



Lea County, NM (NAD 83 NME)

Caravan 28 State Com #602H

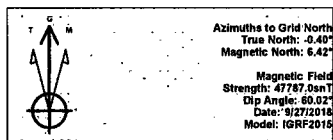
Plan #0.2

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: #602H

KB = 25 @ 3557.0usft 3532.0
Northing 435324.00 Easting 772945.00 Latitude 32° 11' 40.439 N Longitude 103° 35' 4.587 W



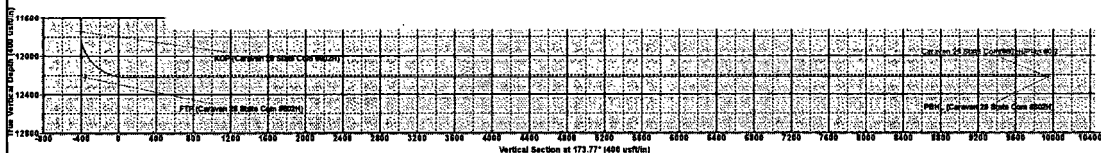
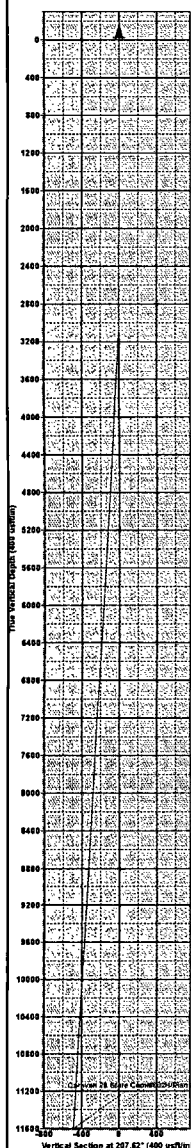
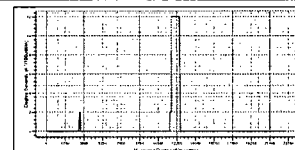
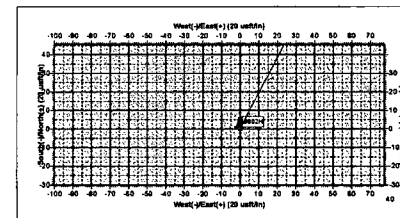
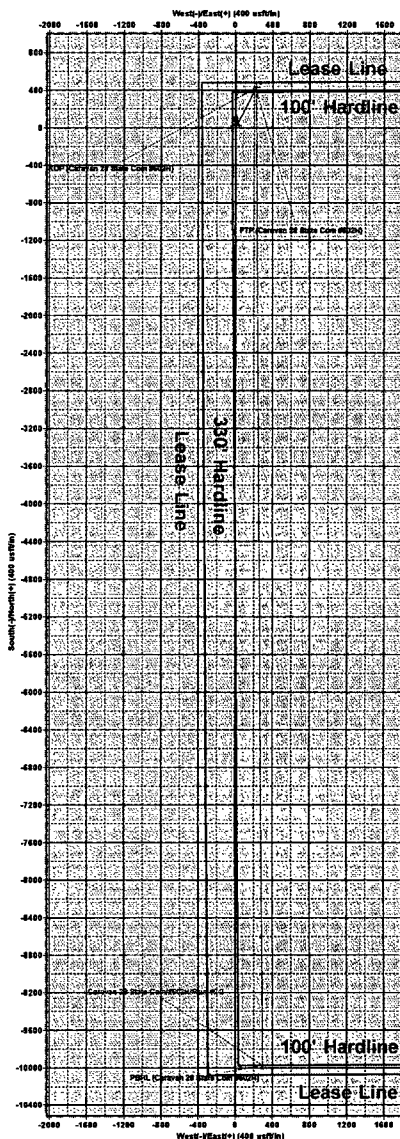
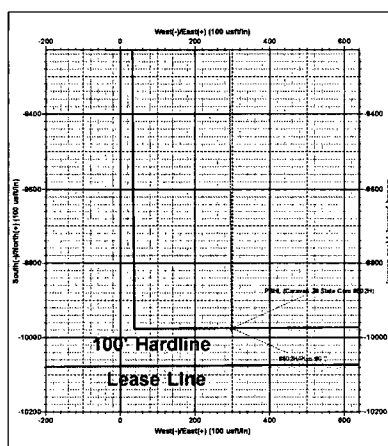
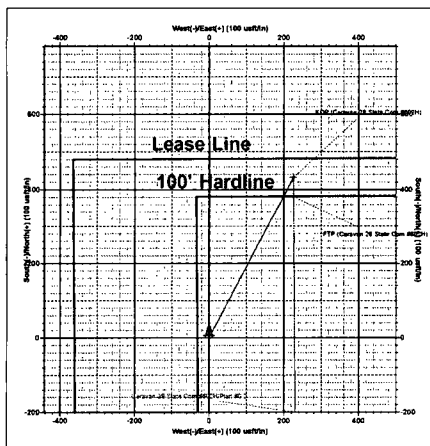
To convert a Magnetic Direction to a Grid Direction, Add 6.42°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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	3162.6	3.25	27.62	3162.5	4.1	2.1	2.00	27.62	-3.8	
4	11595.7	3.25	27.62	11582.0	427.9	223.9	0.00	0.00	-401.1	
5	11758.3	0.00	0.00	11744.5	432.0	228.0	2.00	180.00	-404.9	KOP (Caravan 28 State Com #602H)
6	12508.2	90.00	179.60	12222.0	-45.5	229.3	12.00	179.60	70.1	
7	22438.0	90.00	179.60	12222.0	-9975.0	298.0	0.00	0.00	9948.4	PBHL (Caravan 28 State Com #602H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Caravan 28 State Com #602H)	11744.5	432.0	228.0	435756.00	773171.00
FTP (Caravan 28 State Com #602H)	12222.0	382.0	228.0	435706.00	773171.00
PBHL (Caravan 28 State Com #602H)	12222.0	-9975.0	298.0	425349.00	773243.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caravan 28 State Com

#602H

OH

Plan: Plan #0.2

Standard Planning Report

14 December, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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	#602H					
Well Position	+N/-S	36.0 usft	Northing:	435,324.00 usft	Latitude:	32° 11' 40.439 N
	+E/-W	-1,733.0 usft	Easting:	772,945.00 usft	Longitude:	103° 35' 4.587 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,532.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/27/2018	6.82	60.02	47,786.95859341

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	173.77

Plan Survey Tool Program	Date	12/14/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	22,438.0 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	
3,162.6	3.25	27.62	3,162.5	4.1	2.1	2.00	2.00	0.00	27.62	
11,595.7	3.25	27.62	11,582.0	427.9	223.9	0.00	0.00	0.00	0.00	
11,758.3	0.00	0.00	11,744.5	432.0	226.0	2.00	-2.00	0.00	180.00	KOP (Caravan 28 Sta
12,508.2	90.00	179.60	12,222.0	-45.5	229.3	12.00	12.00	23.95	179.60	
22,438.0	90.00	179.60	12,222.0	-9,975.0	298.0	0.00	0.00	0.00	0.00	PBHL (Caravan 28 St

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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	27.62	3,100.0	1.5	0.8	-1.4	2.00	2.00	0.00
3,162.6	3.25	27.62	3,162.5	4.1	2.1	-3.8	2.00	2.00	0.00
3,200.0	3.25	27.62	3,199.9	6.0	3.1	-5.6	0.00	0.00	0.00
3,300.0	3.25	27.62	3,299.7	11.0	5.8	-10.3	0.00	0.00	0.00
3,400.0	3.25	27.62	3,399.5	16.0	8.4	-15.0	0.00	0.00	0.00
3,500.0	3.25	27.62	3,499.4	21.0	11.0	-19.7	0.00	0.00	0.00
3,600.0	3.25	27.62	3,599.2	26.1	13.6	-24.4	0.00	0.00	0.00
3,700.0	3.25	27.62	3,699.0	31.1	16.3	-29.1	0.00	0.00	0.00
3,800.0	3.25	27.62	3,798.9	36.1	18.9	-33.9	0.00	0.00	0.00
3,900.0	3.25	27.62	3,898.7	41.1	21.5	-38.6	0.00	0.00	0.00
4,000.0	3.25	27.62	3,998.6	46.2	24.2	-43.3	0.00	0.00	0.00
4,100.0	3.25	27.62	4,098.4	51.2	26.8	-48.0	0.00	0.00	0.00
4,200.0	3.25	27.62	4,198.2	56.2	29.4	-52.7	0.00	0.00	0.00
4,300.0	3.25	27.62	4,298.1	61.3	32.0	-57.4	0.00	0.00	0.00
4,400.0	3.25	27.62	4,397.9	66.3	34.7	-62.1	0.00	0.00	0.00
4,500.0	3.25	27.62	4,497.8	71.3	37.3	-66.8	0.00	0.00	0.00
4,600.0	3.25	27.62	4,597.6	76.3	39.9	-71.5	0.00	0.00	0.00
4,700.0	3.25	27.62	4,697.4	81.4	42.6	-76.3	0.00	0.00	0.00
4,800.0	3.25	27.62	4,797.3	86.4	45.2	-81.0	0.00	0.00	0.00
4,900.0	3.25	27.62	4,897.1	91.4	47.8	-85.7	0.00	0.00	0.00
5,000.0	3.25	27.62	4,997.0	96.4	50.4	-90.4	0.00	0.00	0.00
5,100.0	3.25	27.62	5,096.8	101.5	53.1	-95.1	0.00	0.00	0.00
5,200.0	3.25	27.62	5,196.6	106.5	55.7	-99.8	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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	3.25	27.62	5,296.5	111.5	58.3	-104.5	0.00	0.00	0.00	
5,400.0	3.25	27.62	5,396.3	116.5	61.0	-109.2	0.00	0.00	0.00	
5,500.0	3.25	27.62	5,496.1	121.6	63.6	-113.9	0.00	0.00	0.00	
5,600.0	3.25	27.62	5,596.0	126.6	66.2	-118.7	0.00	0.00	0.00	
5,700.0	3.25	27.62	5,695.8	131.6	68.9	-123.4	0.00	0.00	0.00	
5,800.0	3.25	27.62	5,795.7	136.6	71.5	-128.1	0.00	0.00	0.00	
5,900.0	3.25	27.62	5,895.5	141.7	74.1	-132.8	0.00	0.00	0.00	
6,000.0	3.25	27.62	5,995.3	146.7	76.7	-137.5	0.00	0.00	0.00	
6,100.0	3.25	27.62	6,095.2	151.7	79.4	-142.2	0.00	0.00	0.00	
6,200.0	3.25	27.62	6,195.0	156.7	82.0	-146.9	0.00	0.00	0.00	
6,300.0	3.25	27.62	6,294.9	161.8	84.6	-151.6	0.00	0.00	0.00	
6,400.0	3.25	27.62	6,394.7	166.8	87.3	-156.3	0.00	0.00	0.00	
6,500.0	3.25	27.62	6,494.5	171.8	89.9	-161.0	0.00	0.00	0.00	
6,600.0	3.25	27.62	6,594.4	176.8	92.5	-165.8	0.00	0.00	0.00	
6,700.0	3.25	27.62	6,694.2	181.9	95.1	-170.5	0.00	0.00	0.00	
6,800.0	3.25	27.62	6,794.1	186.9	97.8	-175.2	0.00	0.00	0.00	
6,900.0	3.25	27.62	6,893.9	191.9	100.4	-179.9	0.00	0.00	0.00	
7,000.0	3.25	27.62	6,993.7	196.9	103.0	-184.6	0.00	0.00	0.00	
7,100.0	3.25	27.62	7,093.6	202.0	105.7	-189.3	0.00	0.00	0.00	
7,200.0	3.25	27.62	7,193.4	207.0	108.3	-194.0	0.00	0.00	0.00	
7,300.0	3.25	27.62	7,293.3	212.0	110.9	-198.7	0.00	0.00	0.00	
7,400.0	3.25	27.62	7,393.1	217.0	113.5	-203.4	0.00	0.00	0.00	
7,500.0	3.25	27.62	7,492.9	222.1	116.2	-208.2	0.00	0.00	0.00	
7,600.0	3.25	27.62	7,592.8	227.1	118.8	-212.9	0.00	0.00	0.00	
7,700.0	3.25	27.62	7,692.6	232.1	121.4	-217.6	0.00	0.00	0.00	
7,800.0	3.25	27.62	7,792.4	237.2	124.1	-222.3	0.00	0.00	0.00	
7,900.0	3.25	27.62	7,892.3	242.2	126.7	-227.0	0.00	0.00	0.00	
8,000.0	3.25	27.62	7,992.1	247.2	129.3	-231.7	0.00	0.00	0.00	
8,100.0	3.25	27.62	8,092.0	252.2	132.0	-236.4	0.00	0.00	0.00	
8,200.0	3.25	27.62	8,191.8	257.3	134.6	-241.1	0.00	0.00	0.00	
8,300.0	3.25	27.62	8,291.6	262.3	137.2	-245.8	0.00	0.00	0.00	
8,400.0	3.25	27.62	8,391.5	267.3	139.8	-250.6	0.00	0.00	0.00	
8,500.0	3.25	27.62	8,491.3	272.3	142.5	-255.3	0.00	0.00	0.00	
8,600.0	3.25	27.62	8,591.2	277.4	145.1	-260.0	0.00	0.00	0.00	
8,700.0	3.25	27.62	8,691.0	282.4	147.7	-264.7	0.00	0.00	0.00	
8,800.0	3.25	27.62	8,790.8	287.4	150.4	-269.4	0.00	0.00	0.00	
8,900.0	3.25	27.62	8,890.7	292.4	153.0	-274.1	0.00	0.00	0.00	
9,000.0	3.25	27.62	8,990.5	297.5	155.6	-278.8	0.00	0.00	0.00	
9,100.0	3.25	27.62	9,090.4	302.5	158.2	-283.5	0.00	0.00	0.00	
9,200.0	3.25	27.62	9,190.2	307.5	160.9	-288.2	0.00	0.00	0.00	
9,300.0	3.25	27.62	9,290.0	312.5	163.5	-293.0	0.00	0.00	0.00	
9,400.0	3.25	27.62	9,389.9	317.6	166.1	-297.7	0.00	0.00	0.00	
9,500.0	3.25	27.62	9,489.7	322.6	168.8	-302.4	0.00	0.00	0.00	
9,600.0	3.25	27.62	9,589.5	327.6	171.4	-307.1	0.00	0.00	0.00	
9,700.0	3.25	27.62	9,689.4	332.6	174.0	-311.8	0.00	0.00	0.00	
9,800.0	3.25	27.62	9,789.2	337.7	176.7	-316.5	0.00	0.00	0.00	
9,900.0	3.25	27.62	9,889.1	342.7	179.3	-321.2	0.00	0.00	0.00	
10,000.0	3.25	27.62	9,988.9	347.7	181.9	-325.9	0.00	0.00	0.00	
10,100.0	3.25	27.62	10,088.7	352.7	184.5	-330.6	0.00	0.00	0.00	
10,200.0	3.25	27.62	10,188.6	357.8	187.2	-335.3	0.00	0.00	0.00	
10,300.0	3.25	27.62	10,288.4	362.8	189.8	-340.1	0.00	0.00	0.00	
10,400.0	3.25	27.62	10,388.3	367.8	192.4	-344.8	0.00	0.00	0.00	
10,500.0	3.25	27.62	10,488.1	372.8	195.1	-349.5	0.00	0.00	0.00	
10,600.0	3.25	27.62	10,587.9	377.9	197.7	-354.2	0.00	0.00	0.00	

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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	3.25	27.62	10,687.8	382.9	200.3	-358.9	0.00	0.00	0.00
10,800.0	3.25	27.62	10,787.6	387.9	202.9	-363.6	0.00	0.00	0.00
10,900.0	3.25	27.62	10,887.5	393.0	205.6	-368.3	0.00	0.00	0.00
11,000.0	3.25	27.62	10,987.3	398.0	208.2	-373.0	0.00	0.00	0.00
11,100.0	3.25	27.62	11,087.1	403.0	210.8	-377.7	0.00	0.00	0.00
11,200.0	3.25	27.62	11,187.0	408.0	213.5	-382.5	0.00	0.00	0.00
11,300.0	3.25	27.62	11,286.8	413.1	216.1	-387.2	0.00	0.00	0.00
11,400.0	3.25	27.62	11,386.7	418.1	218.7	-391.9	0.00	0.00	0.00
11,500.0	3.25	27.62	11,486.5	423.1	221.3	-396.6	0.00	0.00	0.00
11,595.7	3.25	27.62	11,582.0	427.9	223.9	-401.1	0.00	0.00	0.00
11,600.0	3.17	27.62	11,586.3	428.1	224.0	-401.3	2.00	-2.00	0.00
11,700.0	1.17	27.62	11,686.3	431.5	225.7	-404.4	2.00	-2.00	0.00
11,758.3	0.00	0.00	11,744.5	432.0	226.0	-404.9	2.00	-2.00	0.00
11,775.0	2.01	179.60	11,761.2	431.7	226.0	-404.6	12.00	12.00	0.00
11,800.0	5.01	179.60	11,786.2	430.2	226.0	-403.1	12.00	12.00	0.00
11,825.0	8.01	179.60	11,811.0	427.3	226.0	-400.3	12.00	12.00	0.00
11,850.0	11.01	179.60	11,835.7	423.2	226.1	-396.2	12.00	12.00	0.00
11,875.0	14.01	179.60	11,860.1	417.8	226.1	-390.8	12.00	12.00	0.00
11,900.0	17.01	179.60	11,884.2	411.1	226.1	-384.1	12.00	12.00	0.00
11,925.0	20.01	179.60	11,907.9	403.2	226.2	-376.3	12.00	12.00	0.00
11,950.0	23.01	179.60	11,931.1	394.0	226.3	-367.1	12.00	12.00	0.00
11,975.0	26.01	179.60	11,953.9	383.6	226.3	-356.8	12.00	12.00	0.00
12,000.0	29.01	179.60	11,976.1	372.1	226.4	-345.3	12.00	12.00	0.00
12,025.0	32.01	179.60	11,997.6	359.4	226.5	-332.7	12.00	12.00	0.00
12,050.0	35.01	179.60	12,018.4	345.6	226.6	-319.0	12.00	12.00	0.00
12,075.0	38.01	179.60	12,038.5	330.7	226.7	-304.2	12.00	12.00	0.00
12,100.0	41.01	179.60	12,057.8	314.8	226.8	-288.4	12.00	12.00	0.00
12,125.0	44.01	179.60	12,076.2	297.9	226.9	-271.6	12.00	12.00	0.00
12,150.0	47.01	179.60	12,093.8	280.1	227.1	-253.8	12.00	12.00	0.00
12,175.0	50.01	179.60	12,110.3	261.4	227.2	-235.2	12.00	12.00	0.00
12,200.0	53.01	179.60	12,125.9	241.8	227.3	-215.7	12.00	12.00	0.00
12,225.0	56.01	179.60	12,140.4	221.5	227.5	-195.5	12.00	12.00	0.00
12,250.0	59.01	179.60	12,153.8	200.4	227.6	-174.5	12.00	12.00	0.00
12,275.0	62.01	179.60	12,166.1	178.6	227.8	-152.9	12.00	12.00	0.00
12,300.0	65.01	179.60	12,177.3	156.3	227.9	-130.6	12.00	12.00	0.00
12,325.0	68.01	179.60	12,187.2	133.3	228.1	-107.8	12.00	12.00	0.00
12,350.0	71.01	179.60	12,196.0	109.9	228.2	-84.5	12.00	12.00	0.00
12,375.0	74.01	179.60	12,203.5	86.1	228.4	-60.8	12.00	12.00	0.00
12,400.0	77.01	179.60	12,209.7	61.9	228.6	-36.7	12.00	12.00	0.00
12,425.0	80.01	179.60	12,214.7	37.4	228.7	-12.3	12.00	12.00	0.00
12,450.0	83.01	179.60	12,218.4	12.7	228.9	12.3	12.00	12.00	0.00
12,475.0	86.01	179.60	12,220.8	-12.2	229.1	37.0	12.00	12.00	0.00
12,500.0	89.01	179.60	12,221.9	-37.2	229.2	61.9	12.00	12.00	0.00
12,508.2	90.00	179.60	12,222.0	-45.5	229.3	70.1	12.00	12.00	0.00
12,600.0	90.00	179.60	12,222.0	-137.2	229.9	161.3	0.00	0.00	0.00
12,700.0	90.00	179.60	12,222.0	-237.2	230.6	260.8	0.00	0.00	0.00
12,800.0	90.00	179.60	12,222.0	-337.2	231.3	360.3	0.00	0.00	0.00
12,900.0	90.00	179.60	12,222.0	-437.2	232.0	459.8	0.00	0.00	0.00
13,000.0	90.00	179.60	12,222.0	-537.2	232.7	559.3	0.00	0.00	0.00
13,100.0	90.00	179.60	12,222.0	-637.2	233.4	658.8	0.00	0.00	0.00
13,200.0	90.00	179.60	12,222.0	-737.2	234.1	758.2	0.00	0.00	0.00
13,300.0	90.00	179.60	12,222.0	-837.2	234.8	857.7	0.00	0.00	0.00
13,400.0	90.00	179.60	12,222.0	-937.2	235.5	957.2	0.00	0.00	0.00
13,500.0	90.00	179.60	12,222.0	-1,037.2	236.2	1,056.7	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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)
13,600.0	90.00	179.60	12,222.0	-1,137.2	236.9	1,156.2	0.00	0.00	0.00
13,700.0	90.00	179.60	12,222.0	-1,237.2	237.5	1,255.6	0.00	0.00	0.00
13,800.0	90.00	179.60	12,222.0	-1,337.2	238.2	1,355.1	0.00	0.00	0.00
13,900.0	90.00	179.60	12,222.0	-1,437.2	238.9	1,454.6	0.00	0.00	0.00
14,000.0	90.00	179.60	12,222.0	-1,537.2	239.6	1,554.1	0.00	0.00	0.00
14,100.0	90.00	179.60	12,222.0	-1,637.2	240.3	1,653.6	0.00	0.00	0.00
14,200.0	90.00	179.60	12,222.0	-1,737.2	241.0	1,753.1	0.00	0.00	0.00
14,300.0	90.00	179.60	12,222.0	-1,837.2	241.7	1,852.5	0.00	0.00	0.00
14,400.0	90.00	179.60	12,222.0	-1,937.2	242.4	1,952.0	0.00	0.00	0.00
14,500.0	90.00	179.60	12,222.0	-2,037.2	243.1	2,051.5	0.00	0.00	0.00
14,600.0	90.00	179.60	12,222.0	-2,137.2	243.8	2,151.0	0.00	0.00	0.00
14,700.0	90.00	179.60	12,222.0	-2,237.2	244.5	2,250.5	0.00	0.00	0.00
14,800.0	90.00	179.60	12,222.0	-2,337.1	245.2	2,350.0	0.00	0.00	0.00
14,900.0	90.00	179.60	12,222.0	-2,437.1	245.8	2,449.4	0.00	0.00	0.00
15,000.0	90.00	179.60	12,222.0	-2,537.1	246.5	2,548.9	0.00	0.00	0.00
15,100.0	90.00	179.60	12,222.0	-2,637.1	247.2	2,648.4	0.00	0.00	0.00
15,200.0	90.00	179.60	12,222.0	-2,737.1	247.9	2,747.9	0.00	0.00	0.00
15,300.0	90.00	179.60	12,222.0	-2,837.1	248.6	2,847.4	0.00	0.00	0.00
15,400.0	90.00	179.60	12,222.0	-2,937.1	249.3	2,946.8	0.00	0.00	0.00
15,500.0	90.00	179.60	12,222.0	-3,037.1	250.0	3,046.3	0.00	0.00	0.00
15,600.0	90.00	179.60	12,222.0	-3,137.1	250.7	3,145.8	0.00	0.00	0.00
15,700.0	90.00	179.60	12,222.0	-3,237.1	251.4	3,245.3	0.00	0.00	0.00
15,800.0	90.00	179.60	12,222.0	-3,337.1	252.1	3,344.8	0.00	0.00	0.00
15,900.0	90.00	179.60	12,222.0	-3,437.1	252.8	3,444.3	0.00	0.00	0.00
16,000.0	90.00	179.60	12,222.0	-3,537.1	253.5	3,543.7	0.00	0.00	0.00
16,100.0	90.00	179.60	12,222.0	-3,637.1	254.2	3,643.2	0.00	0.00	0.00
16,200.0	90.00	179.60	12,222.0	-3,737.1	254.8	3,742.7	0.00	0.00	0.00
16,300.0	90.00	179.60	12,222.0	-3,837.1	255.5	3,842.2	0.00	0.00	0.00
16,400.0	90.00	179.60	12,222.0	-3,937.1	256.2	3,941.7	0.00	0.00	0.00
16,500.0	90.00	179.60	12,222.0	-4,037.1	256.9	4,041.1	0.00	0.00	0.00
16,600.0	90.00	179.60	12,222.0	-4,137.1	257.6	4,140.6	0.00	0.00	0.00
16,700.0	90.00	179.60	12,222.0	-4,237.1	258.3	4,240.1	0.00	0.00	0.00
16,800.0	90.00	179.60	12,222.0	-4,337.1	259.0	4,339.6	0.00	0.00	0.00
16,900.0	90.00	179.60	12,222.0	-4,437.1	259.7	4,439.1	0.00	0.00	0.00
17,000.0	90.00	179.60	12,222.0	-4,537.1	260.4	4,538.6	0.00	0.00	0.00
17,100.0	90.00	179.60	12,222.0	-4,637.1	261.1	4,638.0	0.00	0.00	0.00
17,200.0	90.00	179.60	12,222.0	-4,737.1	261.8	4,737.5	0.00	0.00	0.00
17,300.0	90.00	179.60	12,222.0	-4,837.1	262.5	4,837.0	0.00	0.00	0.00
17,400.0	90.00	179.60	12,222.0	-4,937.1	263.1	4,936.5	0.00	0.00	0.00
17,500.0	90.00	179.60	12,222.0	-5,037.1	263.8	5,036.0	0.00	0.00	0.00
17,600.0	90.00	179.60	12,222.0	-5,137.1	264.5	5,135.5	0.00	0.00	0.00
17,700.0	90.00	179.60	12,222.0	-5,237.1	265.2	5,234.9	0.00	0.00	0.00
17,800.0	90.00	179.60	12,222.0	-5,337.1	265.9	5,334.4	0.00	0.00	0.00
17,900.0	90.00	179.60	12,222.0	-5,437.1	266.6	5,433.9	0.00	0.00	0.00
18,000.0	90.00	179.60	12,222.0	-5,537.1	267.3	5,533.4	0.00	0.00	0.00
18,100.0	90.00	179.60	12,222.0	-5,637.1	268.0	5,632.9	0.00	0.00	0.00
18,200.0	90.00	179.60	12,222.0	-5,737.1	268.7	5,732.3	0.00	0.00	0.00
18,300.0	90.00	179.60	12,222.0	-5,837.1	269.4	5,831.8	0.00	0.00	0.00
18,400.0	90.00	179.60	12,222.0	-5,937.1	270.1	5,931.3	0.00	0.00	0.00
18,500.0	90.00	179.60	12,222.0	-6,037.1	270.8	6,030.8	0.00	0.00	0.00
18,600.0	90.00	179.60	12,222.0	-6,137.1	271.4	6,130.3	0.00	0.00	0.00
18,700.0	90.00	179.60	12,222.0	-6,237.1	272.1	6,229.8	0.00	0.00	0.00
18,800.0	90.00	179.60	12,222.0	-6,337.1	272.8	6,329.2	0.00	0.00	0.00
18,900.0	90.00	179.60	12,222.0	-6,437.0	273.5	6,428.7	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	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)	
19,000.0	90.00	179.60	12,222.0	-6,537.0	274.2	6,528.2	0.00	0.00	0.00	
19,100.0	90.00	179.60	12,222.0	-6,637.0	274.9	6,627.7	0.00	0.00	0.00	
19,200.0	90.00	179.60	12,222.0	-6,737.0	275.6	6,727.2	0.00	0.00	0.00	
19,300.0	90.00	179.60	12,222.0	-6,837.0	276.3	6,826.6	0.00	0.00	0.00	
19,400.0	90.00	179.60	12,222.0	-6,937.0	277.0	6,926.1	0.00	0.00	0.00	
19,500.0	90.00	179.60	12,222.0	-7,037.0	277.7	7,025.6	0.00	0.00	0.00	
19,600.0	90.00	179.60	12,222.0	-7,137.0	278.4	7,125.1	0.00	0.00	0.00	
19,700.0	90.00	179.60	12,222.0	-7,237.0	279.1	7,224.6	0.00	0.00	0.00	
19,800.0	90.00	179.60	12,222.0	-7,337.0	279.7	7,324.1	0.00	0.00	0.00	
19,900.0	90.00	179.60	12,222.0	-7,437.0	280.4	7,423.5	0.00	0.00	0.00	
20,000.0	90.00	179.60	12,222.0	-7,537.0	281.1	7,523.0	0.00	0.00	0.00	
20,100.0	90.00	179.60	12,222.0	-7,637.0	281.8	7,622.5	0.00	0.00	0.00	
20,200.0	90.00	179.60	12,222.0	-7,737.0	282.5	7,722.0	0.00	0.00	0.00	
20,300.0	90.00	179.60	12,222.0	-7,837.0	283.2	7,821.5	0.00	0.00	0.00	
20,400.0	90.00	179.60	12,222.0	-7,937.0	283.9	7,921.0	0.00	0.00	0.00	
20,500.0	90.00	179.60	12,222.0	-8,037.0	284.6	8,020.4	0.00	0.00	0.00	
20,600.0	90.00	179.60	12,222.0	-8,137.0	285.3	8,119.9	0.00	0.00	0.00	
20,700.0	90.00	179.60	12,222.0	-8,237.0	286.0	8,219.4	0.00	0.00	0.00	
20,800.0	90.00	179.60	12,222.0	-8,337.0	286.7	8,318.9	0.00	0.00	0.00	
20,900.0	90.00	179.60	12,222.0	-8,437.0	287.4	8,418.4	0.00	0.00	0.00	
21,000.0	90.00	179.60	12,222.0	-8,537.0	288.1	8,517.8	0.00	0.00	0.00	
21,100.0	90.00	179.60	12,222.0	-8,637.0	288.7	8,617.3	0.00	0.00	0.00	
21,200.0	90.00	179.60	12,222.0	-8,737.0	289.4	8,716.8	0.00	0.00	0.00	
21,300.0	90.00	179.60	12,222.0	-8,837.0	290.1	8,816.3	0.00	0.00	0.00	
21,400.0	90.00	179.60	12,222.0	-8,937.0	290.8	8,915.8	0.00	0.00	0.00	
21,500.0	90.00	179.60	12,222.0	-9,037.0	291.5	9,015.3	0.00	0.00	0.00	
21,600.0	90.00	179.60	12,222.0	-9,137.0	292.2	9,114.7	0.00	0.00	0.00	
21,700.0	90.00	179.60	12,222.0	-9,237.0	292.9	9,214.2	0.00	0.00	0.00	
21,800.0	90.00	179.60	12,222.0	-9,337.0	293.6	9,313.7	0.00	0.00	0.00	
21,900.0	90.00	179.60	12,222.0	-9,437.0	294.3	9,413.2	0.00	0.00	0.00	
22,000.0	90.00	179.60	12,222.0	-9,537.0	295.0	9,512.7	0.00	0.00	0.00	
22,100.0	90.00	179.60	12,222.0	-9,637.0	295.7	9,612.1	0.00	0.00	0.00	
22,200.0	90.00	179.60	12,222.0	-9,737.0	296.4	9,711.6	0.00	0.00	0.00	
22,300.0	90.00	179.60	12,222.0	-9,837.0	297.0	9,811.1	0.00	0.00	0.00	
22,400.0	90.00	179.60	12,222.0	-9,937.0	297.7	9,910.6	0.00	0.00	0.00	
22,438.0	90.00	179.60	12,222.0	-9,975.0	298.0	9,948.4	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
KOP (Caravan 28 State	0.00	0.00	11,744.5	432.0	226.0	435,756.00	773,171.00	32° 11' 44.699 N		103° 35' 1.922 W
- plan hits target center										
- Point										
FTP (Caravan 28 State (	0.00	0.00	12,222.0	382.0	226.0	435,706.00	773,171.00	32° 11' 44.204 N		103° 35' 1.926 W
- plan misses target center by 163.4usft at 12158.6usft MD (12099.6 TVD, 273.7 N, 227.1 E)										
- Point										
PBHL (Caravan 28 State	0.00	0.00	12,222.0	-9,975.0	298.0	425,349.00	773,243.00	32° 10' 1.713 N		103° 35' 1.928 W
- plan hits target center										
- Point										

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #602H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3557.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3557.0usft
Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#602H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		