

HOBBS OCU

NOV 27 2018

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Lea County, NM (NAD 83 NME)

Caravan 28 State Com #601H

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: #601H

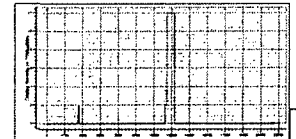
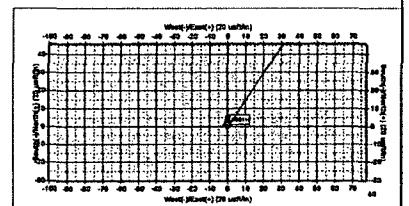
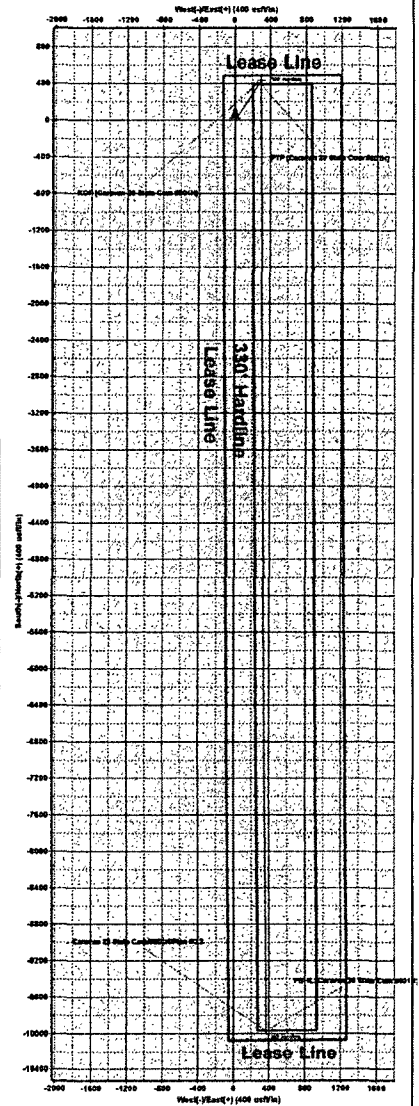
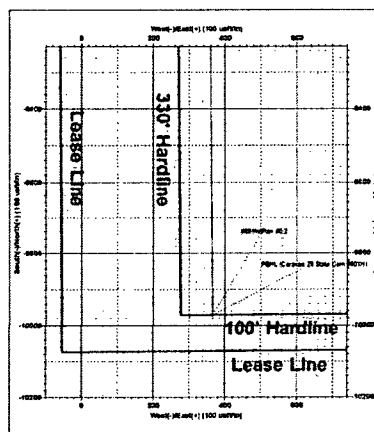
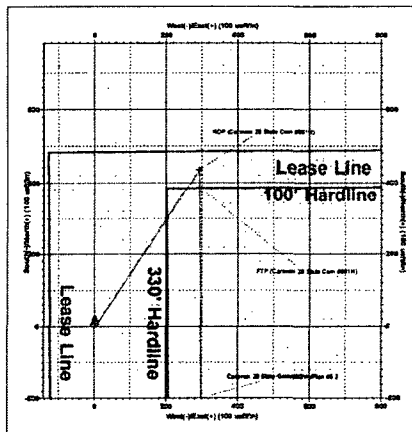
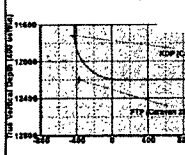
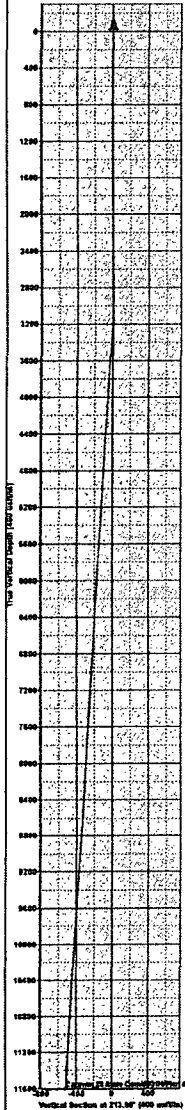
KB = 25 @ 3549.0uoft 3524.0
Northing 435327.00 Easting 774028.00 Latitude 32° 11' 40.594 N Longitude 103° 34' 51.894 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	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	3175.8	3.51	33.96	3175.5	4.5	3.0	2.00	33.96	-4.4	
4	11559.8	3.51	33.96	11544.0	430.5	290.0	0.00	0.00	-419.6	
5	11735.5	0.00	0.00	11719.5	435.0	293.0	2.00	180.00	-424.0	KOP (Caravan 28 State Com #601H)
6	12485.5	90.00	179.60	12197.0	-42.5	298.3	12.00	179.60	53.3	
7	22414.3	90.00	179.60	12197.0	-9971.0	385.0	0.00	0.00	9977.7	PBHL (Caravan 28 State Com #601H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Caravan 28 State Com #601H)	11719.5	435.0	293.0	435872.00	774321.00
FTP (Caravan 28 State Com #601H)	12197.0	385.0	293.0	4358712.00	774321.00
PBHL (Caravan 28 State Com #601H)	12197.0	-9971.0	365.0	426394.00	774193.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caravan 28 State Com

#601H

OH

Plan: Plan #0.2

Standard Planning Report

21 November, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #601H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3549.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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:	Map	Northing:	435,288.00 usft
From:		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	#601H		
Well Position	+N/-S	39.0 usft	Northing:
	+E/-W	-650.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,524.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	9/27/2018	6.82
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,787.37552357

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
			(°)
			177.90

Plan Survey Tool Program	Date 11/21/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	22,414.3 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	
3,175.6	3.51	33.96	3,175.5	4.5	3.0	2.00	2.00	0.00	33.96	
11,559.8	3.51	33.96	11,544.0	430.5	290.0	0.00	0.00	0.00	0.00	
11,735.5	0.00	0.00	11,719.5	435.0	293.0	2.00	-2.00	0.00	180.00	KOP (Caravan 28 Sta
12,485.5	90.00	179.60	12,197.0	-42.5	296.3	12.00	12.00	23.95	179.60	
22,414.3	90.00	179.60	12,197.0	-9,971.0	365.0	0.00	0.00	0.00	0.00	PBHL (Caravan 28 St



Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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	33.96	3,100.0	1.4	1.0	-1.4	2.00	2.00	0.00
3,175.6	3.51	33.96	3,175.5	4.5	3.0	-4.4	2.00	2.00	0.00
3,200.0	3.51	33.96	3,199.8	5.7	3.8	-5.6	0.00	0.00	0.00
3,300.0	3.51	33.96	3,299.7	10.8	7.3	-10.5	0.00	0.00	0.00
3,400.0	3.51	33.96	3,399.5	15.9	10.7	-15.5	0.00	0.00	0.00
3,500.0	3.51	33.96	3,499.3	20.9	14.1	-20.4	0.00	0.00	0.00
3,600.0	3.51	33.96	3,599.1	26.0	17.5	-25.4	0.00	0.00	0.00
3,700.0	3.51	33.96	3,698.9	31.1	21.0	-30.3	0.00	0.00	0.00
3,800.0	3.51	33.96	3,798.7	36.2	24.4	-35.3	0.00	0.00	0.00
3,900.0	3.51	33.96	3,898.5	41.3	27.8	-40.2	0.00	0.00	0.00
4,000.0	3.51	33.96	3,998.3	46.4	31.2	-45.2	0.00	0.00	0.00
4,100.0	3.51	33.96	4,098.2	51.4	34.6	-50.1	0.00	0.00	0.00
4,200.0	3.51	33.96	4,198.0	56.5	38.1	-55.1	0.00	0.00	0.00
4,300.0	3.51	33.96	4,297.8	61.6	41.5	-60.0	0.00	0.00	0.00
4,400.0	3.51	33.96	4,397.6	66.7	44.9	-65.0	0.00	0.00	0.00
4,500.0	3.51	33.96	4,497.4	71.8	48.3	-69.9	0.00	0.00	0.00
4,600.0	3.51	33.96	4,597.2	76.8	51.8	-74.9	0.00	0.00	0.00
4,700.0	3.51	33.96	4,697.0	81.9	55.2	-79.9	0.00	0.00	0.00
4,800.0	3.51	33.96	4,796.8	87.0	58.6	-84.8	0.00	0.00	0.00
4,900.0	3.51	33.96	4,896.7	92.1	62.0	-89.8	0.00	0.00	0.00
5,000.0	3.51	33.96	4,996.5	97.2	65.5	-94.7	0.00	0.00	0.00
5,100.0	3.51	33.96	5,096.3	102.3	68.9	-99.7	0.00	0.00	0.00
5,200.0	3.51	33.96	5,196.1	107.3	72.3	-104.6	0.00	0.00	0.00



Planning Report

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Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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	3.51	33.96	5,295.9	112.4	75.7	-109.6	0.00	0.00	0.00
5,400.0	3.51	33.96	5,395.7	117.5	79.1	-114.5	0.00	0.00	0.00
5,500.0	3.51	33.96	5,495.5	122.6	82.6	-119.5	0.00	0.00	0.00
5,600.0	3.51	33.96	5,595.3	127.7	86.0	-124.4	0.00	0.00	0.00
5,700.0	3.51	33.96	5,695.1	132.7	89.4	-129.4	0.00	0.00	0.00
5,800.0	3.51	33.96	5,795.0	137.8	92.8	-134.3	0.00	0.00	0.00
5,900.0	3.51	33.96	5,894.8	142.9	96.3	-139.3	0.00	0.00	0.00
6,000.0	3.51	33.96	5,994.6	148.0	99.7	-144.2	0.00	0.00	0.00
6,100.0	3.51	33.96	6,094.4	153.1	103.1	-149.2	0.00	0.00	0.00
6,200.0	3.51	33.96	6,194.2	158.2	106.5	-154.2	0.00	0.00	0.00
6,300.0	3.51	33.96	6,294.0	163.2	110.0	-159.1	0.00	0.00	0.00
6,400.0	3.51	33.96	6,393.8	168.3	113.4	-164.1	0.00	0.00	0.00
6,500.0	3.51	33.96	6,493.6	173.4	116.8	-169.0	0.00	0.00	0.00
6,600.0	3.51	33.96	6,593.5	178.5	120.2	-174.0	0.00	0.00	0.00
6,700.0	3.51	33.96	6,693.3	183.6	123.6	-178.9	0.00	0.00	0.00
6,800.0	3.51	33.96	6,793.1	188.6	127.1	-183.9	0.00	0.00	0.00
6,900.0	3.51	33.96	6,892.9	193.7	130.5	-188.8	0.00	0.00	0.00
7,000.0	3.51	33.96	6,992.7	198.8	133.9	-193.8	0.00	0.00	0.00
7,100.0	3.51	33.96	7,092.5	203.9	137.3	-198.7	0.00	0.00	0.00
7,200.0	3.51	33.96	7,192.3	209.0	140.8	-203.7	0.00	0.00	0.00
7,300.0	3.51	33.96	7,292.1	214.1	144.2	-208.6	0.00	0.00	0.00
7,400.0	3.51	33.96	7,392.0	219.1	147.6	-213.6	0.00	0.00	0.00
7,500.0	3.51	33.96	7,491.8	224.2	151.0	-218.5	0.00	0.00	0.00
7,600.0	3.51	33.96	7,591.6	229.3	154.5	-223.5	0.00	0.00	0.00
7,700.0	3.51	33.96	7,691.4	234.4	157.9	-228.5	0.00	0.00	0.00
7,800.0	3.51	33.96	7,791.2	239.5	161.3	-233.4	0.00	0.00	0.00
7,900.0	3.51	33.96	7,891.0	244.5	164.7	-238.4	0.00	0.00	0.00
8,000.0	3.51	33.96	7,990.8	249.6	168.1	-243.3	0.00	0.00	0.00
8,100.0	3.51	33.96	8,090.6	254.7	171.6	-248.3	0.00	0.00	0.00
8,200.0	3.51	33.96	8,190.4	259.8	175.0	-253.2	0.00	0.00	0.00
8,300.0	3.51	33.96	8,290.3	264.9	178.4	-258.2	0.00	0.00	0.00
8,400.0	3.51	33.96	8,390.1	270.0	181.8	-263.1	0.00	0.00	0.00
8,500.0	3.51	33.96	8,489.9	275.0	185.3	-268.1	0.00	0.00	0.00
8,600.0	3.51	33.96	8,589.7	280.1	188.7	-273.0	0.00	0.00	0.00
8,700.0	3.51	33.96	8,689.5	285.2	192.1	-278.0	0.00	0.00	0.00
8,800.0	3.51	33.96	8,789.3	290.3	195.5	-282.9	0.00	0.00	0.00
8,900.0	3.51	33.96	8,889.1	295.4	198.9	-287.9	0.00	0.00	0.00
9,000.0	3.51	33.96	8,988.9	300.4	202.4	-292.8	0.00	0.00	0.00
9,100.0	3.51	33.96	9,088.8	305.5	205.8	-297.8	0.00	0.00	0.00
9,200.0	3.51	33.96	9,188.6	310.6	209.2	-302.8	0.00	0.00	0.00
9,300.0	3.51	33.96	9,288.4	315.7	212.6	-307.7	0.00	0.00	0.00
9,400.0	3.51	33.96	9,388.2	320.8	216.1	-312.7	0.00	0.00	0.00
9,500.0	3.51	33.96	9,488.0	325.9	219.5	-317.6	0.00	0.00	0.00
9,600.0	3.51	33.96	9,587.8	330.9	222.9	-322.6	0.00	0.00	0.00
9,700.0	3.51	33.96	9,687.6	336.0	226.3	-327.5	0.00	0.00	0.00
9,800.0	3.51	33.96	9,787.4	341.1	229.8	-332.5	0.00	0.00	0.00
9,900.0	3.51	33.96	9,887.3	346.2	233.2	-337.4	0.00	0.00	0.00
10,000.0	3.51	33.96	9,987.1	351.3	236.6	-342.4	0.00	0.00	0.00
10,100.0	3.51	33.96	10,086.9	356.3	240.0	-347.3	0.00	0.00	0.00
10,200.0	3.51	33.96	10,186.7	361.4	243.4	-352.3	0.00	0.00	0.00
10,300.0	3.51	33.96	10,286.5	366.5	246.9	-357.2	0.00	0.00	0.00
10,400.0	3.51	33.96	10,386.3	371.6	250.3	-362.2	0.00	0.00	0.00
10,500.0	3.51	33.96	10,486.1	376.7	253.7	-367.1	0.00	0.00	0.00
10,600.0	3.51	33.96	10,585.9	381.8	257.1	-372.1	0.00	0.00	0.00



Planning Report

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
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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	3.51	33.96	10,685.8	386.8	260.6	-377.0	0.00	0.00	0.00
10,800.0	3.51	33.96	10,785.6	391.9	264.0	-382.0	0.00	0.00	0.00
10,900.0	3.51	33.96	10,885.4	397.0	267.4	-387.0	0.00	0.00	0.00
11,000.0	3.51	33.96	10,985.2	402.1	270.8	-391.9	0.00	0.00	0.00
11,100.0	3.51	33.96	11,085.0	407.2	274.3	-396.9	0.00	0.00	0.00
11,200.0	3.51	33.96	11,184.8	412.2	277.7	-401.8	0.00	0.00	0.00
11,300.0	3.51	33.96	11,284.6	417.3	281.1	-406.8	0.00	0.00	0.00
11,400.0	3.51	33.96	11,384.4	422.4	284.5	-411.7	0.00	0.00	0.00
11,500.0	3.51	33.96	11,484.2	427.5	287.9	-416.7	0.00	0.00	0.00
11,559.8	3.51	33.96	11,544.0	430.5	290.0	-419.6	0.00	0.00	0.00
11,600.0	2.71	33.96	11,584.1	432.3	291.2	-421.4	2.00	-2.00	0.00
11,700.0	0.71	33.96	11,684.0	434.8	292.9	-423.8	2.00	-2.00	0.00
11,735.5	0.00	0.00	11,719.5	435.0	293.0	-424.0	2.00	-2.00	0.00
KOP (Caravan 28 State Com #601H)									
11,750.0	1.74	179.60	11,734.0	434.8	293.0	-423.8	12.00	12.00	0.00
11,775.0	4.74	179.60	11,759.0	433.4	293.0	-422.4	12.00	12.00	0.00
11,800.0	7.74	179.60	11,783.8	430.6	293.0	-419.6	12.00	12.00	0.00
11,825.0	10.74	179.60	11,808.5	426.6	293.1	-415.6	12.00	12.00	0.00
11,850.0	13.74	179.60	11,832.9	421.3	293.1	-410.3	12.00	12.00	0.00
11,875.0	16.74	179.60	11,857.0	414.8	293.1	-403.8	12.00	12.00	0.00
11,900.0	19.74	179.60	11,880.8	406.9	293.2	-395.9	12.00	12.00	0.00
11,925.0	22.74	179.60	11,904.1	397.9	293.3	-386.9	12.00	12.00	0.00
11,950.0	25.74	179.60	11,926.9	387.6	293.3	-376.6	12.00	12.00	0.00
11,975.0	28.74	179.60	11,949.1	376.2	293.4	-365.2	12.00	12.00	0.00
12,000.0	31.74	179.60	11,970.7	363.6	293.5	-352.6	12.00	12.00	0.00
12,025.0	34.74	179.60	11,991.6	349.9	293.6	-338.9	12.00	12.00	0.00
12,050.0	37.74	179.60	12,011.8	335.1	293.7	-324.1	12.00	12.00	0.00
12,075.0	40.74	179.60	12,031.1	319.3	293.8	-308.3	12.00	12.00	0.00
12,100.0	43.74	179.60	12,049.6	302.5	293.9	-291.5	12.00	12.00	0.00
12,125.0	46.74	179.60	12,067.2	284.7	294.0	-273.8	12.00	12.00	0.00
12,136.6	48.14	179.60	12,075.1	276.2	294.1	-265.2	12.00	12.00	0.00
FTP (Caravan 28 State Com #601H)									
12,150.0	49.74	179.60	12,083.9	266.1	294.2	-255.1	12.00	12.00	0.00
12,175.0	52.74	179.60	12,099.5	246.6	294.3	-235.7	12.00	12.00	0.00
12,200.0	55.74	179.60	12,114.1	226.3	294.4	-215.4	12.00	12.00	0.00
12,225.0	58.74	179.60	12,127.7	205.3	294.6	-194.4	12.00	12.00	0.00
12,250.0	61.74	179.60	12,140.1	183.6	294.7	-172.7	12.00	12.00	0.00
12,275.0	64.74	179.60	12,151.3	161.3	294.9	-150.4	12.00	12.00	0.00
12,300.0	67.74	179.60	12,161.4	138.4	295.1	-127.5	12.00	12.00	0.00
12,325.0	70.74	179.60	12,170.3	115.0	295.2	-104.1	12.00	12.00	0.00
12,350.0	73.74	179.60	12,177.9	91.2	295.4	-80.3	12.00	12.00	0.00
12,375.0	76.74	179.60	12,184.2	67.0	295.5	-56.2	12.00	12.00	0.00
12,400.0	79.74	179.60	12,189.3	42.6	295.7	-31.7	12.00	12.00	0.00
12,425.0	82.74	179.60	12,193.1	17.9	295.9	-7.0	12.00	12.00	0.00
12,450.0	85.74	179.60	12,195.6	-7.0	296.1	17.8	12.00	12.00	0.00
12,475.0	88.74	179.60	12,196.8	-32.0	296.2	42.8	12.00	12.00	0.00
12,485.5	90.00	179.60	12,197.0	-42.5	296.3	53.3	12.00	12.00	0.00
12,500.0	90.00	179.60	12,197.0	-57.0	296.4	67.8	0.00	0.00	0.00
12,600.0	90.00	179.60	12,197.0	-157.0	297.1	167.7	0.00	0.00	0.00
12,700.0	90.00	179.60	12,197.0	-257.0	297.8	267.7	0.00	0.00	0.00
12,800.0	90.00	179.60	12,197.0	-357.0	298.5	367.7	0.00	0.00	0.00
12,900.0	90.00	179.60	12,197.0	-457.0	299.2	467.6	0.00	0.00	0.00
13,000.0	90.00	179.60	12,197.0	-557.0	299.9	567.6	0.00	0.00	0.00
13,100.0	90.00	179.60	12,197.0	-657.0	300.6	667.5	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #801H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3549.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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)
13,200.0	90.00	179.60	12,197.0	-757.0	301.2	767.5	0.00	0.00	0.00
13,300.0	90.00	179.60	12,197.0	-857.0	301.9	867.4	0.00	0.00	0.00
13,400.0	90.00	179.60	12,197.0	-957.0	302.6	967.4	0.00	0.00	0.00
13,500.0	90.00	179.60	12,197.0	-1,057.0	303.3	1,067.3	0.00	0.00	0.00
13,600.0	90.00	179.60	12,197.0	-1,157.0	304.0	1,167.3	0.00	0.00	0.00
13,700.0	90.00	179.60	12,197.0	-1,257.0	304.7	1,267.3	0.00	0.00	0.00
13,800.0	90.00	179.60	12,197.0	-1,356.9	305.4	1,367.2	0.00	0.00	0.00
13,900.0	90.00	179.60	12,197.0	-1,456.9	306.1	1,467.2	0.00	0.00	0.00
14,000.0	90.00	179.60	12,197.0	-1,556.9	306.8	1,567.1	0.00	0.00	0.00
14,100.0	90.00	179.60	12,197.0	-1,656.9	307.5	1,667.1	0.00	0.00	0.00
14,200.0	90.00	179.60	12,197.0	-1,756.9	308.2	1,767.0	0.00	0.00	0.00
14,300.0	90.00	179.60	12,197.0	-1,856.9	308.9	1,867.0	0.00	0.00	0.00
14,400.0	90.00	179.60	12,197.0	-1,956.9	309.5	1,966.9	0.00	0.00	0.00
14,500.0	90.00	179.60	12,197.0	-2,056.9	310.2	2,066.9	0.00	0.00	0.00
14,600.0	90.00	179.60	12,197.0	-2,156.9	310.9	2,166.9	0.00	0.00	0.00
14,700.0	90.00	179.60	12,197.0	-2,256.9	311.6	2,266.8	0.00	0.00	0.00
14,800.0	90.00	179.60	12,197.0	-2,356.9	312.3	2,366.8	0.00	0.00	0.00
14,900.0	90.00	179.60	12,197.0	-2,456.9	313.0	2,466.7	0.00	0.00	0.00
15,000.0	90.00	179.60	12,197.0	-2,556.9	313.7	2,566.7	0.00	0.00	0.00
15,100.0	90.00	179.60	12,197.0	-2,656.9	314.4	2,666.6	0.00	0.00	0.00
15,200.0	90.00	179.60	12,197.0	-2,756.9	315.1	2,766.6	0.00	0.00	0.00
15,300.0	90.00	179.60	12,197.0	-2,856.9	315.8	2,866.6	0.00	0.00	0.00
15,400.0	90.00	179.60	12,197.0	-2,956.9	316.5	2,966.5	0.00	0.00	0.00
15,500.0	90.00	179.60	12,197.0	-3,056.9	317.2	3,066.5	0.00	0.00	0.00
15,600.0	90.00	179.60	12,197.0	-3,156.9	317.9	3,166.4	0.00	0.00	0.00
15,700.0	90.00	179.60	12,197.0	-3,256.9	318.5	3,266.4	0.00	0.00	0.00
15,800.0	90.00	179.60	12,197.0	-3,356.9	319.2	3,366.3	0.00	0.00	0.00
15,900.0	90.00	179.60	12,197.0	-3,456.9	319.9	3,466.3	0.00	0.00	0.00
16,000.0	90.00	179.60	12,197.0	-3,556.9	320.6	3,566.2	0.00	0.00	0.00
16,100.0	90.00	179.60	12,197.0	-3,656.9	321.3	3,666.2	0.00	0.00	0.00
16,200.0	90.00	179.60	12,197.0	-3,756.9	322.0	3,766.2	0.00	0.00	0.00
16,300.0	90.00	179.60	12,197.0	-3,856.9	322.7	3,866.1	0.00	0.00	0.00
16,400.0	90.00	179.60	12,197.0	-3,956.9	323.4	3,966.1	0.00	0.00	0.00
16,500.0	90.00	179.60	12,197.0	-4,056.9	324.1	4,066.0	0.00	0.00	0.00
16,600.0	90.00	179.60	12,197.0	-4,156.9	324.8	4,166.0	0.00	0.00	0.00
16,700.0	90.00	179.60	12,197.0	-4,256.9	325.5	4,265.9	0.00	0.00	0.00
16,800.0	90.00	179.60	12,197.0	-4,356.9	326.2	4,365.9	0.00	0.00	0.00
16,900.0	90.00	179.60	12,197.0	-4,456.9	326.8	4,465.8	0.00	0.00	0.00
17,000.0	90.00	179.60	12,197.0	-4,556.9	327.5	4,565.8	0.00	0.00	0.00
17,100.0	90.00	179.60	12,197.0	-4,656.9	328.2	4,665.8	0.00	0.00	0.00
17,200.0	90.00	179.60	12,197.0	-4,756.9	328.9	4,765.7	0.00	0.00	0.00
17,300.0	90.00	179.60	12,197.0	-4,856.9	329.6	4,865.7	0.00	0.00	0.00
17,400.0	90.00	179.60	12,197.0	-4,956.9	330.3	4,965.6	0.00	0.00	0.00
17,500.0	90.00	179.60	12,197.0	-5,056.9	331.0	5,065.6	0.00	0.00	0.00
17,600.0	90.00	179.60	12,197.0	-5,156.9	331.7	5,165.5	0.00	0.00	0.00
17,700.0	90.00	179.60	12,197.0	-5,256.9	332.4	5,265.5	0.00	0.00	0.00
17,800.0	90.00	179.60	12,197.0	-5,356.9	333.1	5,365.5	0.00	0.00	0.00
17,900.0	90.00	179.60	12,197.0	-5,456.9	333.8	5,465.4	0.00	0.00	0.00
18,000.0	90.00	179.60	12,197.0	-5,556.8	334.5	5,565.4	0.00	0.00	0.00
18,100.0	90.00	179.60	12,197.0	-5,656.8	335.1	5,665.3	0.00	0.00	0.00
18,200.0	90.00	179.60	12,197.0	-5,756.8	335.8	5,765.3	0.00	0.00	0.00
18,300.0	90.00	179.60	12,197.0	-5,856.8	336.5	5,865.2	0.00	0.00	0.00
18,400.0	90.00	179.60	12,197.0	-5,956.8	337.2	5,965.2	0.00	0.00	0.00
18,500.0	90.00	179.60	12,197.0	-6,056.8	337.9	6,065.1	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #601H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3549.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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)
18,600.0	90.00	179.60	12,197.0	-6,156.8	338.6	6,165.1	0.00	0.00	0.00
18,700.0	90.00	179.60	12,197.0	-6,256.8	339.3	6,265.1	0.00	0.00	0.00
18,800.0	90.00	179.60	12,197.0	-6,356.8	340.0	6,365.0	0.00	0.00	0.00
18,900.0	90.00	179.60	12,197.0	-6,456.8	340.7	6,465.0	0.00	0.00	0.00
19,000.0	90.00	179.60	12,197.0	-6,556.8	341.4	6,564.9	0.00	0.00	0.00
19,100.0	90.00	179.60	12,197.0	-6,656.8	342.1	6,664.9	0.00	0.00	0.00
19,200.0	90.00	179.60	12,197.0	-6,756.8	342.8	6,764.8	0.00	0.00	0.00
19,300.0	90.00	179.60	12,197.0	-6,856.8	343.5	6,864.8	0.00	0.00	0.00
19,400.0	90.00	179.60	12,197.0	-6,956.8	344.1	6,964.7	0.00	0.00	0.00
19,500.0	90.00	179.60	12,197.0	-7,056.8	344.8	7,064.7	0.00	0.00	0.00
19,600.0	90.00	179.60	12,197.0	-7,156.8	345.5	7,164.7	0.00	0.00	0.00
19,700.0	90.00	179.60	12,197.0	-7,256.8	346.2	7,264.6	0.00	0.00	0.00
19,800.0	90.00	179.60	12,197.0	-7,356.8	346.9	7,364.6	0.00	0.00	0.00
19,900.0	90.00	179.60	12,197.0	-7,456.8	347.6	7,464.5	0.00	0.00	0.00
20,000.0	90.00	179.60	12,197.0	-7,556.8	348.3	7,564.5	0.00	0.00	0.00
20,100.0	90.00	179.60	12,197.0	-7,656.8	349.0	7,664.4	0.00	0.00	0.00
20,200.0	90.00	179.60	12,197.0	-7,756.8	349.7	7,764.4	0.00	0.00	0.00
20,300.0	90.00	179.60	12,197.0	-7,856.8	350.4	7,864.4	0.00	0.00	0.00
20,400.0	90.00	179.60	12,197.0	-7,956.8	351.1	7,964.3	0.00	0.00	0.00
20,500.0	90.00	179.60	12,197.0	-8,056.8	351.8	8,064.3	0.00	0.00	0.00
20,600.0	90.00	179.60	12,197.0	-8,156.8	352.4	8,164.2	0.00	0.00	0.00
20,700.0	90.00	179.60	12,197.0	-8,256.8	353.1	8,264.2	0.00	0.00	0.00
20,800.0	90.00	179.60	12,197.0	-8,356.8	353.8	8,364.1	0.00	0.00	0.00
20,900.0	90.00	179.60	12,197.0	-8,456.8	354.5	8,464.1	0.00	0.00	0.00
21,000.0	90.00	179.60	12,197.0	-8,556.8	355.2	8,564.0	0.00	0.00	0.00
21,100.0	90.00	179.60	12,197.0	-8,656.8	355.9	8,664.0	0.00	0.00	0.00
21,200.0	90.00	179.60	12,197.0	-8,756.8	356.6	8,764.0	0.00	0.00	0.00
21,300.0	90.00	179.60	12,197.0	-8,856.8	357.3	8,863.9	0.00	0.00	0.00
21,400.0	90.00	179.60	12,197.0	-8,956.8	358.0	8,963.9	0.00	0.00	0.00
21,500.0	90.00	179.60	12,197.0	-9,056.8	358.7	9,063.8	0.00	0.00	0.00
21,600.0	90.00	179.60	12,197.0	-9,156.8	359.4	9,163.8	0.00	0.00	0.00
21,700.0	90.00	179.60	12,197.0	-9,256.8	360.1	9,263.7	0.00	0.00	0.00
21,800.0	90.00	179.60	12,197.0	-9,356.8	360.8	9,363.7	0.00	0.00	0.00
21,900.0	90.00	179.60	12,197.0	-9,456.8	361.4	9,463.6	0.00	0.00	0.00
22,000.0	90.00	179.60	12,197.0	-9,556.8	362.1	9,563.6	0.00	0.00	0.00
22,100.0	90.00	179.60	12,197.0	-9,656.8	362.8	9,663.6	0.00	0.00	0.00
22,200.0	90.00	179.60	12,197.0	-9,756.7	363.5	9,763.5	0.00	0.00	0.00
22,300.0	90.00	179.60	12,197.0	-9,856.7	364.2	9,863.5	0.00	0.00	0.00
22,400.0	90.00	179.60	12,197.0	-9,956.7	364.9	9,963.4	0.00	0.00	0.00
22,414.3	90.00	179.60	12,197.0	-9,971.0	365.0	9,977.7	0.00	0.00	0.00

PBHL (Caravan 28 State Com #601H)



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #601H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3549.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3549.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#601H	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	0.00	11,719.5	435.0	293.0	435,762.00	774,321.00	32° 11' 44.678 N	103° 34' 48.539 W
FTP (Caravan 28 State - plan misses target center by 163.4usft at 12136.6usft MD (12075.1 TVD, 276.2 N, 294.1 E) - Point	0.00	0.00	12,197.0	385.0	293.0	435,712.00	774,321.00	32° 11' 44.184 N	103° 34' 48.543 W
PBHL (Caravan 28 State - plan hits target center - Point	0.00	0.00	12,197.0	-9,971.0	365.0	425,356.00	774,393.00	32° 10' 1.703 N	103° 34' 48.549 W