

30-025-4761

HOBBS OCD
SEP 10 2018
RECEIVED



Lea County, NM (NAD 83 NME)
Diamond 31 Fed Com #705H
Plan #0.2

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRB 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #705H

KB = 25' @ 3482.0usft
Northing: 428115.00 Easting: 795257.00
Latitude: 32° 10' 7.704" N Longitude: 103° 30' 45.821" W

SECTION DETAILS

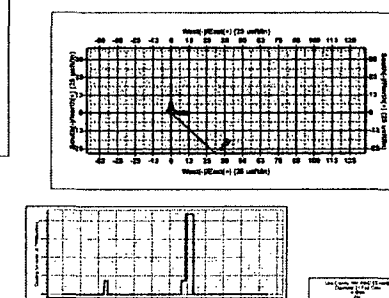
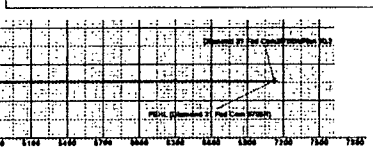
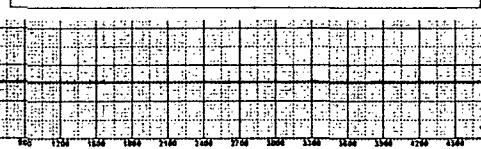
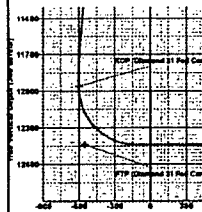
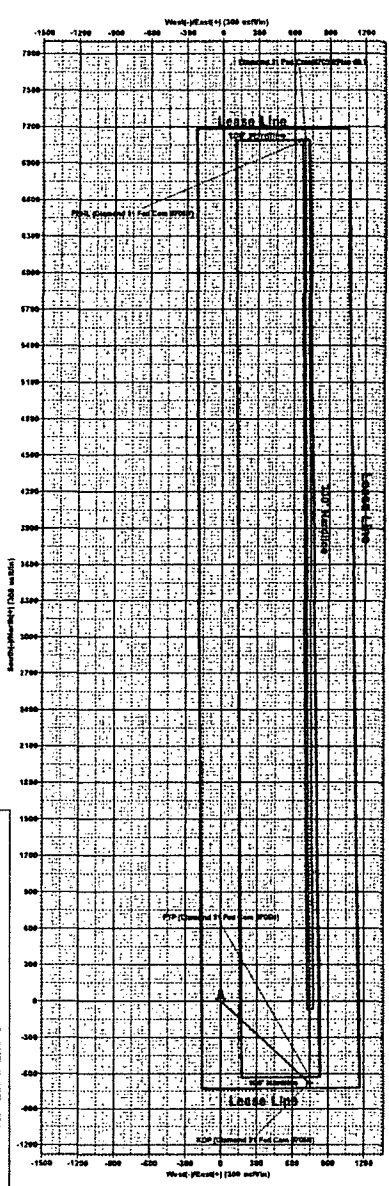
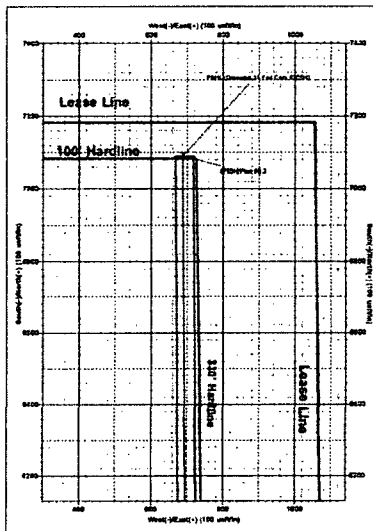
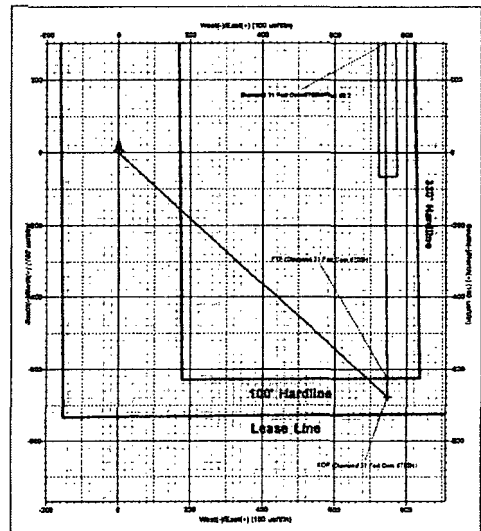
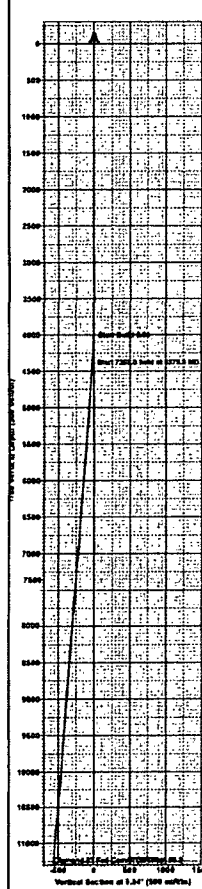
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4378.5	7.57	132.14	4377.4	-16.8	18.5	2.00	132.14	-14.9	
4	11646.5	7.57	132.14	11582.1	-659.2	728.5	0.00	0.00	-585.8	
5	12025.1	0.00	0.00	11959.5	-676.0	747.0	2.00	180.00	-600.7	KOP (Diamond 31 Fed Com #705H)
6	12775.0	90.00	359.56	12437.0	-198.6	743.4	12.00	359.56	-125.8	
7	20053.8	90.00	359.56	12437.0	7090.0	688.0	0.00	0.00	7123.3	PBHL (Diamond 31 Fed Com #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (NAD 83 CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top (Diamond 31 Fed Com #705H)	7784.0	-881.0	148.0	425434.00	780387.00
KOP (Diamond 31 Fed Com #705H)	11859.5	-676.0	747.0	425438.00	795259.00
FTP (Diamond 31 Fed Com #705H)	12437.0	-626.0	747.0	425439.00	795259.00
PBHL (Diamond 31 Fed Com #705H)	13437.0	7090.0	688.0	433206.00	795940.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#705H

OH

Plan: Plan #0.2

Standard Planning Report

06 September, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Diamond 31 Fed Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3482.0usft
MD Reference: KB = 25' @ 3482.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project: Lea County, NM (NAD 83 NME)
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Site: Diamond 31 Fed Com

Site Position: Northing: 425,996.00 usft Latitude: 32° 10' 6.586 N
From: Map Easting: 794,470.00 usft Longitude: 103° 30' 54.929 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.44 °

Well: #705H
Well Position: +N/-S 119.0 usft Northing: 426,115.00 usft Latitude: 32° 10' 7.704 N
Position Uncertainty: 0.0 usft Easting: 795,252.00 usft Longitude: 103° 30' 45.821 W
Wellhead Elevation: Ground Level: 3,457.0 usft

Wellbore: OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/29/2017	6.90	60.02	47,890.72705556

Design: Plan #0.2

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	5.54

Plan Survey Tool Program Date 9/6/2018

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,063.8 Plan #0.2 (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	
4,378.5	7.57	132.14	4,377.4	-16.8	18.5	2.00	2.00	0.00	132.14	
11,646.5	7.57	132.14	11,582.1	-659.2	728.5	0.00	0.00	0.00	0.00	
12,025.1	0.00	0.00	11,959.5	-676.0	747.0	2.00	-2.00	0.00	180.00	KOP (Diamond 31 Fe
12,775.0	90.00	359.56	12,437.0	-198.6	743.4	12.00	12.00	-0.06	359.56	
20,063.8	90.00	359.56	12,437.0	7,090.0	688.0	0.00	0.00	0.00	0.00	PBHL (Diamond 31 Fi



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3482.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	2.00	132.14	4,100.0	-1.2	1.3	-1.0	2.00	2.00	0.00
4,200.0	4.00	132.14	4,199.8	-4.7	5.2	-4.2	2.00	2.00	0.00
4,300.0	6.00	132.14	4,299.5	-10.5	11.6	-9.4	2.00	2.00	0.00
4,378.5	7.57	132.14	4,377.4	-16.8	18.5	-14.9	2.00	2.00	0.00
4,400.0	7.57	132.14	4,398.7	-18.7	20.6	-16.6	0.00	0.00	0.00
4,500.0	7.57	132.14	4,497.8	-27.5	30.4	-24.4	0.00	0.00	0.00
4,600.0	7.57	132.14	4,597.0	-36.3	40.1	-32.3	0.00	0.00	0.00
4,700.0	7.57	132.14	4,696.1	-45.2	49.9	-40.1	0.00	0.00	0.00
4,800.0	7.57	132.14	4,795.2	-54.0	59.7	-48.0	0.00	0.00	0.00
4,900.0	7.57	132.14	4,894.4	-62.9	69.5	-55.9	0.00	0.00	0.00
5,000.0	7.57	132.14	4,993.5	-71.7	79.2	-63.7	0.00	0.00	0.00
5,100.0	7.57	132.14	5,092.6	-80.5	89.0	-71.6	0.00	0.00	0.00
5,200.0	7.57	132.14	5,191.7	-89.4	98.8	-79.4	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Diamond 31 Fed Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25' @ 3482.0usft
 MD Reference: KB = 25' @ 3482.0usft
 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	7.57	132.14	5,290.9	-98.2	108.5	-87.3	0.00	0.00	0.00
5,400.0	7.57	132.14	5,390.0	-107.1	118.3	-95.1	0.00	0.00	0.00
5,500.0	7.57	132.14	5,489.1	-115.9	128.1	-103.0	0.00	0.00	0.00
5,600.0	7.57	132.14	5,588.3	-124.7	137.8	-110.8	0.00	0.00	0.00
5,700.0	7.57	132.14	5,687.4	-133.6	147.6	-118.7	0.00	0.00	0.00
5,800.0	7.57	132.14	5,786.5	-142.4	157.4	-126.5	0.00	0.00	0.00
5,900.0	7.57	132.14	5,885.6	-151.3	167.1	-134.4	0.00	0.00	0.00
6,000.0	7.57	132.14	5,984.8	-160.1	176.9	-142.3	0.00	0.00	0.00
6,100.0	7.57	132.14	6,083.9	-168.9	186.7	-150.1	0.00	0.00	0.00
6,200.0	7.57	132.14	6,183.0	-177.8	196.4	-158.0	0.00	0.00	0.00
6,300.0	7.57	132.14	6,282.2	-186.6	206.2	-165.8	0.00	0.00	0.00
6,400.0	7.57	132.14	6,381.3	-195.5	216.0	-173.7	0.00	0.00	0.00
6,500.0	7.57	132.14	6,480.4	-204.3	225.7	-181.5	0.00	0.00	0.00
6,600.0	7.57	132.14	6,579.5	-213.1	235.5	-189.4	0.00	0.00	0.00
6,700.0	7.57	132.14	6,678.7	-222.0	245.3	-197.2	0.00	0.00	0.00
6,800.0	7.57	132.14	6,777.8	-230.8	255.1	-205.1	0.00	0.00	0.00
6,900.0	7.57	132.14	6,876.9	-239.7	264.8	-213.0	0.00	0.00	0.00
7,000.0	7.57	132.14	6,976.0	-248.5	274.6	-220.8	0.00	0.00	0.00
7,100.0	7.57	132.14	7,075.2	-257.3	284.4	-228.7	0.00	0.00	0.00
7,200.0	7.57	132.14	7,174.3	-266.2	294.1	-236.5	0.00	0.00	0.00
7,300.0	7.57	132.14	7,273.4	-275.0	303.9	-244.4	0.00	0.00	0.00
7,400.0	7.57	132.14	7,372.6	-283.9	313.7	-252.2	0.00	0.00	0.00
7,500.0	7.57	132.14	7,471.7	-292.7	323.4	-260.1	0.00	0.00	0.00
7,600.0	7.57	132.14	7,570.8	-301.5	333.2	-267.9	0.00	0.00	0.00
7,700.0	7.57	132.14	7,669.9	-310.4	343.0	-275.8	0.00	0.00	0.00
7,800.0	7.57	132.14	7,769.1	-319.2	352.7	-283.7	0.00	0.00	0.00
7,836.4	7.57	132.14	7,805.2	-322.4	356.3	-286.5	0.00	0.00	0.00
Brushy Top (Diamond 31 Fed Com #705H)									
7,900.0	7.57	132.14	7,868.2	-328.1	362.5	-291.5	0.00	0.00	0.00
8,000.0	7.57	132.14	7,967.3	-336.9	372.3	-299.4	0.00	0.00	0.00
8,100.0	7.57	132.14	8,066.5	-345.7	382.0	-307.2	0.00	0.00	0.00
8,200.0	7.57	132.14	8,165.6	-354.6	391.8	-315.1	0.00	0.00	0.00
8,300.0	7.57	132.14	8,264.7	-363.4	401.6	-322.9	0.00	0.00	0.00
8,400.0	7.57	132.14	8,363.8	-372.3	411.4	-330.8	0.00	0.00	0.00
8,500.0	7.57	132.14	8,463.0	-381.1	421.1	-338.6	0.00	0.00	0.00
8,600.0	7.57	132.14	8,562.1	-389.9	430.9	-346.5	0.00	0.00	0.00
8,700.0	7.57	132.14	8,661.2	-398.8	440.7	-354.3	0.00	0.00	0.00
8,800.0	7.57	132.14	8,760.4	-407.6	450.4	-362.2	0.00	0.00	0.00
8,900.0	7.57	132.14	8,859.5	-416.5	460.2	-370.1	0.00	0.00	0.00
9,000.0	7.57	132.14	8,958.6	-425.3	470.0	-377.9	0.00	0.00	0.00
9,100.0	7.57	132.14	9,057.7	-434.1	479.7	-385.8	0.00	0.00	0.00
9,200.0	7.57	132.14	9,156.9	-443.0	489.5	-393.6	0.00	0.00	0.00
9,300.0	7.57	132.14	9,256.0	-451.8	499.3	-401.5	0.00	0.00	0.00
9,400.0	7.57	132.14	9,355.1	-460.7	509.0	-409.3	0.00	0.00	0.00
9,500.0	7.57	132.14	9,454.3	-469.5	518.8	-417.2	0.00	0.00	0.00
9,600.0	7.57	132.14	9,553.4	-478.3	528.6	-425.0	0.00	0.00	0.00
9,700.0	7.57	132.14	9,652.5	-487.2	538.3	-432.9	0.00	0.00	0.00
9,800.0	7.57	132.14	9,751.6	-496.0	548.1	-440.8	0.00	0.00	0.00
9,900.0	7.57	132.14	9,850.8	-504.9	557.9	-448.6	0.00	0.00	0.00
10,000.0	7.57	132.14	9,949.9	-513.7	567.6	-456.5	0.00	0.00	0.00
10,100.0	7.57	132.14	10,049.0	-522.5	577.4	-464.3	0.00	0.00	0.00
10,200.0	7.57	132.14	10,148.2	-531.4	587.2	-472.2	0.00	0.00	0.00
10,300.0	7.57	132.14	10,247.3	-540.2	597.0	-480.0	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3482.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)	
10,400.0	7.57	132.14	10,346.4	-549.1	606.7	-487.9	0.00	0.00	0.00	
10,500.0	7.57	132.14	10,445.5	-557.9	616.5	-495.7	0.00	0.00	0.00	
10,600.0	7.57	132.14	10,544.7	-566.7	626.3	-503.6	0.00	0.00	0.00	
10,700.0	7.57	132.14	10,643.8	-575.6	636.0	-511.5	0.00	0.00	0.00	
10,800.0	7.57	132.14	10,742.9	-584.4	645.8	-519.3	0.00	0.00	0.00	
10,900.0	7.57	132.14	10,842.1	-593.3	655.6	-527.2	0.00	0.00	0.00	
11,000.0	7.57	132.14	10,941.2	-602.1	665.3	-535.0	0.00	0.00	0.00	
11,100.0	7.57	132.14	11,040.3	-610.9	675.1	-542.9	0.00	0.00	0.00	
11,200.0	7.57	132.14	11,139.4	-619.8	684.9	-550.7	0.00	0.00	0.00	
11,300.0	7.57	132.14	11,238.6	-628.6	694.6	-558.6	0.00	0.00	0.00	
11,400.0	7.57	132.14	11,337.7	-637.5	704.4	-566.4	0.00	0.00	0.00	
11,500.0	7.57	132.14	11,436.8	-646.3	714.2	-574.3	0.00	0.00	0.00	
11,600.0	7.57	132.14	11,536.0	-655.1	723.9	-582.1	0.00	0.00	0.00	
11,646.5	7.57	132.14	11,582.1	-659.2	728.5	-585.8	0.00	0.00	0.00	
11,700.0	6.50	132.14	11,635.1	-663.6	733.3	-589.7	2.00	-2.00	0.00	
11,800.0	4.50	132.14	11,734.7	-670.1	740.4	-595.4	2.00	-2.00	0.00	
11,900.0	2.50	132.14	11,834.5	-674.2	745.0	-599.1	2.00	-2.00	0.00	
12,000.0	0.50	132.14	11,934.4	-675.9	746.9	-600.6	2.00	-2.00	0.00	
12,025.1	0.00	0.00	11,959.5	-676.0	747.0	-600.7	2.00	-2.00	0.00	
KOP (Diamond 31 Fed Com #705H)										
12,050.0	2.99	359.56	11,984.4	-675.3	747.0	-600.0	12.00	12.00	0.00	
12,075.0	5.99	359.56	12,009.4	-673.4	747.0	-598.1	12.00	12.00	0.00	
12,100.0	8.99	359.56	12,034.1	-670.1	747.0	-594.9	12.00	12.00	0.00	
12,125.0	11.99	359.56	12,058.7	-665.6	746.9	-590.3	12.00	12.00	0.00	
12,150.0	14.99	359.56	12,083.0	-659.7	746.9	-584.5	12.00	12.00	0.00	
12,175.0	17.99	359.56	12,107.0	-652.6	746.8	-577.5	12.00	12.00	0.00	
12,200.0	20.99	359.56	12,130.6	-644.3	746.8	-569.2	12.00	12.00	0.00	
12,225.0	23.99	359.56	12,153.7	-634.7	746.7	-559.7	12.00	12.00	0.00	
12,250.0	26.99	359.56	12,176.2	-624.0	746.6	-549.0	12.00	12.00	0.00	
12,275.0	29.99	359.56	12,198.2	-612.1	746.5	-537.1	12.00	12.00	0.00	
12,300.0	32.99	359.56	12,219.5	-599.0	746.4	-524.1	12.00	12.00	0.00	
12,325.0	35.99	359.56	12,240.1	-584.8	746.3	-510.0	12.00	12.00	0.00	
12,350.0	38.99	359.56	12,259.9	-569.6	746.2	-494.9	12.00	12.00	0.00	
12,375.0	41.99	359.56	12,278.9	-553.4	746.1	-478.8	12.00	12.00	0.00	
12,400.0	44.99	359.56	12,297.1	-536.2	745.9	-461.6	12.00	12.00	0.00	
12,425.0	47.99	359.56	12,314.3	-518.1	745.8	-443.6	12.00	12.00	0.00	
FTP (Diamond 31 Fed Com #705H)										
12,450.0	50.99	359.56	12,330.5	-499.1	745.7	-424.7	12.00	12.00	0.00	
12,475.0	53.99	359.56	12,345.7	-479.2	745.5	-405.0	12.00	12.00	0.00	
12,500.0	56.99	359.56	12,359.9	-458.6	745.3	-384.5	12.00	12.00	0.00	
12,525.0	59.99	359.56	12,373.0	-437.3	745.2	-363.3	12.00	12.00	0.00	
12,550.0	62.99	359.56	12,384.9	-415.4	745.0	-341.5	12.00	12.00	0.00	
12,575.0	65.99	359.56	12,395.7	-392.8	744.8	-319.0	12.00	12.00	0.00	
12,600.0	68.99	359.56	12,405.2	-369.7	744.7	-296.0	12.00	12.00	0.00	
12,625.0	71.99	359.56	12,413.6	-346.1	744.5	-272.6	12.00	12.00	0.00	
12,650.0	74.99	359.56	12,420.7	-322.2	744.3	-248.8	12.00	12.00	0.00	
12,675.0	77.99	359.56	12,426.5	-297.9	744.1	-224.6	12.00	12.00	0.00	
12,700.0	80.99	359.56	12,431.1	-273.3	743.9	-200.2	12.00	12.00	0.00	
12,725.0	83.99	359.56	12,434.3	-248.5	743.8	-175.5	12.00	12.00	0.00	
12,750.0	86.99	359.56	12,436.3	-223.6	743.6	-150.7	12.00	12.00	0.00	
12,775.0	90.00	359.56	12,437.0	-198.6	743.4	-125.8	12.00	12.00	0.00	
12,800.0	90.00	359.56	12,437.0	-173.6	743.2	-101.0	0.00	0.00	0.00	
12,900.0	90.00	359.56	12,437.0	-73.6	742.4	-1.6	0.00	0.00	0.00	
13,000.0	90.00	359.56	12,437.0	26.4	741.7	97.9	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3482.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	359.56	12,437.0	126.4	740.9	197.4	0.00	0.00	0.00
13,200.0	90.00	359.56	12,437.0	226.4	740.1	296.8	0.00	0.00	0.00
13,300.0	90.00	359.56	12,437.0	326.4	739.4	396.3	0.00	0.00	0.00
13,400.0	90.00	359.56	12,437.0	426.4	738.6	495.7	0.00	0.00	0.00
13,500.0	90.00	359.56	12,437.0	526.4	737.9	595.2	0.00	0.00	0.00
13,600.0	90.00	359.56	12,437.0	626.4	737.1	694.6	0.00	0.00	0.00
13,700.0	90.00	359.56	12,437.0	726.4	736.3	794.1	0.00	0.00	0.00
13,800.0	90.00	359.56	12,437.0	826.4	735.6	893.6	0.00	0.00	0.00
13,900.0	90.00	359.56	12,437.0	926.4	734.8	993.0	0.00	0.00	0.00
14,000.0	90.00	359.56	12,437.0	1,026.4	734.1	1,092.5	0.00	0.00	0.00
14,100.0	90.00	359.56	12,437.0	1,126.4	733.3	1,191.9	0.00	0.00	0.00
14,200.0	90.00	359.56	12,437.0	1,226.4	732.5	1,291.4	0.00	0.00	0.00
14,300.0	90.00	359.56	12,437.0	1,326.4	731.8	1,390.8	0.00	0.00	0.00
14,400.0	90.00	359.56	12,437.0	1,426.4	731.0	1,490.3	0.00	0.00	0.00
14,500.0	90.00	359.56	12,437.0	1,526.3	730.3	1,589.7	0.00	0.00	0.00
14,600.0	90.00	359.56	12,437.0	1,626.3	729.5	1,689.2	0.00	0.00	0.00
14,700.0	90.00	359.56	12,437.0	1,726.3	728.7	1,788.7	0.00	0.00	0.00
14,800.0	90.00	359.56	12,437.0	1,826.3	728.0	1,888.1	0.00	0.00	0.00
14,900.0	90.00	359.56	12,437.0	1,926.3	727.2	1,987.6	0.00	0.00	0.00
15,000.0	90.00	359.56	12,437.0	2,026.3	726.5	2,087.0	0.00	0.00	0.00
15,100.0	90.00	359.56	12,437.0	2,126.3	725.7	2,186.5	0.00	0.00	0.00
15,200.0	90.00	359.56	12,437.0	2,226.3	725.0	2,285.9	0.00	0.00	0.00
15,300.0	90.00	359.56	12,437.0	2,326.3	724.2	2,385.4	0.00	0.00	0.00
15,400.0	90.00	359.56	12,437.0	2,426.3	723.4	2,484.9	0.00	0.00	0.00
15,500.0	90.00	359.56	12,437.0	2,526.3	722.7	2,584.3	0.00	0.00	0.00
15,600.0	90.00	359.56	12,437.0	2,626.3	721.9	2,683.8	0.00	0.00	0.00
15,700.0	90.00	359.56	12,437.0	2,726.3	721.2	2,783.2	0.00	0.00	0.00
15,800.0	90.00	359.56	12,437.0	2,826.3	720.4	2,882.7	0.00	0.00	0.00
15,900.0	90.00	359.56	12,437.0	2,926.3	719.6	2,982.1	0.00	0.00	0.00
16,000.0	90.00	359.56	12,437.0	3,026.3	718.9	3,081.6	0.00	0.00	0.00
16,100.0	90.00	359.56	12,437.0	3,126.3	718.1	3,181.0	0.00	0.00	0.00
16,200.0	90.00	359.56	12,437.0	3,226.3	717.4	3,280.5	0.00	0.00	0.00
16,300.0	90.00	359.56	12,437.0	3,326.3	716.6	3,380.0	0.00	0.00	0.00
16,400.0	90.00	359.56	12,437.0	3,426.3	715.8	3,479.4	0.00	0.00	0.00
16,500.0	90.00	359.56	12,437.0	3,526.3	715.1	3,578.9	0.00	0.00	0.00
16,600.0	90.00	359.56	12,437.0	3,626.3	714.3	3,678.3	0.00	0.00	0.00
16,700.0	90.00	359.56	12,437.0	3,726.3	713.6	3,777.8	0.00	0.00	0.00
16,800.0	90.00	359.56	12,437.0	3,826.3	712.8	3,877.2	0.00	0.00	0.00
16,900.0	90.00	359.56	12,437.0	3,926.3	712.0	3,976.7	0.00	0.00	0.00
17,000.0	90.00	359.56	12,437.0	4,026.3	711.3	4,076.2	0.00	0.00	0.00
17,100.0	90.00	359.56	12,437.0	4,126.3	710.5	4,175.6	0.00	0.00	0.00
17,200.0	90.00	359.56	12,437.0	4,226.3	709.8	4,275.1	0.00	0.00	0.00
17,300.0	90.00	359.56	12,437.0	4,326.3	709.0	4,374.5	0.00	0.00	0.00
17,400.0	90.00	359.56	12,437.0	4,426.3	708.2	4,474.0	0.00	0.00	0.00
17,500.0	90.00	359.56	12,437.0	4,526.3	707.5	4,573.4	0.00	0.00	0.00
17,600.0	90.00	359.56	12,437.0	4,626.3	706.7	4,672.9	0.00	0.00	0.00
17,700.0	90.00	359.56	12,437.0	4,726.3	706.0	4,772.3	0.00	0.00	0.00
17,800.0	90.00	359.56	12,437.0	4,826.3	705.2	4,871.8	0.00	0.00	0.00
17,900.0	90.00	359.56	12,437.0	4,926.3	704.4	4,971.3	0.00	0.00	0.00
18,000.0	90.00	359.56	12,437.0	5,026.2	703.7	5,070.7	0.00	0.00	0.00
18,100.0	90.00	359.56	12,437.0	5,126.2	702.9	5,170.2	0.00	0.00	0.00
18,200.0	90.00	359.56	12,437.0	5,226.2	702.2	5,269.6	0.00	0.00	0.00
18,300.0	90.00	359.56	12,437.0	5,326.2	701.4	5,369.1	0.00	0.00	0.00
18,400.0	90.00	359.56	12,437.0	5,426.2	700.6	5,468.5	0.00	0.00	0.00



Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3482.0usft
Site:	Diamond 31 Fed Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
18,500.0	90.00	359.56	12,437.0	5,526.2	699.9	5,568.0	0.00	0.00	0.00
18,600.0	90.00	359.56	12,437.0	5,626.2	699.1	5,667.5	0.00	0.00	0.00
18,700.0	90.00	359.56	12,437.0	5,726.2	698.4	5,766.9	0.00	0.00	0.00
18,800.0	90.00	359.56	12,437.0	5,826.2	697.6	5,866.4	0.00	0.00	0.00
18,900.0	90.00	359.56	12,437.0	5,926.2	696.8	5,965.8	0.00	0.00	0.00
19,000.0	90.00	359.56	12,437.0	6,026.2	696.1	6,065.3	0.00	0.00	0.00
19,100.0	90.00	359.56	12,437.0	6,126.2	695.3	6,164.7	0.00	0.00	0.00
19,200.0	90.00	359.56	12,437.0	6,226.2	694.6	6,264.2	0.00	0.00	0.00
19,300.0	90.00	359.56	12,437.0	6,326.2	693.8	6,363.6	0.00	0.00	0.00
19,400.0	90.00	359.56	12,437.0	6,426.2	693.0	6,463.1	0.00	0.00	0.00
19,500.0	90.00	359.56	12,437.0	6,526.2	692.3	6,562.6	0.00	0.00	0.00
19,600.0	90.00	359.56	12,437.0	6,626.2	691.5	6,662.0	0.00	0.00	0.00
19,700.0	90.00	359.56	12,437.0	6,726.2	690.8	6,761.5	0.00	0.00	0.00
19,800.0	90.00	359.56	12,437.0	6,826.2	690.0	6,860.9	0.00	0.00	0.00
19,900.0	90.00	359.56	12,437.0	6,926.2	689.2	6,960.4	0.00	0.00	0.00
20,000.0	90.00	359.56	12,437.0	7,026.2	688.5	7,059.8	0.00	0.00	0.00
20,063.8	90.00	359.56	12,437.0	7,090.0	688.0	7,123.3	0.00	0.00	0.00
PBHL (Diamond 31 Fed Com #705H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
KOP (Diamond 31 Fed C - plan hits target center - Point	0.00	0.00	11,959.5	-676.0	747.0	425,439.00	795,999.00	32° 10' 0.959 N	103° 30' 37.191 W
PBHL (Diamond 31 Fed - plan hits target center - Rectangle (sides W50.0 H0.0 D7,156.0)	90.00	359.56	12,437.0	7,090.0	688.0	433,205.00	795,940.00	32° 11' 17.809 N	103° 30' 37.186 W
FTP (Diamond 31 Fed C - plan misses target center by 163.4usft at 12425.0usft MD (12314.3 TVD, -518.1 N, 745.8 E) - Point	0.00	0.00	12,437.0	-626.0	747.0	425,489.00	795,999.00	32° 10' 1.454 N	103° 30' 37.186 W