



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State Com

#712Y

OH

Plan: Plan #1

Standard Planning Report

19 June, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Site:	Condor 32 State Com	North Reference:	Grid
Well:	#712Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	Condor 32 State Com				
Site Position:		Northing:	394,016.00 usft	Latitude:	32° 4' 49.618 N
From:	Map	Easting:	801,320.00 usft	Longitude:	103° 29' 38.138 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	#712Y					
Well Position	+N/-S	71.0 usft	Northing:	394,087.00 usft	Latitude:	32° 4' 50.275 N
	+E/-W	569.0 usft	Easting:	801,889.00 usft	Longitude:	103° 29' 31.519 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,340.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/19/2018	6.80	59.93	47,758.56590974

Design	Plan #1			
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	357.08

Plan Survey Tool Program	Date	6/19/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,149.0 Plan #1 (OH)	MWD	
			OWSG MWD - Standard	



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 Well: #712Y
 Wellbore: OH
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Local Co-ordinate Reference: Well #712Y
 TVD Reference: KB = 25' @ 3365.0usft (H&P 653)
 MD Reference: KB = 25' @ 3365.0usft (H&P 653)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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		
5,050.0	0.00	0.00	5,050.0	0.0	0.0	0.00	0.00	0.00	0.00		
5,348.8	5.98	190.49	5,348.3	-15.3	-2.8	2.00	2.00	0.00	190.49		
7,687.0	5.98	190.49	7,673.7	-254.7	-47.2	0.00	0.00	0.00	0.00		
7,985.8	0.00	0.00	7,972.0	-270.0	-50.0	2.00	-2.00	0.00	180.00		
12,136.8	0.00	0.00	12,123.0	-270.0	-50.0	0.00	0.00	0.00	0.00		
12,513.1	45.08	310.29	12,461.6	-179.1	-157.2	11.98	11.98	0.00	310.29		
13,035.5	90.17	359.53	12,666.1	244.8	-316.6	11.98	8.63	9.42	58.56		
14,743.5	90.17	359.53	12,661.0	1,952.7	-330.7	0.00	0.00	0.00	0.00	TGT #1(Condor 32 SC	
14,752.2	90.34	359.53	12,661.0	1,961.4	-330.7	2.00	2.00	0.00	0.00		
16,745.4	90.34	359.53	12,649.0	3,954.5	-347.1	0.00	0.00	0.00	0.00	TGT #2(Condor 32 SC	
16,756.9	90.57	359.53	12,648.9	3,966.0	-347.2	2.00	2.00	0.00	0.00		
18,747.3	90.57	359.53	12,629.0	5,956.2	-363.5	0.00	0.00	0.00	0.00	TGT #3(Condor 32 SC	
18,753.5	90.45	359.53	12,628.9	5,962.4	-363.6	2.00	-2.00	0.00	180.00		
20,149.2	90.45	359.53	12,618.0	7,358.0	-375.0	0.00	0.00	0.00	0.00	PBHL (Condor 32 SC	



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 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #712Y
 TVD Reference: KB = 25' @ 3365.0usft (H&P 653)
 MD Reference: KB = 25' @ 3365.0usft (H&P 653)
 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)	
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	
855.0	0.00	0.00	855.0	0.0	0.0	0.0	0.00	0.00	0.00	
Rustler										
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	
1,623.0	0.00	0.00	1,623.0	0.0	0.0	0.0	0.00	0.00	0.00	
Top of Salt										
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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	



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Wellbore:	OH		
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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)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,050.0	0.00	0.00	5,050.0	0.0	0.0	0.0	0.00	0.00	0.00
5,054.0	0.08	190.49	5,054.0	0.0	0.0	0.0	2.00	2.00	0.00
Bottom of Salt									
5,100.0	1.00	190.49	5,100.0	-0.4	-0.1	-0.4	2.00	2.00	0.00
5,200.0	3.00	190.49	5,199.9	-3.9	-0.7	-3.8	2.00	2.00	0.00
5,296.3	4.93	190.49	5,296.0	-10.4	-1.9	-10.3	2.00	2.00	0.00
Lamar									
5,300.0	5.00	190.49	5,299.7	-10.7	-2.0	-10.6	2.00	2.00	0.00
5,320.4	5.41	190.49	5,320.0	-12.5	-2.3	-12.4	2.00	2.00	0.00
Bell Canyon									
5,348.8	5.98	190.49	5,348.3	-15.3	-2.8	-15.1	2.00	2.00	0.00
5,400.0	5.98	190.49	5,399.2	-20.6	-3.8	-20.3	0.00	0.00	0.00
5,500.0	5.98	190.49	5,498.6	-30.8	-5.7	-30.5	0.00	0.00	0.00
5,600.0	5.98	190.49	5,598.1	-41.0	-7.6	-40.6	0.00	0.00	0.00
5,700.0	5.98	190.49	5,697.5	-51.3	-9.5	-50.7	0.00	0.00	0.00
5,800.0	5.98	190.49	5,797.0	-61.5	-11.4	-60.8	0.00	0.00	0.00
5,900.0	5.98	190.49	5,896.5	-71.7	-13.3	-71.0	0.00	0.00	0.00
6,000.0	5.98	190.49	5,995.9	-82.0	-15.2	-81.1	0.00	0.00	0.00
6,100.0	5.98	190.49	6,095.4	-92.2	-17.1	-91.2	0.00	0.00	0.00
6,200.0	5.98	190.49	6,194.8	-102.5	-19.0	-101.4	0.00	0.00	0.00
6,300.0	5.98	190.49	6,294.3	-112.7	-20.9	-111.5	0.00	0.00	0.00
6,400.0	5.98	190.49	6,393.7	-122.9	-22.8	-121.6	0.00	0.00	0.00
6,411.3	5.98	190.49	6,405.0	-124.1	-23.0	-122.8	0.00	0.00	0.00
Cherry Canyon									
6,500.0	5.98	190.49	6,493.2	-133.2	-24.7	-131.7	0.00	0.00	0.00
6,600.0	5.98	190.49	6,592.7	-143.4	-26.6	-141.9	0.00	0.00	0.00
6,700.0	5.98	190.49	6,692.1	-153.6	-28.5	-152.0	0.00	0.00	0.00
6,800.0	5.98	190.49	6,791.6	-163.9	-30.3	-162.1	0.00	0.00	0.00
6,900.0	5.98	190.49	6,891.0	-174.1	-32.2	-172.3	0.00	0.00	0.00
7,000.0	5.98	190.49	6,990.5	-184.4	-34.1	-182.4	0.00	0.00	0.00
7,100.0	5.98	190.49	7,089.9	-194.6	-36.0	-192.5	0.00	0.00	0.00
7,200.0	5.98	190.49	7,189.4	-204.8	-37.9	-202.6	0.00	0.00	0.00
7,300.0	5.98	190.49	7,288.9	-215.1	-39.8	-212.8	0.00	0.00	0.00
7,400.0	5.98	190.49	7,388.3	-225.3	-41.7	-222.9	0.00	0.00	0.00
7,500.0	5.98	190.49	7,487.8	-235.5	-43.6	-233.0	0.00	0.00	0.00
7,600.0	5.98	190.49	7,587.2	-245.8	-45.5	-243.2	0.00	0.00	0.00
7,687.0	5.98	190.49	7,673.7	-254.7	-47.2	-252.0	0.00	0.00	0.00
7,700.0	5.72	190.49	7,686.7	-256.0	-47.4	-253.2	2.00	-2.00	0.00
7,800.0	3.72	190.49	7,786.3	-264.1	-48.9	-261.2	2.00	-2.00	0.00
7,900.0	1.72	190.49	7,886.2	-268.7	-49.8	-265.9	2.00	-2.00	0.00
7,985.8	0.00	0.00	7,972.0	-270.0	-50.0	-267.1	2.00	-2.00	0.00
Brushy Canyon									
8,000.0	0.00	0.00	7,986.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,086.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,186.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,286.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,386.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,500.0	0.00	0.00	8,486.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,600.0	0.00	0.00	8,586.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,700.0	0.00	0.00	8,686.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,800.0	0.00	0.00	8,786.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
8,900.0	0.00	0.00	8,886.2	-270.0	-50.0	-267.1	0.00	0.00	0.00



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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)
9,000.0	0.00	0.00	8,986.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,100.0	0.00	0.00	9,086.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,200.0	0.00	0.00	9,186.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,300.0	0.00	0.00	9,286.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,400.0	0.00	0.00	9,386.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,467.8	0.00	0.00	9,454.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
Bone Spring Lime									
9,497.8	0.00	0.00	9,484.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
Leonard A									
9,500.0	0.00	0.00	9,486.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,600.0	0.00	0.00	9,586.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,700.0	0.00	0.00	9,686.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,792.8	0.00	0.00	9,779.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
Leonard B									
9,800.0	0.00	0.00	9,786.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
9,900.0	0.00	0.00	9,886.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,000.0	0.00	0.00	9,986.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,100.0	0.00	0.00	10,086.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,200.0	0.00	0.00	10,186.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,300.0	0.00	0.00	10,286.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,400.0	0.00	0.00	10,386.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,452.8	0.00	0.00	10,439.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
First Bone Spring Sand									
10,500.0	0.00	0.00	10,486.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,600.0	0.00	0.00	10,586.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,691.8	0.00	0.00	10,678.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
SBSG Shale									
10,700.0	0.00	0.00	10,686.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,800.0	0.00	0.00	10,786.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
10,900.0	0.00	0.00	10,886.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,000.0	0.00	0.00	10,986.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,021.8	0.00	0.00	11,008.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
SBSG Sand									
11,100.0	0.00	0.00	11,086.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,200.0	0.00	0.00	11,186.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,300.0	0.00	0.00	11,286.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,400.0	0.00	0.00	11,386.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,483.8	0.00	0.00	11,470.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
Third Bone Spring Carb									
11,500.0	0.00	0.00	11,486.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,600.0	0.00	0.00	11,586.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,700.0	0.00	0.00	11,686.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,800.0	0.00	0.00	11,786.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
11,900.0	0.00	0.00	11,886.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
12,000.0	0.00	0.00	11,986.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
12,096.8	0.00	0.00	12,083.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
Third Bone Spring Sand									
12,100.0	0.00	0.00	12,086.2	-270.0	-50.0	-267.1	0.00	0.00	0.00
12,136.8	0.00	0.00	12,123.0	-270.0	-50.0	-267.1	0.00	0.00	0.00
12,150.0	1.58	310.29	12,136.2	-269.9	-50.1	-267.0	11.98	11.98	0.00
12,175.0	4.58	310.29	12,161.2	-269.0	-51.2	-266.1	11.98	11.98	0.00
12,200.0	7.57	310.29	12,186.0	-267.3	-53.2	-264.2	11.98	11.98	0.00
12,225.0	10.57	310.29	12,210.7	-264.8	-56.2	-261.6	11.98	11.98	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Condor 32 State Com
 Well: #712Y
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #712Y
 TVD Reference: KB = 25' @ 3365.0usft (H&P 653)
 MD Reference: KB = 25' @ 3365.0usft (H&P 653)
 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)	
12,250.0	13.56	310.29	12,235.2	-261.4	-60.2	-258.0	11.98	11.98	0.00	
12,275.0	16.56	310.29	12,259.3	-257.2	-65.1	-253.5	11.98	11.98	0.00	
12,300.0	19.55	310.29	12,283.1	-252.2	-71.0	-248.2	11.98	11.98	0.00	
12,325.0	22.55	310.29	12,306.4	-246.4	-77.9	-242.1	11.98	11.98	0.00	
12,350.0	25.54	310.29	12,329.2	-239.8	-85.7	-235.1	11.98	11.98	0.00	
12,375.0	28.54	310.29	12,351.5	-232.4	-94.3	-227.3	11.98	11.98	0.00	
12,400.0	31.54	310.29	12,373.1	-224.3	-103.9	-218.8	11.98	11.98	0.00	
12,425.0	34.53	310.29	12,394.1	-215.5	-114.3	-209.4	11.98	11.98	0.00	
12,450.0	37.53	310.29	12,414.3	-206.0	-125.5	-199.4	11.98	11.98	0.00	
12,475.0	40.52	310.29	12,433.7	-195.8	-137.5	-188.6	11.98	11.98	0.00	
12,500.0	43.52	310.29	12,452.3	-185.0	-150.2	-177.1	11.98	11.98	0.00	
12,513.1	45.08	310.29	12,461.6	-179.1	-157.2	-170.9	11.98	11.98	0.00	
12,525.0	45.84	311.99	12,470.0	-173.5	-163.6	-165.0	11.98	6.36	14.25	
12,550.0	47.51	315.41	12,487.2	-160.9	-176.8	-151.7	11.98	6.67	13.69	
12,575.0	49.27	318.65	12,503.8	-147.3	-189.5	-137.4	11.98	7.05	12.96	
12,600.0	51.12	321.72	12,519.8	-132.5	-201.8	-122.1	11.98	7.40	12.27	
12,613.3	52.13	323.28	12,528.0	-124.3	-208.1	-113.5	11.98	7.63	11.78	
Wolfcamp										
12,625.0	53.05	324.62	12,535.1	-116.7	-213.6	-105.7	11.98	7.78	11.47	
12,650.0	55.04	327.39	12,549.8	-100.0	-224.9	-88.4	11.98	7.97	11.05	
12,657.4	55.64	328.18	12,554.0	-94.8	-228.1	-83.1	11.98	8.13	10.70	
Wfmp Clastics X										
12,675.0	57.09	330.02	12,563.8	-82.2	-235.7	-70.1	11.98	8.24	10.44	
12,700.0	59.20	332.53	12,577.0	-63.6	-245.9	-51.0	11.98	8.42	10.04	
12,725.0	61.35	334.93	12,589.4	-44.1	-255.5	-31.1	11.98	8.60	9.60	
12,750.0	63.54	337.23	12,600.9	-23.9	-264.4	-10.4	11.98	8.77	9.21	
12,775.0	65.77	339.45	12,611.6	-2.9	-272.8	11.0	11.98	8.91	8.87	
12,800.0	68.03	341.59	12,621.4	18.8	-280.4	33.0	11.98	9.03	8.56	
12,825.0	70.31	343.66	12,630.3	41.1	-287.4	55.7	11.98	9.14	8.29	
12,850.0	72.62	345.67	12,638.3	63.9	-293.7	78.8	11.98	9.23	8.05	
12,875.0	74.95	347.64	12,645.3	87.3	-299.2	102.4	11.98	9.31	7.85	
12,890.1	76.36	348.80	12,649.0	101.6	-302.2	116.9	11.98	9.37	7.71	
Wfmp Clastics Y										
12,894.4	76.76	349.13	12,650.0	105.7	-303.0	121.0	11.98	9.39	7.65	
Wolfcamp Y TOW										
12,900.0	77.29	349.56	12,651.3	111.1	-304.0	126.4	11.98	9.40	7.62	
12,925.0	79.65	351.44	12,656.3	135.2	-308.1	150.7	11.98	9.43	7.54	
12,950.0	82.02	353.30	12,660.2	159.7	-311.3	175.3	11.98	9.48	7.43	
12,975.0	84.39	355.13	12,663.2	184.4	-313.8	200.1	11.98	9.51	7.34	
13,000.0	86.78	356.95	12,665.1	209.3	-315.6	225.0	11.98	9.53	7.28	
13,025.0	89.16	358.77	12,666.0	234.2	-316.5	250.0	11.98	9.54	7.25	
13,035.5	90.17	359.53	12,666.1	244.8	-316.6	260.6	11.98	9.55	7.24	
13,100.0	90.17	359.53	12,665.9	309.2	-317.2	325.0	0.00	0.00	0.00	
13,200.0	90.17	359.53	12,665.6	409.2	-318.0	424.9	0.00	0.00	0.00	
13,300.0	90.17	359.53	12,665.3	509.2	-318.8	524.8	0.00	0.00	0.00	
13,400.0	90.17	359.53	12,665.0	609.2	-319.6	624.7	0.00	0.00	0.00	
13,500.0	90.17	359.53	12,664.7	709.2	-320.5	724.6	0.00	0.00	0.00	
13,600.0	90.17	359.53	12,664.4	809.2	-321.3	824.5	0.00	0.00	0.00	
13,700.0	90.17	359.53	12,664.1	909.2	-322.1	924.4	0.00	0.00	0.00	
13,800.0	90.17	359.53	12,663.8	1,009.2	-322.9	1,024.3	0.00	0.00	0.00	
13,900.0	90.17	359.53	12,663.5	1,109.2	-323.7	1,124.2	0.00	0.00	0.00	
14,000.0	90.17	359.53	12,663.2	1,209.2	-324.6	1,224.1	0.00	0.00	0.00	
14,100.0	90.17	359.53	12,662.9	1,309.2	-325.4	1,324.0	0.00	0.00	0.00	
14,200.0	90.17	359.53	12,662.6	1,409.2	-326.2	1,424.0	0.00	0.00	0.00	



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
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 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #712Y
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 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)
14,300.0	90.17	359.53	12,662.3	1,509.2	-327.0	1,523.9	0.00	0.00	0.00
14,400.0	90.17	359.53	12,662.0	1,609.2	-327.8	1,623.8	0.00	0.00	0.00
14,500.0	90.17	359.53	12,661.7	1,709.2	-328.7	1,723.7	0.00	0.00	0.00
14,600.0	90.17	359.53	12,661.4	1,809.2	-329.5	1,823.6	0.00	0.00	0.00
14,700.0	90.17	359.53	12,661.1	1,909.2	-330.3	1,923.5	0.00	0.00	0.00
14,743.5	90.17	359.53	12,661.0	1,952.7	-330.7	1,967.0	0.00	0.00	0.00
14,752.2	90.34	359.53	12,661.0	1,961.4	-330.7	1,975.7	2.00	2.00	0.00
14,800.0	90.34	359.53	12,660.7	2,009.2	-331.1	2,023.4	0.00	0.00	0.00
14,900.0	90.34	359.53	12,660.1	2,109.1	-331.9	2,123.3	0.00	0.00	0.00
15,000.0	90.34	359.53	12,659.5	2,209.1	-332.8	2,223.2	0.00	0.00	0.00
15,100.0	90.34	359.53	12,658.9	2,309.1	-333.6	2,323.1	0.00	0.00	0.00
15,200.0	90.34	359.53	12,658.3	2,409.1	-334.4	2,423.0	0.00	0.00	0.00
15,300.0	90.34	359.53	12,657.7	2,509.1	-335.2	2,522.9	0.00	0.00	0.00
15,400.0	90.34	359.53	12,657.1	2,609.1	-336.0	2,622.8	0.00	0.00	0.00
15,500.0	90.34	359.53	12,656.5	2,709.1	-336.9	2,722.8	0.00	0.00	0.00
15,600.0	90.34	359.53	12,655.9	2,809.1	-337.7	2,822.7	0.00	0.00	0.00
15,700.0	90.34	359.53	12,655.3	2,909.1	-338.5	2,922.6	0.00	0.00	0.00
15,800.0	90.34	359.53	12,654.7	3,009.1	-339.3	3,022.5	0.00	0.00	0.00
15,900.0	90.34	359.53	12,654.1	3,109.1	-340.1	3,122.4	0.00	0.00	0.00
16,000.0	90.34	359.53	12,653.5	3,209.1	-341.0	3,222.3	0.00	0.00	0.00
16,100.0	90.34	359.53	12,652.9	3,309.1	-341.8	3,322.2	0.00	0.00	0.00
16,200.0	90.34	359.53	12,652.3	3,409.1	-342.6	3,422.1	0.00	0.00	0.00
16,300.0	90.34	359.53	12,651.7	3,509.1	-343.4	3,522.0	0.00	0.00	0.00
16,400.0	90.34	359.53	12,651.1	3,609.1	-344.2	3,621.9	0.00	0.00	0.00
16,500.0	90.34	359.53	12,650.5	3,709.1	-345.1	3,721.8	0.00	0.00	0.00
16,600.0	90.34	359.53	12,649.9	3,809.1	-345.9	3,821.7	0.00	0.00	0.00
16,700.0	90.34	359.53	12,649.3	3,909.1	-346.7	3,921.6	0.00	0.00	0.00
16,745.4	90.34	359.53	12,649.0	3,954.5	-347.1	3,967.0	0.00	0.00	0.00
16,756.9	90.57	359.53	12,648.9	3,966.0	-347.2	3,978.5	2.00	2.00	0.00
16,800.0	90.57	359.53	12,648.5	4,009.0	-347.5	4,021.5	0.00	0.00	0.00
16,900.0	90.57	359.53	12,647.5	4,109.0	-348.3	4,121.4	0.00	0.00	0.00
17,000.0	90.57	359.53	12,648.5	4,209.0	-349.2	4,221.3	0.00	0.00	0.00
17,100.0	90.57	359.53	12,645.5	4,309.0	-350.0	4,321.3	0.00	0.00	0.00
17,200.0	90.57	359.53	12,644.5	4,409.0	-350.8	4,421.2	0.00	0.00	0.00
17,300.0	90.57	359.53	12,643.5	4,509.0	-351.6	4,521.1	0.00	0.00	0.00
17,400.0	90.57	359.53	12,642.5	4,609.0	-352.4	4,621.0	0.00	0.00	0.00
17,500.0	90.57	359.53	12,641.5	4,709.0	-353.3	4,720.9	0.00	0.00	0.00
17,600.0	90.57	359.53	12,640.5	4,809.0	-354.1	4,820.8	0.00	0.00	0.00
17,700.0	90.57	359.53	12,639.5	4,909.0	-354.9	4,920.7	0.00	0.00	0.00
17,800.0	90.57	359.53	12,638.5	5,009.0	-355.7	5,020.6	0.00	0.00	0.00
17,900.0	90.57	359.53	12,637.5	5,109.0	-356.6	5,120.5	0.00	0.00	0.00
18,000.0	90.57	359.53	12,636.5	5,208.9	-357.4	5,220.4	0.00	0.00	0.00
18,100.0	90.57	359.53	12,635.5	5,308.9	-358.2	5,320.3	0.00	0.00	0.00
18,200.0	90.57	359.53	12,634.5	5,408.9	-359.0	5,420.2	0.00	0.00	0.00
18,300.0	90.57	359.53	12,633.5	5,508.9	-359.8	5,520.1	0.00	0.00	0.00
18,400.0	90.57	359.53	12,632.5	5,608.9	-360.7	5,620.0	0.00	0.00	0.00
18,500.0	90.57	359.53	12,631.5	5,708.9	-361.5	5,719.9	0.00	0.00	0.00
18,600.0	90.57	359.53	12,630.5	5,808.9	-362.3	5,819.8	0.00	0.00	0.00
18,700.0	90.57	359.53	12,629.5	5,908.9	-363.1	5,919.7	0.00	0.00	0.00
18,747.3	90.57	359.53	12,629.0	5,956.2	-363.5	5,967.0	0.00	0.00	0.00
18,753.5	90.45	359.53	12,628.9	5,962.4	-363.6	5,973.2	2.00	-2.00	0.00
18,800.0	90.45	359.53	12,628.6	6,008.9	-363.9	6,019.6	0.00	0.00	0.00
18,900.0	90.45	359.53	12,627.8	6,108.9	-364.8	6,119.5	0.00	0.00	0.00
19,000.0	90.45	359.53	12,627.0	6,208.9	-365.6	6,219.4	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Site:	Condor 32 State Com	North Reference:	Grid
Well:	#712Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
19,100.0	90.45	359.53	12,626.2	6,308.9	-366.4	6,319.3	0.00	0.00	0.00
19,200.0	90.45	359.53	12,625.4	6,408.9	-367.2	6,419.2	0.00	0.00	0.00
19,300.0	90.45	359.53	12,624.7	6,508.8	-368.0	6,519.1	0.00	0.00	0.00
19,400.0	90.45	359.53	12,623.9	6,608.8	-368.9	6,619.1	0.00	0.00	0.00
19,500.0	90.45	359.53	12,623.1	6,708.8	-369.7	6,719.0	0.00	0.00	0.00
19,600.0	90.45	359.53	12,622.3	6,808.8	-370.5	6,818.9	0.00	0.00	0.00
19,700.0	90.45	359.53	12,621.5	6,908.8	-371.3	6,918.8	0.00	0.00	0.00
19,800.0	90.45	359.53	12,620.7	7,008.8	-372.1	7,018.7	0.00	0.00	0.00
19,900.0	90.45	359.53	12,620.0	7,108.8	-373.0	7,118.6	0.00	0.00	0.00
20,000.0	90.45	359.53	12,619.2	7,208.8	-373.8	7,218.5	0.00	0.00	0.00
20,100.0	90.45	359.53	12,618.4	7,308.8	-374.6	7,318.4	0.00	0.00	0.00
20,149.2	90.45	359.53	12,618.0	7,358.0	-375.0	7,367.5	0.00	0.00	0.00

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Brushy Top (Condor SC - hit/miss target - Shape - Polygon	0.00	0.01	7,972.0	-270.0	-50.0	393,817.00	801,839.00	32° 4' 47.607 N	103° 29' 32.124 W
Point 1			7,972.0	50.0	-30.0	393,867.00	801,809.00		
Point 2			7,972.0	50.0	30.0	393,867.00	801,869.00		
Point 3			7,972.0	-30.0	30.0	393,787.00	801,869.00		
Point 4			7,972.0	-30.0	-30.0	393,787.00	801,809.00		
PBHL (Condor 32 SC #7 - plan hits target center - Rectangle (sides W50.0 H0.0 D7,356.0)	90.00	359.53	12,618.0	7,358.0	-375.0	401,445.00	801,514.00	32° 6' 3.113 N	103° 29' 35.211 W
TGT #3(Condor 32 SC # - plan hits target center - Point	0.00	0.01	12,629.0	5,956.2	-363.5	400,043.20	801,525.50	32° 5' 49.241 N	103° 29' 35.204 W
TGT #2(Condor 32 SC # - plan hits target center - Point	0.00	0.00	12,649.0	3,954.5	-347.1	398,041.50	801,541.92	32° 5' 29.433 N	103° 29' 35.194 W
TGT #1(Condor 32 SC # - plan hits target center - Point	0.00	0.00	12,661.0	1,952.7	-330.7	396,039.70	801,558.34	32° 5' 9.623 N	103° 29' 35.185 W
FTP (Condor 32 SC #71 - plan misses target center by 57.9usft at 12810.6usft MD (12625.3 TVD, 28.2 N, -283.5 E) - Point	0.00	0.00	12,667.0	2.0	-314.0	394,089.00	801,575.00	32° 4' 50.319 N	103° 28' 35.168 W



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #712Y
Company:	EOG Resources - Midland	TVD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25' @ 3365.0usft (H&P 653)
Site:	Condor 32 State Com	North Reference:	Grid
Well:	#712Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
855.0	855.0	Rustler				
1,623.0	1,623.0	Top of Salt				
5,054.0	5,054.0	Bottom of Salt				
5,296.3	5,296.0	Lamar				
5,320.4	5,320.0	Bell Canyon				
6,411.3	6,405.0	Cherry Canyon				
7,985.8	7,972.0	Brushy Canyon				
9,467.8	9,454.0	Bone Spring Lime				
9,497.8	9,484.0	Leonard A				
9,792.8	9,779.0	Leonard B				
10,452.8	10,439.0	First Bone Spring Sand				
10,691.8	10,678.0	SBSG Shale				
11,021.8	11,008.0	SBSG Sand				
11,483.8	11,470.0	Third Bone Spring Carb				
12,086.8	12,083.0	Third Bone Spring Sand				
12,613.3	12,528.0	Wolfcamp				
12,657.4	12,554.0	Wfmp Clastics X				
12,890.1	12,649.0	Wfmp Clastics Y				
12,894.4	12,650.0	Wolfcamp Y TOW				

HOBBS OCD
 JUN 18 2018
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Lea County, NM (NAD 83 NME)

Condor 32 State Com #712Y

H&P 653

Plan #1

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

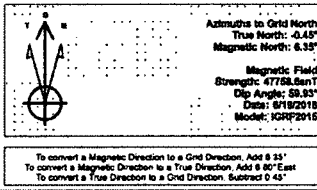
Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

WELL DETAILS: #712Y

KB = 25' @ 3385.00ft (H&P 653) 3340.0
 Northing 334087.00 Easting 801889.00 Latitude 32° 4' 53.278" N Longitude 103° 23' 51.519" W

SECTION DETAILS

Sec	MD	Inc	Adj	TYD	HH-S	+E/-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6050.0	0.00	0.00	6050.0	0.0	0.0	0.00	0.00	0.0	
3	5348.8	5.98	190.49	5348.3	-15.3	-2.8	2.00	190.49	-15.1	
4	7687.0	5.98	190.49	7673.7	-254.7	-47.2	0.00	0.00	-252.0	
5	7985.8	0.00	0.00	7972.0	-270.0	-50.0	2.00	180.00	-267.1	
6	12138.8	0.00	0.00	12123.0	-270.0	-50.0	0.00	0.00	-267.1	
7	12513.1	45.09	310.29	12461.0	-178.1	-157.2	11.98	310.29	-170.9	
8	15035.5	90.17	359.53	12648.1	244.8	-316.6	11.98	58.56	260.0	
9	14743.0	90.17	359.53	12651.0	1952.7	-330.7	0.00	0.00	1987.0	TGT #1(Condor 32 SC #712Y)
10	14752.2	90.34	359.53	12661.0	1961.4	-330.7	2.00	0.00	1975.7	
11	18746.4	90.34	359.53	12649.0	3954.5	-347.1	0.00	0.00	3967.0	TGT #2(Condor 32 SC #712Y)
12	18756.9	90.57	359.53	12648.9	3968.0	-347.2	2.00	0.00	3978.5	
13	18747.3	90.57	359.53	12629.0	5956.2	-363.5	0.00	0.00	5967.0	TGT #3(Condor 32 SC #712Y)
14	18753.5	90.45	359.53	12628.9	5962.4	-363.6	2.00	180.00	5973.2	
15	20149.2	90.45	359.53	12618.0	7358.0	-375.0	0.00	0.00	7367.5	PGHL (Condor 32 SC #712Y)



CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TYD	HH-S	+E/-W	Northing	Easting
Bruely Top (Condor SC #712Y)	7872.0	-270.0	-50.0	335817.00	801839.00
PGHL (Condor 32 SC #712Y)	12618.0	7358.0	-375.0	401446.00	801914.00
TGT #2(Condor 32 SC #712Y)	12628.0	5956.2	-363.5	400943.30	801925.80
TGT #1(Condor 32 SC #712Y)	12648.0	3954.5	-347.1	399041.00	801941.82
TGT #3(Condor 32 SC #712Y)	12649.0	1952.7	-330.7	398629.70	801938.34
FTF (Condor 32 SC #712Y)	12667.0	2.0	-314.9	398629.00	801978.00

