



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Date 14 State Com

#602H

OH

Plan: Plan #0.1

Standard Planning Report

18 September, 2017

HOBBS OCD
AUG 21 2019
RECEIVED



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25' @ 3811.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Com	North Reference:	Grid
Well:	#602H	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	Date 14 State Com		
Site Position:		Northing:	536,428.00 usft
From:	Map	Easting:	786,265.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 28' 19.914 N
		Longitude:	103° 32' 20.860 W
		Grid Convergence:	0.43 °

Well	#602H		
Well Position	+N/-S	0.0 usft	Northing: 536,428.00 usft
	+E/-W	0.0 usft	Easting: 786,265.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,786.0 usft
		Latitude:	32° 28' 19.914 N
		Longitude:	103° 32' 20.860 W

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	9/18/2017	6.93
			Dip Angle (°)
			60.29
			Field Strength (nT)
			48,060.02438329

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)
	0.0	0.0	0.0
			Direction (°)
			359.54

Plan Survey Tool Program	Date 9/18/2017		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	21,884.3 Plan #0.1 (OH)	MWD
			MWD - Standard
			Remarks

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	
3,062.3	1.25	179.57	3,062.3	-0.7	0.0	2.00	2.00	0.00	179.57	
11,282.2	1.25	179.57	11,280.2	-179.3	1.3	0.00	0.00	0.00	0.00	
11,344.5	0.00	0.00	11,342.5	-180.0	1.4	2.00	-2.00	0.00	180.00	KOP (Date 14 State (
12,094.4	90.00	359.54	11,820.0	297.4	-2.5	12.00	12.00	-0.06	359.54	
21,884.3	90.00	359.54	11,820.0	10,087.0	-81.0	0.00	0.00	0.00	0.00	PBHL (Date 14 State



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25' @ 3811.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Corn	North Reference:	Grid
Well:	#602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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
3,062.3	1.25	179.57	3,062.3	-0.7	0.0	-0.7	2.00	2.00	0.00
3,100.0	1.25	179.57	3,100.0	-1.5	0.0	-1.5	0.00	0.00	0.00
3,200.0	1.25	179.57	3,200.0	-3.7	0.0	-3.7	0.00	0.00	0.00
3,300.0	1.25	179.57	3,299.9	-5.8	0.0	-5.8	0.00	0.00	0.00
3,400.0	1.25	179.57	3,399.9	-8.0	0.1	-8.0	0.00	0.00	0.00
3,500.0	1.25	179.57	3,499.9	-10.2	0.1	-10.2	0.00	0.00	0.00
3,600.0	1.25	179.57	3,599.9	-12.4	0.1	-12.4	0.00	0.00	0.00
3,700.0	1.25	179.57	3,699.8	-14.5	0.1	-14.5	0.00	0.00	0.00
3,800.0	1.25	179.57	3,799.8	-16.7	0.1	-16.7	0.00	0.00	0.00
3,900.0	1.25	179.57	3,899.8	-18.9	0.1	-18.9	0.00	0.00	0.00
4,000.0	1.25	179.57	3,999.8	-21.1	0.2	-21.1	0.00	0.00	0.00
4,100.0	1.25	179.57	4,099.7	-23.2	0.2	-23.2	0.00	0.00	0.00
4,200.0	1.25	179.57	4,199.7	-25.4	0.2	-25.4	0.00	0.00	0.00
4,300.0	1.25	179.57	4,299.7	-27.6	0.2	-27.6	0.00	0.00	0.00
4,400.0	1.25	179.57	4,399.7	-29.8	0.2	-29.8	0.00	0.00	0.00
4,500.0	1.25	179.57	4,499.7	-31.9	0.2	-31.9	0.00	0.00	0.00
4,600.0	1.25	179.57	4,599.6	-34.1	0.3	-34.1	0.00	0.00	0.00
4,700.0	1.25	179.57	4,699.6	-36.3	0.3	-36.3	0.00	0.00	0.00
4,800.0	1.25	179.57	4,799.6	-38.4	0.3	-38.4	0.00	0.00	0.00
4,900.0	1.25	179.57	4,899.6	-40.6	0.3	-40.6	0.00	0.00	0.00
5,000.0	1.25	179.57	4,999.5	-42.8	0.3	-42.8	0.00	0.00	0.00
5,100.0	1.25	179.57	5,099.5	-45.0	0.3	-45.0	0.00	0.00	0.00
5,200.0	1.25	179.57	5,199.5	-47.1	0.4	-47.1	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25' @ 3811.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Com	North Reference:	Grid
Well:	#602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	1.25	179.57	5,299.5	-49.3	0.4	-49.3	0.00	0.00	0.00
5,400.0	1.25	179.57	5,399.4	-51.5	0.4	-51.5	0.00	0.00	0.00
5,500.0	1.25	179.57	5,499.4	-53.7	0.4	-53.7	0.00	0.00	0.00
5,600.0	1.25	179.57	5,599.4	-55.8	0.4	-55.8	0.00	0.00	0.00
5,700.0	1.25	179.57	5,699.4	-58.0	0.4	-58.0	0.00	0.00	0.00
5,800.0	1.25	179.57	5,799.3	-60.2	0.5	-60.2	0.00	0.00	0.00
5,900.0	1.25	179.57	5,899.3	-62.4	0.5	-62.4	0.00	0.00	0.00
6,000.0	1.25	179.57	5,999.3	-64.5	0.5	-64.5	0.00	0.00	0.00
6,100.0	1.25	179.57	6,099.3	-66.7	0.5	-66.7	0.00	0.00	0.00
6,200.0	1.25	179.57	6,199.3	-68.9	0.5	-68.9	0.00	0.00	0.00
6,300.0	1.25	179.57	6,299.2	-71.0	0.5	-71.0	0.00	0.00	0.00
6,400.0	1.25	179.57	6,399.2	-73.2	0.6	-73.2	0.00	0.00	0.00
6,500.0	1.25	179.57	6,499.2	-75.4	0.6	-75.4	0.00	0.00	0.00
6,600.0	1.25	179.57	6,599.2	-77.6	0.6	-77.6	0.00	0.00	0.00
6,700.0	1.25	179.57	6,699.1	-79.7	0.6	-79.7	0.00	0.00	0.00
6,800.0	1.25	179.57	6,799.1	-81.9	0.6	-81.9	0.00	0.00	0.00
6,900.0	1.25	179.57	6,899.1	-84.1	0.6	-84.1	0.00	0.00	0.00
7,000.0	1.25	179.57	6,999.1	-86.3	0.6	-86.3	0.00	0.00	0.00
7,100.0	1.25	179.57	7,099.0	-88.4	0.7	-88.4	0.00	0.00	0.00
7,200.0	1.25	179.57	7,199.0	-90.6	0.7	-90.6	0.00	0.00	0.00
7,300.0	1.25	179.57	7,299.0	-92.8	0.7	-92.8	0.00	0.00	0.00
7,400.0	1.25	179.57	7,399.0	-95.0	0.7	-95.0	0.00	0.00	0.00
7,500.0	1.25	179.57	7,498.9	-97.1	0.7	-97.1	0.00	0.00	0.00
7,600.0	1.25	179.57	7,598.9	-99.3	0.7	-99.3	0.00	0.00	0.00
7,700.0	1.25	179.57	7,698.9	-101.5	0.8	-101.5	0.00	0.00	0.00
7,800.0	1.25	179.57	7,798.9	-103.6	0.8	-103.6	0.00	0.00	0.00
7,900.0	1.25	179.57	7,898.9	-105.8	0.8	-105.8	0.00	0.00	0.00
8,000.0	1.25	179.57	7,998.8	-108.0	0.8	-108.0	0.00	0.00	0.00
8,100.0	1.25	179.57	8,098.8	-110.2	0.8	-110.2	0.00	0.00	0.00
8,200.0	1.25	179.57	8,198.8	-112.3	0.8	-112.3	0.00	0.00	0.00
8,300.0	1.25	179.57	8,298.8	-114.5	0.9	-114.5	0.00	0.00	0.00
8,400.0	1.25	179.57	8,398.7	-116.7	0.9	-116.7	0.00	0.00	0.00
8,500.0	1.25	179.57	8,498.7	-118.9	0.9	-118.9	0.00	0.00	0.00
8,600.0	1.25	179.57	8,598.7	-121.0	0.9	-121.0	0.00	0.00	0.00
8,700.0	1.25	179.57	8,698.7	-123.2	0.9	-123.2	0.00	0.00	0.00
8,800.0	1.25	179.57	8,798.6	-125.4	0.9	-125.4	0.00	0.00	0.00
8,900.0	1.25	179.57	8,898.6	-127.6	1.0	-127.6	0.00	0.00	0.00
9,000.0	1.25	179.57	8,998.6	-129.7	1.0	-129.7	0.00	0.00	0.00
9,100.0	1.25	179.57	9,098.6	-131.9	1.0	-131.9	0.00	0.00	0.00
9,200.0	1.25	179.57	9,198.5	-134.1	1.0	-134.1	0.00	0.00	0.00
9,300.0	1.25	179.57	9,298.5	-136.2	1.0	-136.2	0.00	0.00	0.00
9,400.0	1.25	179.57	9,398.5	-138.4	1.0	-138.4	0.00	0.00	0.00
9,500.0	1.25	179.57	9,498.5	-140.6	1.1	-140.6	0.00	0.00	0.00
9,600.0	1.25	179.57	9,598.5	-142.8	1.1	-142.8	0.00	0.00	0.00
9,700.0	1.25	179.57	9,698.4	-144.9	1.1	-144.9	0.00	0.00	0.00
9,800.0	1.25	179.57	9,798.4	-147.1	1.1	-147.1	0.00	0.00	0.00
9,900.0	1.25	179.57	9,898.4	-149.3	1.1	-149.3	0.00	0.00	0.00
10,000.0	1.25	179.57	9,998.4	-151.5	1.1	-151.5	0.00	0.00	0.00
10,100.0	1.25	179.57	10,098.3	-153.6	1.2	-153.6	0.00	0.00	0.00
10,200.0	1.25	179.57	10,198.3	-155.8	1.2	-155.8	0.00	0.00	0.00
10,300.0	1.25	179.57	10,298.3	-158.0	1.2	-158.0	0.00	0.00	0.00
10,400.0	1.25	179.57	10,398.3	-160.2	1.2	-160.2	0.00	0.00	0.00
10,500.0	1.25	179.57	10,498.2	-162.3	1.2	-162.3	0.00	0.00	0.00
10,600.0	1.25	179.57	10,598.2	-164.5	1.2	-164.5	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25' @ 3811.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Com	North Reference:	Grid
Well:	#602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	1.25	179.57	10,698.2	-166.7	1.3	-166.7	0.00	0.00	0.00
10,800.0	1.25	179.57	10,798.2	-168.8	1.3	-168.8	0.00	0.00	0.00
10,900.0	1.25	179.57	10,898.1	-171.0	1.3	-171.0	0.00	0.00	0.00
11,000.0	1.25	179.57	10,998.1	-173.2	1.3	-173.2	0.00	0.00	0.00
11,100.0	1.25	179.57	11,098.1	-175.4	1.3	-175.4	0.00	0.00	0.00
11,200.0	1.25	179.57	11,198.1	-177.5	1.3	-177.5	0.00	0.00	0.00
11,282.2	1.25	179.57	11,280.2	-179.3	1.3	-179.3	0.00	0.00	0.00
11,300.0	0.89	179.57	11,298.1	-179.7	1.3	-179.7	2.00	-2.00	0.00
11,344.5	0.00	0.00	11,342.5	-180.0	1.4	-180.0	2.00	-2.00	0.00
11,350.0	0.67	359.54	11,348.0	-180.0	1.4	-180.0	12.00	12.00	0.00
11,375.0	3.67	359.54	11,373.0	-179.0	1.3	-179.0	12.00	12.00	0.00
11,400.0	6.67	359.54	11,397.9	-176.8	1.3	-176.8	12.00	12.00	0.00
11,425.0	9.67	359.54	11,422.7	-173.2	1.3	-173.2	12.00	12.00	0.00
11,450.0	12.67	359.54	11,447.2	-168.4	1.3	-168.4	12.00	12.00	0.00
11,475.0	15.67	359.54	11,471.4	-162.3	1.2	-162.3	12.00	12.00	0.00
11,500.0	18.67	359.54	11,495.3	-154.9	1.2	-154.9	12.00	12.00	0.00
11,525.0	21.67	359.54	11,518.8	-146.3	1.1	-146.3	12.00	12.00	0.00
11,550.0	24.67	359.54	11,541.8	-136.4	1.0	-136.4	12.00	12.00	0.00
11,575.0	27.67	359.54	11,564.2	-125.4	0.9	-125.4	12.00	12.00	0.00
11,600.0	30.67	359.54	11,586.0	-113.2	0.8	-113.2	12.00	12.00	0.00
11,625.0	33.67	359.54	11,607.2	-99.9	0.7	-99.9	12.00	12.00	0.00
11,650.0	36.67	359.54	11,627.6	-85.5	0.6	-85.5	12.00	12.00	0.00
11,675.0	39.67	359.54	11,647.3	-70.1	0.5	-70.1	12.00	12.00	0.00
11,700.0	42.67	359.54	11,666.1	-53.6	0.3	-53.6	12.00	12.00	0.00
11,725.0	45.67	359.54	11,684.0	-36.2	0.2	-36.2	12.00	12.00	0.00
11,750.0	48.67	359.54	11,701.0	-17.9	0.1	-17.9	12.00	12.00	0.00
11,775.0	51.67	359.54	11,717.0	1.3	-0.1	1.3	12.00	12.00	0.00
11,800.0	54.67	359.54	11,732.0	21.3	-0.3	21.3	12.00	12.00	0.00
11,825.0	57.67	359.54	11,745.9	42.1	-0.4	42.1	12.00	12.00	0.00
11,850.0	60.67	359.54	11,758.7	63.5	-0.6	63.5	12.00	12.00	0.00
11,875.0	63.67	359.54	11,770.4	85.7	-0.8	85.7	12.00	12.00	0.00
11,900.0	66.67	359.54	11,780.9	108.3	-1.0	108.3	12.00	12.00	0.00
11,925.0	69.67	359.54	11,790.2	131.5	-1.1	131.5	12.00	12.00	0.00
11,950.0	72.67	359.54	11,798.3	155.2	-1.3	155.2	12.00	12.00	0.00
11,975.0	75.67	359.54	11,805.1	179.2	-1.5	179.3	12.00	12.00	0.00
12,000.0	78.67	359.54	11,810.7	203.6	-1.7	203.6	12.00	12.00	0.00
12,025.0	81.67	359.54	11,814.9	228.2	-1.9	228.3	12.00	12.00	0.00
12,050.0	84.67	359.54	11,817.9	253.1	-2.1	253.1	12.00	12.00	0.00
12,075.0	87.67	359.54	11,819.6	278.0	-2.3	278.0	12.00	12.00	0.00
12,094.4	90.00	359.54	11,820.0	297.4	-2.5	297.5	12.00	12.00	0.00
12,100.0	90.00	359.54	11,820.0	303.0	-2.5	303.0	0.00	0.00	0.00
12,200.0	90.00	359.54	11,820.0	403.0	-3.3	403.0	0.00	0.00	0.00
12,300.0	90.00	359.54	11,820.0	503.0	-4.1	503.0	0.00	0.00	0.00
12,400.0	90.00	359.54	11,820.0	603.0	-4.9	603.0	0.00	0.00	0.00
12,500.0	90.00	359.54	11,820.0	703.0	-5.7	703.0	0.00	0.00	0.00
12,600.0	90.00	359.54	11,820.0	803.0	-6.5	803.0	0.00	0.00	0.00
12,700.0	90.00	359.54	11,820.0	903.0	-7.3	903.0	0.00	0.00	0.00
12,800.0	90.00	359.54	11,820.0	1,003.0	-8.1	1,003.0	0.00	0.00	0.00
12,900.0	90.00	359.54	11,820.0	1,103.0	-8.9	1,103.0	0.00	0.00	0.00
13,000.0	90.00	359.54	11,820.0	1,203.0	-9.7	1,203.0	0.00	0.00	0.00
13,100.0	90.00	359.54	11,820.0	1,303.0	-10.5	1,303.0	0.00	0.00	0.00
13,200.0	90.00	359.54	11,820.0	1,403.0	-11.3	1,403.0	0.00	0.00	0.00
13,300.0	90.00	359.54	11,820.0	1,503.0	-12.1	1,503.0	0.00	0.00	0.00
13,400.0	90.00	359.54	11,820.0	1,603.0	-12.9	1,603.0	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #602H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #602H
TVD Reference: KB= 25' @ 3811.0usft
MD Reference: KB= 25' @ 3811.0usft
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
13,500.0	90.00	359.54	11,820.0	1,703.0	-13.8	1,703.0	0.00	0.00	0.00
13,600.0	90.00	359.54	11,820.0	1,802.9	-14.6	1,803.0	0.00	0.00	0.00
13,700.0	90.00	359.54	11,820.0	1,902.9	-15.4	1,903.0	0.00	0.00	0.00
13,800.0	90.00	359.54	11,820.0	2,002.9	-16.2	2,003.0	0.00	0.00	0.00
13,900.0	90.00	359.54	11,820.0	2,102.9	-17.0	2,103.0	0.00	0.00	0.00
14,000.0	90.00	359.54	11,820.0	2,202.9	-17.8	2,203.0	0.00	0.00	0.00
14,100.0	90.00	359.54	11,820.0	2,302.9	-18.6	2,303.0	0.00	0.00	0.00
14,200.0	90.00	359.54	11,820.0	2,402.9	-19.4	2,403.0	0.00	0.00	0.00
14,300.0	90.00	359.54	11,820.0	2,502.9	-20.2	2,503.0	0.00	0.00	0.00
14,400.0	90.00	359.54	11,820.0	2,602.9	-21.0	2,603.0	0.00	0.00	0.00
14,500.0	90.00	359.54	11,820.0	2,702.9	-21.8	2,703.0	0.00	0.00	0.00
14,600.0	90.00	359.54	11,820.0	2,802.9	-22.6	2,803.0	0.00	0.00	0.00
14,700.0	90.00	359.54	11,820.0	2,902.9	-23.4	2,903.0	0.00	0.00	0.00
14,800.0	90.00	359.54	11,820.0	3,002.9	-24.2	3,003.0	0.00	0.00	0.00
14,900.0	90.00	359.54	11,820.0	3,102.9	-25.0	3,103.0	0.00	0.00	0.00
15,000.0	90.00	359.54	11,820.0	3,202.9	-25.8	3,203.0	0.00	0.00	0.00
15,100.0	90.00	359.54	11,820.0	3,302.9	-26.6	3,303.0	0.00	0.00	0.00
15,200.0	90.00	359.54	11,820.0	3,402.9	-27.4	3,403.0	0.00	0.00	0.00
15,300.0	90.00	359.54	11,820.0	3,502.9	-28.2	3,503.0	0.00	0.00	0.00
15,400.0	90.00	359.54	11,820.0	3,602.9	-29.0	3,603.0	0.00	0.00	0.00
15,500.0	90.00	359.54	11,820.0	3,702.9	-29.8	3,703.0	0.00	0.00	0.00
15,600.0	90.00	359.54	11,820.0	3,802.9	-30.6	3,803.0	0.00	0.00	0.00
15,700.0	90.00	359.54	11,820.0	3,902.9	-31.4	3,903.0	0.00	0.00	0.00
15,800.0	90.00	359.54	11,820.0	4,002.9	-32.2	4,003.0	0.00	0.00	0.00
15,900.0	90.00	359.54	11,820.0	4,102.9	-33.0	4,103.0	0.00	0.00	0.00
16,000.0	90.00	359.54	11,820.0	4,202.9	-33.8	4,203.0	0.00	0.00	0.00
16,100.0	90.00	359.54	11,820.0	4,302.9	-34.6	4,303.0	0.00	0.00	0.00
16,200.0	90.00	359.54	11,820.0	4,402.9	-35.4	4,403.0	0.00	0.00	0.00
16,300.0	90.00	359.54	11,820.0	4,502.9	-36.2	4,503.0	0.00	0.00	0.00
16,400.0	90.00	359.54	11,820.0	4,602.9	-37.0	4,603.0	0.00	0.00	0.00
16,500.0	90.00	359.54	11,820.0	4,702.9	-37.8	4,703.0	0.00	0.00	0.00
16,600.0	90.00	359.54	11,820.0	4,802.9	-38.6	4,803.0	0.00	0.00	0.00
16,700.0	90.00	359.54	11,820.0	4,902.8	-39.4	4,903.0	0.00	0.00	0.00
16,800.0	90.00	359.54	11,820.0	5,002.8	-40.2	5,003.0	0.00	0.00	0.00
16,900.0	90.00	359.54	11,820.0	5,102.8	-41.0	5,103.0	0.00	0.00	0.00
17,000.0	90.00	359.54	11,820.0	5,202.8	-41.8	5,203.0	0.00	0.00	0.00
17,100.0	90.00	359.54	11,820.0	5,302.8	-42.6	5,303.0	0.00	0.00	0.00
17,200.0	90.00	359.54	11,820.0	5,402.8	-43.4	5,403.0	0.00	0.00	0.00
17,300.0	90.00	359.54	11,820.0	5,502.8	-44.2	5,503.0	0.00	0.00	0.00
17,400.0	90.00	359.54	11,820.0	5,602.8	-45.0	5,603.0	0.00	0.00	0.00
17,500.0	90.00	359.54	11,820.0	5,702.8	-45.8	5,703.0	0.00	0.00	0.00
17,600.0	90.00	359.54	11,820.0	5,802.8	-46.6	5,803.0	0.00	0.00	0.00
17,700.0	90.00	359.54	11,820.0	5,902.8	-47.4	5,903.0	0.00	0.00	0.00
17,800.0	90.00	359.54	11,820.0	6,002.8	-48.2	6,003.0	0.00	0.00	0.00
17,900.0	90.00	359.54	11,820.0	6,102.8	-49.0	6,103.0	0.00	0.00	0.00
18,000.0	90.00	359.54	11,820.0	6,202.8	-49.8	6,203.0	0.00	0.00	0.00
18,100.0	90.00	359.54	11,820.0	6,302.8	-50.6	6,303.0	0.00	0.00	0.00
18,200.0	90.00	359.54	11,820.0	6,402.8	-51.4	6,403.0	0.00	0.00	0.00
18,300.0	90.00	359.54	11,820.0	6,502.8	-52.3	6,503.0	0.00	0.00	0.00
18,400.0	90.00	359.54	11,820.0	6,602.8	-53.1	6,603.0	0.00	0.00	0.00
18,500.0	90.00	359.54	11,820.0	6,702.8	-53.9	6,703.0	0.00	0.00	0.00
18,600.0	90.00	359.54	11,820.0	6,802.8	-54.7	6,803.0	0.00	0.00	0.00
18,700.0	90.00	359.54	11,820.0	6,902.8	-55.5	6,903.0	0.00	0.00	0.00
18,800.0	90.00	359.54	11,820.0	7,002.8	-56.3	7,003.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB= 25' @ 3811.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Cor	North Reference:	Grid
Well:	#602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
18,900.0	90.00	359.54	11,820.0	7,102.8	-57.1	7,103.0	0.00	0.00	0.00
19,000.0	90.00	359.54	11,820.0	7,202.8	-57.9	7,203.0	0.00	0.00	0.00
19,100.0	90.00	359.54	11,820.0	7,302.8	-58.7	7,303.0	0.00	0.00	0.00
19,200.0	90.00	359.54	11,820.0	7,402.8	-59.5	7,403.0	0.00	0.00	0.00
19,300.0	90.00	359.54	11,820.0	7,502.8	-60.3	7,503.0	0.00	0.00	0.00
19,400.0	90.00	359.54	11,820.0	7,602.8	-61.1	7,603.0	0.00	0.00	0.00
19,500.0	90.00	359.54	11,820.0	7,702.8	-61.9	7,703.0	0.00	0.00	0.00
19,600.0	90.00	359.54	11,820.0	7,802.8	-62.7	7,803.0	0.00	0.00	0.00
19,700.0	90.00	359.54	11,820.0	7,902.8	-63.5	7,903.0	0.00	0.00	0.00
19,800.0	90.00	359.54	11,820.0	8,002.8	-64.3	8,003.0	0.00	0.00	0.00
19,900.0	90.00	359.54	11,820.0	8,102.7	-65.1	8,103.0	0.00	0.00	0.00
20,000.0	90.00	359.54	11,820.0	8,202.7	-65.9	8,203.0	0.00	0.00	0.00
20,100.0	90.00	359.54	11,820.0	8,302.7	-66.7	8,303.0	0.00	0.00	0.00
20,200.0	90.00	359.54	11,820.0	8,402.7	-67.5	8,403.0	0.00	0.00	0.00
20,300.0	90.00	359.54	11,820.0	8,502.7	-68.3	8,503.0	0.00	0.00	0.00
20,400.0	90.00	359.54	11,820.0	8,602.7	-69.1	8,603.0	0.00	0.00	0.00
20,500.0	90.00	359.54	11,820.0	8,702.7	-69.9	8,703.0	0.00	0.00	0.00
20,600.0	90.00	359.54	11,820.0	8,802.7	-70.7	8,803.0	0.00	0.00	0.00
20,700.0	90.00	359.54	11,820.0	8,902.7	-71.5	8,903.0	0.00	0.00	0.00
20,800.0	90.00	359.54	11,820.0	9,002.7	-72.3	9,003.0	0.00	0.00	0.00
20,900.0	90.00	359.54	11,820.0	9,102.7	-73.1	9,103.0	0.00	0.00	0.00
21,000.0	90.00	359.54	11,820.0	9,202.7	-73.9	9,203.0	0.00	0.00	0.00
21,100.0	90.00	359.54	11,820.0	9,302.7	-74.7	9,303.0	0.00	0.00	0.00
21,200.0	90.00	359.54	11,820.0	9,402.7	-75.5	9,403.0	0.00	0.00	0.00
21,300.0	90.00	359.54	11,820.0	9,502.7	-76.3	9,503.0	0.00	0.00	0.00
21,400.0	90.00	359.54	11,820.0	9,602.7	-77.1	9,603.0	0.00	0.00	0.00
21,500.0	90.00	359.54	11,820.0	9,702.7	-77.9	9,703.0	0.00	0.00	0.00
21,600.0	90.00	359.54	11,820.0	9,802.7	-78.7	9,803.0	0.00	0.00	0.00
21,700.0	90.00	359.54	11,820.0	9,902.7	-79.5	9,903.0	0.00	0.00	0.00
21,800.0	90.00	359.54	11,820.0	10,002.7	-80.3	10,003.0	0.00	0.00	0.00
21,884.3	90.00	359.54	11,820.0	10,087.0	-81.0	10,087.3	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Date 14 State Cor - hit/miss target - Shape - Point	0.00	0.00	11,342.5	-180.0	1.4	536,248.00	786,266.35	32° 28' 18.132 N	103° 32' 20.860 W
PBHL (Date 14 State Cor - plan hits target center - Point	0.00	0.00	11,820.0	10,087.0	-81.0	546,515.00	786,184.00	32° 29' 59.727 N	103° 32' 20.929 W
FTP (Date 14 State Cor - plan misses target center by 39.3usft at 11806.8usft MD (11783.6 TVD, 114.6 N, -1.0 E) - Point	0.00	0.00	11,820.0	100.0	-1.0	536,528.00	786,264.00	32° 28' 20.903 N	103° 32' 20.863 W



Lea County, NM (NAD 83 NME)

Date 14 State Com #602H

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: #602H

KB= 25' @ 3811.0' 3788.0
Northing 536428.00 Easting 786263.00 Latitude 32° 28' 19.914 N Longitude 103° 32' 20.860 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSect
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	3062.3	1.25	179.57	3062.3	-0.7	0.0	2.00	179.57	-0.7
4	11282.2	1.25	179.57	11280.2	-179.3	1.3	0.00	0.00	-179.3
5	11344.5	0.00	0.00	11342.5	-180.0	1.4	2.00	180.00	-180.0
6	12094.4	90.00	359.54	11820.0	297.4	-2.5	12.00	359.54	297.5
7	21884.3	90.00	359.54	11820.0	10087.0	-81.0	0.00	0.00	10087.3

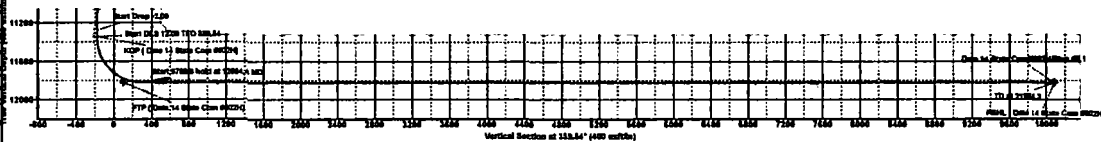
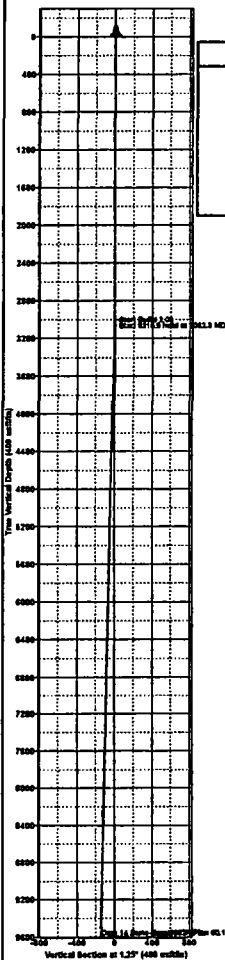
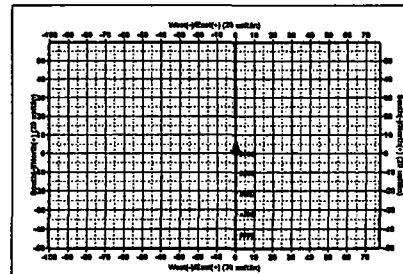
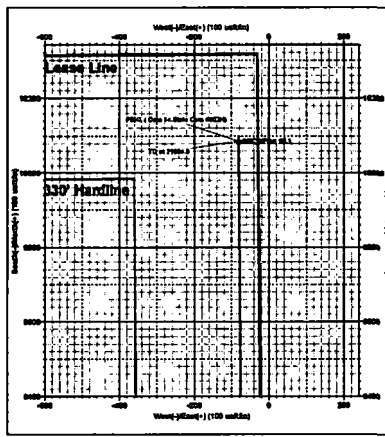
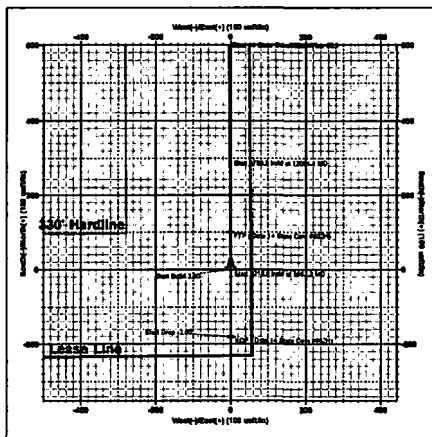
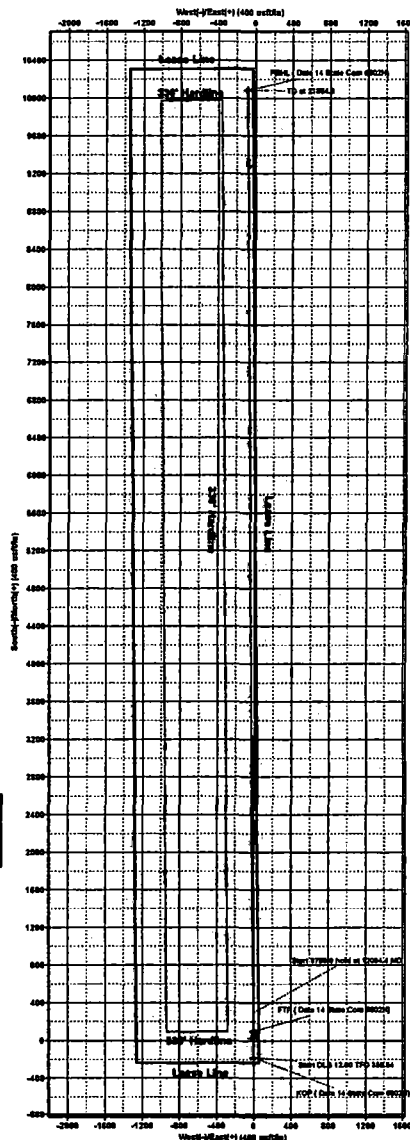
To convert a Magnetic Direction to a Grid Direction, Add 6.50°
To convert a Magnetic Direction to a True Direction, Add 6.50° East
To convert a True Direction to a Grid Direction, Subtract 6.43°

CASING DETAILS

No casing data is available

WELLBORE TUBES DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Date 14 State Com #602H)	11342.5	-180.0	1.4	536248.00	786264.35
FTP (Date 14 State Com #602H)	11820.0	100.0	-1.0	536238.00	786264.00
PDA (Date 14 State Com #602H)	11820.0	10087.0	-81.0	648515.00	786184.00



Lea County, NM (NAD 83 NME)
Date 14 State Com #602H
Plan #0.1