

HOBBS OCD

MAR 05 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Magnolia 15 #720H

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: #720H

KB = 25 @ 3311.0usft
Northing 378655.00 Easting 778760.00 Latitude 32° 2' 13.337 N Longitude 103° 34' 1.556 W

SECTION DETAILS

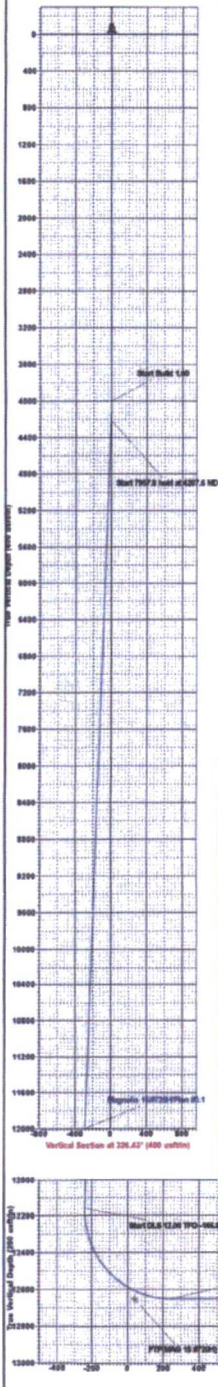
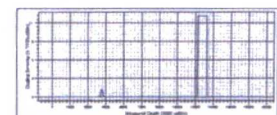
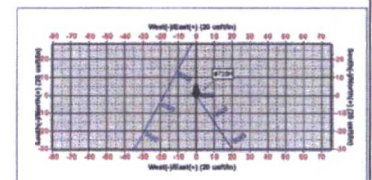
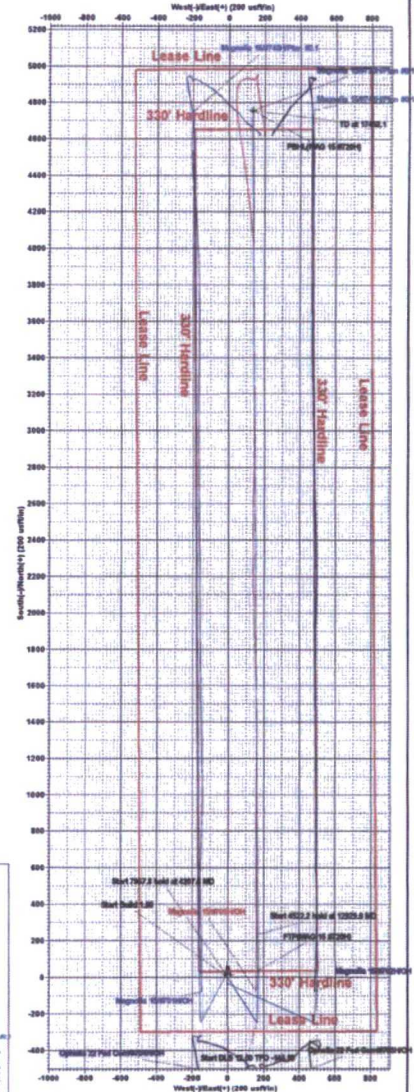
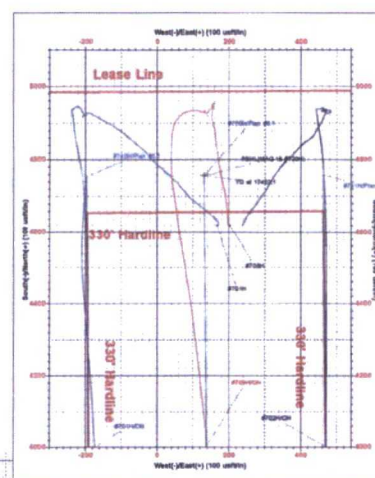
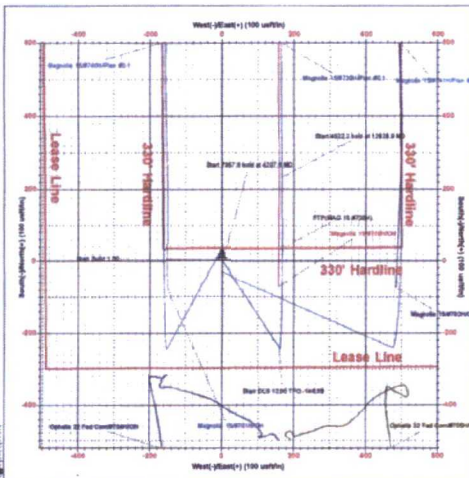
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4207.6	2.08	146.43	4207.6	-3.1	2.1	1.00	146.43	-3.1	
4	12165.4	2.08	146.43	12160.1	-243.4	161.5	0.00	0.00	-236.8	
5	12929.9	90.00	359.54	12652.0	233.9	167.4	12.00	-146.88	236.5	
6	17452.1	90.00	359.54	12652.0	4796.0	131.0	0.00	0.00	4757.8	PBHL(MAG 15 #720H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(MAG 15 #720H)	12652.0	34.0	189.0	378089.00	778929.00
PBHL(MAG 15 #720H)	12652.0	4796.0	131.0	382811.00	778891.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15

#720H

OH

Plan: Plan #0.1

Standard Planning Report

01 March, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #720H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3311.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3311.0usft
Site:	Magnolia 15	North Reference:	Grid
Well:	#720H	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	Magnolia 15		
Site Position:		Northing:	378,055.00 usft
From:	Map	Easting:	778,760.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"
		Latitude:	32° 2' 13.337 N
		Longitude:	103° 34' 1.656 W
		Grid Convergence:	0.41°

Well	#720H		
Well Position	+N/-S	0.0 usft	Northing: 378,055.00 usft
	+E/-W	0.0 usft	Easting: 778,760.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 2' 13.337 N
			Longitude: 103° 34' 1.656 W
			Ground Level: 3,286.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	3/1/2018	6.86	59.88	47,756.14460246

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	1.58

Plan Survey Tool Program		Date	3/1/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	17,452.1	Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard		

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,207.6	2.08	146.43	4,207.6	-3.1	2.1	1.00	1.00	0.00	146.43	
12,165.4	2.08	146.43	12,160.1	-243.4	161.5	0.00	0.00	0.00	0.00	
12,929.9	90.00	359.54	12,652.0	233.9	167.4	12.00	11.50	-19.21	-146.88	
17,452.1	90.00	359.54	12,652.0	4,756.0	131.0	0.00	0.00	0.00	0.00	PBHL(MAG 15 #720H)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #720H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #720H
 TVD Reference: KB = 25 @ 3311.0usft
 MD Reference: KB = 25 @ 3311.0usft
 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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	1.00	146.43	4,100.0	-0.7	0.5	-0.7	1.00	1.00	0.00
4,207.6	2.08	146.43	4,207.6	-3.1	2.1	-3.1	1.00	1.00	0.00
4,300.0	2.08	146.43	4,299.9	-5.9	3.9	-5.8	0.00	0.00	0.00
4,400.0	2.08	146.43	4,399.8	-8.9	5.9	-8.8	0.00	0.00	0.00
4,500.0	2.08	146.43	4,499.8	-12.0	7.9	-11.7	0.00	0.00	0.00
4,600.0	2.08	146.43	4,599.7	-15.0	9.9	-14.7	0.00	0.00	0.00
4,700.0	2.08	146.43	4,699.6	-18.0	11.9	-17.7	0.00	0.00	0.00
4,800.0	2.08	146.43	4,799.6	-21.0	13.9	-20.6	0.00	0.00	0.00
4,900.0	2.08	146.43	4,899.5	-24.0	15.9	-23.6	0.00	0.00	0.00
5,000.0	2.08	146.43	4,999.4	-27.1	18.0	-26.5	0.00	0.00	0.00
5,100.0	2.08	146.43	5,099.4	-30.1	20.0	-29.5	0.00	0.00	0.00
5,200.0	2.08	146.43	5,199.3	-33.1	22.0	-32.5	0.00	0.00	0.00
5,300.0	2.08	146.43	5,299.2	-36.1	24.0	-35.4	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #720H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #720H
TVD Reference: KB = 25 @ 3311.0usft
MD Reference: KB = 25 @ 3311.0usft
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)
5,400.0	2.08	146.43	5,399.2	-39.1	26.0	-38.4	0.00	0.00	0.00
5,500.0	2.08	146.43	5,499.1	-42.1	28.0	-41.4	0.00	0.00	0.00
5,600.0	2.08	146.43	5,599.0	-45.2	30.0	-44.3	0.00	0.00	0.00
5,700.0	2.08	146.43	5,699.0	-48.2	32.0	-47.3	0.00	0.00	0.00
5,800.0	2.08	146.43	5,798.9	-51.2	34.0	-50.2	0.00	0.00	0.00
5,900.0	2.08	146.43	5,898.8	-54.2	36.0	-53.2	0.00	0.00	0.00
6,000.0	2.08	146.43	5,998.8	-57.2	38.0	-56.2	0.00	0.00	0.00
6,100.0	2.08	146.43	6,098.7	-60.3	40.0	-59.1	0.00	0.00	0.00
6,200.0	2.08	146.43	6,198.6	-63.3	42.0	-62.1	0.00	0.00	0.00
6,300.0	2.08	146.43	6,298.6	-66.3	44.0	-65.1	0.00	0.00	0.00
6,400.0	2.08	146.43	6,398.5	-69.3	46.0	-68.0	0.00	0.00	0.00
6,500.0	2.08	146.43	6,498.4	-72.3	48.0	-71.0	0.00	0.00	0.00
6,600.0	2.08	146.43	6,598.4	-75.4	50.0	-73.9	0.00	0.00	0.00
6,700.0	2.08	146.43	6,698.3	-78.4	52.0	-76.9	0.00	0.00	0.00
6,800.0	2.08	146.43	6,798.3	-81.4	54.0	-79.9	0.00	0.00	0.00
6,900.0	2.08	146.43	6,898.2	-84.4	56.0	-82.8	0.00	0.00	0.00
7,000.0	2.08	146.43	6,998.1	-87.4	58.0	-85.8	0.00	0.00	0.00
7,100.0	2.08	146.43	7,098.1	-90.4	60.0	-88.8	0.00	0.00	0.00
7,200.0	2.08	146.43	7,198.0	-93.5	62.0	-91.7	0.00	0.00	0.00
7,300.0	2.08	146.43	7,297.9	-96.5	64.0	-94.7	0.00	0.00	0.00
7,400.0	2.08	146.43	7,397.9	-99.5	66.0	-97.6	0.00	0.00	0.00
7,500.0	2.08	146.43	7,497.8	-102.5	68.0	-100.6	0.00	0.00	0.00
7,600.0	2.08	146.43	7,597.7	-105.5	70.0	-103.6	0.00	0.00	0.00
7,700.0	2.08	146.43	7,697.7	-108.6	72.0	-106.5	0.00	0.00	0.00
7,800.0	2.08	146.43	7,797.6	-111.6	74.0	-109.5	0.00	0.00	0.00
7,900.0	2.08	146.43	7,897.5	-114.6	76.0	-112.5	0.00	0.00	0.00
8,000.0	2.08	146.43	7,997.5	-117.6	78.0	-115.4	0.00	0.00	0.00
8,100.0	2.08	146.43	8,097.4	-120.6	80.1	-118.4	0.00	0.00	0.00
8,200.0	2.08	146.43	8,197.3	-123.7	82.1	-121.3	0.00	0.00	0.00
8,300.0	2.08	146.43	8,297.3	-126.7	84.1	-124.3	0.00	0.00	0.00
8,400.0	2.08	146.43	8,397.2	-129.7	86.1	-127.3	0.00	0.00	0.00
8,500.0	2.08	146.43	8,497.1	-132.7	88.1	-130.2	0.00	0.00	0.00
8,600.0	2.08	146.43	8,597.1	-135.7	90.1	-133.2	0.00	0.00	0.00
8,700.0	2.08	146.43	8,697.0	-138.7	92.1	-136.2	0.00	0.00	0.00
8,800.0	2.08	146.43	8,796.9	-141.8	94.1	-139.1	0.00	0.00	0.00
8,900.0	2.08	146.43	8,896.9	-144.8	96.1	-142.1	0.00	0.00	0.00
9,000.0	2.08	146.43	8,996.8	-147.8	98.1	-145.0	0.00	0.00	0.00
9,100.0	2.08	146.43	9,096.7	-150.8	100.1	-148.0	0.00	0.00	0.00
9,200.0	2.08	146.43	9,196.7	-153.8	102.1	-151.0	0.00	0.00	0.00
9,300.0	2.08	146.43	9,296.6	-156.9	104.1	-153.9	0.00	0.00	0.00
9,400.0	2.08	146.43	9,396.5	-159.9	106.1	-156.9	0.00	0.00	0.00
9,500.0	2.08	146.43	9,496.5	-162.9	108.1	-159.9	0.00	0.00	0.00
9,600.0	2.08	146.43	9,596.4	-165.9	110.1	-162.8	0.00	0.00	0.00
9,700.0	2.08	146.43	9,696.3	-168.9	112.1	-165.8	0.00	0.00	0.00
9,800.0	2.08	146.43	9,796.3	-172.0	114.1	-168.7	0.00	0.00	0.00
9,900.0	2.08	146.43	9,896.2	-175.0	116.1	-171.7	0.00	0.00	0.00
10,000.0	2.08	146.43	9,996.2	-178.0	118.1	-174.7	0.00	0.00	0.00
10,100.0	2.08	146.43	10,096.1	-181.0	120.1	-177.6	0.00	0.00	0.00
10,200.0	2.08	146.43	10,196.0	-184.0	122.1	-180.6	0.00	0.00	0.00
10,300.0	2.08	146.43	10,296.0	-187.0	124.1	-183.6	0.00	0.00	0.00
10,400.0	2.08	146.43	10,395.9	-190.1	126.1	-186.5	0.00	0.00	0.00
10,500.0	2.08	146.43	10,495.8	-193.1	128.1	-189.5	0.00	0.00	0.00
10,600.0	2.08	146.43	10,595.8	-196.1	130.1	-192.4	0.00	0.00	0.00
10,700.0	2.08	146.43	10,695.7	-199.1	132.1	-195.4	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #720H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #720H
TVD Reference: KB = 25 @ 3311.0usft
MD Reference: KB = 25 @ 3311.0usft
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)
10,800.0	2.08	146.43	10,795.6	-202.1	134.1	-198.4	0.00	0.00	0.00
10,900.0	2.08	146.43	10,895.6	-205.2	136.1	-201.3	0.00	0.00	0.00
11,000.0	2.08	146.43	10,995.5	-208.2	138.1	-204.3	0.00	0.00	0.00
11,100.0	2.08	146.43	11,095.4	-211.2	140.1	-207.3	0.00	0.00	0.00
11,200.0	2.08	146.43	11,195.4	-214.2	142.2	-210.2	0.00	0.00	0.00
11,300.0	2.08	146.43	11,295.3	-217.2	144.2	-213.2	0.00	0.00	0.00
11,400.0	2.08	146.43	11,395.2	-220.3	146.2	-216.1	0.00	0.00	0.00
11,500.0	2.08	146.43	11,495.2	-223.3	148.2	-219.1	0.00	0.00	0.00
11,600.0	2.08	146.43	11,595.1	-226.3	150.2	-222.1	0.00	0.00	0.00
11,700.0	2.08	146.43	11,695.0	-229.3	152.2	-225.0	0.00	0.00	0.00
11,800.0	2.08	146.43	11,795.0	-232.3	154.2	-228.0	0.00	0.00	0.00
11,900.0	2.08	146.43	11,894.9	-235.3	156.2	-231.0	0.00	0.00	0.00
12,000.0	2.08	146.43	11,994.8	-238.4	158.2	-233.9	0.00	0.00	0.00
12,100.0	2.08	146.43	12,094.8	-241.4	160.2	-236.9	0.00	0.00	0.00
12,165.4	2.08	146.43	12,160.1	-243.4	161.5	-238.8	0.00	0.00	0.00
12,175.0	1.28	116.96	12,169.7	-243.6	161.7	-239.0	12.00	-8.33	-307.39
12,200.0	2.66	24.72	12,194.7	-243.2	162.2	-238.6	12.00	5.55	-368.96
12,225.0	5.53	11.34	12,219.6	-241.4	162.7	-236.9	12.00	11.46	-53.49
12,250.0	8.49	7.16	12,244.5	-238.4	163.1	-233.9	12.00	11.83	-16.71
12,275.0	11.47	5.14	12,269.1	-234.1	163.6	-229.5	12.00	11.92	-8.09
12,300.0	14.46	3.94	12,293.4	-228.5	164.0	-223.9	12.00	11.95	-4.79
12,325.0	17.45	3.15	12,317.5	-221.7	164.4	-217.1	12.00	11.97	-3.17
12,350.0	20.44	2.58	12,341.1	-213.6	164.8	-209.0	12.00	11.98	-2.27
12,375.0	23.44	2.16	12,364.3	-204.2	165.2	-199.6	12.00	11.98	-1.71
12,400.0	26.43	1.82	12,387.0	-193.7	165.6	-189.1	12.00	11.99	-1.34
12,425.0	29.43	1.55	12,409.1	-182.0	165.9	-177.4	12.00	11.99	-1.09
12,450.0	32.43	1.32	12,430.5	-169.2	166.2	-164.5	12.00	11.99	-0.90
12,475.0	35.43	1.13	12,451.2	-155.2	166.5	-150.6	12.00	11.99	-0.76
12,500.0	38.43	0.97	12,471.2	-140.2	166.8	-135.6	12.00	11.99	-0.66
12,525.0	41.42	0.82	12,490.4	-124.2	167.1	-119.5	12.00	11.99	-0.58
12,550.0	44.42	0.70	12,508.7	-107.1	167.3	-102.5	12.00	11.99	-0.51
12,575.0	47.42	0.58	12,526.1	-89.2	167.5	-84.5	12.00	12.00	-0.46
12,600.0	50.42	0.48	12,542.5	-70.3	167.7	-65.7	12.00	12.00	-0.42
12,625.0	53.42	0.38	12,557.9	-50.7	167.8	-46.0	12.00	12.00	-0.38
12,650.0	56.42	0.29	12,572.3	-30.2	167.9	-25.6	12.00	12.00	-0.35
12,675.0	59.42	0.21	12,585.6	-9.0	168.0	-4.4	12.00	12.00	-0.33
12,700.0	62.42	0.13	12,597.7	12.8	168.1	17.4	12.00	12.00	-0.31
12,725.0	65.42	0.06	12,608.7	35.3	168.1	39.9	12.00	12.00	-0.29
12,740.8	67.31	0.01	12,615.0	49.8	168.1	54.4	12.00	12.00	-0.28
FTP(MAG 15 #720H)									
12,750.0	68.42	359.99	12,618.5	58.3	168.1	62.9	12.00	12.00	-0.28
12,775.0	71.42	359.92	12,627.1	81.7	168.1	86.3	12.00	12.00	-0.27
12,800.0	74.41	359.86	12,634.4	105.6	168.1	110.2	12.00	12.00	-0.26
12,825.0	77.41	359.79	12,640.5	129.9	168.0	134.5	12.00	12.00	-0.25
12,850.0	80.41	359.73	12,645.3	154.4	167.9	159.0	12.00	12.00	-0.25
12,875.0	83.41	359.67	12,648.8	179.2	167.8	183.7	12.00	12.00	-0.24
12,900.0	86.41	359.61	12,651.1	204.1	167.6	208.6	12.00	12.00	-0.24
12,925.0	89.41	359.55	12,652.0	229.0	167.4	233.6	12.00	12.00	-0.24
12,929.9	90.00	359.54	12,652.0	233.9	167.4	238.5	12.00	12.00	-0.24
13,000.0	90.00	359.54	12,652.0	304.0	166.8	308.5	0.00	0.00	0.00
13,100.0	90.00	359.54	12,652.0	404.0	166.0	408.5	0.00	0.00	0.00
13,200.0	90.00	359.54	12,652.0	504.0	165.2	508.4	0.00	0.00	0.00
13,300.0	90.00	359.54	12,652.0	604.0	164.4	608.3	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #720H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #720H
 TVD Reference: KB = 25 @ 3311.0usft
 MD Reference: KB = 25 @ 3311.0usft
 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	359.54	12,652.0	704.0	163.6	708.3	0.00	0.00	0.00
13,500.0	90.00	359.54	12,652.0	804.0	162.8	808.2	0.00	0.00	0.00
13,600.0	90.00	359.54	12,652.0	904.0	162.0	908.1	0.00	0.00	0.00
13,700.0	90.00	359.54	12,652.0	1,004.0	161.2	1,008.1	0.00	0.00	0.00
13,800.0	90.00	359.54	12,652.0	1,104.0	160.4	1,108.0	0.00	0.00	0.00
13,900.0	90.00	359.54	12,652.0	1,204.0	159.6	1,207.9	0.00	0.00	0.00
14,000.0	90.00	359.54	12,652.0	1,304.0	158.8	1,307.9	0.00	0.00	0.00
14,100.0	90.00	359.54	12,652.0	1,404.0	158.0	1,407.8	0.00	0.00	0.00
14,200.0	90.00	359.54	12,652.0	1,504.0	157.2	1,507.8	0.00	0.00	0.00
14,300.0	90.00	359.54	12,652.0	1,604.0	156.4	1,607.7	0.00	0.00	0.00
14,400.0	90.00	359.54	12,652.0	1,704.0	155.6	1,707.6	0.00	0.00	0.00
14,500.0	90.00	359.54	12,652.0	1,804.0	154.8	1,807.6	0.00	0.00	0.00
14,600.0	90.00	359.54	12,652.0	1,904.0	154.0	1,907.5	0.00	0.00	0.00
14,700.0	90.00	359.54	12,652.0	2,004.0	153.1	2,007.4	0.00	0.00	0.00
14,800.0	90.00	359.54	12,652.0	2,104.0	152.3	2,107.4	0.00	0.00	0.00
14,900.0	90.00	359.54	12,652.0	2,204.0	151.5	2,207.3	0.00	0.00	0.00
15,000.0	90.00	359.54	12,652.0	2,304.0	150.7	2,307.3	0.00	0.00	0.00
15,100.0	90.00	359.54	12,652.0	2,404.0	149.9	2,407.2	0.00	0.00	0.00
15,200.0	90.00	359.54	12,652.0	2,504.0	149.1	2,507.1	0.00	0.00	0.00
15,300.0	90.00	359.54	12,652.0	2,604.0	148.3	2,607.1	0.00	0.00	0.00
15,400.0	90.00	359.54	12,652.0	2,704.0	147.5	2,707.0	0.00	0.00	0.00
15,500.0	90.00	359.54	12,652.0	2,804.0	146.7	2,806.9	0.00	0.00	0.00
15,600.0	90.00	359.54	12,652.0	2,904.0	145.9	2,906.9	0.00	0.00	0.00
15,700.0	90.00	359.54	12,652.0	3,004.0	145.1	3,006.8	0.00	0.00	0.00
15,800.0	90.00	359.54	12,652.0	3,103.9	144.3	3,106.7	0.00	0.00	0.00
15,900.0	90.00	359.54	12,652.0	3,203.9	143.5	3,206.7	0.00	0.00	0.00
16,000.0	90.00	359.54	12,652.0	3,303.9	142.7	3,306.6	0.00	0.00	0.00
16,100.0	90.00	359.54	12,652.0	3,403.9	141.9	3,406.6	0.00	0.00	0.00
16,200.0	90.00	359.54	12,652.0	3,503.9	141.1	3,506.5	0.00	0.00	0.00
16,300.0	90.00	359.54	12,652.0	3,603.9	140.3	3,606.4	0.00	0.00	0.00
16,400.0	90.00	359.54	12,652.0	3,703.9	139.5	3,706.4	0.00	0.00	0.00
16,500.0	90.00	359.54	12,652.0	3,803.9	138.7	3,806.3	0.00	0.00	0.00
16,600.0	90.00	359.54	12,652.0	3,903.9	137.9	3,906.2	0.00	0.00	0.00
16,700.0	90.00	359.54	12,652.0	4,003.9	137.1	4,006.2	0.00	0.00	0.00
16,800.0	90.00	359.54	12,652.0	4,103.9	136.2	4,106.1	0.00	0.00	0.00
16,900.0	90.00	359.54	12,652.0	4,203.9	135.4	4,206.0	0.00	0.00	0.00
17,000.0	90.00	359.54	12,652.0	4,303.9	134.6	4,306.0	0.00	0.00	0.00
17,100.0	90.00	359.54	12,652.0	4,403.9	133.8	4,405.9	0.00	0.00	0.00
17,200.0	90.00	359.54	12,652.0	4,503.9	133.0	4,505.9	0.00	0.00	0.00
17,300.0	90.00	359.54	12,652.0	4,603.9	132.2	4,605.8	0.00	0.00	0.00
17,400.0	90.00	359.54	12,652.0	4,703.9	131.4	4,705.7	0.00	0.00	0.00
17,452.1	90.00	359.54	12,652.0	4,756.0	131.0	4,757.8	0.00	0.00	0.00

PBHL(MAG 15 #720H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #720H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #720H
TVD Reference: KB = 25 @ 3311.0usft
MD Reference: KB = 25 @ 3311.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(MAG 15 #720H) - plan misses target center by 40.2usft at 12740.8usft MD (12615.0 TVD, 49.8 N, 168.1 E) - Point	0.00	0.00	12,652.0	34.0	169.0	378,089.00	778,929.00	32° 2' 13.662 N	103° 33' 59.690 W
PBHL(MAG 15 #720H) - plan hits target center - Point	0.00	0.00	12,652.0	4,756.0	131.0	382,811.00	778,891.00	32° 3' 0.391 N	103° 33' 59.742 W