



Lea County, NM (NAD 83 NME)
Caravan 28 State Com #704H
Plan #0.2

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: #704H

KB = 26 @ 3559.0usft	3534.0	
Northing	435324.00	Longitude
Eastng	772978.00	32° 11' 40.437 N
		103° 39' 4.203 W

Azimuths to Grid North
 True North: -0.40°
 Magnetic North: 6.42°

Magnetic Field
 Strength: 47787.0anT
 Dip Angle: 80.02°
 Date: 8/27/2018
 Model: IGRF2015

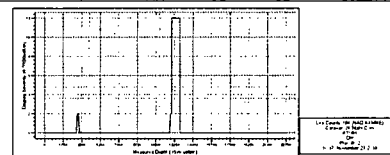
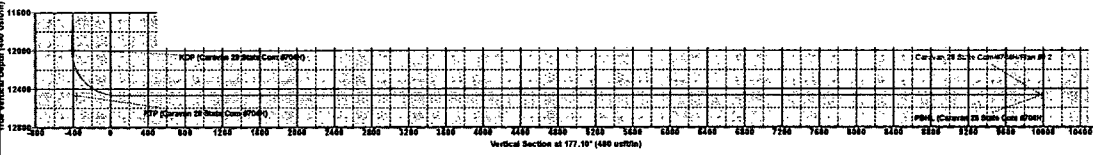
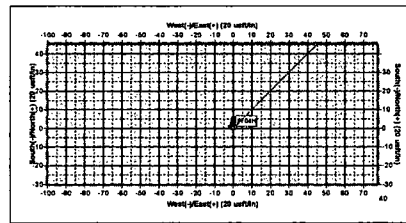
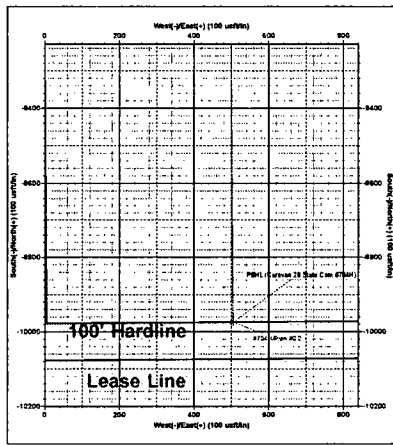
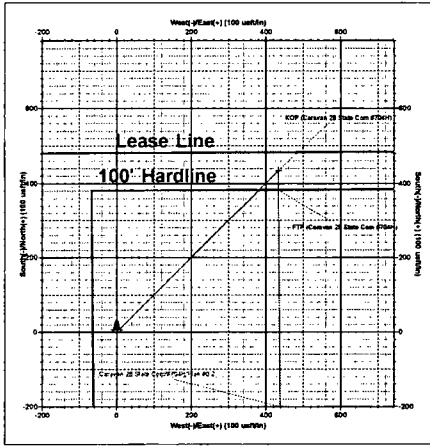
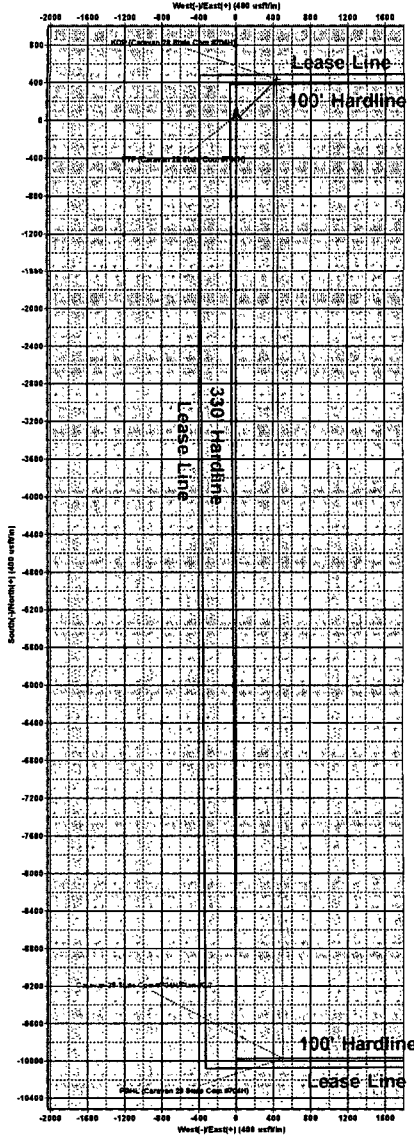
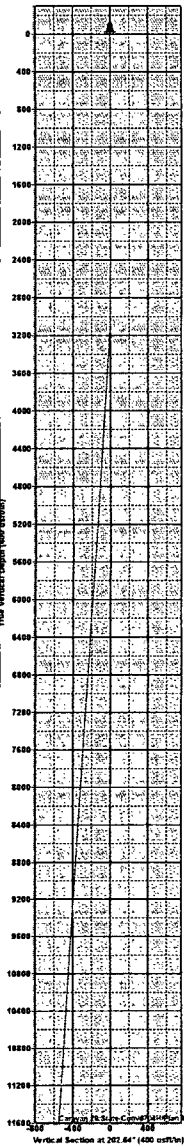
 To convert a Magnetic Direction to a Grid Direction, Add 6.42°
 To convert a Magnetic Direction to a True Direction, Add 8.82° East
 To convert a True Direction to a Grid Direction, Subtract 0.40°

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	3199.5	3.99	44.93	3199.3	4.9	4.9	2.00	44.93	-4.7	
4	11912.2	3.99	44.93	11791.2	429.1	428.1	0.00	0.00	-406.9	
5	12011.7	0.00	0.00	11990.5	434.0	433.0	2.00	180.00	-411.5	KOP (Caravan 28 State Com #704H)
6	12761.7	90.00	179.60	12468.0	-43.5	436.3	12.00	178.60	65.5	
7	22692.5	90.00	179.60	12468.0	-974.0	505.0	0.00	0.00	9986.8	PBHL (Caravan 28 State Com #704H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Eastng
KOP (Caravan 28 State Com #704H)	11990.5	434.0	433.0	433788.00	773411.00
FTP (Caravan 28 State Com #704H)	12468.0	394.0	433.0	438708.00	773411.00
PBHL (Caravan 28 State Com #704H)	12468.0	-974.0	505.0	426350.00	773483.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caravan 28 State Com

#704H

OH

Plan: Plan #0.2

Standard Planning Report

21 November, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	Caravan 28 State Com				
Site Position:		Northing:	435,288.00 usft	Latitude:	32° 11' 39.963 N
From:	Map	Easting:	774,678.00 usft	Longitude:	103° 34' 44.423 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	#704H					
Well Position	+N/-S	36.0 usft	Northing:	435,324.00 usft	Latitude:	32° 11' 40.437 N
	+E/-W	-1,700.0 usft	Easting:	772,978.00 usft	Longitude:	103° 35' 4.203 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,534.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/27/2018	6.82	60.02	47,786.95474174

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	177.10	

Plan Survey Tool Program	Date	11/21/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	22,692.5 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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,199.5	3.99	44.93	3,199.3	4.9	4.9	2.00	2.00	0.00	44.93	
11,812.2	3.99	44.93	11,791.2	429.1	428.1	0.00	0.00	0.00	0.00	
12,011.7	0.00	0.01	11,990.5	434.0	433.0	2.00	-2.00	0.00	180.00	KOP (Caravan 28 Sta
12,761.7	90.00	179.60	12,468.0	-43.5	436.3	12.00	12.00	23.95	179.60	
22,692.5	90.00	179.60	12,468.0	-9,974.0	505.0	0.00	0.00	0.00	0.00	PBHL (Caravan 28 St



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	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	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	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	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	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	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	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	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	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	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	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	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	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	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	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	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	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	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	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	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	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	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	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	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	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	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	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	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	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	0.00
2,900.0	0.00	0.00	2,900.0	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	0.0	0.00	0.00	0.00	0.00
3,100.0	2.00	44.93	3,100.0	1.2	1.2	-1.2	2.00	2.00	0.00	0.00
3,199.5	3.99	44.93	3,199.3	4.9	4.9	-4.7	2.00	2.00	0.00	0.00
3,300.0	3.99	44.93	3,299.6	9.9	9.8	-9.4	0.00	0.00	0.00	0.00
3,400.0	3.99	44.93	3,399.4	14.8	14.8	-14.0	0.00	0.00	0.00	0.00
3,500.0	3.99	44.93	3,499.1	19.7	19.7	-18.7	0.00	0.00	0.00	0.00
3,600.0	3.99	44.93	3,598.9	24.6	24.6	-23.4	0.00	0.00	0.00	0.00
3,700.0	3.99	44.93	3,698.6	29.6	29.5	-28.0	0.00	0.00	0.00	0.00
3,800.0	3.99	44.93	3,798.4	34.5	34.4	-32.7	0.00	0.00	0.00	0.00
3,900.0	3.99	44.93	3,898.1	39.4	39.3	-37.4	0.00	0.00	0.00	0.00
4,000.0	3.99	44.93	3,997.9	44.3	44.2	-42.0	0.00	0.00	0.00	0.00
4,100.0	3.99	44.93	4,097.7	49.3	49.2	-46.7	0.00	0.00	0.00	0.00
4,200.0	3.99	44.93	4,197.4	54.2	54.1	-51.4	0.00	0.00	0.00	0.00
4,300.0	3.99	44.93	4,297.2	59.1	59.0	-56.1	0.00	0.00	0.00	0.00
4,400.0	3.99	44.93	4,396.9	64.0	63.9	-60.7	0.00	0.00	0.00	0.00
4,500.0	3.99	44.93	4,496.7	69.0	68.8	-65.4	0.00	0.00	0.00	0.00
4,600.0	3.99	44.93	4,596.4	73.9	73.7	-70.1	0.00	0.00	0.00	0.00
4,700.0	3.99	44.93	4,696.2	78.8	78.6	-74.7	0.00	0.00	0.00	0.00
4,800.0	3.99	44.93	4,796.0	83.7	83.5	-79.4	0.00	0.00	0.00	0.00
4,900.0	3.99	44.93	4,895.7	88.7	88.5	-84.1	0.00	0.00	0.00	0.00
5,000.0	3.99	44.93	4,995.5	93.6	93.4	-88.7	0.00	0.00	0.00	0.00
5,100.0	3.99	44.93	5,095.2	98.5	98.3	-93.4	0.00	0.00	0.00	0.00
5,200.0	3.99	44.93	5,195.0	103.4	103.2	-98.1	0.00	0.00	0.00	0.00
5,300.0	3.99	44.93	5,294.7	108.4	108.1	-102.8	0.00	0.00	0.00	0.00



Planning Report

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 Well: #704H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 25 @ 3559.0usft
 MD Reference: KB = 25 @ 3559.0usft
 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)	
5,400.0	3.99	44.93	5,394.5	113.3	113.0	-107.4	0.00	0.00	0.00	
5,500.0	3.99	44.93	5,494.3	118.2	117.9	-112.1	0.00	0.00	0.00	
5,600.0	3.99	44.93	5,594.0	123.1	122.9	-116.8	0.00	0.00	0.00	
5,700.0	3.99	44.93	5,693.8	128.1	127.8	-121.4	0.00	0.00	0.00	
5,800.0	3.99	44.93	5,793.5	133.0	132.7	-126.1	0.00	0.00	0.00	
5,900.0	3.99	44.93	5,893.3	137.9	137.6	-130.8	0.00	0.00	0.00	
6,000.0	3.99	44.93	5,993.1	142.8	142.5	-135.4	0.00	0.00	0.00	
6,100.0	3.99	44.93	6,092.8	147.8	147.4	-140.1	0.00	0.00	0.00	
6,200.0	3.99	44.93	6,192.6	152.7	152.3	-144.8	0.00	0.00	0.00	
6,300.0	3.99	44.93	6,292.3	157.6	157.2	-149.5	0.00	0.00	0.00	
6,400.0	3.99	44.93	6,392.1	162.5	162.2	-154.1	0.00	0.00	0.00	
6,500.0	3.99	44.93	6,491.8	167.5	167.1	-158.8	0.00	0.00	0.00	
6,600.0	3.99	44.93	6,591.6	172.4	172.0	-163.5	0.00	0.00	0.00	
6,700.0	3.99	44.93	6,691.4	177.3	176.9	-168.1	0.00	0.00	0.00	
6,800.0	3.99	44.93	6,791.1	182.2	181.8	-172.8	0.00	0.00	0.00	
6,900.0	3.99	44.93	6,890.9	187.2	186.7	-177.5	0.00	0.00	0.00	
7,000.0	3.99	44.93	6,990.6	192.1	191.6	-182.2	0.00	0.00	0.00	
7,100.0	3.99	44.93	7,090.4	197.0	196.6	-186.8	0.00	0.00	0.00	
7,200.0	3.99	44.93	7,190.1	201.9	201.5	-191.5	0.00	0.00	0.00	
7,300.0	3.99	44.93	7,289.9	206.9	206.4	-196.2	0.00	0.00	0.00	
7,400.0	3.99	44.93	7,389.7	211.8	211.3	-200.8	0.00	0.00	0.00	
7,500.0	3.99	44.93	7,489.4	216.7	216.2	-205.5	0.00	0.00	0.00	
7,600.0	3.99	44.93	7,589.2	221.6	221.1	-210.2	0.00	0.00	0.00	
7,700.0	3.99	44.93	7,688.9	226.6	226.0	-214.8	0.00	0.00	0.00	
7,800.0	3.99	44.93	7,788.7	231.5	231.0	-219.5	0.00	0.00	0.00	
7,900.0	3.99	44.93	7,888.5	236.4	235.9	-224.2	0.00	0.00	0.00	
8,000.0	3.99	44.93	7,988.2	241.3	240.8	-228.9	0.00	0.00	0.00	
8,100.0	3.99	44.93	8,088.0	246.3	245.7	-233.5	0.00	0.00	0.00	
8,200.0	3.99	44.93	8,187.7	251.2	250.6	-238.2	0.00	0.00	0.00	
8,300.0	3.99	44.93	8,287.5	256.1	255.5	-242.9	0.00	0.00	0.00	
8,400.0	3.99	44.93	8,387.2	261.0	260.4	-247.5	0.00	0.00	0.00	
8,500.0	3.99	44.93	8,487.0	266.0	265.3	-252.2	0.00	0.00	0.00	
8,600.0	3.99	44.93	8,586.8	270.9	270.3	-256.9	0.00	0.00	0.00	
8,700.0	3.99	44.93	8,686.5	275.8	275.2	-261.5	0.00	0.00	0.00	
8,800.0	3.99	44.93	8,786.3	280.7	280.1	-266.2	0.00	0.00	0.00	
8,900.0	3.99	44.93	8,886.0	285.7	285.0	-270.9	0.00	0.00	0.00	
9,000.0	3.99	44.93	8,985.8	290.6	289.9	-275.6	0.00	0.00	0.00	
9,100.0	3.99	44.93	9,085.5	295.5	294.8	-280.2	0.00	0.00	0.00	
9,200.0	3.99	44.93	9,185.3	300.4	299.7	-284.9	0.00	0.00	0.00	
9,300.0	3.99	44.93	9,285.1	305.4	304.7	-289.6	0.00	0.00	0.00	
9,400.0	3.99	44.93	9,384.8	310.3	309.6	-294.2	0.00	0.00	0.00	
9,500.0	3.99	44.93	9,484.6	315.2	314.5	-298.9	0.00	0.00	0.00	
9,600.0	3.99	44.93	9,584.3	320.1	319.4	-303.6	0.00	0.00	0.00	
9,700.0	3.99	44.93	9,684.1	325.1	324.3	-308.2	0.00	0.00	0.00	
9,800.0	3.99	44.93	9,783.8	330.0	329.2	-312.9	0.00	0.00	0.00	
9,900.0	3.99	44.93	9,883.6	334.9	334.1	-317.6	0.00	0.00	0.00	
10,000.0	3.99	44.93	9,983.4	339.8	339.1	-322.3	0.00	0.00	0.00	
10,100.0	3.99	44.93	10,083.1	344.8	344.0	-326.9	0.00	0.00	0.00	
10,200.0	3.99	44.93	10,182.9	349.7	348.9	-331.6	0.00	0.00	0.00	
10,300.0	3.99	44.93	10,282.6	354.6	353.8	-336.3	0.00	0.00	0.00	
10,400.0	3.99	44.93	10,382.4	359.5	358.7	-340.9	0.00	0.00	0.00	
10,500.0	3.99	44.93	10,482.2	364.5	363.6	-345.6	0.00	0.00	0.00	
10,600.0	3.99	44.93	10,581.9	369.4	368.5	-350.3	0.00	0.00	0.00	
10,700.0	3.99	44.93	10,681.7	374.3	373.4	-354.9	0.00	0.00	0.00	

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	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)	
10,800.0	3.99	44.93	10,781.4	379.2	378.4	-359.6	0.00	0.00	0.00	
10,900.0	3.99	44.93	10,881.2	384.2	383.3	-364.3	0.00	0.00	0.00	
11,000.0	3.99	44.93	10,980.9	389.1	388.2	-369.0	0.00	0.00	0.00	
11,100.0	3.99	44.93	11,080.7	394.0	393.1	-373.6	0.00	0.00	0.00	
11,200.0	3.99	44.93	11,180.5	398.9	398.0	-378.3	0.00	0.00	0.00	
11,300.0	3.99	44.93	11,280.2	403.9	402.9	-383.0	0.00	0.00	0.00	
11,400.0	3.99	44.93	11,380.0	408.8	407.8	-387.6	0.00	0.00	0.00	
11,500.0	3.99	44.93	11,479.7	413.7	412.8	-392.3	0.00	0.00	0.00	
11,600.0	3.99	44.93	11,579.5	418.6	417.7	-397.0	0.00	0.00	0.00	
11,700.0	3.99	44.93	11,679.2	423.6	422.6	-401.6	0.00	0.00	0.00	
11,800.0	3.99	44.93	11,779.0	428.5	427.5	-406.3	0.00	0.00	0.00	
11,812.2	3.99	44.93	11,791.2	429.1	428.1	-406.9	0.00	0.00	0.00	
11,900.0	2.23	44.93	11,878.8	432.5	431.5	-410.1	2.00	-2.00	0.00	
12,000.0	0.23	44.93	11,978.8	434.0	433.0	-411.5	2.00	-2.00	0.00	
12,011.7	0.00	0.01	11,990.5	434.0	433.0	-411.5	2.00	-2.00	0.00	
KOP (Caravan 28 State Com #704H)										
12,025.0	1.60	179.60	12,003.8	433.8	433.0	-411.4	12.00	12.00	0.00	
12,050.0	4.60	179.60	12,028.8	432.5	433.0	-410.0	12.00	12.00	0.00	
12,075.0	7.60	179.60	12,053.6	429.8	433.0	-407.4	12.00	12.00	0.00	
12,100.0	10.60	179.60	12,078.3	425.9	433.1	-403.4	12.00	12.00	0.00	
12,125.0	13.60	179.60	12,102.7	420.6	433.1	-398.2	12.00	12.00	0.00	
12,150.0	16.60	179.60	12,126.9	414.1	433.1	-391.7	12.00	12.00	0.00	
12,175.0	19.60	179.60	12,150.6	406.3	433.2	-383.9	12.00	12.00	0.00	
12,200.0	22.60	179.60	12,174.0	397.3	433.3	-374.9	12.00	12.00	0.00	
12,225.0	25.60	179.60	12,196.8	387.1	433.3	-364.7	12.00	12.00	0.00	
12,250.0	28.60	179.60	12,219.0	375.8	433.4	-353.4	12.00	12.00	0.00	
12,275.0	31.60	179.60	12,240.7	363.2	433.5	-340.8	12.00	12.00	0.00	
12,300.0	34.60	179.60	12,261.6	349.6	433.6	-327.2	12.00	12.00	0.00	
12,325.0	37.60	179.60	12,281.8	334.8	433.7	-312.5	12.00	12.00	0.00	
12,350.0	40.60	179.60	12,301.2	319.1	433.8	-296.7	12.00	12.00	0.00	
12,375.0	43.60	179.60	12,319.8	302.3	433.9	-280.0	12.00	12.00	0.00	
12,400.0	46.60	179.60	12,337.4	284.6	434.0	-262.3	12.00	12.00	0.00	
12,413.3	48.19	179.60	12,346.4	274.9	434.1	-252.6	12.00	12.00	0.00	
FTP (Caravan 28 State Com #704H)										
12,425.0	49.60	179.60	12,354.1	266.0	434.2	-243.7	12.00	12.00	0.00	
12,450.0	52.60	179.60	12,369.8	246.6	434.3	-224.3	12.00	12.00	0.00	
12,475.0	55.60	179.60	12,384.4	226.3	434.4	-204.1	12.00	12.00	0.00	
12,500.0	58.60	179.60	12,398.0	205.3	434.6	-183.1	12.00	12.00	0.00	
12,525.0	61.60	179.60	12,410.5	183.7	434.7	-161.4	12.00	12.00	0.00	
12,550.0	64.60	179.60	12,421.8	161.4	434.9	-139.2	12.00	12.00	0.00	
12,575.0	67.60	179.60	12,431.9	138.5	435.0	-116.3	12.00	12.00	0.00	
12,600.0	70.60	179.60	12,440.8	115.2	435.2	-93.0	12.00	12.00	0.00	
12,625.0	73.60	179.60	12,448.5	91.4	435.4	-69.2	12.00	12.00	0.00	
12,650.0	76.60	179.60	12,455.0	67.2	435.5	-45.1	12.00	12.00	0.00	
12,675.0	79.60	179.60	12,460.1	42.8	435.7	-20.7	12.00	12.00	0.00	
12,700.0	82.60	179.60	12,464.0	18.1	435.9	4.0	12.00	12.00	0.00	
12,725.0	85.60	179.60	12,466.6	-6.8	436.0	28.8	12.00	12.00	0.00	
12,750.0	88.60	179.60	12,467.8	-31.8	436.2	53.8	12.00	12.00	0.00	
12,761.7	90.00	179.60	12,468.0	-43.5	436.3	65.5	12.00	12.00	0.00	
12,800.0	90.00	179.60	12,468.0	-81.8	436.6	103.7	0.00	0.00	0.00	
12,900.0	90.00	179.60	12,468.0	-181.8	437.3	203.6	0.00	0.00	0.00	
13,000.0	90.00	179.60	12,468.0	-281.8	438.0	303.5	0.00	0.00	0.00	
13,100.0	90.00	179.60	12,468.0	-381.8	438.6	403.4	0.00	0.00	0.00	
13,200.0	90.00	179.60	12,468.0	-481.8	439.3	503.4	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	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)
13,300.0	90.00	179.60	12,468.0	-581.8	440.0	603.3	0.00	0.00	0.00
13,400.0	90.00	179.60	12,468.0	-681.7	440.7	703.2	0.00	0.00	0.00
13,500.0	90.00	179.60	12,468.0	-781.7	441.4	803.1	0.00	0.00	0.00
13,600.0	90.00	179.60	12,468.0	-881.7	442.1	903.0	0.00	0.00	0.00
13,700.0	90.00	179.60	12,468.0	-981.7	442.8	1,002.9	0.00	0.00	0.00
13,800.0	90.00	179.60	12,468.0	-1,081.7	443.5	1,102.8	0.00	0.00	0.00
13,900.0	90.00	179.60	12,468.0	-1,181.7	444.2	1,202.7	0.00	0.00	0.00
14,000.0	90.00	179.60	12,468.0	-1,281.7	444.9	1,302.6	0.00	0.00	0.00
14,100.0	90.00	179.60	12,468.0	-1,381.7	445.6	1,402.5	0.00	0.00	0.00
14,200.0	90.00	179.60	12,468.0	-1,481.7	446.3	1,502.4	0.00	0.00	0.00
14,300.0	90.00	179.60	12,468.0	-1,581.7	446.9	1,602.3	0.00	0.00	0.00
14,400.0	90.00	179.60	12,468.0	-1,681.7	447.6	1,702.2	0.00	0.00	0.00
14,500.0	90.00	179.60	12,468.0	-1,781.7	448.3	1,802.1	0.00	0.00	0.00
14,600.0	90.00	179.60	12,468.0	-1,881.7	449.0	1,902.0	0.00	0.00	0.00
14,700.0	90.00	179.60	12,468.0	-1,981.7	449.7	2,001.9	0.00	0.00	0.00
14,800.0	90.00	179.60	12,468.0	-2,081.7	450.4	2,101.8	0.00	0.00	0.00
14,900.0	90.00	179.60	12,468.0	-2,181.7	451.1	2,201.7	0.00	0.00	0.00
15,000.0	90.00	179.60	12,468.0	-2,281.7	451.8	2,301.6	0.00	0.00	0.00
15,100.0	90.00	179.60	12,468.0	-2,381.7	452.5	2,401.5	0.00	0.00	0.00
15,200.0	90.00	179.60	12,468.0	-2,481.7	453.2	2,501.4	0.00	0.00	0.00
15,300.0	90.00	179.60	12,468.0	-2,581.7	453.9	2,601.4	0.00	0.00	0.00
15,400.0	90.00	179.60	12,468.0	-2,681.7	454.6	2,701.3	0.00	0.00	0.00
15,500.0	90.00	179.60	12,468.0	-2,781.7	455.3	2,801.2	0.00	0.00	0.00
15,600.0	90.00	179.60	12,468.0	-2,881.7	455.9	2,901.1	0.00	0.00	0.00
15,700.0	90.00	179.60	12,468.0	-2,981.7	456.6	3,001.0	0.00	0.00	0.00
15,800.0	90.00	179.60	12,468.0	-3,081.7	457.3	3,100.9	0.00	0.00	0.00
15,900.0	90.00	179.60	12,468.0	-3,181.7	458.0	3,200.8	0.00	0.00	0.00
16,000.0	90.00	179.60	12,468.0	-3,281.7	458.7	3,300.7	0.00	0.00	0.00
16,100.0	90.00	179.60	12,468.0	-3,381.7	459.4	3,400.6	0.00	0.00	0.00
16,200.0	90.00	179.60	12,468.0	-3,481.7	460.1	3,500.5	0.00	0.00	0.00
16,300.0	90.00	179.60	12,468.0	-3,581.7	460.8	3,600.4	0.00	0.00	0.00
16,400.0	90.00	179.60	12,468.0	-3,681.7	461.5	3,700.3	0.00	0.00	0.00
16,500.0	90.00	179.60	12,468.0	-3,781.7	462.2	3,800.2	0.00	0.00	0.00
16,600.0	90.00	179.60	12,468.0	-3,881.7	462.9	3,900.1	0.00	0.00	0.00
16,700.0	90.00	179.60	12,468.0	-3,981.7	463.5	4,000.0	0.00	0.00	0.00
16,800.0	90.00	179.60	12,468.0	-4,081.7	464.2	4,099.9	0.00	0.00	0.00
16,900.0	90.00	179.60	12,468.0	-4,181.7	464.9	4,199.8	0.00	0.00	0.00
17,000.0	90.00	179.60	12,468.0	-4,281.7	465.6	4,299.7	0.00	0.00	0.00
17,100.0	90.00	179.60	12,468.0	-4,381.7	466.3	4,399.6	0.00	0.00	0.00
17,200.0	90.00	179.60	12,468.0	-4,481.7	467.0	4,499.5	0.00	0.00	0.00
17,300.0	90.00	179.60	12,468.0	-4,581.7	467.7	4,599.4	0.00	0.00	0.00
17,400.0	90.00	179.60	12,468.0	-4,681.7	468.4	4,699.3	0.00	0.00	0.00
17,500.0	90.00	179.60	12,468.0	-4,781.7	469.1	4,799.3	0.00	0.00	0.00
17,600.0	90.00	179.60	12,468.0	-4,881.6	469.8	4,899.2	0.00	0.00	0.00
17,700.0	90.00	179.60	12,468.0	-4,981.6	470.5	4,999.1	0.00	0.00	0.00
17,800.0	90.00	179.60	12,468.0	-5,081.6	471.2	5,099.0	0.00	0.00	0.00
17,900.0	90.00	179.60	12,468.0	-5,181.6	471.8	5,198.9	0.00	0.00	0.00
18,000.0	90.00	179.60	12,468.0	-5,281.6	472.5	5,298.8	0.00	0.00	0.00
18,100.0	90.00	179.60	12,468.0	-5,381.6	473.2	5,398.7	0.00	0.00	0.00
18,200.0	90.00	179.60	12,468.0	-5,481.6	473.9	5,498.6	0.00	0.00	0.00
18,300.0	90.00	179.60	12,468.0	-5,581.6	474.6	5,598.5	0.00	0.00	0.00
18,400.0	90.00	179.60	12,468.0	-5,681.6	475.3	5,698.4	0.00	0.00	0.00
18,500.0	90.00	179.60	12,468.0	-5,781.6	476.0	5,798.3	0.00	0.00	0.00
18,600.0	90.00	179.60	12,468.0	-5,881.6	476.7	5,898.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	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)
18,700.0	90.00	179.60	12,468.0	-5,981.6	477.4	5,998.1	0.00	0.00	0.00
18,800.0	90.00	179.60	12,468.0	-6,081.6	478.1	6,098.0	0.00	0.00	0.00
18,900.0	90.00	179.60	12,468.0	-6,181.6	478.8	6,197.9	0.00	0.00	0.00
19,000.0	90.00	179.60	12,468.0	-6,281.6	479.5	6,297.8	0.00	0.00	0.00
19,100.0	90.00	179.60	12,468.0	-6,381.6	480.1	6,397.7	0.00	0.00	0.00
19,200.0	90.00	179.60	12,468.0	-6,481.6	480.8	6,497.6	0.00	0.00	0.00
19,300.0	90.00	179.60	12,468.0	-6,581.6	481.5	6,597.5	0.00	0.00	0.00
19,400.0	90.00	179.60	12,468.0	-6,681.6	482.2	6,697.4	0.00	0.00	0.00
19,500.0	90.00	179.60	12,468.0	-6,781.6	482.9	6,797.3	0.00	0.00	0.00
19,600.0	90.00	179.60	12,468.0	-6,881.6	483.6	6,897.3	0.00	0.00	0.00
19,700.0	90.00	179.60	12,468.0	-6,981.6	484.3	6,997.2	0.00	0.00	0.00
19,800.0	90.00	179.60	12,468.0	-7,081.6	485.0	7,097.1	0.00	0.00	0.00
19,900.0	90.00	179.60	12,468.0	-7,181.6	485.7	7,197.0	0.00	0.00	0.00
20,000.0	90.00	179.60	12,468.0	-7,281.6	486.4	7,296.9	0.00	0.00	0.00
20,100.0	90.00	179.60	12,468.0	-7,381.6	487.1	7,396.8	0.00	0.00	0.00
20,200.0	90.00	179.60	12,468.0	-7,481.6	487.8	7,496.7	0.00	0.00	0.00
20,300.0	90.00	179.60	12,468.0	-7,581.6	488.4	7,596.6	0.00	0.00	0.00
20,400.0	90.00	179.60	12,468.0	-7,681.6	489.1	7,696.5	0.00	0.00	0.00
20,500.0	90.00	179.60	12,468.0	-7,781.6	489.8	7,796.4	0.00	0.00	0.00
20,600.0	90.00	179.60	12,468.0	-7,881.6	490.5	7,896.3	0.00	0.00	0.00
20,700.0	90.00	179.60	12,468.0	-7,981.6	491.2	7,996.2	0.00	0.00	0.00
20,800.0	90.00	179.60	12,468.0	-8,081.6	491.9	8,096.1	0.00	0.00	0.00
20,900.0	90.00	179.60	12,468.0	-8,181.6	492.6	8,196.0	0.00	0.00	0.00
21,000.0	90.00	179.60	12,468.0	-8,281.6	493.3	8,295.9	0.00	0.00	0.00
21,100.0	90.00	179.60	12,468.0	-8,381.6	494.0	8,395.8	0.00	0.00	0.00
21,200.0	90.00	179.60	12,468.0	-8,481.6	494.7	8,495.7	0.00	0.00	0.00
21,300.0	90.00	179.60	12,468.0	-8,581.6	495.4	8,595.6	0.00	0.00	0.00
21,400.0	90.00	179.60	12,468.0	-8,681.6	496.1	8,695.5	0.00	0.00	0.00
21,500.0	90.00	179.60	12,468.0	-8,781.6	496.8	8,795.4	0.00	0.00	0.00
21,600.0	90.00	179.60	12,468.0	-8,881.6	497.4	8,895.3	0.00	0.00	0.00
21,700.0	90.00	179.60	12,468.0	-8,981.5	498.1	8,995.2	0.00	0.00	0.00
21,800.0	90.00	179.60	12,468.0	-9,081.5	498.8	9,095.2	0.00	0.00	0.00
21,900.0	90.00	179.60	12,468.0	-9,181.5	499.5	9,195.1	0.00	0.00	0.00
22,000.0	90.00	179.60	12,468.0	-9,281.5	500.2	9,295.0	0.00	0.00	0.00
22,100.0	90.00	179.60	12,468.0	-9,381.5	500.9	9,394.9	0.00	0.00	0.00
22,200.0	90.00	179.60	12,468.0	-9,481.5	501.6	9,494.8	0.00	0.00	0.00
22,300.0	90.00	179.60	12,468.0	-9,581.5	502.3	9,594.7	0.00	0.00	0.00
22,400.0	90.00	179.60	12,468.0	-9,681.5	503.0	9,694.6	0.00	0.00	0.00
22,500.0	90.00	179.60	12,468.0	-9,781.5	503.7	9,794.5	0.00	0.00	0.00
22,600.0	90.00	179.60	12,468.0	-9,881.5	504.4	9,894.4	0.00	0.00	0.00
22,692.5	90.00	179.60	12,468.0	-9,974.0	505.0	9,986.8	0.00	0.00	0.00

PBHL (Caravan 28 State Com #704H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3559.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3559.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
KOP (Caravan 28 State - plan hits target center - Point	0.00	0.01	11,990.5	434.0	433.0	435,758.00	773,411.00	32° 11' 44.702 N	103° 34' 59.129 W
FTP (Caravan 28 State - plan misses target center by 163.4usft at 12413.3usft MD (12346.4 TVD, 274.9 N, 434.1 E) - Point	0.00	0.00	12,468.0	384.0	433.0	435,708.00	773,411.00	32° 11' 44.207 N	103° 34' 59.133 W
PBHL (Caravan 28 State - plan hits target center - Point	0.00	0.00	12,468.0	-9,974.0	505.0	425,350.00	773,483.00	32° 10' 1.707 N	103° 34' 59.136 W