

HOBBS OCD

MAR 05 2018

RECEIVED



Lea County, NM (NAD 83 NME)

Magnolia 15 #740H

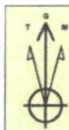
Plan #0.1

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: #740H

Mean Sea Level (System) Latitude Longitude
 Northing 378088.00 Easting 778760.00 32° 2' 13.664 N 103° 34' 1.653 W



Azimuths to Grid North
 True North: -8.41°
 Magnetic North: 8.48°

Magnetic Field
 Strength: 47780.4 nT
 Dip Angle: 69.88°
 Date: 3/1/2018
 Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 8.48°
 To convert a Magnetic Direction to a True Direction, Add 8.86° East
 To convert a True Direction to a Grid Direction, Subtract 8.41°

SECTION DETAILS

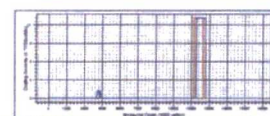
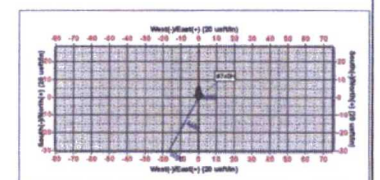
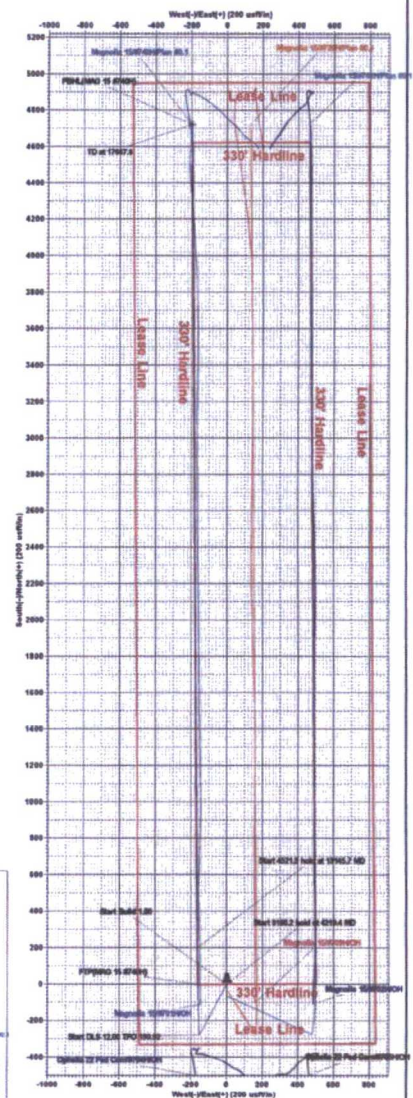
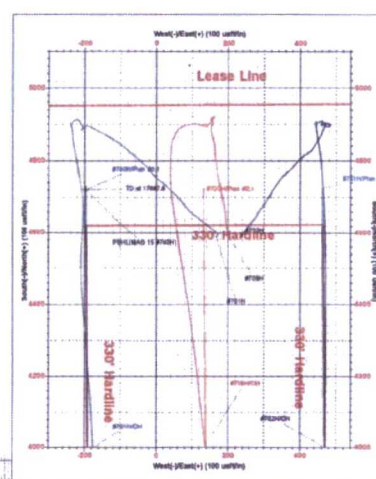
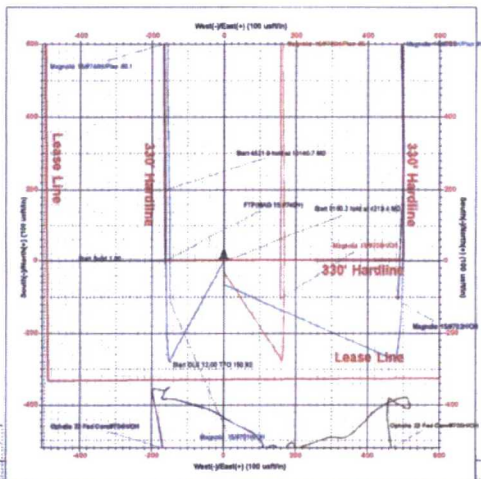
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4219.4	2.19	208.65	4219.4	-3.7	-2.0	1.00	208.65	-3.6	
4	12379.7	2.19	208.65	12373.5	-277.9	-151.8	0.00	0.00	-271.3	
5	13148.7	90.00	359.59	12867.0	199.2	-164.4	12.00	190.92	205.9	
6	17667.6	90.00	359.59	12867.0	4721.0	-197.0	0.00	0.00	4725.1	PBHL(MAG 15 #740H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(MAG 15 #740H)	12867.0	-1.9	-163.0	378087.00	778697.00
PBHL(MAG 15 #740H)	12867.0	4721.0	-187.0	382899.00	778683.00



Lea County, NM (NAD 83 NME)
 Magnolia 15 #740H
 Plan #0.1



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15

#740H

OH

Plan: Plan #0.1

Standard Planning Report

01 March, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #740H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #740H
TVD Reference: Mean Sea Level (System)
MD Reference: Mean Sea Level (System)
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 Magnolia 15
Site Position: Northing: 378,055.00 usft Latitude: 32° 2' 13.337 N
From: Map Easting: 778,760.00 usft Longitude: 103° 34' 1.656 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.41 °

Well #740H
Well Position +N/-S 33.0 usft Northing: 378,088.00 usft Latitude: 32° 2' 13.664 N
 +E/-W 0.0 usft Easting: 778,760.00 usft Longitude: 103° 34' 1.653 W
Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level:

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/1/2018	6.86	59.88	47,780.40762830

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 0.0 357.61

Plan Survey Tool Program Date 3/1/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,667.6 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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,219.4	2.19	208.65	4,219.4	-3.7	-2.0	1.00	1.00	0.00	208.65	
12,379.7	2.19	208.65	12,373.6	-277.9	-151.8	0.00	0.00	0.00	0.00	
13,145.7	90.00	359.59	12,867.0	199.2	-164.4	12.00	11.46	19.71	150.92	
17,667.6	90.00	359.59	12,867.0	4,721.0	-197.0	0.00	0.00	0.00	0.00	PBHL(MAG 15 #740H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #740H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference: Mean Sea Level (System)
MD Reference: Mean Sea Level (System)
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	208.65	4,100.0	-0.8	-0.4	-0.7	1.00	1.00	0.00
4,200.0	2.00	208.65	4,200.0	-3.1	-1.7	-3.0	1.00	1.00	0.00
4,219.4	2.19	208.65	4,219.4	-3.7	-2.0	-3.6	1.00	1.00	0.00
4,300.0	2.19	208.65	4,299.9	-6.4	-3.5	-6.2	0.00	0.00	0.00
4,400.0	2.19	208.65	4,399.8	-9.8	-5.3	-9.5	0.00	0.00	0.00
4,500.0	2.19	208.65	4,499.7	-13.1	-7.2	-12.8	0.00	0.00	0.00
4,600.0	2.19	208.65	4,599.7	-16.5	-9.0	-16.1	0.00	0.00	0.00
4,700.0	2.19	208.65	4,699.6	-19.8	-10.8	-19.4	0.00	0.00	0.00
4,800.0	2.19	208.65	4,799.5	-23.2	-12.7	-22.6	0.00	0.00	0.00
4,900.0	2.19	208.65	4,899.4	-26.6	-14.5	-25.9	0.00	0.00	0.00
5,000.0	2.19	208.65	4,999.4	-29.9	-16.3	-29.2	0.00	0.00	0.00
5,100.0	2.19	208.65	5,099.3	-33.3	-18.2	-32.5	0.00	0.00	0.00
5,200.0	2.19	208.65	5,199.2	-36.6	-20.0	-35.8	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: #740H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
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MD Reference: Mean Sea Level (System)
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	2.19	208.65	5,299.2	-40.0	-21.9	-39.1	0.00	0.00	0.00
5,400.0	2.19	208.65	5,399.1	-43.4	-23.7	-42.3	0.00	0.00	0.00
5,500.0	2.19	208.65	5,499.0	-46.7	-25.5	-45.6	0.00	0.00	0.00
5,600.0	2.19	208.65	5,598.9	-50.1	-27.4	-48.9	0.00	0.00	0.00
5,700.0	2.19	208.65	5,698.9	-53.4	-29.2	-52.2	0.00	0.00	0.00
5,800.0	2.19	208.65	5,798.8	-56.8	-31.0	-55.5	0.00	0.00	0.00
5,900.0	2.19	208.65	5,898.7	-60.2	-32.9	-58.7	0.00	0.00	0.00
6,000.0	2.19	208.65	5,998.6	-63.5	-34.7	-62.0	0.00	0.00	0.00
6,100.0	2.19	208.65	6,098.6	-66.9	-36.5	-65.3	0.00	0.00	0.00
6,200.0	2.19	208.65	6,198.5	-70.2	-38.4	-68.6	0.00	0.00	0.00
6,300.0	2.19	208.65	6,298.4	-73.6	-40.2	-71.9	0.00	0.00	0.00
6,400.0	2.19	208.65	6,398.3	-77.0	-42.0	-75.1	0.00	0.00	0.00
6,500.0	2.19	208.65	6,498.3	-80.3	-43.9	-78.4	0.00	0.00	0.00
6,600.0	2.19	208.65	6,598.2	-83.7	-45.7	-81.7	0.00	0.00	0.00
6,700.0	2.19	208.65	6,698.1	-87.0	-47.6	-85.0	0.00	0.00	0.00
6,800.0	2.19	208.65	6,798.1	-90.4	-49.4	-88.3	0.00	0.00	0.00
6,900.0	2.19	208.65	6,898.0	-93.8	-51.2	-91.5	0.00	0.00	0.00
7,000.0	2.19	208.65	6,997.9	-97.1	-53.1	-94.8	0.00	0.00	0.00
7,100.0	2.19	208.65	7,097.8	-100.5	-54.9	-98.1	0.00	0.00	0.00
7,200.0	2.19	208.65	7,197.8	-103.8	-56.7	-101.4	0.00	0.00	0.00
7,300.0	2.19	208.65	7,297.7	-107.2	-58.6	-104.7	0.00	0.00	0.00
7,400.0	2.19	208.65	7,397.6	-110.6	-60.4	-107.9	0.00	0.00	0.00
7,500.0	2.19	208.65	7,497.5	-113.9	-62.2	-111.2	0.00	0.00	0.00
7,600.0	2.19	208.65	7,597.5	-117.3	-64.1	-114.5	0.00	0.00	0.00
7,700.0	2.19	208.65	7,697.4	-120.6	-65.9	-117.8	0.00	0.00	0.00
7,800.0	2.19	208.65	7,797.3	-124.0	-67.7	-121.1	0.00	0.00	0.00
7,900.0	2.19	208.65	7,897.2	-127.4	-69.6	-124.4	0.00	0.00	0.00
8,000.0	2.19	208.65	7,997.2	-130.7	-71.4	-127.6	0.00	0.00	0.00
8,100.0	2.19	208.65	8,097.1	-134.1	-73.3	-130.9	0.00	0.00	0.00
8,200.0	2.19	208.65	8,197.0	-137.4	-75.1	-134.2	0.00	0.00	0.00
8,300.0	2.19	208.65	8,297.0	-140.8	-76.9	-137.5	0.00	0.00	0.00
8,400.0	2.19	208.65	8,396.9	-144.2	-78.8	-140.8	0.00	0.00	0.00
8,500.0	2.19	208.65	8,496.8	-147.5	-80.6	-144.0	0.00	0.00	0.00
8,600.0	2.19	208.65	8,596.7	-150.9	-82.4	-147.3	0.00	0.00	0.00
8,700.0	2.19	208.65	8,696.7	-154.2	-84.3	-150.6	0.00	0.00	0.00
8,800.0	2.19	208.65	8,796.6	-157.6	-86.1	-153.9	0.00	0.00	0.00
8,900.0	2.19	208.65	8,896.5	-161.0	-87.9	-157.2	0.00	0.00	0.00
9,000.0	2.19	208.65	8,996.4	-164.3	-89.8	-160.4	0.00	0.00	0.00
9,100.0	2.19	208.65	9,096.4	-167.7	-91.6	-163.7	0.00	0.00	0.00
9,200.0	2.19	208.65	9,196.3	-171.1	-93.4	-167.0	0.00	0.00	0.00
9,300.0	2.19	208.65	9,296.2	-174.4	-95.3	-170.3	0.00	0.00	0.00
9,400.0	2.19	208.65	9,396.1	-177.8	-97.1	-173.6	0.00	0.00	0.00
9,500.0	2.19	208.65	9,496.1	-181.1	-99.0	-176.8	0.00	0.00	0.00
9,600.0	2.19	208.65	9,596.0	-184.5	-100.8	-180.1	0.00	0.00	0.00
9,700.0	2.19	208.65	9,695.9	-187.9	-102.6	-183.4	0.00	0.00	0.00
9,800.0	2.19	208.65	9,795.9	-191.2	-104.5	-186.7	0.00	0.00	0.00
9,900.0	2.19	208.65	9,895.8	-194.6	-106.3	-190.0	0.00	0.00	0.00
10,000.0	2.19	208.65	9,995.7	-197.9	-108.1	-193.3	0.00	0.00	0.00
10,100.0	2.19	208.65	10,095.6	-201.3	-110.0	-196.5	0.00	0.00	0.00
10,200.0	2.19	208.65	10,195.6	-204.7	-111.8	-199.8	0.00	0.00	0.00
10,300.0	2.19	208.65	10,295.5	-208.0	-113.6	-203.1	0.00	0.00	0.00
10,400.0	2.19	208.65	10,395.4	-211.4	-115.5	-206.4	0.00	0.00	0.00
10,500.0	2.19	208.65	10,495.3	-214.7	-117.3	-209.7	0.00	0.00	0.00
10,600.0	2.19	208.65	10,595.3	-218.1	-119.2	-212.9	0.00	0.00	0.00



Planning Report

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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	2.19	208.65	10,695.2	-221.5	-121.0	-216.2	0.00	0.00	0.00
10,800.0	2.19	208.65	10,795.1	-224.8	-122.8	-219.5	0.00	0.00	0.00
10,900.0	2.19	208.65	10,895.0	-228.2	-124.7	-222.8	0.00	0.00	0.00
11,000.0	2.19	208.65	10,995.0	-231.5	-126.5	-226.1	0.00	0.00	0.00
11,100.0	2.19	208.65	11,094.9	-234.9	-128.3	-229.3	0.00	0.00	0.00
11,200.0	2.19	208.65	11,194.8	-238.3	-130.2	-232.6	0.00	0.00	0.00
11,300.0	2.19	208.65	11,294.8	-241.6	-132.0	-235.9	0.00	0.00	0.00
11,400.0	2.19	208.65	11,394.7	-245.0	-133.8	-239.2	0.00	0.00	0.00
11,500.0	2.19	208.65	11,494.6	-248.3	-135.7	-242.5	0.00	0.00	0.00
11,600.0	2.19	208.65	11,594.5	-251.7	-137.5	-245.7	0.00	0.00	0.00
11,700.0	2.19	208.65	11,694.5	-255.1	-139.3	-249.0	0.00	0.00	0.00
11,800.0	2.19	208.65	11,794.4	-258.4	-141.2	-252.3	0.00	0.00	0.00
11,900.0	2.19	208.65	11,894.3	-261.8	-143.0	-255.6	0.00	0.00	0.00
12,000.0	2.19	208.65	11,994.2	-265.1	-144.9	-258.9	0.00	0.00	0.00
12,100.0	2.19	208.65	12,094.2	-268.5	-146.7	-262.2	0.00	0.00	0.00
12,200.0	2.19	208.65	12,194.1	-271.9	-148.5	-265.4	0.00	0.00	0.00
12,300.0	2.19	208.65	12,294.0	-275.2	-150.4	-268.7	0.00	0.00	0.00
12,379.7	2.19	208.65	12,373.6	-277.9	-151.8	-271.3	0.00	0.00	0.00
12,400.0	1.19	295.61	12,394.0	-278.1	-152.2	-271.6	12.00	-4.96	427.92
12,425.0	3.68	342.76	12,418.9	-277.3	-152.7	-270.7	12.00	9.97	188.59
12,450.0	6.61	350.34	12,443.8	-275.1	-153.1	-268.5	12.00	11.71	30.33
12,475.0	9.58	353.26	12,468.6	-271.6	-153.6	-265.0	12.00	11.89	11.66
12,500.0	12.57	354.80	12,493.1	-266.8	-154.1	-260.2	12.00	11.94	6.17
12,525.0	15.56	355.75	12,517.4	-260.8	-154.6	-254.1	12.00	11.96	3.83
12,550.0	18.55	356.41	12,541.3	-253.5	-155.1	-246.8	12.00	11.98	2.62
12,575.0	21.55	356.89	12,564.7	-244.9	-155.6	-238.2	12.00	11.98	1.91
12,600.0	24.54	357.25	12,587.7	-235.1	-156.1	-228.4	12.00	11.99	1.46
12,625.0	27.54	357.54	12,610.2	-224.2	-156.6	-217.4	12.00	11.99	1.16
12,650.0	30.54	357.78	12,632.1	-212.0	-157.1	-205.3	12.00	11.99	0.95
12,675.0	33.54	357.98	12,653.2	-198.8	-157.6	-192.1	12.00	11.99	0.80
12,700.0	36.53	358.15	12,673.7	-184.5	-158.1	-177.7	12.00	11.99	0.68
12,725.0	39.53	358.30	12,693.4	-169.1	-158.6	-162.3	12.00	11.99	0.59
12,750.0	42.53	358.42	12,712.3	-152.7	-159.0	-145.9	12.00	12.00	0.52
12,775.0	45.53	358.54	12,730.2	-135.3	-159.5	-128.5	12.00	12.00	0.46
12,800.0	48.53	358.64	12,747.3	-117.0	-159.9	-110.2	12.00	12.00	0.42
12,825.0	51.53	358.74	12,763.3	-97.9	-160.4	-91.1	12.00	12.00	0.38
12,850.0	54.53	358.83	12,778.4	-77.9	-160.8	-71.1	12.00	12.00	0.35
12,875.0	57.53	358.91	12,792.3	-57.2	-161.2	-50.4	12.00	12.00	0.32
12,900.0	60.53	358.98	12,805.2	-35.7	-161.6	-29.0	12.00	12.00	0.30
12,925.0	63.53	359.06	12,816.9	-13.7	-162.0	-6.9	12.00	12.00	0.29
12,950.0	66.52	359.12	12,827.5	9.0	-162.3	15.8	12.00	12.00	0.27
12,955.5	67.19	359.14	12,829.6	14.1	-162.4	20.8	12.00	12.00	0.26
FTP(MAG 15 #740H)									
12,975.0	69.52	359.19	12,836.8	32.2	-162.7	38.9	12.00	12.00	0.26
13,000.0	72.52	359.25	12,845.0	55.8	-163.0	62.6	12.00	12.00	0.25
13,025.0	75.52	359.31	12,851.8	79.8	-163.3	86.6	12.00	12.00	0.24
13,050.0	78.52	359.37	12,857.5	104.2	-163.6	110.9	12.00	12.00	0.24
13,075.0	81.52	359.43	12,861.8	128.8	-163.8	135.5	12.00	12.00	0.23
13,100.0	84.52	359.49	12,864.8	153.6	-164.1	160.3	12.00	12.00	0.23
13,125.0	87.52	359.54	12,866.6	178.6	-164.3	185.3	12.00	12.00	0.22
13,145.7	90.00	359.59	12,867.0	199.2	-164.4	205.9	12.00	12.00	0.22
13,200.0	90.00	359.59	12,867.0	253.6	-164.8	260.2	0.00	0.00	0.00
13,300.0	90.00	359.59	12,867.0	353.6	-165.6	360.2	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: #740H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #740H
 TVD Reference: Mean Sea Level (System)
 MD Reference: Mean Sea Level (System)
 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	359.59	12,867.0	453.6	-166.3	460.1	0.00	0.00	0.00
13,500.0	90.00	359.59	12,867.0	553.6	-167.0	560.0	0.00	0.00	0.00
13,600.0	90.00	359.59	12,867.0	653.5	-167.7	660.0	0.00	0.00	0.00
13,700.0	90.00	359.59	12,867.0	753.5	-168.4	759.9	0.00	0.00	0.00
13,800.0	90.00	359.59	12,867.0	853.5	-169.2	859.9	0.00	0.00	0.00
13,900.0	90.00	359.59	12,867.0	953.5	-169.9	959.8	0.00	0.00	0.00
14,000.0	90.00	359.59	12,867.0	1,053.5	-170.6	1,059.7	0.00	0.00	0.00
14,100.0	90.00	359.59	12,867.0	1,153.5	-171.3	1,159.7	0.00	0.00	0.00
14,200.0	90.00	359.59	12,867.0	1,253.5	-172.0	1,259.6	0.00	0.00	0.00
14,300.0	90.00	359.59	12,867.0	1,353.5	-172.8	1,359.6	0.00	0.00	0.00
14,400.0	90.00	359.59	12,867.0	1,453.5	-173.5	1,459.5	0.00	0.00	0.00
14,500.0	90.00	359.59	12,867.0	1,553.5	-174.2	1,559.4	0.00	0.00	0.00
14,600.0	90.00	359.59	12,867.0	1,653.5	-174.9	1,659.4	0.00	0.00	0.00
14,700.0	90.00	359.59	12,867.0	1,753.5	-175.6	1,759.3	0.00	0.00	0.00
14,800.0	90.00	359.59	12,867.0	1,853.5	-176.4	1,859.3	0.00	0.00	0.00
14,900.0	90.00	359.59	12,867.0	1,953.5	-177.1	1,959.2	0.00	0.00	0.00
15,000.0	90.00	359.59	12,867.0	2,053.5	-177.8	2,059.1	0.00	0.00	0.00
15,100.0	90.00	359.59	12,867.0	2,153.5	-178.5	2,159.1	0.00	0.00	0.00
15,200.0	90.00	359.59	12,867.0	2,253.5	-179.2	2,259.0	0.00	0.00	0.00
15,300.0	90.00	359.59	12,867.0	2,353.5	-180.0	2,359.0	0.00	0.00	0.00
15,400.0	90.00	359.59	12,867.0	2,453.5	-180.7	2,458.9	0.00	0.00	0.00
15,500.0	90.00	359.59	12,867.0	2,553.5	-181.4	2,558.8	0.00	0.00	0.00
15,600.0	90.00	359.59	12,867.0	2,653.5	-182.1	2,658.8	0.00	0.00	0.00
15,700.0	90.00	359.59	12,867.0	2,753.5	-182.8	2,758.7	0.00	0.00	0.00
15,800.0	90.00	359.59	12,867.0	2,853.5	-183.6	2,858.7	0.00	0.00	0.00
15,900.0	90.00	359.59	12,867.0	2,953.5	-184.3	2,958.6	0.00	0.00	0.00
16,000.0	90.00	359.59	12,867.0	3,053.5	-185.0	3,058.5	0.00	0.00	0.00
16,100.0	90.00	359.59	12,867.0	3,153.5	-185.7	3,158.5	0.00	0.00	0.00
16,200.0	90.00	359.59	12,867.0	3,253.5	-186.4	3,258.4	0.00	0.00	0.00
16,300.0	90.00	359.59	12,867.0	3,353.5	-187.2	3,358.4	0.00	0.00	0.00
16,400.0	90.00	359.59	12,867.0	3,453.5	-187.9	3,458.3	0.00	0.00	0.00
16,500.0	90.00	359.59	12,867.0	3,553.5	-188.6	3,558.2	0.00	0.00	0.00
16,600.0	90.00	359.59	12,867.0	3,653.5	-189.3	3,658.2	0.00	0.00	0.00
16,700.0	90.00	359.59	12,867.0	3,753.5	-190.0	3,758.1	0.00	0.00	0.00
16,800.0	90.00	359.59	12,867.0	3,853.5	-190.8	3,858.1	0.00	0.00	0.00
16,900.0	90.00	359.59	12,867.0	3,953.5	-191.5	3,958.0	0.00	0.00	0.00
17,000.0	90.00	359.59	12,867.0	4,053.5	-192.2	4,057.9	0.00	0.00	0.00
17,100.0	90.00	359.59	12,867.0	4,153.5	-192.9	4,157.9	0.00	0.00	0.00
17,200.0	90.00	359.59	12,867.0	4,253.5	-193.6	4,257.8	0.00	0.00	0.00
17,300.0	90.00	359.59	12,867.0	4,353.5	-194.4	4,357.8	0.00	0.00	0.00
17,400.0	90.00	359.59	12,867.0	4,453.4	-195.1	4,457.7	0.00	0.00	0.00
17,500.0	90.00	359.59	12,867.0	4,553.4	-195.8	4,557.7	0.00	0.00	0.00
17,600.0	90.00	359.59	12,867.0	4,653.4	-196.5	4,657.6	0.00	0.00	0.00
17,667.6	90.00	359.59	12,867.0	4,721.0	-197.0	4,725.1	0.00	0.00	0.00

PBHL(MAG 15 #740H)



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #740H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #740H
TVD Reference: Mean Sea Level (System)
MD Reference: Mean Sea Level (System)
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
PBHL(MAG 15 #740H) - plan hits target center - Point	0.00	0.00	12,867.0	4,721.0	-197.0	382,809.00	778,563.00	32° 3' 0.394 N	103° 34' 3.553 W
FTP(MAG 15 #740H) - plan misses target center by 40.3usft at 12955.5usft MD (12829.6 TVD, 14.1 N, -162.4 E) - Point	0.00	0.00	12,867.0	-1.0	-163.0	378,087.00	778,597.00	32° 2' 13.665 N	103° 34' 3.547 W