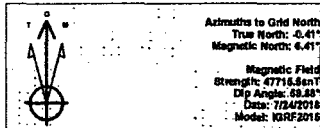




Lea County, NM (NAD 83 NME)

Magnolia 15 #201H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 0.41°
To convert a Magnetic Direction to a True Direction, Add 0.42° 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: #201H

KB = 25 @ 3320.0usft
Northing: 378068.00
Easting: 779109.00
Latitude: 32° 2' 13.639 N
Longitude: 103° 33' 37.699 W

SECTION DETAILS

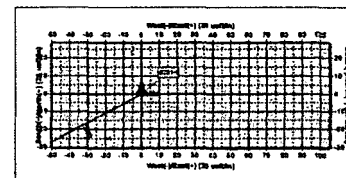
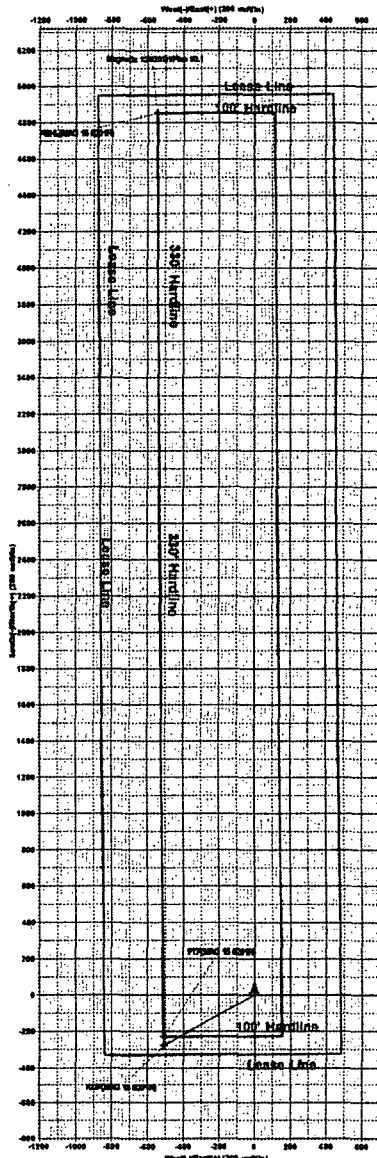
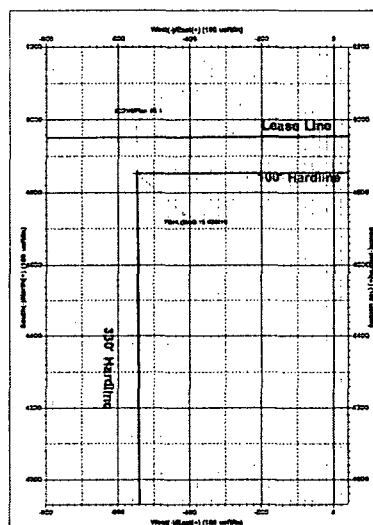
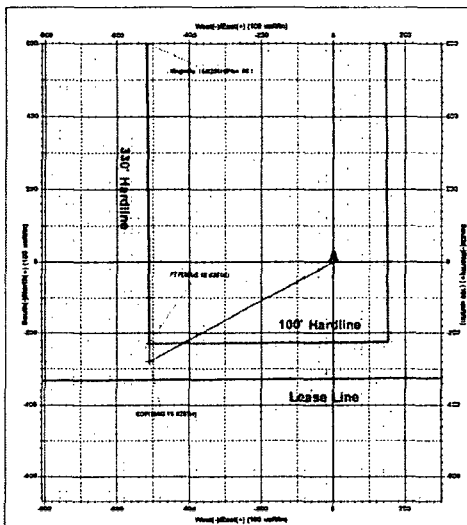
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Diag	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3267.2	5.34	241.15	3266.8	-8.0	-10.9	2.00	241.15	-4.7	
4	9252.1	5.34	241.15	9225.7	-275.0	-499.1	0.00	0.00	-217.3	
5	9519.3	0.00	0.00	9492.5	-281.0	-510.0	2.00	180.00	-222.1	KOP(MAG 15 #201H)
6	10259.3	90.00	359.59	9970.0	196.4	-513.4	12.00	359.59	252.7	
7	14924.0	90.00	359.59	9970.0	4891.0	-547.0	0.00	0.00	4881.7	PBHL(MAG 15 #201H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP(MAG 15 #201H)	9492.5	-281.0	-510.0	377887.00	778889.00
FTF(MAG 15 #201H)	9970.0	-231.0	-510.0	377887.00	778889.00
PBHL(MAG 15 #201H)	9970.0	4891.0	-547.0	382938.00	778962.00



Lea County, NM (NAD 83 NME)



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15

#201H

OH

Plan: Plan #0.1

Standard Planning Report

24 July, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Magnolia 15
Well: #201H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3320.0usft
MD Reference: KB = 25 @ 3320.0usft
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:	From: Map	Northing: 378,055.00 usft Easting: 778,760.00 usft	Latitude: 32° 2' 13.337 N Longitude: 103° 34' 1.656 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.41 °

Well	#201H		
Well Position	+N/-S 33.0 usft +E/-W 349.0 usft	Northing: 378,088.00 usft Easting: 779,109.00 usft	Latitude: 32° 2' 13.639 N Longitude: 103° 33' 57.599 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,295.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°) Dip Angle (°) Field Strength (nT)
	IGRF2015	7/24/2018	6.82 59.88 47,715.51256634

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	0.0 353.57

Plan Survey Tool Program	Date 7/24/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name Remarks
1 0.0	14.924.0	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	
3,267.2	5.34	241.15	3,266.8	-6.0	-10.9	2.00	2.00	0.00	241.15	
9,252.1	5.34	241.15	9,225.7	-275.0	-499.1	0.00	0.00	0.00	0.00	
9,519.3	0.00	0.00	9,492.5	-281.0	-510.0	2.00	-2.00	0.00	180.00	KOP(MAG 15 #201H)
10,269.3	90.00	359.59	9,970.0	196.4	-513.4	12.00	12.00	-0.06	359.59	
14,924.0	90.00	359.59	9,970.0	4,851.0	-547.0	0.00	0.00	0.00	0.00	PBHL(MAG 15 #201H)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #201H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3320.0usft
 MD Reference: KB = 25 @ 3320.0usft
 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	241.15	3,100.0	-0.8	-1.5	-0.7	2.00	2.00	0.00
3,200.0	4.00	241.15	3,199.8	-3.4	-6.1	-2.7	2.00	2.00	0.00
3,267.2	5.34	241.15	3,266.8	-6.0	-10.9	-4.7	2.00	2.00	0.00
3,300.0	5.34	241.15	3,299.5	-7.5	-13.6	-5.9	0.00	0.00	0.00
3,400.0	5.34	241.15	3,399.0	-12.0	-21.7	-9.5	0.00	0.00	0.00
3,500.0	5.34	241.15	3,498.6	-16.5	-29.9	-13.0	0.00	0.00	0.00
3,600.0	5.34	241.15	3,598.2	-21.0	-38.1	-16.6	0.00	0.00	0.00
3,700.0	5.34	241.15	3,697.7	-25.5	-46.2	-20.1	0.00	0.00	0.00
3,800.0	5.34	241.15	3,797.3	-30.0	-54.4	-23.7	0.00	0.00	0.00
3,900.0	5.34	241.15	3,896.9	-34.4	-62.5	-27.2	0.00	0.00	0.00
4,000.0	5.34	241.15	3,996.4	-38.9	-70.7	-30.8	0.00	0.00	0.00
4,100.0	5.34	241.15	4,096.0	-43.4	-78.8	-34.3	0.00	0.00	0.00
4,200.0	5.34	241.15	4,195.6	-47.9	-87.0	-37.9	0.00	0.00	0.00
4,300.0	5.34	241.15	4,295.1	-52.4	-95.2	-41.4	0.00	0.00	0.00
4,400.0	5.34	241.15	4,394.7	-56.9	-103.3	-45.0	0.00	0.00	0.00
4,500.0	5.34	241.15	4,494.3	-61.4	-111.5	-48.5	0.00	0.00	0.00
4,600.0	5.34	241.15	4,593.8	-65.9	-119.6	-52.1	0.00	0.00	0.00
4,700.0	5.34	241.15	4,693.4	-70.4	-127.8	-55.6	0.00	0.00	0.00
4,800.0	5.34	241.15	4,793.0	-74.9	-135.9	-59.2	0.00	0.00	0.00
4,900.0	5.34	241.15	4,892.5	-79.4	-144.1	-62.7	0.00	0.00	0.00
5,000.0	5.34	241.15	4,992.1	-83.9	-152.3	-66.3	0.00	0.00	0.00
5,100.0	5.34	241.15	5,091.6	-88.4	-160.4	-69.9	0.00	0.00	0.00
5,200.0	5.34	241.15	5,191.2	-92.9	-168.6	-73.4	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: #201H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3320.0usft
 MD Reference: KB = 25 @ 3320.0usft
 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)
5,300.0	5.34	241.15	5,290.8	-97.4	-176.7	-77.0	0.00	0.00	0.00
5,400.0	5.34	241.15	5,390.3	-101.9	-184.9	-80.5	0.00	0.00	0.00
5,500.0	5.34	241.15	5,489.9	-106.4	-193.0	-84.1	0.00	0.00	0.00
5,600.0	5.34	241.15	5,589.5	-110.9	-201.2	-87.6	0.00	0.00	0.00
5,700.0	5.34	241.15	5,689.0	-115.3	-209.3	-91.2	0.00	0.00	0.00
5,800.0	5.34	241.15	5,788.6	-119.8	-217.5	-94.7	0.00	0.00	0.00
5,900.0	5.34	241.15	5,888.2	-124.3	-225.7	-98.3	0.00	0.00	0.00
6,000.0	5.34	241.15	5,987.7	-128.8	-233.8	-101.8	0.00	0.00	0.00
6,100.0	5.34	241.15	6,087.3	-133.3	-242.0	-105.4	0.00	0.00	0.00
6,200.0	5.34	241.15	6,186.9	-137.8	-250.1	-108.9	0.00	0.00	0.00
6,300.0	5.34	241.15	6,286.4	-142.3	-258.3	-112.5	0.00	0.00	0.00
6,400.0	5.34	241.15	6,386.0	-146.8	-266.4	-116.0	0.00	0.00	0.00
6,500.0	5.34	241.15	6,485.6	-151.3	-274.6	-119.6	0.00	0.00	0.00
6,600.0	5.34	241.15	6,585.1	-155.8	-282.8	-123.1	0.00	0.00	0.00
6,700.0	5.34	241.15	6,684.7	-160.3	-290.9	-126.7	0.00	0.00	0.00
6,800.0	5.34	241.15	6,784.3	-164.8	-299.1	-130.2	0.00	0.00	0.00
6,900.0	5.34	241.15	6,883.8	-169.3	-307.2	-133.8	0.00	0.00	0.00
7,000.0	5.34	241.15	6,983.4	-173.8	-315.4	-137.3	0.00	0.00	0.00
7,100.0	5.34	241.15	7,083.0	-178.3	-323.5	-140.9	0.00	0.00	0.00
7,200.0	5.34	241.15	7,182.5	-182.8	-331.7	-144.4	0.00	0.00	0.00
7,300.0	5.34	241.15	7,282.1	-187.3	-339.9	-148.0	0.00	0.00	0.00
7,400.0	5.34	241.15	7,381.7	-191.8	-348.0	-151.5	0.00	0.00	0.00
7,500.0	5.34	241.15	7,481.2	-196.2	-356.2	-155.1	0.00	0.00	0.00
7,600.0	5.34	241.15	7,580.8	-200.7	-364.3	-158.7	0.00	0.00	0.00
7,700.0	5.34	241.15	7,680.3	-205.2	-372.5	-162.2	0.00	0.00	0.00
7,800.0	5.34	241.15	7,779.9	-209.7	-380.6	-165.8	0.00	0.00	0.00
7,900.0	5.34	241.15	7,879.5	-214.2	-388.8	-169.3	0.00	0.00	0.00
8,000.0	5.34	241.15	7,979.0	-218.7	-397.0	-172.9	0.00	0.00	0.00
8,100.0	5.34	241.15	8,078.6	-223.2	-405.1	-176.4	0.00	0.00	0.00
8,200.0	5.34	241.15	8,178.2	-227.7	-413.3	-180.0	0.00	0.00	0.00
8,300.0	5.34	241.15	8,277.7	-232.2	-421.4	-183.5	0.00	0.00	0.00
8,400.0	5.34	241.15	8,377.3	-236.7	-429.6	-187.1	0.00	0.00	0.00
8,500.0	5.34	241.15	8,476.9	-241.2	-437.7	-190.6	0.00	0.00	0.00
8,600.0	5.34	241.15	8,576.4	-245.7	-445.9	-194.2	0.00	0.00	0.00
8,700.0	5.34	241.15	8,676.0	-250.2	-454.1	-197.7	0.00	0.00	0.00
8,800.0	5.34	241.15	8,775.6	-254.7	-462.2	-201.3	0.00	0.00	0.00
8,900.0	5.34	241.15	8,875.1	-259.2	-470.4	-204.8	0.00	0.00	0.00
9,000.0	5.34	241.15	8,974.7	-263.7	-478.5	-208.4	0.00	0.00	0.00
9,100.0	5.34	241.15	9,074.3	-268.2	-486.7	-211.9	0.00	0.00	0.00
9,200.0	5.34	241.15	9,173.8	-272.7	-494.8	-215.5	0.00	0.00	0.00
9,252.1	5.34	241.15	9,225.7	-275.0	-499.1	-217.3	0.00	0.00	0.00
9,300.0	4.39	241.15	9,273.4	-277.0	-502.7	-218.9	2.00	-2.00	0.00
9,400.0	2.39	241.15	9,373.2	-279.8	-507.8	-221.1	2.00	-2.00	0.00
9,500.0	0.39	241.15	9,473.2	-281.0	-509.9	-222.1	2.00	-2.00	0.00
9,519.3	0.00	0.00	9,492.5	-281.0	-510.0	-222.1	2.00	-2.00	0.00
KOP(MAG 15 #201H)									
9,525.0	0.69	359.59	9,498.2	-281.0	-510.0	-222.1	12.00	12.00	0.00
9,550.0	3.69	359.59	9,523.2	-280.0	-510.0	-221.1	12.00	12.00	0.00
9,575.0	6.69	359.59	9,548.1	-277.8	-510.0	-218.9	12.00	12.00	0.00
9,600.0	9.69	359.59	9,572.8	-274.2	-510.0	-215.3	12.00	12.00	0.00
9,625.0	12.69	359.59	9,597.4	-269.3	-510.1	-210.5	12.00	12.00	0.00
9,650.0	15.69	359.59	9,621.6	-263.2	-510.1	-204.4	12.00	12.00	0.00
9,675.0	18.69	359.59	9,645.5	-255.8	-510.2	-197.1	12.00	12.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #201H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3320.0usft
 MD Reference: KB = 25 @ 3320.0usft
 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)
9,700.0	21.69	359.59	9,668.9	-247.2	-510.2	-188.5	12.00	12.00	0.00
9,725.0	24.69	359.59	9,691.9	-237.4	-510.3	-178.7	12.00	12.00	0.00
9,750.0	27.69	359.59	9,714.3	-226.3	-510.4	-167.7	12.00	12.00	0.00
9,775.0	30.69	359.59	9,736.2	-214.1	-510.5	-155.6	12.00	12.00	0.00
9,800.0	33.69	359.59	9,757.3	-200.8	-510.6	-142.4	12.00	12.00	0.00
9,825.0	36.69	359.59	9,777.7	-186.4	-510.7	-128.0	12.00	12.00	0.00
9,850.0	39.69	359.59	9,797.4	-171.0	-510.8	-112.7	12.00	12.00	0.00
9,875.0	42.69	359.59	9,816.2	-154.5	-510.9	-96.3	12.00	12.00	0.00
9,900.0	45.69	359.59	9,834.1	-137.1	-511.0	-79.0	12.00	12.00	0.00
9,923.5	48.50	359.59	9,850.1	-119.9	-511.2	-61.9	12.00	12.00	0.00
FTP(MAG 15 #201H)									
9,925.0	48.69	359.59	9,851.1	-118.8	-511.2	-60.7	12.00	12.00	0.00
9,950.0	51.69	359.59	9,867.1	-99.6	-511.3	-41.6	12.00	12.00	0.00
9,975.0	54.69	359.59	9,882.1	-79.5	-511.5	-21.7	12.00	12.00	0.00
10,000.0	57.69	359.59	9,896.0	-58.8	-511.6	-1.1	12.00	12.00	0.00
10,025.0	60.69	359.59	9,908.8	-37.3	-511.8	20.3	12.00	12.00	0.00
10,050.0	63.69	359.59	9,920.5	-15.2	-511.9	42.3	12.00	12.00	0.00
10,075.0	66.69	359.59	9,931.0	7.5	-512.1	64.8	12.00	12.00	0.00
10,100.0	69.69	359.59	9,940.3	30.7	-512.2	87.9	12.00	12.00	0.00
10,125.0	72.69	359.59	9,948.3	54.4	-512.4	111.4	12.00	12.00	0.00
10,150.0	75.69	359.59	9,955.1	78.4	-512.6	135.3	12.00	12.00	0.00
10,175.0	78.69	359.59	9,960.7	102.8	-512.8	159.6	12.00	12.00	0.00
10,200.0	81.69	359.59	9,964.9	127.4	-512.9	184.1	12.00	12.00	0.00
10,225.0	84.69	359.59	9,967.9	152.2	-513.1	208.8	12.00	12.00	0.00
10,250.0	87.69	359.59	9,969.6	177.2	-513.3	233.6	12.00	12.00	0.00
10,269.3	90.00	359.59	9,970.0	196.4	-513.4	252.7	12.00	12.00	0.00
10,300.0	90.00	359.59	9,970.0	227.2	-513.7	283.3	0.00	0.00	0.00
10,400.0	90.00	359.59	9,970.0	327.2	-514.4	382.7	0.00	0.00	0.00
10,500.0	90.00	359.59	9,970.0	427.2	-515.1	482.2	0.00	0.00	0.00
10,600.0	90.00	359.59	9,970.0	527.2	-515.8	581.6	0.00	0.00	0.00
10,700.0	90.00	359.59	9,970.0	627.2	-516.5	681.1	0.00	0.00	0.00
10,800.0	90.00	359.59	9,970.0	727.2	-517.3	780.5	0.00	0.00	0.00
10,900.0	90.00	359.59	9,970.0	827.1	-518.0	880.0	0.00	0.00	0.00
11,000.0	90.00	359.59	9,970.0	927.1	-518.7	979.4	0.00	0.00	0.00
11,100.0	90.00	359.59	9,970.0	1,027.1	-519.4	1,078.9	0.00	0.00	0.00
11,200.0	90.00	359.59	9,970.0	1,127.1	-520.2	1,178.3	0.00	0.00	0.00
11,300.0	90.00	359.59	9,970.0	1,227.1	-520.9	1,277.8	0.00	0.00	0.00
11,400.0	90.00	359.59	9,970.0	1,327.1	-521.6	1,377.2	0.00	0.00	0.00
11,500.0	90.00	359.59	9,970.0	1,427.1	-522.3	1,476.7	0.00	0.00	0.00
11,600.0	90.00	359.59	9,970.0	1,527.1	-523.0	1,576.1	0.00	0.00	0.00
11,700.0	90.00	359.59	9,970.0	1,627.1	-523.8	1,675.6	0.00	0.00	0.00
11,800.0	90.00	359.59	9,970.0	1,727.1	-524.5	1,775.0	0.00	0.00	0.00
11,900.0	90.00	359.59	9,970.0	1,827.1	-525.2	1,874.5	0.00	0.00	0.00
12,000.0	90.00	359.59	9,970.0	1,927.1	-525.9	1,973.9	0.00	0.00	0.00
12,100.0	90.00	359.59	9,970.0	2,027.1	-526.6	2,073.4	0.00	0.00	0.00
12,200.0	90.00	359.59	9,970.0	2,127.1	-527.4	2,172.8	0.00	0.00	0.00
12,300.0	90.00	359.59	9,970.0	2,227.1	-528.1	2,272.3	0.00	0.00	0.00
12,400.0	90.00	359.59	9,970.0	2,327.1	-528.8	2,371.7	0.00	0.00	0.00
12,500.0	90.00	359.59	9,970.0	2,427.1	-529.5	2,471.2	0.00	0.00	0.00
12,600.0	90.00	359.59	9,970.0	2,527.1	-530.2	2,570.6	0.00	0.00	0.00
12,700.0	90.00	359.59	9,970.0	2,627.1	-531.0	2,670.1	0.00	0.00	0.00
12,800.0	90.00	359.59	9,970.0	2,727.1	-531.7	2,769.5	0.00	0.00	0.00
12,900.0	90.00	359.59	9,970.0	2,827.1	-532.4	2,869.0	0.00	0.00	0.00
13,000.0	90.00	359.59	9,970.0	2,927.1	-533.1	2,968.4	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: #201H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 25 @ 3320.0usft
 MD Reference: KB = 25 @ 3320.0usft
 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)
13,100.0	90.00	359.59	9,970.0	3,027.1	-533.9	3,067.8	0.00	0.00	0.00
13,200.0	90.00	359.59	9,970.0	3,127.1	-534.6	3,167.3	0.00	0.00	0.00
13,300.0	90.00	359.59	9,970.0	3,227.1	-535.3	3,266.7	0.00	0.00	0.00
13,400.0	90.00	359.59	9,970.0	3,327.1	-536.0	3,366.2	0.00	0.00	0.00
13,500.0	90.00	359.59	9,970.0	3,427.1	-536.7	3,465.6	0.00	0.00	0.00
13,600.0	90.00	359.59	9,970.0	3,527.1	-537.5	3,565.1	0.00	0.00	0.00
13,700.0	90.00	359.59	9,970.0	3,627.1	-538.2	3,664.5	0.00	0.00	0.00
13,800.0	90.00	359.59	9,970.0	3,727.1	-538.9	3,764.0	0.00	0.00	0.00
13,900.0	90.00	359.59	9,970.0	3,827.1	-539.6	3,863.4	0.00	0.00	0.00
14,000.0	90.00	359.59	9,970.0	3,927.1	-540.3	3,962.9	0.00	0.00	0.00
14,100.0	90.00	359.59	9,970.0	4,027.1	-541.1	4,062.3	0.00	0.00	0.00
14,200.0	90.00	359.59	9,970.0	4,127.1	-541.8	4,161.8	0.00	0.00	0.00
14,300.0	90.00	359.59	9,970.0	4,227.1	-542.5	4,261.2	0.00	0.00	0.00
14,400.0	90.00	359.59	9,970.0	4,327.1	-543.2	4,360.7	0.00	0.00	0.00
14,500.0	90.00	359.59	9,970.0	4,427.1	-543.9	4,460.1	0.00	0.00	0.00
14,600.0	90.00	359.59	9,970.0	4,527.1	-544.7	4,559.6	0.00	0.00	0.00
14,700.0	90.00	359.59	9,970.0	4,627.1	-545.4	4,659.0	0.00	0.00	0.00
14,800.0	90.00	359.59	9,970.0	4,727.0	-546.1	4,758.5	0.00	0.00	0.00
14,900.0	90.00	359.59	9,970.0	4,827.0	-546.8	4,857.9	0.00	0.00	0.00
14,924.0	90.00	359.59	9,970.0	4,851.0	-547.0	4,881.7	0.00	0.00	0.00

PBHL(MAG 15 #201H)

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 #201H) - plan hits target center - Point	0.00	0.00	9,492.5	-281.0	-510.0	377,807.00	778,599.00	32° 2' 10.894 N	103° 34' 3.547 W
FTP(MAG 15 #201H) - plan misses target center by 163.5usft at 9923.5usft MD (9850.1 TVD, -119.9 N, -511.2 E) - Point	0.00	0.00	9,970.0	-231.0	-510.0	377,857.00	778,599.00	32° 2' 11.389 N	103° 34' 3.543 W
PBHL(MAG 15 #201H) - plan hits target center - Point	0.00	0.00	9,970.0	4,851.0	-547.0	382,939.00	778,562.00	32° 3' 1.680 N	103° 34' 3.554 W