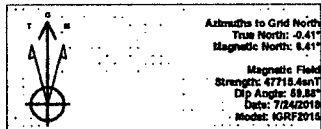




Lea County, NM (NAD 83 NME)

Magnolia 15 #202H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 8.61°
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: #202H

KB = 28 @ 3321.0usR
Northing: 378022.00 Easting: 778109.50
Latitude: 32° 2' 12.886 N Longitude: 103° 33' 57.805 W

SECTION DETAILS

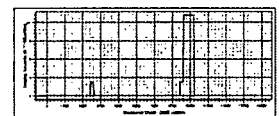
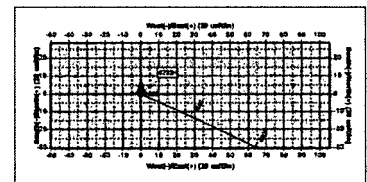
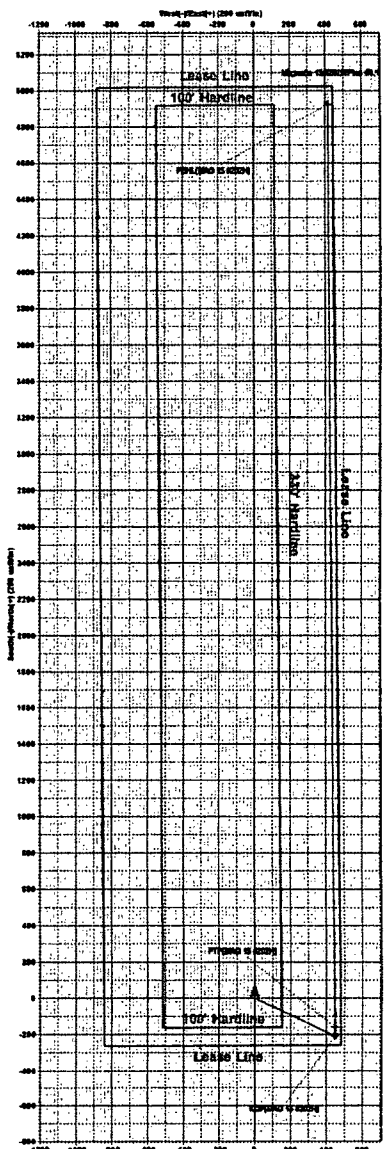
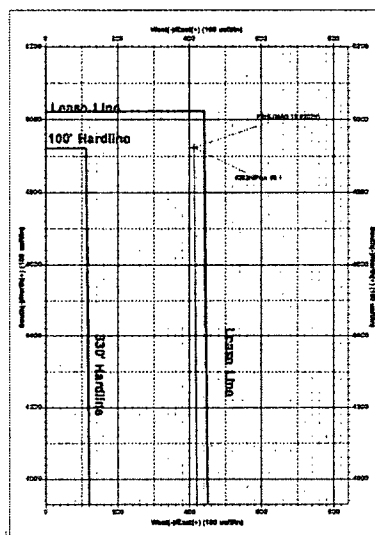
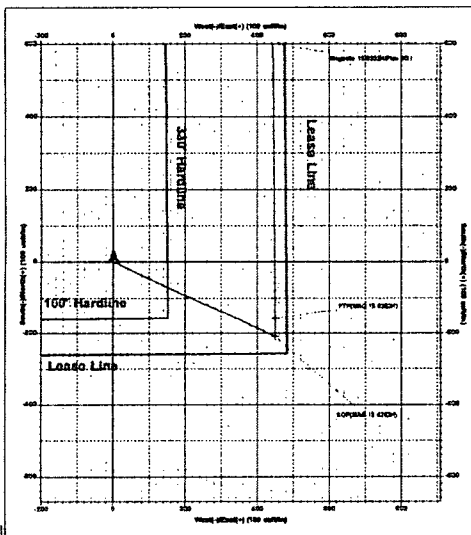
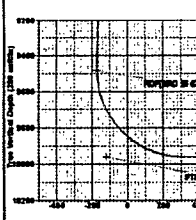
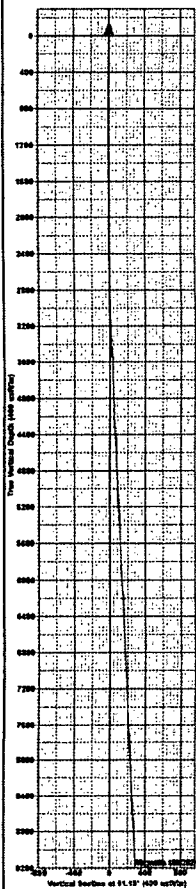
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3228.9	4.54	115.02	3228.6	-3.8	8.1	2.00	115.02	-3.1	
4	9277.1	4.54	115.02	9257.9	-206.2	441.9	0.00	0.00	-168.5	
5	9503.9	0.00	0.00	9484.5	-210.0	450.0	2.00	180.00	-171.6	KOP(MAG 15 #202H)
6	10253.9	90.00	359.59	9992.0	287.4	448.6	12.00	359.59	-303.8	
7	14909.6	90.00	359.59	9992.0	4923.0	413.0	0.00	0.00	4940.3	PBH(MAG 15 #202H)

CASING DETAILS

No casing data is available

WELLBORE TIEBACK DETAILS (MAP CO-ORDINATES)

Radio	TVD	+N-S	+E-W	Northing	Easting
KOP(MAG 15 #202H)	9484.5	-210.0	450.0	377813.00	778629.00
PTP(MAG 15 #202H)	9992.0	-180.0	480.0	377883.00	778629.00
PBH(MAG 15 #202H)	9992.0	4923.0	413.0	382845.00	779622.00



Scale: 1 inch = 100 feet



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Magnolia 15

#202H

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: #202H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #202H
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	#202H				
Well Position	+N/-S	-33.0 usft	Northing:	378,022.00 usft	Latitude: 32° 2' 12.986 N
	+E/-W	349.0 usft	Easting:	779,109.00 usft	Longitude: 103° 33' 57.605 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
	IGRF2015	7/24/2018	(°)	(°)	(nT)
			6.82	59.88	47,715.39736684

Design	Plan #0.1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:		Depth From (TVD)		+N/-S	
		(usft)		(usft)	
		0.0		0.0	
				+E/-W	
				(usft)	
				0.0	
				Direction	
				(°)	
				4.80	

Plan Survey Tool Program	Date 7/25/2018				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1	0.0	14,909.6 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,226.9	4.54	115.02	3,226.6	-3.8	8.1	2.00	2.00	0.00	115.02	
9,277.1	4.54	115.02	9,257.9	-206.2	441.9	0.00	0.00	0.00	0.00	
9,503.9	0.00	0.00	9,484.5	-210.0	450.0	2.00	-2.00	0.00	180.00	KOP(MAG 15 #202H)
10,253.9	90.00	359.59	9,962.0	267.4	446.6	12.00	12.00	-0.06	359.59	
14,909.6	90.00	359.59	9,962.0	4,923.0	413.0	0.00	0.00	0.00	0.00	PBHL(MAG 15 #202H)



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #202H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #202H
 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
3,100.0	2.00	115.02	3,100.0	-0.7	1.6	-0.6	2.00	2.00	0.00
3,200.0	4.00	115.02	3,199.8	-3.0	6.3	-2.4	2.00	2.00	0.00
3,226.9	4.54	115.02	3,226.6	-3.8	8.1	-3.1	2.00	2.00	0.00
3,300.0	4.54	115.02	3,299.5	-6.2	13.4	-5.1	0.00	0.00	0.00
3,400.0	4.54	115.02	3,399.2	-9.6	20.5	-7.8	0.00	0.00	0.00
3,500.0	4.54	115.02	3,498.9	-12.9	27.7	-10.6	0.00	0.00	0.00
3,600.0	4.54	115.02	3,598.6	-16.3	34.9	-13.3	0.00	0.00	0.00
3,700.0	4.54	115.02	3,698.3	-19.6	42.1	-16.0	0.00	0.00	0.00
3,800.0	4.54	115.02	3,798.0	-23.0	49.2	-18.8	0.00	0.00	0.00
3,900.0	4.54	115.02	3,897.7	-26.3	56.4	-21.5	0.00	0.00	0.00
4,000.0	4.54	115.02	3,997.3	-29.7	63.6	-24.2	0.00	0.00	0.00
4,100.0	4.54	115.02	4,097.0	-33.0	70.7	-27.0	0.00	0.00	0.00
4,200.0	4.54	115.02	4,196.7	-36.4	77.9	-29.7	0.00	0.00	0.00
4,300.0	4.54	115.02	4,296.4	-39.7	85.1	-32.4	0.00	0.00	0.00
4,400.0	4.54	115.02	4,396.1	-43.0	92.2	-35.2	0.00	0.00	0.00
4,500.0	4.54	115.02	4,495.8	-46.4	99.4	-37.9	0.00	0.00	0.00
4,600.0	4.54	115.02	4,595.5	-49.7	106.6	-40.7	0.00	0.00	0.00
4,700.0	4.54	115.02	4,695.1	-53.1	113.7	-43.4	0.00	0.00	0.00
4,800.0	4.54	115.02	4,794.8	-56.4	120.9	-46.1	0.00	0.00	0.00
4,900.0	4.54	115.02	4,894.5	-59.8	128.1	-48.9	0.00	0.00	0.00
5,000.0	4.54	115.02	4,994.2	-63.1	135.2	-51.6	0.00	0.00	0.00
5,100.0	4.54	115.02	5,093.9	-66.5	142.4	-54.3	0.00	0.00	0.00
5,200.0	4.54	115.02	5,193.6	-69.8	149.6	-57.1	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Magnolia 15
 Well: #202H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #202H
 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)
5,300.0	4.54	115.02	5,293.3	-73.2	156.8	-59.8	0.00	0.00	0.00
5,400.0	4.54	115.02	5,393.0	-76.5	163.9	-62.5	0.00	0.00	0.00
5,500.0	4.54	115.02	5,492.6	-79.8	171.1	-65.3	0.00	0.00	0.00
5,600.0	4.54	115.02	5,592.3	-83.2	178.3	-68.0	0.00	0.00	0.00
5,700.0	4.54	115.02	5,692.0	-86.5	185.4	-70.7	0.00	0.00	0.00
5,800.0	4.54	115.02	5,791.7	-89.9	192.6	-73.5	0.00	0.00	0.00
5,900.0	4.54	115.02	5,891.4	-93.2	199.8	-76.2	0.00	0.00	0.00
6,000.0	4.54	115.02	5,991.1	-96.6	206.9	-78.9	0.00	0.00	0.00
6,100.0	4.54	115.02	6,090.8	-99.9	214.1	-81.7	0.00	0.00	0.00
6,200.0	4.54	115.02	6,190.4	-103.3	221.3	-84.4	0.00	0.00	0.00
6,300.0	4.54	115.02	6,290.1	-106.6	228.4	-87.1	0.00	0.00	0.00
6,400.0	4.54	115.02	6,389.8	-110.0	235.6	-89.9	0.00	0.00	0.00
6,500.0	4.54	115.02	6,489.5	-113.3	242.8	-92.6	0.00	0.00	0.00
6,600.0	4.54	115.02	6,589.2	-116.6	249.9	-95.3	0.00	0.00	0.00
6,700.0	4.54	115.02	6,688.9	-120.0	257.1	-98.1	0.00	0.00	0.00
6,800.0	4.54	115.02	6,788.6	-123.3	264.3	-100.8	0.00	0.00	0.00
6,900.0	4.54	115.02	6,888.3	-126.7	271.5	-103.5	0.00	0.00	0.00
7,000.0	4.54	115.02	6,987.9	-130.0	278.6	-106.3	0.00	0.00	0.00
7,100.0	4.54	115.02	7,087.6	-133.4	285.8	-109.0	0.00	0.00	0.00
7,200.0	4.54	115.02	7,187.3	-136.7	293.0	-111.7	0.00	0.00	0.00
7,300.0	4.54	115.02	7,287.0	-140.1	300.1	-114.5	0.00	0.00	0.00
7,400.0	4.54	115.02	7,386.7	-143.4	307.3	-117.2	0.00	0.00	0.00
7,500.0	4.54	115.02	7,486.4	-146.8	314.5	-119.9	0.00	0.00	0.00
7,600.0	4.54	115.02	7,586.1	-150.1	321.6	-122.7	0.00	0.00	0.00
7,700.0	4.54	115.02	7,685.7	-153.4	328.8	-125.4	0.00	0.00	0.00
7,800.0	4.54	115.02	7,785.4	-156.8	336.0	-128.2	0.00	0.00	0.00
7,900.0	4.54	115.02	7,885.1	-160.1	343.1	-130.9	0.00	0.00	0.00
8,000.0	4.54	115.02	7,984.8	-163.5	350.3	-133.6	0.00	0.00	0.00
8,100.0	4.54	115.02	8,084.5	-166.8	357.5	-136.4	0.00	0.00	0.00
8,200.0	4.54	115.02	8,184.2	-170.2	364.7	-139.1	0.00	0.00	0.00
8,300.0	4.54	115.02	8,283.9	-173.5	371.8	-141.8	0.00	0.00	0.00
8,400.0	4.54	115.02	8,383.5	-176.9	379.0	-144.6	0.00	0.00	0.00
8,500.0	4.54	115.02	8,483.2	-180.2	386.2	-147.3	0.00	0.00	0.00
8,600.0	4.54	115.02	8,582.9	-183.6	393.3	-150.0	0.00	0.00	0.00
8,700.0	4.54	115.02	8,682.6	-186.9	400.5	-152.8	0.00	0.00	0.00
8,800.0	4.54	115.02	8,782.3	-190.2	407.7	-155.5	0.00	0.00	0.00
8,900.0	4.54	115.02	8,882.0	-193.6	414.8	-158.2	0.00	0.00	0.00
9,000.0	4.54	115.02	8,981.7	-196.9	422.0	-161.0	0.00	0.00	0.00
9,100.0	4.54	115.02	9,081.4	-200.3	429.2	-163.7	0.00	0.00	0.00
9,200.0	4.54	115.02	9,181.0	-203.6	436.3	-166.4	0.00	0.00	0.00
9,277.1	4.54	115.02	9,257.9	-206.2	441.9	-168.5	0.00	0.00	0.00
9,300.0	4.08	115.02	9,280.7	-206.9	443.4	-169.1	2.00	-2.00	0.00
9,400.0	2.08	115.02	9,380.6	-209.2	448.3	-171.0	2.00	-2.00	0.00
9,503.9	0.00	0.00	9,484.5	-210.0	450.0	-171.6	2.00	-2.00	0.00
KOP(MAG 15 #202H)									
9,525.0	2.53	359.59	9,505.6	-209.5	450.0	-171.2	12.00	12.00	0.00
9,550.0	5.53	359.59	9,530.5	-207.8	450.0	-169.4	12.00	12.00	0.00
9,575.0	8.53	359.59	9,555.3	-204.7	450.0	-166.4	12.00	12.00	0.00
9,600.0	11.53	359.59	9,579.9	-200.4	449.9	-162.1	12.00	12.00	0.00
9,625.0	14.53	359.59	9,604.3	-194.7	449.9	-156.4	12.00	12.00	0.00
9,650.0	17.53	359.59	9,628.3	-187.8	449.8	-149.6	12.00	12.00	0.00
9,675.0	20.53	359.59	9,651.9	-179.7	449.8	-141.5	12.00	12.00	0.00
9,700.0	23.53	359.59	9,675.1	-170.3	449.7	-132.1	12.00	12.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
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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)
9,725.0	26.53	359.59	9,697.7	-159.7	449.6	-121.6	12.00	12.00	0.00
9,750.0	29.53	359.59	9,719.8	-148.0	449.6	-109.9	12.00	12.00	0.00
9,775.0	32.53	359.59	9,741.2	-135.1	449.5	-97.1	12.00	12.00	0.00
9,800.0	35.53	359.59	9,762.0	-121.1	449.4	-83.1	12.00	12.00	0.00
9,825.0	38.53	359.59	9,781.9	-106.1	449.3	-68.1	12.00	12.00	0.00
9,850.0	41.53	359.59	9,801.1	-90.0	449.1	-52.1	12.00	12.00	0.00
9,875.0	44.53	359.59	9,819.3	-72.9	449.0	-35.1	12.00	12.00	0.00
9,900.0	47.53	359.59	9,836.7	-54.9	448.9	-17.2	12.00	12.00	0.00
9,902.8	47.87	359.59	9,838.6	-52.8	448.9	-15.1	12.00	12.00	0.00
FTP(MAG 15 #202H)									
9,925.0	50.53	359.59	9,853.1	-36.1	448.7	1.6	12.00	12.00	0.00
9,950.0	53.53	359.59	9,868.5	-16.4	448.6	21.2	12.00	12.00	0.00
9,975.0	56.53	359.59	9,882.8	4.1	448.5	41.6	12.00	12.00	0.00
10,000.0	59.53	359.59	9,896.0	25.3	448.3	62.7	12.00	12.00	0.00
10,025.0	62.53	359.59	9,908.1	47.2	448.1	84.5	12.00	12.00	0.00
10,050.0	65.53	359.59	9,919.1	69.7	448.0	106.9	12.00	12.00	0.00
10,075.0	68.53	359.59	9,928.8	92.7	447.8	129.8	12.00	12.00	0.00
10,100.0	71.53	359.59	9,937.4	116.2	447.6	153.2	12.00	12.00	0.00
10,125.0	74.53	359.59	9,944.7	140.1	447.5	177.0	12.00	12.00	0.00
10,150.0	77.53	359.59	9,950.7	164.3	447.3	201.2	12.00	12.00	0.00
10,175.0	80.53	359.59	9,955.5	188.9	447.1	225.6	12.00	12.00	0.00
10,200.0	83.53	359.59	9,958.9	213.6	446.9	250.2	12.00	12.00	0.00
10,225.0	86.53	359.59	9,961.1	238.5	446.8	275.0	12.00	12.00	0.00
10,250.0	89.53	359.59	9,961.9	263.5	446.6	299.9	12.00	12.00	0.00
10,253.9	90.00	359.59	9,962.0	267.4	446.6	303.8	12.00	12.00	0.00
10,300.0	90.00	359.59	9,962.0	313.5	446.2	349.7	0.00	0.00	0.00
10,400.0	90.00	359.59	9,962.0	413.5	445.5	449.3	0.00	0.00	0.00
10,500.0	90.00	359.59	9,962.0	513.5	444.8	548.9	0.00	0.00	0.00
10,600.0	90.00	359.59	9,962.0	613.5	444.1	648.5	0.00	0.00	0.00
10,700.0	90.00	359.59	9,962.0	713.5	443.3	748.1	0.00	0.00	0.00
10,800.0	90.00	359.59	9,962.0	813.5	442.6	847.7	0.00	0.00	0.00
10,900.0	90.00	359.59	9,962.0	913.5	441.9	947.2	0.00	0.00	0.00
11,000.0	90.00	359.59	9,962.0	1,013.5	441.2	1,046.8	0.00	0.00	0.00
11,100.0	90.00	359.59	9,962.0	1,113.5	440.5	1,146.4	0.00	0.00	0.00
11,200.0	90.00	359.59	9,962.0	1,213.5	439.7	1,246.0	0.00	0.00	0.00
11,300.0	90.00	359.59	9,962.0	1,313.5	439.0	1,345.6	0.00	0.00	0.00
11,400.0	90.00	359.59	9,962.0	1,413.5	438.3	1,445.2	0.00	0.00	0.00
11,500.0	90.00	359.59	9,962.0	1,513.5	437.6	1,544.8	0.00	0.00	0.00
11,600.0	90.00	359.59	9,962.0	1,613.5	436.9	1,644.4	0.00	0.00	0.00
11,700.0	90.00	359.59	9,962.0	1,713.5	436.1	1,743.9	0.00	0.00	0.00
11,800.0	90.00	359.59	9,962.0	1,813.5	435.4	1,843.5	0.00	0.00	0.00
11,900.0	90.00	359.59	9,962.0	1,913.5	434.7	1,943.1	0.00	0.00	0.00
12,000.0	90.00	359.59	9,962.0	2,013.5	434.0	2,042.7	0.00	0.00	0.00
12,100.0	90.00	359.59	9,962.0	2,113.5	433.3	2,142.3	0.00	0.00	0.00
12,200.0	90.00	359.59	9,962.0	2,213.5	432.5	2,241.9	0.00	0.00	0.00
12,300.0	90.00	359.59	9,962.0	2,313.5	431.8	2,341.5	0.00	0.00	0.00
12,400.0	90.00	359.59	9,962.0	2,413.5	431.1	2,441.1	0.00	0.00	0.00
12,500.0	90.00	359.59	9,962.0	2,513.5	430.4	2,540.6	0.00	0.00	0.00
12,600.0	90.00	359.59	9,962.0	2,613.5	429.6	2,640.2	0.00	0.00	0.00
12,700.0	90.00	359.59	9,962.0	2,713.5	428.9	2,739.8	0.00	0.00	0.00
12,800.0	90.00	359.59	9,962.0	2,813.5	428.2	2,839.4	0.00	0.00	0.00
12,900.0	90.00	359.59	9,962.0	2,913.4	427.5	2,939.0	0.00	0.00	0.00
13,000.0	90.00	359.59	9,962.0	3,013.4	426.8	3,038.6	0.00	0.00	0.00
13,100.0	90.00	359.59	9,962.0	3,113.4	426.0	3,138.2	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: #202H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #202H
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)
13,200.0	90.00	359.59	9,962.0	3,213.4	425.3	3,237.7	0.00	0.00	0.00
13,300.0	90.00	359.59	9,962.0	3,313.4	424.6	3,337.3	0.00	0.00	0.00
13,400.0	90.00	359.59	9,962.0	3,413.4	423.9	3,436.9	0.00	0.00	0.00
13,500.0	90.00	359.59	9,962.0	3,513.4	423.2	3,536.5	0.00	0.00	0.00
13,600.0	90.00	359.59	9,962.0	3,613.4	422.4	3,636.1	0.00	0.00	0.00
13,700.0	90.00	359.59	9,962.0	3,713.4	421.7	3,735.7	0.00	0.00	0.00
13,800.0	90.00	359.59	9,962.0	3,813.4	421.0	3,835.3	0.00	0.00	0.00
13,900.0	90.00	359.59	9,962.0	3,913.4	420.3	3,934.9	0.00	0.00	0.00
14,000.0	90.00	359.59	9,962.0	4,013.4	419.6	4,034.4	0.00	0.00	0.00
14,100.0	90.00	359.59	9,962.0	4,113.4	418.8	4,134.0	0.00	0.00	0.00
14,200.0	90.00	359.59	9,962.0	4,213.4	418.1	4,233.6	0.00	0.00	0.00
14,300.0	90.00	359.59	9,962.0	4,313.4	417.4	4,333.2	0.00	0.00	0.00
14,400.0	90.00	359.59	9,962.0	4,413.4	416.7	4,432.8	0.00	0.00	0.00
14,500.0	90.00	359.59	9,962.0	4,513.4	416.0	4,532.4	0.00	0.00	0.00
14,600.0	90.00	359.59	9,962.0	4,613.4	415.2	4,632.0	0.00	0.00	0.00
14,700.0	90.00	359.59	9,962.0	4,713.4	414.5	4,731.6	0.00	0.00	0.00
14,800.0	90.00	359.59	9,962.0	4,813.4	413.8	4,831.1	0.00	0.00	0.00
14,909.6	90.00	359.59	9,962.0	4,923.0	413.0	4,940.3	0.00	0.00	0.00

PBHL(MAG 15 #202H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(MAG 15 #202H)	0.00	0.00	9,484.5	-210.0	450.0	377,812.00	779,559.00	32° 2' 10.876 N	103° 33' 52.394 W
- hit/miss target									
- plan hits target center									
- Point									
PBHL(MAG 15 #202H)	0.00	0.00	9,962.0	4,923.0	413.0	382,945.00	779,522.00	32° 3' 1.672 N	103° 33' 52.400 W
- plan hits target center									
- Point									
FTP(MAG 15 #202H)	0.00	0.00	9,962.0	-160.0	450.0	377,862.00	779,559.00	32° 2' 11.371 N	103° 33' 52.390 W
- plan misses target center by 163.4usft at 9902.8usft MD (9838.6 TVD, -52.8 N, 448.9 E)									
- Point									