

HOBES OGD
NOV 27 2018
RECEIVED



Lea County, NM (NAD 83 NME)

Caravan 28 State Com #702H

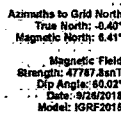
Plan #0.2

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: #702H

KB = 25 @ 3543.0usR
Northing 438235.00 Easting 774738.00 32° 11' 39.435 N 103° 34' 43.729 W



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.41°
Magnetic Field
Strength: 47747.8nT
Dip Angle: 66.02°
Date: 9/28/2018
Model: IGRF2015

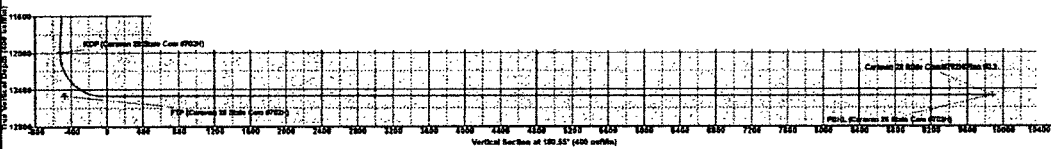
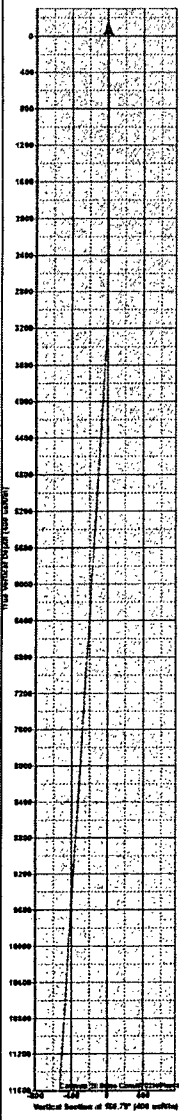
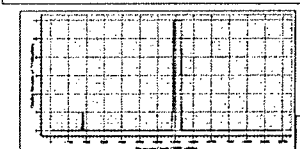
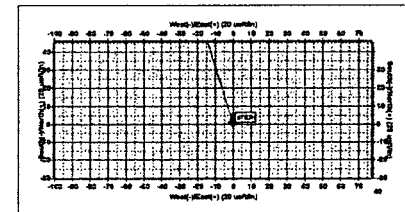
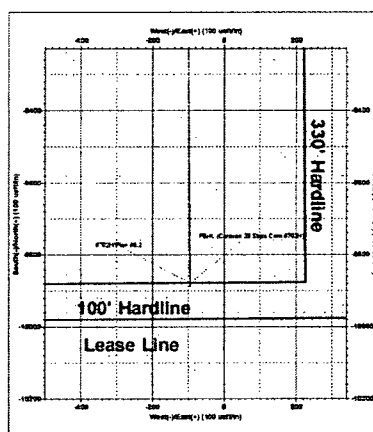
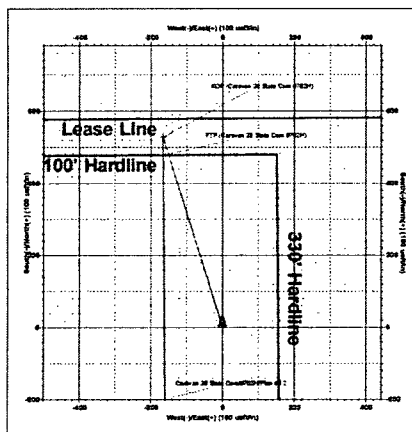
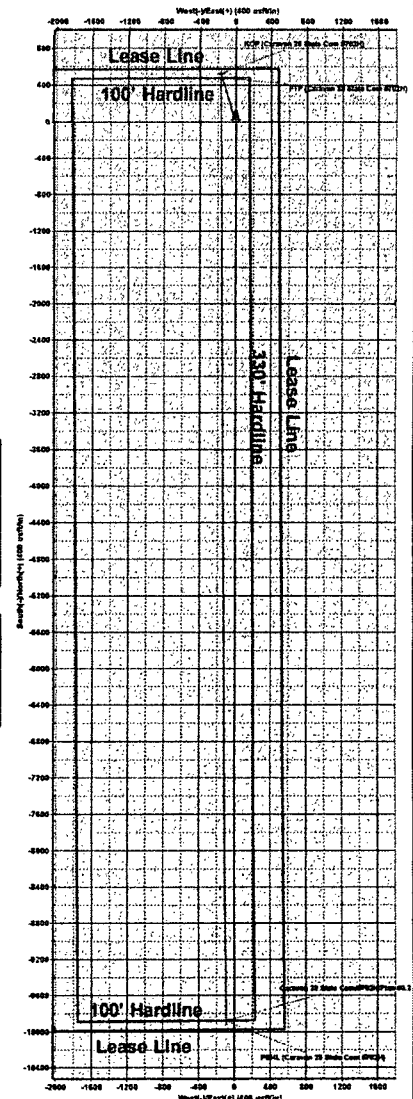
To convert a Magnetic Direction to a Grid Direction, Add 6.41°
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl	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	3179.8	3.60	342.45	3179.7	5.4	-1.7	2.00	342.45	-5.4	
4	11827.9	3.60	342.45	11810.8	522.6	-165.3	0.00	0.00	-521.0	
5	12007.8	0.00	0.00	11990.5	528.0	-167.0	2.00	180.00	-528.4	KOP (Caravan 28 State Com #702H)
6	12757.8	90.00	179.60	12468.0	50.5	-163.7	12.00	179.60	-49.0	
7	22686.8	90.00	179.60	12468.0	-9878.0	-95.0	0.00	0.00	9878.5	PBHL (Caravan 28 State Com #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
KOP (Caravan 28 State Com #702H)	11990.5	528.0	-167.0	438763.00	774671.00
FTP (Caravan 28 State Com #702H)	12468.0	478.0	-167.0	438713.00	774671.00
PBHL (Caravan 28 State Com #702H)	12468.0	-9878.0	-95.0	435367.00	774643.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caravan 28 State Com

#702H

OH

Plan: Plan #0.2

Standard Planning Report

21 November, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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:	From: Map	Northing:	435,288.00 usft
		Easting:	774,678.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 39.963 N
		Longitude:	103° 34' 44.423 W
		Grid Convergence:	0.40 °

Well	#702H		
Well Position	+N/-S	-53.0 usft	Northing:
	+E/-W	60.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,518.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	9/26/2018	6.82
			Dip Angle
			60.02
			Field Strength
			47,787.78387720

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			180.55

Plan Survey Tool Program	Date: 11/21/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	22,686.6 Plan #0.2 (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	
3,179.8	3.60	342.45	3,179.7	5.4	-1.7	2.00	2.00	0.00	342.45	
11,827.9	3.60	342.45	11,810.8	522.6	-165.3	0.00	0.00	0.00	0.00	
12,007.8	0.00	0.00	11,990.5	528.0	-167.0	2.00	-2.00	0.00	180.00	KOP (Caravan 28 Sta
12,757.8	90.00	179.60	12,468.0	50.5	-163.7	12.00	12.00	23.95	179.60	
22,686.6	90.00	179.60	12,468.0	-9,878.0	-95.0	0.00	0.00	0.00	0.00	PBHL (Caravan 28 St



Planning Report

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Company:	Eog Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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	2.00	342.45	3,100.0	1.7	-0.5	-1.7	2.00	2.00	0.00
3,179.8	3.60	342.45	3,179.7	5.4	-1.7	-5.4	2.00	2.00	0.00
3,200.0	3.60	342.45	3,199.8	6.6	-2.1	-6.6	0.00	0.00	0.00
3,300.0	3.60	342.45	3,299.6	12.6	-4.0	-12.5	0.00	0.00	0.00
3,400.0	3.60	342.45	3,399.4	18.5	-5.9	-18.5	0.00	0.00	0.00
3,500.0	3.60	342.45	3,499.3	24.5	-7.8	-24.5	0.00	0.00	0.00
3,600.0	3.60	342.45	3,599.1	30.5	-9.6	-30.4	0.00	0.00	0.00
3,700.0	3.60	342.45	3,698.9	36.5	-11.5	-36.4	0.00	0.00	0.00
3,800.0	3.60	342.45	3,798.7	42.5	-13.4	-42.3	0.00	0.00	0.00
3,900.0	3.60	342.45	3,898.5	48.5	-15.3	-48.3	0.00	0.00	0.00
4,000.0	3.60	342.45	3,998.3	54.4	-17.2	-54.3	0.00	0.00	0.00
4,100.0	3.60	342.45	4,098.1	60.4	-19.1	-60.2	0.00	0.00	0.00
4,200.0	3.60	342.45	4,197.9	66.4	-21.0	-66.2	0.00	0.00	0.00
4,300.0	3.60	342.45	4,297.7	72.4	-22.9	-72.2	0.00	0.00	0.00
4,400.0	3.60	342.45	4,397.5	78.4	-24.8	-78.1	0.00	0.00	0.00
4,500.0	3.60	342.45	4,497.3	84.3	-26.7	-84.1	0.00	0.00	0.00
4,600.0	3.60	342.45	4,597.1	90.3	-28.6	-90.0	0.00	0.00	0.00
4,700.0	3.60	342.45	4,696.9	96.3	-30.5	-96.0	0.00	0.00	0.00
4,800.0	3.60	342.45	4,796.7	102.3	-32.4	-102.0	0.00	0.00	0.00
4,900.0	3.60	342.45	4,896.5	108.3	-34.2	-107.9	0.00	0.00	0.00
5,000.0	3.60	342.45	4,996.3	114.2	-36.1	-113.9	0.00	0.00	0.00
5,100.0	3.60	342.45	5,096.1	120.2	-38.0	-119.9	0.00	0.00	0.00
5,200.0	3.60	342.45	5,195.9	126.2	-39.9	-125.8	0.00	0.00	0.00



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Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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)	
5,300.0	3.60	342.45	5,295.7	132.2	-41.8	-131.8	0.00	0.00	0.00	
5,400.0	3.60	342.45	5,395.5	138.2	-43.7	-137.7	0.00	0.00	0.00	
5,500.0	3.60	342.45	5,495.3	144.1	-45.6	-143.7	0.00	0.00	0.00	
5,600.0	3.60	342.45	5,595.1	150.1	-47.5	-149.7	0.00	0.00	0.00	
5,700.0	3.60	342.45	5,694.9	156.1	-49.4	-155.6	0.00	0.00	0.00	
5,800.0	3.60	342.45	5,794.7	162.1	-51.3	-161.6	0.00	0.00	0.00	
5,900.0	3.60	342.45	5,894.5	168.1	-53.2	-167.6	0.00	0.00	0.00	
6,000.0	3.60	342.45	5,994.3	174.1	-55.1	-173.5	0.00	0.00	0.00	
6,100.0	3.60	342.45	6,094.1	180.0	-56.9	-179.5	0.00	0.00	0.00	
6,200.0	3.60	342.45	6,193.9	186.0	-58.8	-185.4	0.00	0.00	0.00	
6,300.0	3.60	342.45	6,293.7	192.0	-60.7	-191.4	0.00	0.00	0.00	
6,400.0	3.60	342.45	6,393.5	198.0	-62.6	-197.4	0.00	0.00	0.00	
6,500.0	3.60	342.45	6,493.3	204.0	-64.5	-203.3	0.00	0.00	0.00	
6,600.0	3.60	342.45	6,593.1	209.9	-66.4	-209.3	0.00	0.00	0.00	
6,700.0	3.60	342.45	6,692.9	215.9	-68.3	-215.3	0.00	0.00	0.00	
6,800.0	3.60	342.45	6,792.8	221.9	-70.2	-221.2	0.00	0.00	0.00	
6,900.0	3.60	342.45	6,892.6	227.9	-72.1	-227.2	0.00	0.00	0.00	
7,000.0	3.60	342.45	6,992.4	233.9	-74.0	-233.1	0.00	0.00	0.00	
7,100.0	3.60	342.45	7,092.2	239.8	-75.9	-239.1	0.00	0.00	0.00	
7,200.0	3.60	342.45	7,192.0	245.8	-77.8	-245.1	0.00	0.00	0.00	
7,300.0	3.60	342.45	7,291.8	251.8	-79.6	-251.0	0.00	0.00	0.00	
7,400.0	3.60	342.45	7,391.6	257.8	-81.5	-257.0	0.00	0.00	0.00	
7,500.0	3.60	342.45	7,491.4	263.8	-83.4	-263.0	0.00	0.00	0.00	
7,600.0	3.60	342.45	7,591.2	269.7	-85.3	-268.9	0.00	0.00	0.00	
7,700.0	3.60	342.45	7,691.0	275.7	-87.2	-274.9	0.00	0.00	0.00	
7,800.0	3.60	342.45	7,790.8	281.7	-89.1	-280.8	0.00	0.00	0.00	
7,900.0	3.60	342.45	7,890.6	287.7	-91.0	-286.8	0.00	0.00	0.00	
8,000.0	3.60	342.45	7,990.4	293.7	-92.9	-292.8	0.00	0.00	0.00	
8,100.0	3.60	342.45	8,090.2	299.7	-94.8	-298.7	0.00	0.00	0.00	
8,200.0	3.60	342.45	8,190.0	305.6	-96.7	-304.7	0.00	0.00	0.00	
8,300.0	3.60	342.45	8,289.8	311.6	-98.6	-310.7	0.00	0.00	0.00	
8,400.0	3.60	342.45	8,389.6	317.6	-100.5	-316.6	0.00	0.00	0.00	
8,500.0	3.60	342.45	8,489.4	323.6	-102.3	-322.6	0.00	0.00	0.00	
8,600.0	3.60	342.45	8,589.2	329.6	-104.2	-328.5	0.00	0.00	0.00	
8,700.0	3.60	342.45	8,689.0	335.5	-106.1	-334.5	0.00	0.00	0.00	
8,800.0	3.60	342.45	8,788.8	341.5	-108.0	-340.5	0.00	0.00	0.00	
8,900.0	3.60	342.45	8,888.6	347.5	-109.9	-346.4	0.00	0.00	0.00	
9,000.0	3.60	342.45	8,988.4	353.5	-111.8	-352.4	0.00	0.00	0.00	
9,100.0	3.60	342.45	9,088.2	359.5	-113.7	-358.4	0.00	0.00	0.00	
9,200.0	3.60	342.45	9,188.0	365.4	-115.6	-364.3	0.00	0.00	0.00	
9,300.0	3.60	342.45	9,287.8	371.4	-117.5	-370.3	0.00	0.00	0.00	
9,400.0	3.60	342.45	9,387.6	377.4	-119.4	-376.2	0.00	0.00	0.00	
9,500.0	3.60	342.45	9,487.4	383.4	-121.3	-382.2	0.00	0.00	0.00	
9,600.0	3.60	342.45	9,587.2	389.4	-123.2	-388.2	0.00	0.00	0.00	
9,700.0	3.60	342.45	9,687.0	395.3	-125.0	-394.1	0.00	0.00	0.00	
9,800.0	3.60	342.45	9,786.8	401.3	-126.9	-400.1	0.00	0.00	0.00	
9,900.0	3.60	342.45	9,886.6	407.3	-128.8	-406.1	0.00	0.00	0.00	
10,000.0	3.60	342.45	9,986.4	413.3	-130.7	-412.0	0.00	0.00	0.00	
10,100.0	3.60	342.45	10,086.3	419.3	-132.6	-418.0	0.00	0.00	0.00	
10,200.0	3.60	342.45	10,186.1	425.3	-134.5	-423.9	0.00	0.00	0.00	
10,300.0	3.60	342.45	10,285.9	431.2	-136.4	-429.9	0.00	0.00	0.00	
10,400.0	3.60	342.45	10,385.7	437.2	-138.3	-435.9	0.00	0.00	0.00	
10,500.0	3.60	342.45	10,485.5	443.2	-140.2	-441.8	0.00	0.00	0.00	
10,600.0	3.60	342.45	10,585.3	449.2	-142.1	-447.8	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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)
10,700.0	3.60	342.45	10,685.1	455.2	-144.0	-453.8	0.00	0.00	0.00
10,800.0	3.60	342.45	10,784.9	461.1	-145.9	-459.7	0.00	0.00	0.00
10,900.0	3.60	342.45	10,884.7	467.1	-147.7	-465.7	0.00	0.00	0.00
11,000.0	3.60	342.45	10,984.5	473.1	-149.6	-471.6	0.00	0.00	0.00
11,100.0	3.60	342.45	11,084.3	479.1	-151.5	-477.6	0.00	0.00	0.00
11,200.0	3.60	342.45	11,184.1	485.1	-153.4	-483.6	0.00	0.00	0.00
11,300.0	3.60	342.45	11,283.9	491.0	-155.3	-489.5	0.00	0.00	0.00
11,400.0	3.60	342.45	11,383.7	497.0	-157.2	-495.5	0.00	0.00	0.00
11,500.0	3.60	342.45	11,483.5	503.0	-159.1	-501.5	0.00	0.00	0.00
11,600.0	3.60	342.45	11,583.3	509.0	-161.0	-507.4	0.00	0.00	0.00
11,700.0	3.60	342.45	11,683.1	515.0	-162.9	-513.4	0.00	0.00	0.00
11,800.0	3.60	342.45	11,782.9	520.9	-164.8	-519.3	0.00	0.00	0.00
11,827.9	3.60	342.45	11,810.8	522.6	-165.3	-521.0	0.00	0.00	0.00
11,900.0	2.16	342.45	11,882.8	526.1	-166.4	-524.4	2.00	-2.00	0.00
12,007.8	0.00	0.00	11,990.5	528.0	-167.0	-526.4	2.00	-2.00	0.00
KOP (Caravan 28 State Com #702H)									
12,025.0	2.07	179.60	12,007.7	527.7	-167.0	-526.1	12.00	12.00	0.00
12,050.0	5.07	179.60	12,032.7	526.1	-167.0	-524.5	12.00	12.00	0.00
12,075.0	8.07	179.60	12,057.5	523.3	-167.0	-521.6	12.00	12.00	0.00
12,100.0	11.07	179.60	12,082.2	519.1	-166.9	-517.5	12.00	12.00	0.00
12,125.0	14.07	179.60	12,106.6	513.7	-166.9	-512.1	12.00	12.00	0.00
12,150.0	17.07	179.60	12,130.6	507.0	-166.9	-505.3	12.00	12.00	0.00
12,175.0	20.07	179.60	12,154.3	499.0	-166.8	-497.4	12.00	12.00	0.00
12,200.0	23.07	179.60	12,177.6	489.8	-166.7	-488.2	12.00	12.00	0.00
12,225.0	26.07	179.60	12,200.3	479.4	-166.7	-477.8	12.00	12.00	0.00
12,250.0	29.07	179.60	12,222.5	467.9	-166.6	-466.2	12.00	12.00	0.00
12,275.0	32.07	179.60	12,244.0	455.2	-166.5	-453.5	12.00	12.00	0.00
12,300.0	35.07	179.60	12,264.8	441.3	-166.4	-439.7	12.00	12.00	0.00
12,325.0	38.07	179.60	12,284.9	426.4	-166.3	-424.8	12.00	12.00	0.00
12,350.0	41.07	179.60	12,304.2	410.5	-166.2	-408.9	12.00	12.00	0.00
12,375.0	44.07	179.60	12,322.6	393.6	-166.1	-392.0	12.00	12.00	0.00
12,400.0	47.07	179.60	12,340.1	375.8	-165.9	-374.1	12.00	12.00	0.00
12,408.0	48.03	179.60	12,345.5	369.9	-165.9	-368.2	12.00	12.00	0.00
FTP (Caravan 28 State Com #702H)									
12,425.0	50.07	179.60	12,356.6	357.0	-165.8	-355.4	12.00	12.00	0.00
12,450.0	53.07	179.60	12,372.2	337.4	-165.7	-335.8	12.00	12.00	0.00
12,475.0	56.07	179.60	12,386.7	317.1	-165.5	-315.5	12.00	12.00	0.00
12,500.0	59.07	179.60	12,400.1	296.0	-165.4	-294.4	12.00	12.00	0.00
12,525.0	62.07	179.60	12,412.3	274.2	-165.2	-272.6	12.00	12.00	0.00
12,550.0	65.07	179.60	12,423.5	251.8	-165.1	-250.2	12.00	12.00	0.00
12,575.0	68.07	179.60	12,433.4	228.9	-164.9	-227.3	12.00	12.00	0.00
12,600.0	71.07	179.60	12,442.1	205.5	-164.8	-203.9	12.00	12.00	0.00
12,625.0	74.07	179.60	12,449.6	181.6	-164.6	-180.0	12.00	12.00	0.00
12,650.0	77.07	179.60	12,455.9	157.4	-164.4	-155.8	12.00	12.00	0.00
12,675.0	80.07	179.60	12,460.8	132.9	-164.3	-131.3	12.00	12.00	0.00
12,700.0	83.07	179.60	12,464.5	108.2	-164.1	-106.6	12.00	12.00	0.00
12,725.0	86.07	179.60	12,466.8	83.3	-163.9	-81.7	12.00	12.00	0.00
12,750.0	89.07	179.60	12,467.9	58.3	-163.8	-56.7	12.00	12.00	0.00
12,757.8	90.00	179.60	12,468.0	50.5	-163.7	-49.0	12.00	12.00	0.00
12,800.0	90.00	179.60	12,468.0	8.3	-163.4	-6.7	0.00	0.00	0.00
12,900.0	90.00	179.60	12,468.0	-91.7	-162.7	93.2	0.00	0.00	0.00
13,000.0	90.00	179.60	12,468.0	-191.7	-162.0	193.2	0.00	0.00	0.00
13,100.0	90.00	179.60	12,468.0	-291.7	-161.3	293.2	0.00	0.00	0.00
13,200.0	90.00	179.60	12,468.0	-391.7	-160.6	393.2	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft.
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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	-491.7	-159.9	493.2	0.00	0.00	0.00
13,400.0	90.00	179.60	12,468.0	-591.7	-159.3	593.2	0.00	0.00	0.00
13,500.0	90.00	179.60	12,468.0	-691.7	-158.6	693.2	0.00	0.00	0.00
13,600.0	90.00	179.60	12,468.0	-791.7	-157.9	793.1	0.00	0.00	0.00
13,700.0	90.00	179.60	12,468.0	-891.7	-157.2	893.1	0.00	0.00	0.00
13,800.0	90.00	179.60	12,468.0	-991.7	-156.5	993.1	0.00	0.00	0.00
13,900.0	90.00	179.60	12,468.0	-1,091.7	-155.8	1,093.1	0.00	0.00	0.00
14,000.0	90.00	179.60	12,468.0	-1,191.7	-155.1	1,193.1	0.00	0.00	0.00
14,100.0	90.00	179.60	12,468.0	-1,291.7	-154.4	1,293.1	0.00	0.00	0.00
14,200.0	90.00	179.60	12,468.0	-1,391.7	-153.7	1,393.1	0.00	0.00	0.00
14,300.0	90.00	179.60	12,468.0	-1,491.6	-153.0	1,493.1	0.00	0.00	0.00
14,400.0	90.00	179.60	12,468.0	-1,591.6	-152.3	1,593.0	0.00	0.00	0.00
14,500.0	90.00	179.60	12,468.0	-1,691.6	-151.6	1,693.0	0.00	0.00	0.00
14,600.0	90.00	179.60	12,468.0	-1,791.6	-151.0	1,793.0	0.00	0.00	0.00
14,700.0	90.00	179.60	12,468.0	-1,891.6	-150.3	1,893.0	0.00	0.00	0.00
14,800.0	90.00	179.60	12,468.0	-1,991.6	-149.6	1,993.0	0.00	0.00	0.00
14,900.0	90.00	179.60	12,468.0	-2,091.6	-148.9	2,093.0	0.00	0.00	0.00
15,000.0	90.00	179.60	12,468.0	-2,191.6	-148.2	2,193.0	0.00	0.00	0.00
15,100.0	90.00	179.60	12,468.0	-2,291.6	-147.5	2,292.9	0.00	0.00	0.00
15,200.0	90.00	179.60	12,468.0	-2,391.6	-146.8	2,392.9	0.00	0.00	0.00
15,300.0	90.00	179.60	12,468.0	-2,491.6	-146.1	2,492.9	0.00	0.00	0.00
15,400.0	90.00	179.60	12,468.0	-2,591.6	-145.4	2,592.9	0.00	0.00	0.00
15,500.0	90.00	179.60	12,468.0	-2,691.6	-144.7	2,692.9	0.00	0.00	0.00
15,600.0	90.00	179.60	12,468.0	-2,791.6	-144.0	2,792.9	0.00	0.00	0.00
15,700.0	90.00	179.60	12,468.0	-2,891.6	-143.3	2,892.9	0.00	0.00	0.00
15,800.0	90.00	179.60	12,468.0	-2,991.6	-142.6	2,992.8	0.00	0.00	0.00
15,900.0	90.00	179.60	12,468.0	-3,091.6	-142.0	3,092.8	0.00	0.00	0.00
16,000.0	90.00	179.60	12,468.0	-3,191.6	-141.3	3,192.8	0.00	0.00	0.00
16,100.0	90.00	179.60	12,468.0	-3,291.6	-140.6	3,292.8	0.00	0.00	0.00
16,200.0	90.00	179.60	12,468.0	-3,391.6	-139.9	3,392.8	0.00	0.00	0.00
16,300.0	90.00	179.60	12,468.0	-3,491.6	-139.2	3,492.8	0.00	0.00	0.00
16,400.0	90.00	179.60	12,468.0	-3,591.6	-138.5	3,592.8	0.00	0.00	0.00
16,500.0	90.00	179.60	12,468.0	-3,691.6	-137.8	3,692.7	0.00	0.00	0.00
16,600.0	90.00	179.60	12,468.0	-3,791.6	-137.1	3,792.7	0.00	0.00	0.00
16,700.0	90.00	179.60	12,468.0	-3,891.6	-136.4	3,892.7	0.00	0.00	0.00
16,800.0	90.00	179.60	12,468.0	-3,991.6	-135.7	3,992.7	0.00	0.00	0.00
16,900.0	90.00	179.60	12,468.0	-4,091.6	-135.0	4,092.7	0.00	0.00	0.00
17,000.0	90.00	179.60	12,468.0	-4,191.6	-134.3	4,192.7	0.00	0.00	0.00
17,100.0	90.00	179.60	12,468.0	-4,291.6	-133.7	4,292.7	0.00	0.00	0.00
17,200.0	90.00	179.60	12,468.0	-4,391.6	-133.0	4,392.7	0.00	0.00	0.00
17,300.0	90.00	179.60	12,468.0	-4,491.6	-132.3	4,492.6	0.00	0.00	0.00
17,400.0	90.00	179.60	12,468.0	-4,591.6	-131.6	4,592.6	0.00	0.00	0.00
17,500.0	90.00	179.60	12,468.0	-4,691.6	-130.9	4,692.6	0.00	0.00	0.00
17,600.0	90.00	179.60	12,468.0	-4,791.6	-130.2	4,792.6	0.00	0.00	0.00
17,700.0	90.00	179.60	12,468.0	-4,891.6	-129.5	4,892.6	0.00	0.00	0.00
17,800.0	90.00	179.60	12,468.0	-4,991.6	-128.8	4,992.6	0.00	0.00	0.00
17,900.0	90.00	179.60	12,468.0	-5,091.6	-128.1	5,092.6	0.00	0.00	0.00
18,000.0	90.00	179.60	12,468.0	-5,191.6	-127.4	5,192.5	0.00	0.00	0.00
18,100.0	90.00	179.60	12,468.0	-5,291.6	-126.7	5,292.5	0.00	0.00	0.00
18,200.0	90.00	179.60	12,468.0	-5,391.6	-126.0	5,392.5	0.00	0.00	0.00
18,300.0	90.00	179.60	12,468.0	-5,491.6	-125.4	5,492.5	0.00	0.00	0.00
18,400.0	90.00	179.60	12,468.0	-5,591.5	-124.7	5,592.5	0.00	0.00	0.00
18,500.0	90.00	179.60	12,468.0	-5,691.5	-124.0	5,692.5	0.00	0.00	0.00
18,600.0	90.00	179.60	12,468.0	-5,791.5	-123.3	5,792.5	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	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	-5,891.5	-122.6	5,892.4	0.00	0.00	0.00
18,800.0	90.00	179.60	12,468.0	-5,991.5	-121.9	5,992.4	0.00	0.00	0.00
18,900.0	90.00	179.60	12,468.0	-6,091.5	-121.2	6,092.4	0.00	0.00	0.00
19,000.0	90.00	179.60	12,468.0	-6,191.5	-120.5	6,192.4	0.00	0.00	0.00
19,100.0	90.00	179.60	12,468.0	-6,291.5	-119.8	6,292.4	0.00	0.00	0.00
19,200.0	90.00	179.60	12,468.0	-6,391.5	-119.1	6,392.4	0.00	0.00	0.00
19,300.0	90.00	179.60	12,468.0	-6,491.5	-118.4	6,492.4	0.00	0.00	0.00
19,400.0	90.00	179.60	12,468.0	-6,591.5	-117.7	6,592.4	0.00	0.00	0.00
19,500.0	90.00	179.60	12,468.0	-6,691.5	-117.0	6,692.3	0.00	0.00	0.00
19,600.0	90.00	179.60	12,468.0	-6,791.5	-116.4	6,792.3	0.00	0.00	0.00
19,700.0	90.00	179.60	12,468.0	-6,891.5	-115.7	6,892.3	0.00	0.00	0.00
19,800.0	90.00	179.60	12,468.0	-6,991.5	-115.0	6,992.3	0.00	0.00	0.00
19,900.0	90.00	179.60	12,468.0	-7,091.5	-114.3	7,092.3	0.00	0.00	0.00
20,000.0	90.00	179.60	12,468.0	-7,191.5	-113.6	7,192.3	0.00	0.00	0.00
20,100.0	90.00	179.60	12,468.0	-7,291.5	-112.9	7,292.3	0.00	0.00	0.00
20,200.0	90.00	179.60	12,468.0	-7,391.5	-112.2	7,392.2	0.00	0.00	0.00
20,300.0	90.00	179.60	12,468.0	-7,491.5	-111.5	7,492.2	0.00	0.00	0.00
20,400.0	90.00	179.60	12,468.0	-7,591.5	-110.8	7,592.2	0.00	0.00	0.00
20,500.0	90.00	179.60	12,468.0	-7,691.5	-110.1	7,692.2	0.00	0.00	0.00
20,600.0	90.00	179.60	12,468.0	-7,791.5	-109.4	7,792.2	0.00	0.00	0.00
20,700.0	90.00	179.60	12,468.0	-7,891.5	-108.7	7,892.2	0.00	0.00	0.00
20,800.0	90.00	179.60	12,468.0	-7,991.5	-108.1	7,992.2	0.00	0.00	0.00
20,900.0	90.00	179.60	12,468.0	-8,091.5	-107.4	8,092.1	0.00	0.00	0.00
21,000.0	90.00	179.60	12,468.0	-8,191.5	-106.7	8,192.1	0.00	0.00	0.00
21,100.0	90.00	179.60	12,468.0	-8,291.5	-106.0	8,292.1	0.00	0.00	0.00
21,200.0	90.00	179.60	12,468.0	-8,391.5	-105.3	8,392.1	0.00	0.00	0.00
21,300.0	90.00	179.60	12,468.0	-8,491.5	-104.6	8,492.1	0.00	0.00	0.00
21,400.0	90.00	179.60	12,468.0	-8,591.5	-103.9	8,592.1	0.00	0.00	0.00
21,500.0	90.00	179.60	12,468.0	-8,691.5	-103.2	8,692.1	0.00	0.00	0.00
21,600.0	90.00	179.60	12,468.0	-8,791.5	-102.5	8,792.1	0.00	0.00	0.00
21,700.0	90.00	179.60	12,468.0	-8,891.5	-101.8	8,892.0	0.00	0.00	0.00
21,800.0	90.00	179.60	12,468.0	-8,991.5	-101.1	8,992.0	0.00	0.00	0.00
21,900.0	90.00	179.60	12,468.0	-9,091.5	-100.4	9,092.0	0.00	0.00	0.00
22,000.0	90.00	179.60	12,468.0	-9,191.5	-99.8	9,192.0	0.00	0.00	0.00
22,100.0	90.00	179.60	12,468.0	-9,291.5	-99.1	9,292.0	0.00	0.00	0.00
22,200.0	90.00	179.60	12,468.0	-9,391.5	-98.4	9,392.0	0.00	0.00	0.00
22,300.0	90.00	179.60	12,468.0	-9,491.5	-97.7	9,492.0	0.00	0.00	0.00
22,400.0	90.00	179.60	12,468.0	-9,591.5	-97.0	9,591.9	0.00	0.00	0.00
22,500.0	90.00	179.60	12,468.0	-9,691.5	-96.3	9,691.9	0.00	0.00	0.00
22,600.0	90.00	179.60	12,468.0	-9,791.4	-95.6	9,791.9	0.00	0.00	0.00
22,686.6	90.00	179.60	12,468.0	-9,878.0	-95.0	9,878.5	0.00	0.00	0.00

PBHL (Caravan 28 State Com #702H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #702H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3543.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3543.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP (Caravan 28 State - plan hits target center - Point	0.00	0.00	11,990.5	528.0	-167.0	435,763.00	774,571.00	32° 11' 44.671 N	103° 34' 45.629 W
FTP (Caravan 28 State - plan misses target center by 163.4usft at 12408.0usft MD (12345.5 TVD, 369.9 N, -165.9 E) - Point	0.00	0.00	12,468.0	478.0	-167.0	435,713.00	774,571.00	32° 11' 44.176 N	103° 34' 45.633 W
PBHL (Caravan 28 State - plan hits target center - Point	0.00	0.00	12,468.0	-9,878.0	-95.0	425,357.00	774,643.00	32° 10' 1.696 N	103° 34' 45.640 W