



Lea County, NM (NAD 83 NME)
Caravan 28 State Com #705H
Plan #0.2

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

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

WELL DETAILS: #705H

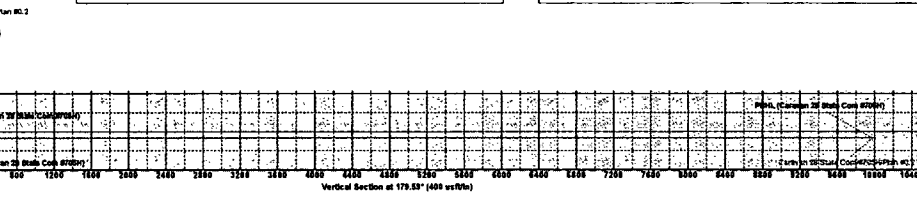
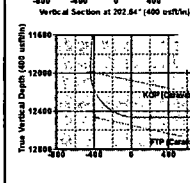
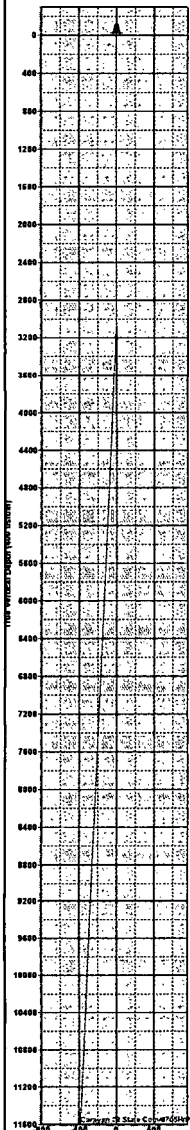
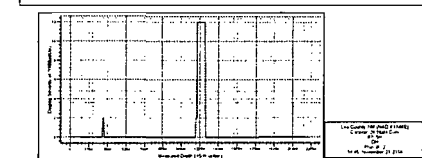
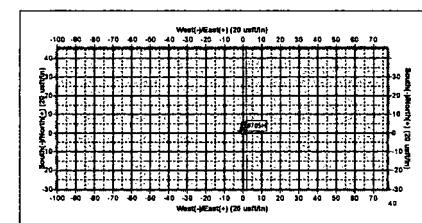
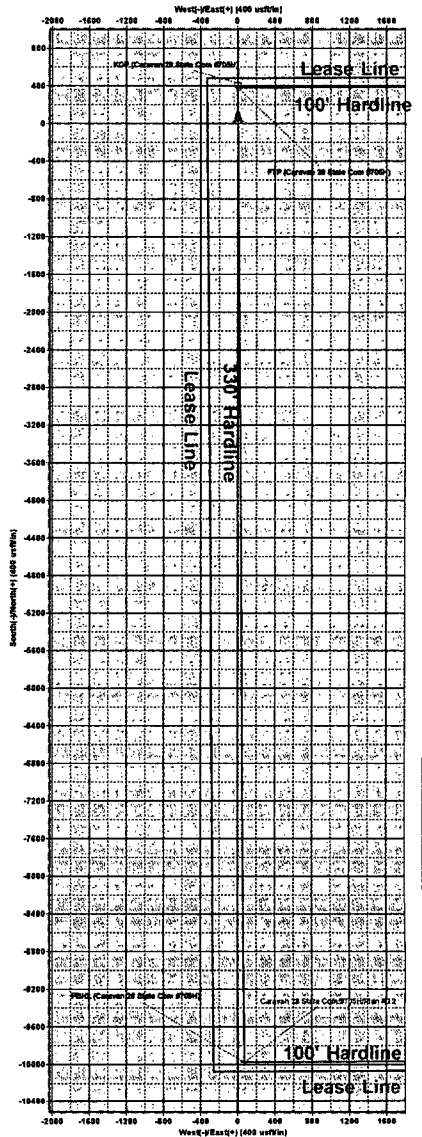
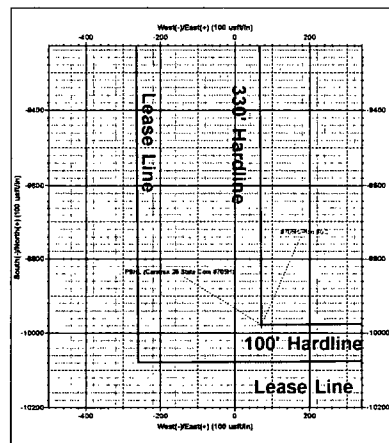
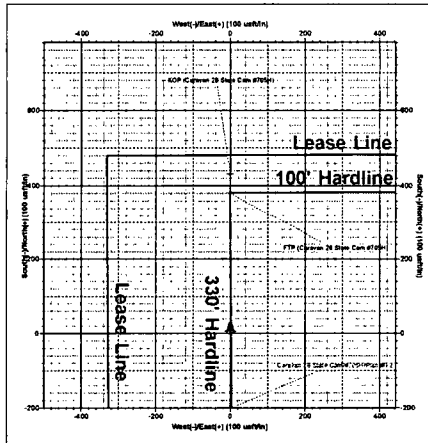
KB = 25 @ 3557.0usft 3532.0
Northing 435324.00 Easting 772912.00 Latitude 32° 11' 40.442 N Longitude 103° 35' 4.971 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3139.4	2.79	359.87	3139.3	3.4	0.0	2.00	359.87	-3.4	
4	11861.5	2.79	359.87	11851.2	427.6	-1.0	0.00	0.00	-427.6	
5	12000.9	0.00	0.00	11990.5	431.0	-1.0	2.00	180.00	-431.0	KOP (Caravan 28 State Com #705H)
6	12750.9	90.00	179.60	12468.0	46.5	2.3	12.00	179.60	46.5	
7	22681.7	90.00	179.60	12468.0	-9977.0	71.0	0.00	0.00	9977.3	PBHL (Caravan 28 State Com #705H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Caravan 28 State Com #705H)	11896.5	431.0	-1.0	435755.00	772911.00
FTP (Caravan 28 State Com #705H)	12468.0	381.0	-1.0	435705.00	772911.00
PBHL (Caravan 28 State Com #705H)	12468.0	-9977.0	71.0	426347.00	772883.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caravan 28 State Com

#705H

OH

Plan: Plan #0.2

Standard Planning Report

21 November, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
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:	#705H	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
From:	Map	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	#705H		
Well Position	+N/-S	36.0 usft	Northing:
	+E/-W	-1,766.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,532.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	9/27/2018	6.82
			Dip Angle
			(°)
			Field Strength
			(nT)
			47,786.94781872

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
			(°)
			179.59

Plan Survey Tool Program	Date 11/21/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1	0.0	22,681.7 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	
3,139.4	2.79	359.87	3,139.3	3.4	0.0	2.00	2.00	0.00	359.87	
11,861.5	2.79	359.87	11,851.2	427.6	-1.0	0.00	0.00	0.00	0.00	
12,000.9	0.00	0.00	11,990.5	431.0	-1.0	2.00	-2.00	0.00	180.00	KOP (Caravan 28 Sta
12,750.9	90.00	179.60	12,468.0	-46.5	2.3	12.00	12.00	23.95	179.60	
22,681.7	90.00	179.60	12,468.0	-9,977.0	71.0	0.00	0.00	0.00	0.00	PBHL (Caravan 28 St

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Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	359.87	3,100.0	1.7	0.0	-1.7	2.00	2.00	0.00
3,139.4	2.79	359.87	3,139.3	3.4	0.0	-3.4	2.00	2.00	0.00
3,200.0	2.79	359.87	3,199.9	6.3	0.0	-6.3	0.00	0.00	0.00
3,300.0	2.79	359.87	3,299.8	11.2	0.0	-11.2	0.00	0.00	0.00
3,400.0	2.79	359.87	3,399.6	16.1	0.0	-16.1	0.00	0.00	0.00
3,500.0	2.79	359.87	3,499.5	20.9	0.0	-20.9	0.00	0.00	0.00
3,600.0	2.79	359.87	3,599.4	25.8	-0.1	-25.8	0.00	0.00	0.00
3,700.0	2.79	359.87	3,699.3	30.7	-0.1	-30.7	0.00	0.00	0.00
3,800.0	2.79	359.87	3,799.2	35.5	-0.1	-35.5	0.00	0.00	0.00
3,900.0	2.79	359.87	3,899.0	40.4	-0.1	-40.4	0.00	0.00	0.00
4,000.0	2.79	359.87	3,998.9	45.2	-0.1	-45.2	0.00	0.00	0.00
4,100.0	2.79	359.87	4,098.8	50.1	-0.1	-50.1	0.00	0.00	0.00
4,200.0	2.79	359.87	4,198.7	55.0	-0.1	-55.0	0.00	0.00	0.00
4,300.0	2.79	359.87	4,298.6	59.8	-0.1	-59.8	0.00	0.00	0.00
4,400.0	2.79	359.87	4,398.5	64.7	-0.2	-64.7	0.00	0.00	0.00
4,500.0	2.79	359.87	4,498.3	69.6	-0.2	-69.6	0.00	0.00	0.00
4,600.0	2.79	359.87	4,598.2	74.4	-0.2	-74.4	0.00	0.00	0.00
4,700.0	2.79	359.87	4,698.1	79.3	-0.2	-79.3	0.00	0.00	0.00
4,800.0	2.79	359.87	4,798.0	84.2	-0.2	-84.2	0.00	0.00	0.00
4,900.0	2.79	359.87	4,897.9	89.0	-0.2	-89.0	0.00	0.00	0.00
5,000.0	2.79	359.87	4,997.7	93.9	-0.2	-93.9	0.00	0.00	0.00
5,100.0	2.79	359.87	5,097.6	98.7	-0.2	-98.7	0.00	0.00	0.00
5,200.0	2.79	359.87	5,197.5	103.6	-0.2	-103.6	0.00	0.00	0.00

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Site:	Caravan 28 State Com	North Reference:	Grid
Well:	#705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	2.79	359.87	5,297.4	108.5	-0.3	-108.5	0.00	0.00	0.00
5,400.0	2.79	359.87	5,397.3	113.3	-0.3	-113.3	0.00	0.00	0.00
5,500.0	2.79	359.87	5,497.2	118.2	-0.3	-118.2	0.00	0.00	0.00
5,600.0	2.79	359.87	5,597.0	123.1	-0.3	-123.1	0.00	0.00	0.00
5,700.0	2.79	359.87	5,696.9	127.9	-0.3	-127.9	0.00	0.00	0.00
5,800.0	2.79	359.87	5,796.8	132.8	-0.3	-132.8	0.00	0.00	0.00
5,900.0	2.79	359.87	5,896.7	137.7	-0.3	-137.7	0.00	0.00	0.00
6,000.0	2.79	359.87	5,996.6	142.5	-0.3	-142.5	0.00	0.00	0.00
6,100.0	2.79	359.87	6,096.4	147.4	-0.3	-147.4	0.00	0.00	0.00
6,200.0	2.79	359.87	6,196.3	152.2	-0.4	-152.2	0.00	0.00	0.00
6,300.0	2.79	359.87	6,296.2	157.1	-0.4	-157.1	0.00	0.00	0.00
6,400.0	2.79	359.87	6,396.1	162.0	-0.4	-162.0	0.00	0.00	0.00
6,500.0	2.79	359.87	6,496.0	166.8	-0.4	-166.8	0.00	0.00	0.00
6,600.0	2.79	359.87	6,595.8	171.7	-0.4	-171.7	0.00	0.00	0.00
6,700.0	2.79	359.87	6,695.7	176.6	-0.4	-176.6	0.00	0.00	0.00
6,800.0	2.79	359.87	6,795.6	181.4	-0.4	-181.4	0.00	0.00	0.00
6,900.0	2.79	359.87	6,895.5	186.3	-0.4	-186.3	0.00	0.00	0.00
7,000.0	2.79	359.87	6,995.4	191.2	-0.4	-191.2	0.00	0.00	0.00
7,100.0	2.79	359.87	7,095.3	196.0	-0.5	-196.0	0.00	0.00	0.00
7,200.0	2.79	359.87	7,195.1	200.9	-0.5	-200.9	0.00	0.00	0.00
7,300.0	2.79	359.87	7,295.0	205.7	-0.5	-205.7	0.00	0.00	0.00
7,400.0	2.79	359.87	7,394.9	210.6	-0.5	-210.6	0.00	0.00	0.00
7,500.0	2.79	359.87	7,494.8	215.5	-0.5	-215.5	0.00	0.00	0.00
7,600.0	2.79	359.87	7,594.7	220.3	-0.5	-220.3	0.00	0.00	0.00
7,700.0	2.79	359.87	7,694.5	225.2	-0.5	-225.2	0.00	0.00	0.00
7,800.0	2.79	359.87	7,794.4	230.1	-0.5	-230.1	0.00	0.00	0.00
7,900.0	2.79	359.87	7,894.3	234.9	-0.5	-234.9	0.00	0.00	0.00
8,000.0	2.79	359.87	7,994.2	239.8	-0.6	-239.8	0.00	0.00	0.00
8,100.0	2.79	359.87	8,094.1	244.7	-0.6	-244.7	0.00	0.00	0.00
8,200.0	2.79	359.87	8,194.0	249.5	-0.6	-249.5	0.00	0.00	0.00
8,300.0	2.79	359.87	8,293.8	254.4	-0.6	-254.4	0.00	0.00	0.00
8,400.0	2.79	359.87	8,393.7	259.3	-0.6	-259.2	0.00	0.00	0.00
8,500.0	2.79	359.87	8,493.6	264.1	-0.6	-264.1	0.00	0.00	0.00
8,600.0	2.79	359.87	8,593.5	269.0	-0.6	-269.0	0.00	0.00	0.00
8,700.0	2.79	359.87	8,693.4	273.8	-0.6	-273.8	0.00	0.00	0.00
8,800.0	2.79	359.87	8,793.2	278.7	-0.6	-278.7	0.00	0.00	0.00
8,900.0	2.79	359.87	8,893.1	283.6	-0.7	-283.6	0.00	0.00	0.00
9,000.0	2.79	359.87	8,993.0	288.4	-0.7	-288.4	0.00	0.00	0.00
9,100.0	2.79	359.87	9,092.9	293.3	-0.7	-293.3	0.00	0.00	0.00
9,200.0	2.79	359.87	9,192.8	298.2	-0.7	-298.2	0.00	0.00	0.00
9,300.0	2.79	359.87	9,292.7	303.0	-0.7	-303.0	0.00	0.00	0.00
9,400.0	2.79	359.87	9,392.5	307.9	-0.7	-307.9	0.00	0.00	0.00
9,500.0	2.79	359.87	9,492.4	312.8	-0.7	-312.7	0.00	0.00	0.00
9,600.0	2.79	359.87	9,592.3	317.6	-0.7	-317.6	0.00	0.00	0.00
9,700.0	2.79	359.87	9,692.2	322.5	-0.7	-322.5	0.00	0.00	0.00
9,800.0	2.79	359.87	9,792.1	327.3	-0.8	-327.3	0.00	0.00	0.00
9,900.0	2.79	359.87	9,891.9	332.2	-0.8	-332.2	0.00	0.00	0.00
10,000.0	2.79	359.87	9,991.8	337.1	-0.8	-337.1	0.00	0.00	0.00
10,100.0	2.79	359.87	10,091.7	341.9	-0.8	-341.9	0.00	0.00	0.00
10,200.0	2.79	359.87	10,191.6	346.8	-0.8	-346.8	0.00	0.00	0.00
10,300.0	2.79	359.87	10,291.5	351.7	-0.8	-351.7	0.00	0.00	0.00
10,400.0	2.79	359.87	10,391.4	356.5	-0.8	-356.5	0.00	0.00	0.00
10,500.0	2.79	359.87	10,491.2	361.4	-0.8	-361.4	0.00	0.00	0.00
10,600.0	2.79	359.87	10,591.1	366.3	-0.8	-366.2	0.00	0.00	0.00

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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	2.79	359.87	10,691.0	371.1	-0.9	-371.1	0.00	0.00	0.00
10,800.0	2.79	359.87	10,790.9	376.0	-0.9	-376.0	0.00	0.00	0.00
10,900.0	2.79	359.87	10,890.8	380.8	-0.9	-380.8	0.00	0.00	0.00
11,000.0	2.79	359.87	10,990.6	385.7	-0.9	-385.7	0.00	0.00	0.00
11,100.0	2.79	359.87	11,090.5	390.6	-0.9	-390.6	0.00	0.00	0.00
11,200.0	2.79	359.87	11,190.4	395.4	-0.9	-395.4	0.00	0.00	0.00
11,300.0	2.79	359.87	11,290.3	400.3	-0.9	-400.3	0.00	0.00	0.00
11,400.0	2.79	359.87	11,390.2	405.2	-0.9	-405.2	0.00	0.00	0.00
11,500.0	2.79	359.87	11,490.1	410.0	-1.0	-410.0	0.00	0.00	0.00
11,600.0	2.79	359.87	11,589.9	414.9	-1.0	-414.9	0.00	0.00	0.00
11,700.0	2.79	359.87	11,689.8	419.8	-1.0	-419.7	0.00	0.00	0.00
11,800.0	2.79	359.87	11,789.7	424.6	-1.0	-424.6	0.00	0.00	0.00
11,861.5	2.79	359.87	11,851.2	427.6	-1.0	-427.6	0.00	0.00	0.00
11,900.0	2.02	359.87	11,889.6	429.2	-1.0	-429.2	2.00	-2.00	0.00
12,000.9	0.00	0.00	11,990.5	431.0	-1.0	-431.0	2.00	-2.00	0.00
KOP (Caravan 28 State Com #705H)									
12,025.0	2.89	179.60	12,014.6	430.4	-1.0	-430.4	12.00	12.00	0.00
12,050.0	5.89	179.60	12,039.5	428.5	-1.0	-428.5	12.00	12.00	0.00
12,075.0	8.89	179.60	12,064.3	425.3	-1.0	-425.3	12.00	12.00	0.00
12,100.0	11.89	179.60	12,088.9	420.8	-0.9	-420.8	12.00	12.00	0.00
12,125.0	14.89	179.60	12,113.2	415.0	-0.9	-415.0	12.00	12.00	0.00
12,150.0	17.89	179.60	12,137.2	407.9	-0.8	-407.9	12.00	12.00	0.00
12,175.0	20.89	179.60	12,160.7	399.6	-0.8	-399.6	12.00	12.00	0.00
12,200.0	23.89	179.60	12,183.8	390.1	-0.7	-390.1	12.00	12.00	0.00
12,225.0	26.89	179.60	12,206.4	379.4	-0.6	-379.4	12.00	12.00	0.00
12,250.0	29.89	179.60	12,228.4	367.5	-0.6	-367.5	12.00	12.00	0.00
12,275.0	32.89	179.60	12,249.8	354.5	-0.5	-354.5	12.00	12.00	0.00
12,300.0	35.89	179.60	12,270.4	340.4	-0.4	-340.4	12.00	12.00	0.00
12,325.0	38.89	179.60	12,290.3	325.2	-0.3	-325.2	12.00	12.00	0.00
12,350.0	41.89	179.60	12,309.3	309.0	-0.2	-309.0	12.00	12.00	0.00
12,375.0	44.89	179.60	12,327.5	291.8	0.0	-291.8	12.00	12.00	0.00
12,400.0	47.89	179.60	12,344.7	273.7	0.1	-273.7	12.00	12.00	0.00
FTP (Caravan 28 State Com #705H)									
12,425.0	50.89	179.60	12,361.0	254.7	0.2	-254.7	12.00	12.00	0.00
12,450.0	53.89	179.60	12,376.2	234.9	0.4	-234.9	12.00	12.00	0.00
12,475.0	56.89	179.60	12,390.4	214.4	0.5	-214.4	12.00	12.00	0.00
12,500.0	59.89	179.60	12,403.5	193.1	0.6	-193.1	12.00	12.00	0.00
12,525.0	62.89	179.60	12,415.5	171.1	0.8	-171.1	12.00	12.00	0.00
12,550.0	65.89	179.60	12,426.3	148.6	1.0	-148.6	12.00	12.00	0.00
12,575.0	68.89	179.60	12,435.9	125.5	1.1	-125.5	12.00	12.00	0.00
12,600.0	71.89	179.60	12,444.3	102.0	1.3	-102.0	12.00	12.00	0.00
12,625.0	74.89	179.60	12,451.5	78.0	1.4	-78.0	12.00	12.00	0.00
12,650.0	77.89	179.60	12,457.3	53.7	1.6	-53.7	12.00	12.00	0.00
12,675.0	80.89	179.60	12,461.9	29.2	1.8	-29.1	12.00	12.00	0.00
12,700.0	83.89	179.60	12,465.3	4.4	2.0	-4.4	12.00	12.00	0.00
12,725.0	86.89	179.60	12,467.3	-20.5	2.1	20.5	12.00	12.00	0.00
12,750.9	90.00	179.60	12,468.0	-46.5	2.3	46.5	12.00	12.00	0.00
12,800.0	90.00	179.60	12,468.0	-95.5	2.6	95.5	0.00	0.00	0.00
12,900.0	90.00	179.60	12,468.0	-195.5	3.3	195.5	0.00	0.00	0.00
13,000.0	90.00	179.60	12,468.0	-295.5	4.0	295.5	0.00	0.00	0.00
13,100.0	90.00	179.60	12,468.0	-395.5	4.7	395.5	0.00	0.00	0.00
13,200.0	90.00	179.60	12,468.0	-495.5	5.4	495.5	0.00	0.00	0.00
13,300.0	90.00	179.60	12,468.0	-595.5	6.1	595.5	0.00	0.00	0.00
13,400.0	90.00	179.60	12,468.0	-695.5	6.8	695.5	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Caravan 28 State Com
Well: #705H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25 @ 3557.0usft
MD Reference: KB = 25 @ 3557.0usft
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)
13,500.0	90.00	179.60	12,468.0	-795.5	7.5	795.5	0.00	0.00	0.00
13,600.0	90.00	179.60	12,468.0	-895.5	8.2	895.5	0.00	0.00	0.00
13,700.0	90.00	179.60	12,468.0	-995.5	8.9	995.5	0.00	0.00	0.00
13,800.0	90.00	179.60	12,468.0	-1,095.5	9.6	1,095.5	0.00	0.00	0.00
13,900.0	90.00	179.60	12,468.0	-1,195.5	10.3	1,195.5	0.00	0.00	0.00
14,000.0	90.00	179.60	12,468.0	-1,295.5	10.9	1,295.5	0.00	0.00	0.00
14,100.0	90.00	179.60	12,468.0	-1,395.5	11.6	1,395.5	0.00	0.00	0.00
14,200.0	90.00	179.60	12,468.0	-1,495.5	12.3	1,495.5	0.00	0.00	0.00
14,300.0	90.00	179.60	12,468.0	-1,595.5	13.0	1,595.5	0.00	0.00	0.00
14,400.0	90.00	179.60	12,468.0	-1,695.5	13.7	1,695.5	0.00	0.00	0.00
14,500.0	90.00	179.60	12,468.0	-1,795.5	14.4	1,795.5	0.00	0.00	0.00
14,600.0	90.00	179.60	12,468.0	-1,895.5	15.1	1,895.5	0.00	0.00	0.00
14,700.0	90.00	179.60	12,468.0	-1,995.5	15.8	1,995.5	0.00	0.00	0.00
14,800.0	90.00	179.60	12,468.0	-2,095.5	16.5	2,095.5	0.00	0.00	0.00
14,900.0	90.00	179.60	12,468.0	-2,195.5	17.2	2,195.5	0.00	0.00	0.00
15,000.0	90.00	179.60	12,468.0	-2,295.5	17.9	2,295.5	0.00	0.00	0.00
15,100.0	90.00	179.60	12,468.0	-2,395.5	18.6	2,395.5	0.00	0.00	0.00
15,200.0	90.00	179.60	12,468.0	-2,495.5	19.2	2,495.5	0.00	0.00	0.00
15,300.0	90.00	179.60	12,468.0	-2,595.5	19.9	2,595.5	0.00	0.00	0.00
15,400.0	90.00	179.60	12,468.0	-2,695.5	20.6	2,695.5	0.00	0.00	0.00
15,500.0	90.00	179.60	12,468.0	-2,795.5	21.3	2,795.5	0.00	0.00	0.00
15,600.0	90.00	179.60	12,468.0	-2,895.5	22.0	2,895.5	0.00	0.00	0.00
15,700.0	90.00	179.60	12,468.0	-2,995.5	22.7	2,995.5	0.00	0.00	0.00
15,800.0	90.00	179.60	12,468.0	-3,095.4	23.4	3,095.5	0.00	0.00	0.00
15,900.0	90.00	179.60	12,468.0	-3,195.4	24.1	3,195.5	0.00	0.00	0.00
16,000.0	90.00	179.60	12,468.0	-3,295.4	24.8	3,295.5	0.00	0.00	0.00
16,100.0	90.00	179.60	12,468.0	-3,395.4	25.5	3,395.5	0.00	0.00	0.00
16,200.0	90.00	179.60	12,468.0	-3,495.4	26.2	3,495.5	0.00	0.00	0.00
16,300.0	90.00	179.60	12,468.0	-3,595.4	26.9	3,595.5	0.00	0.00	0.00
16,400.0	90.00	179.60	12,468.0	-3,695.4	27.5	3,695.5	0.00	0.00	0.00
16,500.0	90.00	179.60	12,468.0	-3,795.4	28.2	3,795.5	0.00	0.00	0.00
16,600.0	90.00	179.60	12,468.0	-3,895.4	28.9	3,895.5	0.00	0.00	0.00
16,700.0	90.00	179.60	12,468.0	-3,995.4	29.6	3,995.5	0.00	0.00	0.00
16,800.0	90.00	179.60	12,468.0	-4,095.4	30.3	4,095.5	0.00	0.00	0.00
16,900.0	90.00	179.60	12,468.0	-4,195.4	31.0	4,195.5	0.00	0.00	0.00
17,000.0	90.00	179.60	12,468.0	-4,295.4	31.7	4,295.5	0.00	0.00	0.00
17,100.0	90.00	179.60	12,468.0	-4,395.4	32.4	4,395.5	0.00	0.00	0.00
17,200.0	90.00	179.60	12,468.0	-4,495.4	33.1	4,495.5	0.00	0.00	0.00
17,300.0	90.00	179.60	12,468.0	-4,595.4	33.8	4,595.5	0.00	0.00	0.00
17,400.0	90.00	179.60	12,468.0	-4,695.4	34.5	4,695.5	0.00	0.00	0.00
17,500.0	90.00	179.60	12,468.0	-4,795.4	35.2	4,795.5	0.00	0.00	0.00
17,600.0	90.00	179.60	12,468.0	-4,895.4	35.8	4,895.5	0.00	0.00	0.00
17,700.0	90.00	179.60	12,468.0	-4,995.4	36.5	4,995.5	0.00	0.00	0.00
17,800.0	90.00	179.60	12,468.0	-5,095.4	37.2	5,095.5	0.00	0.00	0.00
17,900.0	90.00	179.60	12,468.0	-5,195.4	37.9	5,195.5	0.00	0.00	0.00
18,000.0	90.00	179.60	12,468.0	-5,295.4	38.6	5,295.5	0.00	0.00	0.00
18,100.0	90.00	179.60	12,468.0	-5,395.4	39.3	5,395.5	0.00	0.00	0.00
18,200.0	90.00	179.60	12,468.0	-5,495.4	40.0	5,495.5	0.00	0.00	0.00
18,300.0	90.00	179.60	12,468.0	-5,595.4	40.7	5,595.5	0.00	0.00	0.00
18,400.0	90.00	179.60	12,468.0	-5,695.4	41.4	5,695.5	0.00	0.00	0.00
18,500.0	90.00	179.60	12,468.0	-5,795.4	42.1	5,795.5	0.00	0.00	0.00
18,600.0	90.00	179.60	12,468.0	-5,895.4	42.8	5,895.5	0.00	0.00	0.00
18,700.0	90.00	179.60	12,468.0	-5,995.4	43.5	5,995.5	0.00	0.00	0.00
18,800.0	90.00	179.60	12,468.0	-6,095.4	44.1	6,095.5	0.00	0.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Caravan 28 State Com
 Well: #705H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 25 @ 3557.0usft
 MD Reference: KB = 25 @ 3557.0usft
 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)
18,900.0	90.00	179.60	12,468.0	-6,195.4	44.8	6,195.5	0.00	0.00	0.00
19,000.0	90.00	179.60	12,468.0	-6,295.4	45.5	6,295.5	0.00	0.00	0.00
19,100.0	90.00	179.60	12,468.0	-6,395.4	46.2	6,395.5	0.00	0.00	0.00
19,200.0	90.00	179.60	12,468.0	-6,495.4	46.9	6,495.5	0.00	0.00	0.00
19,300.0	90.00	179.60	12,468.0	-6,595.4	47.6	6,595.5	0.00	0.00	0.00
19,400.0	90.00	179.60	12,468.0	-6,695.4	48.3	6,695.5	0.00	0.00	0.00
19,500.0	90.00	179.60	12,468.0	-6,795.4	49.0	6,795.5	0.00	0.00	0.00
19,600.0	90.00	179.60	12,468.0	-6,895.4	49.7	6,895.5	0.00	0.00	0.00
19,700.0	90.00	179.60	12,468.0	-6,995.4	50.4	6,995.5	0.00	0.00	0.00
19,800.0	90.00	179.60	12,468.0	-7,095.4	51.1	7,095.5	0.00	0.00	0.00
19,900.0	90.00	179.60	12,468.0	-7,195.3	51.8	7,195.5	0.00	0.00	0.00
20,000.0	90.00	179.60	12,468.0	-7,295.3	52.4	7,295.5	0.00	0.00	0.00
20,100.0	90.00	179.60	12,468.0	-7,395.3	53.1	7,395.5	0.00	0.00	0.00
20,200.0	90.00	179.60	12,468.0	-7,495.3	53.8	7,495.5	0.00	0.00	0.00
20,300.0	90.00	179.60	12,468.0	-7,595.3	54.5	7,595.5	0.00	0.00	0.00
20,400.0	90.00	179.60	12,468.0	-7,695.3	55.2	7,695.5	0.00	0.00	0.00
20,500.0	90.00	179.60	12,468.0	-7,795.3	55.9	7,795.5	0.00	0.00	0.00
20,600.0	90.00	179.60	12,468.0	-7,895.3	56.6	7,895.5	0.00	0.00	0.00
20,700.0	90.00	179.60	12,468.0	-7,995.3	57.3	7,995.5	0.00	0.00	0.00
20,800.0	90.00	179.60	12,468.0	-8,095.3	58.0	8,095.5	0.00	0.00	0.00
20,900.0	90.00	179.60	12,468.0	-8,195.3	58.7	8,195.5	0.00	0.00	0.00
21,000.0	90.00	179.60	12,468.0	-8,295.3	59.4	8,295.5	0.00	0.00	0.00
21,100.0	90.00	179.60	12,468.0	-8,395.3	60.1	8,395.5	0.00	0.00	0.00
21,200.0	90.00	179.60	12,468.0	-8,495.3	60.8	8,495.5	0.00	0.00	0.00
21,300.0	90.00	179.60	12,468.0	-8,595.3	61.4	8,595.5	0.00	0.00	0.00
21,400.0	90.00	179.60	12,468.0	-8,695.3	62.1	8,695.5	0.00	0.00	0.00
21,500.0	90.00	179.60	12,468.0	-8,795.3	62.8	8,795.5	0.00	0.00	0.00
21,600.0	90.00	179.60	12,468.0	-8,895.3	63.5	8,895.5	0.00	0.00	0.00
21,700.0	90.00	179.60	12,468.0	-8,995.3	64.2	8,995.5	0.00	0.00	0.00
21,800.0	90.00	179.60	12,468.0	-9,095.3	64.9	9,095.5	0.00	0.00	0.00
21,900.0	90.00	179.60	12,468.0	-9,195.3	65.6	9,195.5	0.00	0.00	0.00
22,000.0	90.00	179.60	12,468.0	-9,295.3	66.3	9,295.5	0.00	0.00	0.00
22,100.0	90.00	179.60	12,468.0	-9,395.3	67.0	9,395.5	0.00	0.00	0.00
22,200.0	90.00	179.60	12,468.0	-9,495.3	67.7	9,495.5	0.00	0.00	0.00
22,300.0	90.00	179.60	12,468.0	-9,595.3	68.4	9,595.5	0.00	0.00	0.00
22,400.0	90.00	179.60	12,468.0	-9,695.3	69.1	9,695.5	0.00	0.00	0.00
22,500.0	90.00	179.60	12,468.0	-9,795.3	69.7	9,795.5	0.00	0.00	0.00
22,600.0	90.00	179.60	12,468.0	-9,895.3	70.4	9,895.5	0.00	0.00	0.00
22,681.7	90.00	179.60	12,468.0	-9,977.0	71.0	9,977.3	0.00	0.00	0.00

PBHL (Caravan 28 State Com #705H)

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #705H
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:	#705H	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	431.0	-1.0	435,755.00	772,911.00	32° 11' 44.707 N	103° 35' 4.948 W
PBHL (Caravan 28 State - plan hits target center - Point	0.00	0.00	12,468.0	-9,977.0	71.0	425,347.00	772,983.00	32° 10' 1.711 N	103° 35' 4.953 W
FTP (Caravan 28 State - plan misses target center by 163.4usft at 12400.0usft MD (12344.7 TVD, 273.7 N, 0.1 E) - Point	0.00	0.00	12,468.0	381.0	-1.0	435,705.00	772,911.00	32° 11' 44.212 N	103° 35' 4.952 W