124.3	-97.3	0.00	0.00	0.00
6,000.0	3.36	228.79	5,995.0	-112.7	-128.8	-100.7	0.00	0.00	0.00
6,100.0	3.36	228.79	6,094.8	-116.6	-133.2	-104.2	0.00	0.00	0.00
6,200.0	3.36	228.79	6,194.7	-120.5	-137.6	-107.7	0.00	0.00	0.00
6,300.0	3.36	228.79	6,294.5	-124.3	-142.0	-111.1	0.00	0.00	0.00
6,400.0	3.36	228.79	6,394.3	-128.2	-146.4	-114.6	0.00	0.00	0.00
6,500.0	3.36	228.79	6,494.2	-132.1	-150.8	-118.0	0.00	0.00	0.00
6,600.0	3.36	228.79	6,594.0	-135.9	-155.3	-121.5	0.00	0.00	0.00
6,700.0	3.36	228.79	6,693.8	-139.8	-159.7	-124.9	0.00	0.00	0.00
6,800.0	3.36	228.79	6,793.6	-143.7	-164.1	-128.4	0.00	0.00	0.00
6,900.0	3.36	228.79	6,893.5	-147.5	-168.5	-131.8	0.00	0.00	0.00
7,000.0	3.36	228.79	6,993.3	-151.4	-172.9	-135.3	0.00	0.00	0.00
7,100.0	3.36	228.79	7,093.1	-155.3	-177.3	-138.7	0.00	0.00	0.00
7,200.0	3.36	228.79	7,193.0	-159.1	-181.7	-142.2	0.00	0.00	0.00
7,300.0	3.36	228.79	7,292.8	-163.0	-186.2	-145.7	0.00	0.00	0.00
7,400.0	3.36	228.79	7,392.6	-166.9	-190.6	-149.1	0.00	0.00	0.00
7,500.0	3.36	228.79	7,492.4	-170.7	-195.0	-152.6	0.00	0.00	0.00
7,600.0	3.36	228.79	7,592.3	-174.6	-199.4	-156.0	0.00	0.00	0.00
7,700.0	3.36	228.79	7,692.1	-178.5	-203.8	-159.5	0.00	0.00	0.00
7,800.0	3.36	228.79	7,791.9	-182.3	-208.2	-162.9	0.00	0.00	0.00
7,900.0	3.36	228.79	7,891.7	-186.2	-212.7	-166.4	0.00	0.00	0.00
8,000.0	3.36	228.79	7,991.6	-190.1	-217.1	-169.8	0.00	0.00	0.00
8,100.0	3.36	228.79	8,091.4	-193.9	-221.5	-173.3	0.00	0.00	0.00
8,200.0	3.36	228.79	8,191.2	-197.8	-225.9	-176.8	0.00	0.00	0.00
8,300.0	3.36	228.79	8,291.1	-201.7	-230.3	-180.2	0.00	0.00	0.00
8,400.0	3.36	228.79	8,390.9	-205.5	-234.7	-183.7	0.00	0.00	0.00
8,500.0	3.36	228.79	8,490.7	-209.4	-239.2	-187.1	0.00	0.00	0.00
8,600.0	3.36	228.79	8,590.5	-213.3	-243.6	-190.6	0.00	0.00	0.00
8,700.0	3.36	228.79	8,690.4	-217.1	-248.0	-194.0	0.00	0.00	0.00
8,800.0	3.36	228.79	8,790.2	-221.0	-252.4	-197.5	0.00	0.00	0.00
8,900.0	3.36	228.79	8,890.0	-224.9	-256.8	-200.9	0.00	0.00	0.00
9,000.0	3.36	228.79	8,989.8	-228.7	-261.2	-204.4	0.00	0.00	0.00
9,100.0	3.36	228.79	9,089.7	-232.6	-265.6	-207.8	0.00	0.00	0.00
9,200.0	3.36	228.79	9,189.5	-236.5	-270.1	-211.3	0.00	0.00	0.00
9,300.0	3.36	228.79	9,289.3	-240.3	-274.5	-214.8	0.00	0.00	0.00
9,400.0	3.36	228.79	9,389.2	-244.2	-278.9	-218.2	0.00	0.00	0.00
9,500.0	3.36	228.79	9,489.0	-248.1	-283.3	-221.7	0.00	0.00	0.00
9,600.0	3.36	228.79	9,588.8	-251.9	-287.7	-225.1	0.00	0.00	0.00
9,700.0	3.36	228.79	9,688.6	-255.8	-292.1	-228.6	0.00	0.00	0.00
9,800.0	3.36	228.79	9,788.5	-259.7	-296.6	-232.0	0.00	0.00	0.00
9,900.0	3.36	228.79	9,888.3	-263.5	-301.0	-235.5	0.00	0.00	0.00
10,000.0	3.36	228.79	9,988.1	-267.4	-305.4	-238.9	0.00	0.00	0.00
10,100.0	3.36	228.79	10,088.0	-271.3	-309.8	-242.4	0.00	0.00	0.00
10,200.0	3.36	228.79	10,187.8	-275.1	-314.2	-245.9	0.00	0.00	0.00
10,300.0	3.36	228.79	10,287.6	-279.0	-318.6	-249.3	0.00	0.00	0.00
10,400.0	3.36	228.79	10,387.4	-282.9	-323.1	-252.8	0.00	0.00	0.00
10,500.0	3.36	228.79	10,487.3	-286.7	-327.5	-256.2	0.00	0.00	0.00
10,600.0	3.36	228.79	10,587.1	-290.6	-331.9	-259.7	0.00	0.00	0.00



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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	3.36	228.79	10,686.9	-294.5	-336.3	-263.1	0.00	0.00	0.00
10,800.0	3.36	228.79	10,786.7	-298.3	-340.7	-266.6	0.00	0.00	0.00
10,900.0	3.36	228.79	10,886.6	-302.2	-345.1	-270.0	0.00	0.00	0.00
11,000.0	3.36	228.79	10,986.4	-306.1	-349.5	-273.5	0.00	0.00	0.00
11,100.0	3.36	228.79	11,086.2	-309.9	-354.0	-276.9	0.00	0.00	0.00
11,200.0	3.36	228.79	11,186.1	-313.8	-358.4	-280.4	0.00	0.00	0.00
11,300.0	3.36	228.79	11,285.9	-317.7	-362.8	-283.9	0.00	0.00	0.00
11,400.0	3.36	228.79	11,385.7	-321.5	-367.2	-287.3	0.00	0.00	0.00
11,500.0	3.36	228.79	11,485.5	-325.4	-371.6	-290.8	0.00	0.00	0.00
11,600.0	3.36	228.79	11,585.4	-329.3	-376.0	-294.2	0.00	0.00	0.00
11,700.0	3.36	228.79	11,685.2	-333.1	-380.5	-297.7	0.00	0.00	0.00
11,800.0	3.36	228.79	11,785.0	-337.0	-384.9	-301.1	0.00	0.00	0.00
11,900.0	3.36	228.79	11,884.8	-340.9	-389.3	-304.6	0.00	0.00	0.00
11,922.5	3.36	228.79	11,907.4	-341.7	-390.3	-305.4	0.00	0.00	0.00
12,000.0	1.82	228.79	11,984.7	-344.1	-392.9	-307.4	2.00	-2.00	0.00
12,090.8	0.00	0.00	12,075.5	-345.0	-394.0	-308.3	2.00	-2.00	0.00
KOP(Yarrow 32 State #702H)									
12,100.0	1.11	359.59	12,084.7	-344.9	-394.0	-308.2	12.00	12.00	0.00
12,125.0	4.11	359.59	12,109.7	-343.8	-394.0	-307.0	12.00	12.00	0.00
12,150.0	7.11	359.59	12,134.6	-341.3	-394.0	-304.6	12.00	12.00	0.00
12,175.0	10.11	359.59	12,159.3	-337.6	-394.1	-300.9	12.00	12.00	0.00
12,200.0	13.11	359.59	12,183.8	-332.6	-394.1	-295.9	12.00	12.00	0.00
12,225.0	16.11	359.59	12,208.0	-326.3	-394.1	-289.6	12.00	12.00	0.00
12,250.0	19.11	359.59	12,231.8	-318.7	-394.2	-282.1	12.00	12.00	0.00
12,275.0	22.11	359.59	12,255.2	-309.9	-394.3	-273.3	12.00	12.00	0.00
12,300.0	25.11	359.59	12,278.1	-299.9	-394.3	-263.3	12.00	12.00	0.00
12,325.0	28.11	359.59	12,300.4	-288.7	-394.4	-252.2	12.00	12.00	0.00
12,350.0	31.11	359.59	12,322.2	-276.3	-394.5	-239.9	12.00	12.00	0.00
12,375.0	34.11	359.59	12,343.2	-262.9	-394.6	-226.4	12.00	12.00	0.00
12,400.0	37.11	359.59	12,363.5	-248.3	-394.7	-211.9	12.00	12.00	0.00
12,425.0	40.11	359.59	12,383.1	-232.7	-394.8	-196.4	12.00	12.00	0.00
12,450.0	43.11	359.59	12,401.8	-216.1	-394.9	-179.8	12.00	12.00	0.00
12,475.0	46.11	359.59	12,419.6	-198.6	-395.1	-162.3	12.00	12.00	0.00
12,493.8	48.36	359.59	12,432.3	-184.8	-395.2	-148.6	12.00	12.00	0.00
FTP(Yarrow 32 State #702H)									
12,500.0	49.11	359.59	12,436.4	-180.1	-395.2	-143.9	12.00	12.00	0.00
12,525.0	52.11	359.59	12,452.3	-160.8	-395.3	-124.7	12.00	12.00	0.00
12,550.0	55.11	359.59	12,467.1	-140.7	-395.5	-104.6	12.00	12.00	0.00
12,575.0	58.11	359.59	12,480.9	-119.8	-395.6	-83.8	12.00	12.00	0.00
12,600.0	61.11	359.59	12,493.5	-98.3	-395.8	-62.4	12.00	12.00	0.00
12,625.0	64.11	359.59	12,505.0	-76.1	-395.9	-40.2	12.00	12.00	0.00
12,650.0	67.11	359.59	12,515.4	-53.3	-396.1	-17.5	12.00	12.00	0.00
12,675.0	70.11	359.59	12,524.5	-30.0	-396.3	5.6	12.00	12.00	0.00
12,700.0	73.11	359.59	12,532.4	-6.3	-396.4	29.3	12.00	12.00	0.00
12,725.0	76.11	359.59	12,539.0	17.8	-396.6	53.3	12.00	12.00	0.00
12,750.0	79.11	359.59	12,544.4	42.2	-396.8	77.6	12.00	12.00	0.00
12,775.0	82.11	359.59	12,548.4	66.9	-397.0	102.2	12.00	12.00	0.00
12,800.0	85.11	359.59	12,551.2	91.7	-397.1	127.0	12.00	12.00	0.00
12,825.0	88.11	359.59	12,552.7	116.7	-397.3	151.8	12.00	12.00	0.00
12,840.8	90.00	359.59	12,553.0	132.4	-397.4	167.6	12.00	12.00	0.00
12,900.0	90.00	359.59	12,553.0	191.7	-397.9	226.6	0.00	0.00	0.00
13,000.0	90.00	359.59	12,553.0	291.7	-398.6	326.2	0.00	0.00	0.00
13,100.0	90.00	359.59	12,553.0	391.7	-399.3	425.9	0.00	0.00	0.00
13,200.0	90.00	359.59	12,553.0	491.7	-400.0	525.6	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: #702H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3692.0usft
 MD Reference: KB = 25 @ 3692.0usft
 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)
13,300.0	90.00	359.59	12,553.0	591.7	-400.8	625.2	0.00	0.00	0.00
13,400.0	90.00	359.59	12,553.0	691.7	-401.5	724.9	0.00	0.00	0.00
13,500.0	90.00	359.59	12,553.0	791.6	-402.2	824.5	0.00	0.00	0.00
13,600.0	90.00	359.59	12,553.0	891.6	-402.9	924.2	0.00	0.00	0.00
13,700.0	90.00	359.59	12,553.0	991.6	-403.6	1,023.9	0.00	0.00	0.00
13,800.0	90.00	359.59	12,553.0	1,091.6	-404.4	1,123.5	0.00	0.00	0.00
13,900.0	90.00	359.59	12,553.0	1,191.6	-405.1	1,223.2	0.00	0.00	0.00
14,000.0	90.00	359.59	12,553.0	1,291.6	-405.8	1,322.8	0.00	0.00	0.00
14,100.0	90.00	359.59	12,553.0	1,391.6	-406.5	1,422.5	0.00	0.00	0.00
14,200.0	90.00	359.59	12,553.0	1,491.6	-407.2	1,522.1	0.00	0.00	0.00
14,300.0	90.00	359.59	12,553.0	1,591.6	-408.0	1,621.8	0.00	0.00	0.00
14,400.0	90.00	359.59	12,553.0	1,691.6	-408.7	1,721.5	0.00	0.00	0.00
14,500.0	90.00	359.59	12,553.0	1,791.6	-409.4	1,821.1	0.00	0.00	0.00
14,600.0	90.00	359.59	12,553.0	1,891.6	-410.1	1,920.8	0.00	0.00	0.00
14,700.0	90.00	359.59	12,553.0	1,991.6	-410.8	2,020.4	0.00	0.00	0.00
14,800.0	90.00	359.59	12,553.0	2,091.6	-411.6	2,120.1	0.00	0.00	0.00
14,900.0	90.00	359.59	12,553.0	2,191.6	-412.3	2,219.8	0.00	0.00	0.00
15,000.0	90.00	359.59	12,553.0	2,291.6	-413.0	2,319.4	0.00	0.00	0.00
15,100.0	90.00	359.59	12,553.0	2,391.6	-413.7	2,419.1	0.00	0.00	0.00
15,200.0	90.00	359.59	12,553.0	2,491.6	-414.5	2,518.7	0.00	0.00	0.00
15,300.0	90.00	359.59	12,553.0	2,591.6	-415.2	2,618.4	0.00	0.00	0.00
15,400.0	90.00	359.59	12,553.0	2,691.6	-415.9	2,718.1	0.00	0.00	0.00
15,500.0	90.00	359.59	12,553.0	2,791.6	-416.6	2,817.7	0.00	0.00	0.00
15,600.0	90.00	359.59	12,553.0	2,891.6	-417.3	2,917.4	0.00	0.00	0.00
15,700.0	90.00	359.59	12,553.0	2,991.6	-418.1	3,017.0	0.00	0.00	0.00
15,800.0	90.00	359.59	12,553.0	3,091.6	-418.8	3,116.7	0.00	0.00	0.00
15,900.0	90.00	359.59	12,553.0	3,191.6	-419.5	3,216.3	0.00	0.00	0.00
16,000.0	90.00	359.59	12,553.0	3,291.6	-420.2	3,316.0	0.00	0.00	0.00
16,100.0	90.00	359.59	12,553.0	3,391.6	-420.9	3,415.7	0.00	0.00	0.00
16,200.0	90.00	359.59	12,553.0	3,491.6	-421.7	3,515.3	0.00	0.00	0.00
16,300.0	90.00	359.59	12,553.0	3,591.6	-422.4	3,615.0	0.00	0.00	0.00
16,400.0	90.00	359.59	12,553.0	3,691.6	-423.1	3,714.6	0.00	0.00	0.00
16,500.0	90.00	359.59	12,553.0	3,791.6	-423.8	3,814.3	0.00	0.00	0.00
16,600.0	90.00	359.59	12,553.0	3,891.6	-424.6	3,914.0	0.00	0.00	0.00
16,700.0	90.00	359.59	12,553.0	3,991.6	-425.3	4,013.6	0.00	0.00	0.00
16,800.0	90.00	359.59	12,553.0	4,091.6	-426.0	4,113.3	0.00	0.00	0.00
16,900.0	90.00	359.59	12,553.0	4,191.6	-426.7	4,212.9	0.00	0.00	0.00
17,000.0	90.00	359.59	12,553.0	4,291.6	-427.4	4,312.6	0.00	0.00	0.00
17,100.0	90.00	359.59	12,553.0	4,391.6	-428.2	4,412.3	0.00	0.00	0.00
17,200.0	90.00	359.59	12,553.0	4,491.6	-428.9	4,511.9	0.00	0.00	0.00
17,300.0	90.00	359.59	12,553.0	4,591.6	-429.6	4,611.6	0.00	0.00	0.00
17,400.0	90.00	359.59	12,553.0	4,691.5	-430.3	4,711.2	0.00	0.00	0.00
17,494.5	90.00	359.59	12,553.0	4,786.0	-431.0	4,805.4	0.00	0.00	0.00

PBHL(Yarrow 32 State #702H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3692.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3692.0usft
Site:	Yarrow 32 State	North Reference:	Grid
Well:	#702H	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	12,075.5	-345.0	-394.0	456,959.00	771,435.00	32° 15' 14.626 N	103° 35' 20.415 W
PBHL(Yarrow 32 State # - plan hits target center - Point	0.00	0.00	12,553.0	4,786.0	-431.0	462,090.00	771,398.00	32° 16' 5.401 N	103° 35' 20.431 W
FTP(Yarrow 32 State #7 - plan misses target center by 163.4usft at 12493.8usft MD (12432.3 TVD, -184.8 N, -395.2 E) - Point	0.00	0.00	12,553.0	-295.0	-394.0	457,009.00	771,435.00	32° 15' 15.121 N	103° 35' 20.411 W