



Lea County, NM (NAD 83 NME)

Magnolia 15 #301H

Plan #0.1



Azimuths to Grid North
True North: -0.41°
Magnetic North: 8.41°

Magnetic Field
Strength: 47718.5mT
Dip Angle: 88.88°
Date: 7/24/2018
Model: IGRF2018

To convert a Magnetic Direction to a Grid Direction, Add 8.41°
To convert a Magnetic Direction to a True Direction, Add 8.82° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

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: #301H

KB = 25 @ 3321.0usR
Northing 378555.00 Easting 779108.00
Latitude 32° 2' 13.315 N Longitude 103° 33' 37.802 W

SECTION DETAILS

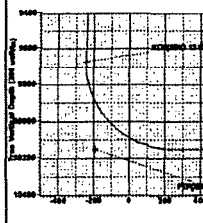
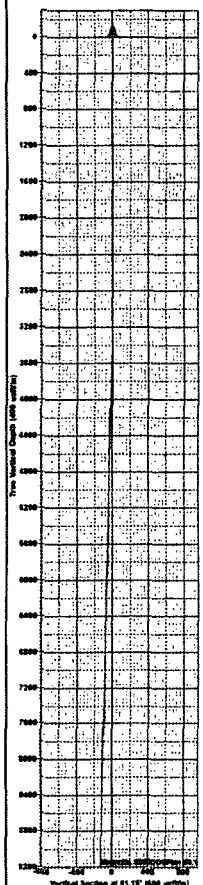
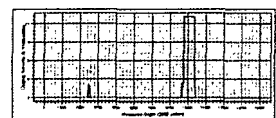
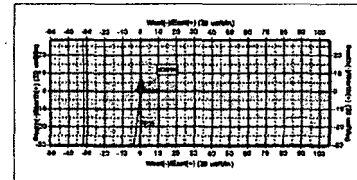
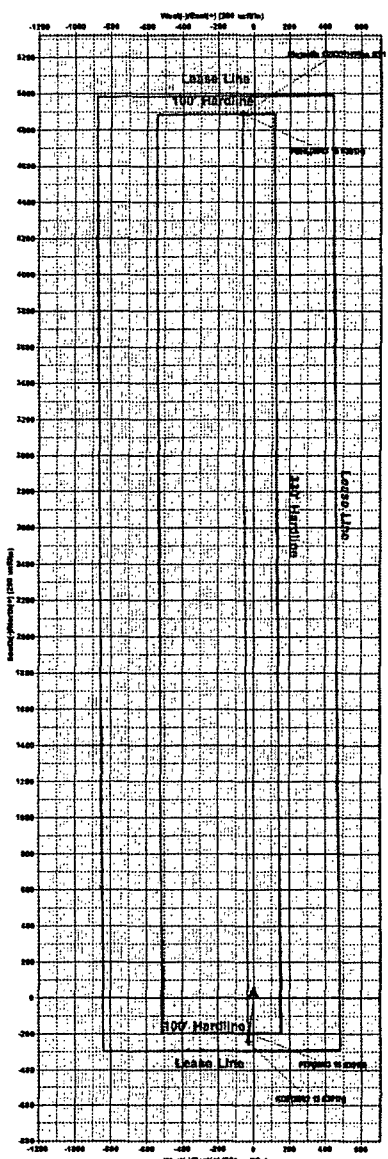
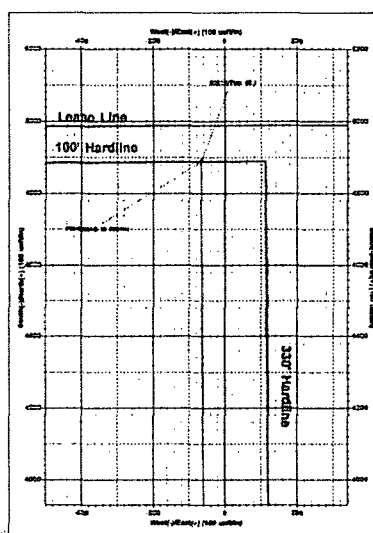
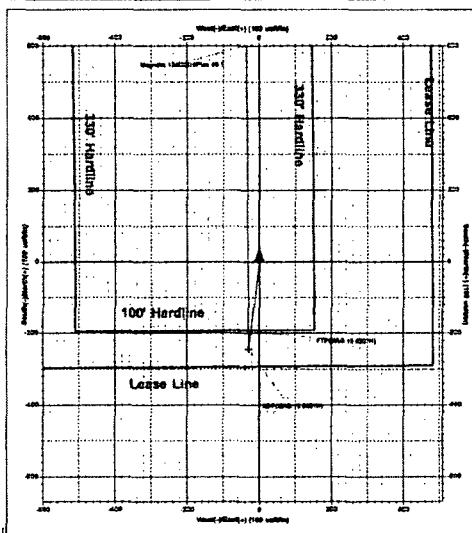
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3107.6	2.15	188.98	3107.6	-2.0	-0.2	2.00	188.98	-2.0	
4	9570.5	2.15	188.98	9585.9	-243.0	-29.8	0.00	0.00	-242.8	KOP(MAG 15 #301H)
5	9678.1	0.00	0.00	9673.5	-245.0	-30.0	2.00	180.00	-244.8	
6	10428.1	90.00	359.59	10151.0	232.4	-33.4	12.00	359.59	232.9	
7	15082.8	90.00	359.59	10151.0	4887.0	-67.0	0.00	0.00	4887.5	PBHL(MAG 15 #301H)

CASING DETAILS

No casing data is available

WELLBORE YARNEY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(MAG 15 #301H)	9673.5	-245.0	-30.0	377910.00	778079.00
FTP(MAG 15 #301H)	10161.0	-186.0	-30.0	377880.00	778079.00
PBHL(MAG 15 #301H)	10161.0	4887.0	-67.0	382842.00	779042.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15

#301H

OH

Plan: Plan #0.1

Standard Planning Report

25 July, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #301H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #301H
TVD Reference: KB = 25 @ 3321.0usft
MD Reference: KB = 25 @ 3321.0usft
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	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	#301H					
Well Position	+N/-S	0.0 usft	Northing:	378,055.00 usft	Latitude:	32° 2' 13.313 N
	+E/-W	349.0 usft	Easting:	779,109.00 usft	Longitude:	103° 33' 57.602 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,296.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/24/2018	6.82	59.88	47,715.45131566

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	359.21	

Plan Survey Tool Program	Date	7/25/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	15,082.8 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	
3,107.6	2.15	186.98	3,107.6	-2.0	-0.2	2.00	2.00	0.00	186.98	
9,570.5	2.15	186.98	9,565.9	-243.0	-29.8	0.00	0.00	0.00	0.00	
9,678.1	0.00	0.00	9,673.5	-245.0	-30.0	2.00	-2.00	0.00	180.00	KOP(MAG 15 #301H)
10,428.1	90.00	359.59	10,151.0	232.4	-33.4	12.00	12.00	-0.06	359.59	
15,082.8	90.00	359.59	10,151.0	4,887.0	-67.0	0.00	0.00	0.00	0.00	PBHL(MAG 15 #301H)



Planning Report

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 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #301H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25 @ 3321.0usft
 MD Reference: KB = 25 @ 3321.0usft
 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
3,107.6	2.15	186.98	3,107.6	-2.0	-0.2	-2.0	2.00	2.00	0.00
3,200.0	2.15	186.98	3,199.9	-5.5	-0.7	-5.4	0.00	0.00	0.00
3,300.0	2.15	186.98	3,299.8	-9.2	-1.1	-9.2	0.00	0.00	0.00
3,400.0	2.15	186.98	3,399.8	-12.9	-1.6	-12.9	0.00	0.00	0.00
3,500.0	2.15	186.98	3,499.7	-16.6	-2.0	-16.6	0.00	0.00	0.00
3,600.0	2.15	186.98	3,599.6	-20.4	-2.5	-20.3	0.00	0.00	0.00
3,700.0	2.15	186.98	3,699.6	-24.1	-3.0	-24.1	0.00	0.00	0.00
3,800.0	2.15	186.98	3,799.5	-27.8	-3.4	-27.8	0.00	0.00	0.00
3,900.0	2.15	186.98	3,899.4	-31.6	-3.9	-31.5	0.00	0.00	0.00
4,000.0	2.15	186.98	3,999.3	-35.3	-4.3	-35.2	0.00	0.00	0.00
4,100.0	2.15	186.98	4,099.3	-39.0	-4.8	-38.9	0.00	0.00	0.00
4,200.0	2.15	186.98	4,199.2	-42.7	-5.2	-42.7	0.00	0.00	0.00
4,300.0	2.15	186.98	4,299.1	-46.5	-5.7	-46.4	0.00	0.00	0.00
4,400.0	2.15	186.98	4,399.1	-50.2	-6.1	-50.1	0.00	0.00	0.00
4,500.0	2.15	186.98	4,499.0	-53.9	-6.6	-53.8	0.00	0.00	0.00
4,600.0	2.15	186.98	4,598.9	-57.7	-7.1	-57.6	0.00	0.00	0.00
4,700.0	2.15	186.98	4,698.9	-61.4	-7.5	-61.3	0.00	0.00	0.00
4,800.0	2.15	186.98	4,798.8	-65.1	-8.0	-65.0	0.00	0.00	0.00
4,900.0	2.15	186.98	4,898.7	-68.8	-8.4	-68.7	0.00	0.00	0.00
5,000.0	2.15	186.98	4,998.6	-72.6	-8.9	-72.4	0.00	0.00	0.00
5,100.0	2.15	186.98	5,098.6	-76.3	-9.3	-76.2	0.00	0.00	0.00
5,200.0	2.15	186.98	5,198.5	-80.0	-9.8	-79.9	0.00	0.00	0.00
5,300.0	2.15	186.98	5,298.4	-83.8	-10.3	-83.6	0.00	0.00	0.00



Planning Report

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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)
5,400.0	2.15	186.98	5,398.4	-87.5	-10.7	-87.3	0.00	0.00	0.00
5,500.0	2.15	186.98	5,498.3	-91.2	-11.2	-91.1	0.00	0.00	0.00
5,600.0	2.15	186.98	5,598.2	-94.9	-11.6	-94.8	0.00	0.00	0.00
5,700.0	2.15	186.98	5,698.1	-98.7	-12.1	-98.5	0.00	0.00	0.00
5,800.0	2.15	186.98	5,798.1	-102.4	-12.5	-102.2	0.00	0.00	0.00
5,900.0	2.15	186.98	5,898.0	-106.1	-13.0	-105.9	0.00	0.00	0.00
6,000.0	2.15	186.98	5,997.9	-109.9	-13.5	-109.7	0.00	0.00	0.00
6,100.0	2.15	186.98	6,097.9	-113.6	-13.9	-113.4	0.00	0.00	0.00
6,200.0	2.15	186.98	6,197.8	-117.3	-14.4	-117.1	0.00	0.00	0.00
6,300.0	2.15	186.98	6,297.7	-121.0	-14.8	-120.8	0.00	0.00	0.00
6,400.0	2.15	186.98	6,397.7	-124.8	-15.3	-124.6	0.00	0.00	0.00
6,500.0	2.15	186.98	6,497.6	-128.5	-15.7	-128.3	0.00	0.00	0.00
6,600.0	2.15	186.98	6,597.5	-132.2	-16.2	-132.0	0.00	0.00	0.00
6,700.0	2.15	186.98	6,697.4	-136.0	-16.6	-135.7	0.00	0.00	0.00
6,800.0	2.15	186.98	6,797.4	-139.7	-17.1	-139.4	0.00	0.00	0.00
6,900.0	2.15	186.98	6,897.3	-143.4	-17.6	-143.2	0.00	0.00	0.00
7,000.0	2.15	186.98	6,997.2	-147.1	-18.0	-146.9	0.00	0.00	0.00
7,100.0	2.15	186.98	7,097.2	-150.9	-18.5	-150.6	0.00	0.00	0.00
7,200.0	2.15	186.98	7,197.1	-154.6	-18.9	-154.3	0.00	0.00	0.00
7,300.0	2.15	186.98	7,297.0	-158.3	-19.4	-158.1	0.00	0.00	0.00
7,400.0	2.15	186.98	7,396.9	-162.1	-19.8	-161.8	0.00	0.00	0.00
7,500.0	2.15	186.98	7,496.9	-165.8	-20.3	-165.5	0.00	0.00	0.00
7,600.0	2.15	186.98	7,596.8	-169.5	-20.8	-169.2	0.00	0.00	0.00
7,700.0	2.15	186.98	7,696.7	-173.2	-21.2	-172.9	0.00	0.00	0.00
7,800.0	2.15	186.98	7,796.7	-177.0	-21.7	-176.7	0.00	0.00	0.00
7,900.0	2.15	186.98	7,896.6	-180.7	-22.1	-180.4	0.00	0.00	0.00
8,000.0	2.15	186.98	7,996.5	-184.4	-22.6	-184.1	0.00	0.00	0.00
8,100.0	2.15	186.98	8,096.5	-188.2	-23.0	-187.8	0.00	0.00	0.00
8,200.0	2.15	186.98	8,196.4	-191.9	-23.5	-191.6	0.00	0.00	0.00
8,300.0	2.15	186.98	8,296.3	-195.6	-24.0	-195.3	0.00	0.00	0.00
8,400.0	2.15	186.98	8,396.2	-199.3	-24.4	-199.0	0.00	0.00	0.00
8,500.0	2.15	186.98	8,496.2	-203.1	-24.9	-202.7	0.00	0.00	0.00
8,600.0	2.15	186.98	8,596.1	-206.8	-25.3	-206.4	0.00	0.00	0.00
8,700.0	2.15	186.98	8,696.0	-210.5	-25.8	-210.2	0.00	0.00	0.00
8,800.0	2.15	186.98	8,796.0	-214.3	-26.2	-213.9	0.00	0.00	0.00
8,900.0	2.15	186.98	8,895.9	-218.0	-26.7	-217.6	0.00	0.00	0.00
9,000.0	2.15	186.98	8,995.8	-221.7	-27.1	-221.3	0.00	0.00	0.00
9,100.0	2.15	186.98	9,095.7	-225.5	-27.6	-225.1	0.00	0.00	0.00
9,200.0	2.15	186.98	9,195.7	-229.2	-28.1	-228.8	0.00	0.00	0.00
9,300.0	2.15	186.98	9,295.6	-232.9	-28.5	-232.5	0.00	0.00	0.00
9,400.0	2.15	186.98	9,395.5	-236.6	-29.0	-236.2	0.00	0.00	0.00
9,500.0	2.15	186.98	9,495.5	-240.4	-29.4	-239.9	0.00	0.00	0.00
9,570.5	2.15	186.98	9,565.9	-243.0	-29.8	-242.6	0.00	0.00	0.00
9,600.0	1.56	186.98	9,595.4	-243.9	-29.9	-243.5	2.00	-2.00	0.00
9,678.1	0.00	0.00	9,673.5	-245.0	-30.0	-244.6	2.00	-2.00	0.00
KOP(MAG 15 #301H)									
9,700.0	2.63	359.59	9,695.4	-244.5	-30.0	-244.1	12.00	12.00	0.00
9,725.0	5.63	359.59	9,720.3	-242.7	-30.0	-242.3	12.00	12.00	0.00
9,750.0	8.63	359.59	9,745.1	-239.6	-30.0	-239.2	12.00	12.00	0.00
9,775.0	11.63	359.59	9,769.7	-235.2	-30.1	-234.8	12.00	12.00	0.00
9,800.0	14.63	359.59	9,794.1	-229.5	-30.1	-229.1	12.00	12.00	0.00
9,825.0	17.63	359.59	9,818.1	-222.6	-30.2	-222.1	12.00	12.00	0.00
9,850.0	20.63	359.59	9,841.7	-214.4	-30.2	-214.0	12.00	12.00	0.00



Planning Report

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 Wellbore: OH
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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)
9,875.0	23.63	359.59	9,864.9	-205.0	-30.3	-204.5	12.00	12.00	0.00
9,900.0	26.63	359.59	9,887.5	-194.4	-30.4	-193.9	12.00	12.00	0.00
9,925.0	29.63	359.59	9,909.5	-182.6	-30.5	-182.1	12.00	12.00	0.00
9,950.0	32.63	359.59	9,930.9	-169.7	-30.5	-169.2	12.00	12.00	0.00
9,975.0	35.63	359.59	9,951.6	-155.6	-30.6	-155.2	12.00	12.00	0.00
10,000.0	38.63	359.59	9,971.6	-140.5	-30.8	-140.1	12.00	12.00	0.00
10,025.0	41.63	359.59	9,990.7	-124.4	-30.9	-124.0	12.00	12.00	0.00
10,050.0	44.63	359.59	10,008.9	-107.4	-31.0	-106.9	12.00	12.00	0.00
10,075.0	47.63	359.59	10,026.2	-89.3	-31.1	-88.9	12.00	12.00	0.00
10,076.7	47.84	359.59	10,027.4	-88.0	-31.1	-87.6	12.00	12.00	0.00
FTP(MAG 15 #301H)									
10,100.0	50.63	359.59	10,042.6	-70.4	-31.3	-70.0	12.00	12.00	0.00
10,125.0	53.63	359.59	10,057.9	-50.7	-31.4	-50.3	12.00	12.00	0.00
10,150.0	56.63	359.59	10,072.2	-30.2	-31.5	-29.8	12.00	12.00	0.00
10,175.0	59.63	359.59	10,085.4	-9.0	-31.7	-8.5	12.00	12.00	0.00
10,200.0	62.63	359.59	10,097.5	12.9	-31.9	13.4	12.00	12.00	0.00
10,225.0	65.63	359.59	10,108.4	35.4	-32.0	35.9	12.00	12.00	0.00
10,250.0	68.63	359.59	10,118.1	58.4	-32.2	58.9	12.00	12.00	0.00
10,275.0	71.63	359.59	10,126.6	82.0	-32.4	82.4	12.00	12.00	0.00
10,300.0	74.63	359.59	10,133.9	105.9	-32.5	106.3	12.00	12.00	0.00
10,325.0	77.63	359.59	10,139.9	130.1	-32.7	130.6	12.00	12.00	0.00
10,350.0	80.63	359.59	10,144.6	154.7	-32.9	155.1	12.00	12.00	0.00
10,375.0	83.63	359.59	10,148.0	179.5	-33.1	179.9	12.00	12.00	0.00
10,400.0	86.63	359.59	10,150.1	204.4	-33.2	204.8	12.00	12.00	0.00
10,425.0	89.63	359.59	10,151.0	229.3	-33.4	229.8	12.00	12.00	0.00
10,428.1	90.00	359.59	10,151.0	232.4	-33.4	232.9	12.00	12.00	0.00
10,500.0	90.00	359.59	10,151.0	304.3	-34.0	304.8	0.00	0.00	0.00
10,600.0	90.00	359.59	10,151.0	404.3	-34.7	404.8	0.00	0.00	0.00
10,700.0	90.00	359.59	10,151.0	504.3	-35.4	504.8	0.00	0.00	0.00
10,800.0	90.00	359.59	10,151.0	604.3	-36.1	604.8	0.00	0.00	0.00
10,900.0	90.00	359.59	10,151.0	704.3	-36.8	704.8	0.00	0.00	0.00
11,000.0	90.00	359.59	10,151.0	804.3	-37.6	804.8	0.00	0.00	0.00
11,100.0	90.00	359.59	10,151.0	904.3	-38.3	904.8	0.00	0.00	0.00
11,200.0	90.00	359.59	10,151.0	1,004.3	-39.0	1,004.8	0.00	0.00	0.00
11,300.0	90.00	359.59	10,151.0	1,104.3	-39.7	1,104.8	0.00	0.00	0.00
11,400.0	90.00	359.59	10,151.0	1,204.3	-40.4	1,204.8	0.00	0.00	0.00
11,500.0	90.00	359.59	10,151.0	1,304.3	-41.2	1,304.8	0.00	0.00	0.00
11,600.0	90.00	359.59	10,151.0	1,404.3	-41.9	1,404.8	0.00	0.00	0.00
11,700.0	90.00	359.59	10,151.0	1,504.3	-42.6	1,504.7	0.00	0.00	0.00
11,800.0	90.00	359.59	10,151.0	1,604.3	-43.3	1,604.7	0.00	0.00	0.00
11,900.0	90.00	359.59	10,151.0	1,704.3	-44.1	1,704.7	0.00	0.00	0.00
12,000.0	90.00	359.59	10,151.0	1,804.3	-44.8	1,804.7	0.00	0.00	0.00
12,100.0	90.00	359.59	10,151.0	1,904.3	-45.5	1,904.7	0.00	0.00	0.00
12,200.0	90.00	359.59	10,151.0	2,004.3	-46.2	2,004.7	0.00	0.00	0.00
12,300.0	90.00	359.59	10,151.0	2,104.3	-46.9	2,104.7	0.00	0.00	0.00
12,400.0	90.00	359.59	10,151.0	2,204.3	-47.7	2,204.7	0.00	0.00	0.00
12,500.0	90.00	359.59	10,151.0	2,304.3	-48.4	2,304.7	0.00	0.00	0.00
12,600.0	90.00	359.59	10,151.0	2,404.3	-49.1	2,404.7	0.00	0.00	0.00
12,700.0	90.00	359.59	10,151.0	2,504.3	-49.8	2,504.7	0.00	0.00	0.00
12,800.0	90.00	359.59	10,151.0	2,604.3	-50.5	2,604.7	0.00	0.00	0.00
12,900.0	90.00	359.59	10,151.0	2,704.3	-51.3	2,704.7	0.00	0.00	0.00
13,000.0	90.00	359.59	10,151.0	2,804.3	-52.0	2,804.7	0.00	0.00	0.00
13,100.0	90.00	359.59	10,151.0	2,904.3	-52.7	2,904.7	0.00	0.00	0.00
13,200.0	90.00	359.59	10,151.0	3,004.3	-53.4	3,004.7	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: #301H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #301H
TVD Reference: KB = 25 @ 3321.0usft
MD Reference: KB = 25 @ 3321.0usft
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	10,151.0	3,104.3	-54.1	3,104.7	0.00	0.00	0.00
13,400.0	90.00	359.59	10,151.0	3,204.3	-54.9	3,204.7	0.00	0.00	0.00
13,500.0	90.00	359.59	10,151.0	3,304.3	-55.6	3,304.7	0.00	0.00	0.00
13,600.0	90.00	359.59	10,151.0	3,404.3	-56.3	3,404.7	0.00	0.00	0.00
13,700.0	90.00	359.59	10,151.0	3,504.3	-57.0	3,504.7	0.00	0.00	0.00
13,800.0	90.00	359.59	10,151.0	3,604.3	-57.8	3,604.7	0.00	0.00	0.00
13,900.0	90.00	359.59	10,151.0	3,704.2	-58.5	3,704.7	0.00	0.00	0.00
14,000.0	90.00	359.59	10,151.0	3,804.2	-59.2	3,804.7	0.00	0.00	0.00
14,100.0	90.00	359.59	10,151.0	3,904.2	-59.9	3,904.7	0.00	0.00	0.00
14,200.0	90.00	359.59	10,151.0	4,004.2	-60.6	4,004.7	0.00	0.00	0.00
14,300.0	90.00	359.59	10,151.0	4,104.2	-61.4	4,104.7	0.00	0.00	0.00
14,400.0	90.00	359.59	10,151.0	4,204.2	-62.1	4,204.7	0.00	0.00	0.00
14,500.0	90.00	359.59	10,151.0	4,304.2	-62.8	4,304.7	0.00	0.00	0.00
14,600.0	90.00	359.59	10,151.0	4,404.2	-63.5	4,404.7	0.00	0.00	0.00
14,700.0	90.00	359.59	10,151.0	4,504.2	-64.2	4,504.7	0.00	0.00	0.00
14,800.0	90.00	359.59	10,151.0	4,604.2	-65.0	4,604.7	0.00	0.00	0.00
14,900.0	90.00	359.59	10,151.0	4,704.2	-65.7	4,704.7	0.00	0.00	0.00
15,000.0	90.00	359.59	10,151.0	4,804.2	-66.4	4,804.7	0.00	0.00	0.00
15,082.8	90.00	359.59	10,151.0	4,887.0	-67.0	4,887.5	0.00	0.00	0.00

PBHL(MAG 15 #301H)

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
KOP(MAG 15 #301H) - plan hits target center - Point	0.00	0.00	9,673.5	-245.0	-30.0	377,810.00	779,079.00	32° 2' 10.890 N	103° 33' 57.971 W
PBHL(MAG 15 #301H) - plan hits target center - Point	0.00	0.00	10,151.0	4,887.0	-67.0	382,942.00	779,042.00	32° 3' 1.676 N	103° 33' 57.977 W
FTP(MAG 15 #301H) - plan misses target center by 163.5usft at 10076.7usft MD (10027.4 TVD, -88.0 N, -31.1 E) - Point	0.00	0.00	10,151.0	-195.0	-30.0	377,860.00	779,079.00	32° 2' 11.385 N	103° 33' 57.966 W