

30-025-45254



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Berry 8 State Com

#202H

OH

Plan: Plan #0.1

Standard Planning Report

11 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3735.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3735.0usft
Site:	Berry 8 State Com	North Reference:	Grid
Well:	#202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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:	Berry 8 State Com		
Site Position:		Northing:	544,775.00 usft
From:	Map	Easting:	802,550.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 29' 41.264 N
		Longitude:	103° 29' 10.002 W
		Grid Convergence:	0.46 °

Well:	#202H		
Well Position	+N/-S	7.0 usft	Northing:
	+E/-W	-32.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:
			3,710.0 usft

Wellbore:	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/10/2018	6.79	60.31	47,969.90776455

Design:	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			357.42

Plan Survey Tool Program	Date 10/10/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	19,723.8 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard

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	
3,298.4	5.97	217.06	3,297.9	-12.4	-9.4	2.00	2.00	0.00	217.06	
8,712.0	5.97	217.06	8,682.1	-461.6	-348.6	0.00	0.00	0.00	0.00	
9,010.4	0.00	0.00	8,980.0	-474.0	-358.0	2.00	-2.00	0.00	180.00	KOP(Berry 8 SC #202)
9,910.4	90.00	359.51	9,553.0	98.9	-362.9	10.00	10.00	-0.05	359.51	
19,723.8	90.00	359.51	9,553.0	9,912.0	-446.0	0.00	0.00	0.00	0.00	PBHL(Berry 8 SC #202)



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Site:	Berry 8 State Com	North Reference:	Grid
Well:	#202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	217.06	3,100.0	-1.4	-1.1	-1.3	2.00	2.00	0.00
3,200.0	4.00	217.06	3,199.8	-5.6	-4.2	-5.4	2.00	2.00	0.00
3,298.4	5.97	217.06	3,297.9	-12.4	-9.4	-12.0	2.00	2.00	0.00
3,300.0	5.97	217.06	3,299.5	-12.5	-9.5	-12.1	0.00	0.00	0.00
3,400.0	5.97	217.06	3,398.9	-20.8	-15.7	-20.1	0.00	0.00	0.00
3,500.0	5.97	217.06	3,498.4	-29.1	-22.0	-28.1	0.00	0.00	0.00
3,600.0	5.97	217.06	3,597.8	-37.4	-28.3	-36.1	0.00	0.00	0.00
3,700.0	5.97	217.06	3,697.3	-45.7	-34.5	-44.1	0.00	0.00	0.00
3,800.0	5.97	217.06	3,796.7	-54.0	-40.8	-52.1	0.00	0.00	0.00
3,900.0	5.97	217.06	3,896.2	-62.3	-47.1	-60.1	0.00	0.00	0.00
4,000.0	5.97	217.06	3,995.7	-70.6	-53.3	-68.1	0.00	0.00	0.00
4,100.0	5.97	217.06	4,095.1	-78.9	-59.6	-76.1	0.00	0.00	0.00
4,200.0	5.97	217.06	4,194.6	-87.2	-65.9	-84.2	0.00	0.00	0.00
4,300.0	5.97	217.06	4,294.0	-95.5	-72.1	-92.2	0.00	0.00	0.00
4,400.0	5.97	217.06	4,393.5	-103.8	-78.4	-100.2	0.00	0.00	0.00
4,500.0	5.97	217.06	4,492.9	-112.1	-84.7	-108.2	0.00	0.00	0.00
4,600.0	5.97	217.06	4,592.4	-120.4	-90.9	-116.2	0.00	0.00	0.00
4,700.0	5.97	217.06	4,691.9	-128.7	-97.2	-124.2	0.00	0.00	0.00
4,800.0	5.97	217.06	4,791.3	-137.0	-103.5	-132.2	0.00	0.00	0.00
4,900.0	5.97	217.06	4,890.8	-145.3	-109.7	-140.2	0.00	0.00	0.00
5,000.0	5.97	217.06	4,990.2	-153.6	-116.0	-148.2	0.00	0.00	0.00
5,100.0	5.97	217.06	5,089.7	-161.9	-122.3	-156.2	0.00	0.00	0.00
5,200.0	5.97	217.06	5,189.2	-170.2	-128.5	-164.2	0.00	0.00	0.00



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Site:	Berry 8 State Com	North Reference:	Grid
Well:	#202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	5.97	217.06	5,288.6	-178.5	-134.8	-172.2	0.00	0.00	0.00	
5,400.0	5.97	217.06	5,388.1	-186.8	-141.1	-180.2	0.00	0.00	0.00	
5,500.0	5.97	217.06	5,487.5	-195.1	-147.3	-188.3	0.00	0.00	0.00	
5,600.0	5.97	217.06	5,587.0	-203.4	-153.6	-196.3	0.00	0.00	0.00	
5,700.0	5.97	217.06	5,686.4	-211.7	-159.9	-204.3	0.00	0.00	0.00	
5,800.0	5.97	217.06	5,785.9	-220.0	-166.1	-212.3	0.00	0.00	0.00	
5,900.0	5.97	217.06	5,885.4	-228.3	-172.4	-220.3	0.00	0.00	0.00	
6,000.0	5.97	217.06	5,984.8	-236.6	-178.7	-228.3	0.00	0.00	0.00	
6,100.0	5.97	217.06	6,084.3	-244.9	-184.9	-236.3	0.00	0.00	0.00	
6,200.0	5.97	217.06	6,183.7	-253.2	-191.2	-244.3	0.00	0.00	0.00	
6,300.0	5.97	217.06	6,283.2	-261.5	-197.5	-252.3	0.00	0.00	0.00	
6,400.0	5.97	217.06	6,382.6	-269.8	-203.7	-260.3	0.00	0.00	0.00	
6,500.0	5.97	217.06	6,482.1	-278.1	-210.0	-268.3	0.00	0.00	0.00	
6,600.0	5.97	217.06	6,581.6	-286.4	-216.3	-276.3	0.00	0.00	0.00	
6,700.0	5.97	217.06	6,681.0	-294.7	-222.5	-284.4	0.00	0.00	0.00	
6,800.0	5.97	217.06	6,780.5	-303.0	-228.8	-292.4	0.00	0.00	0.00	
6,900.0	5.97	217.06	6,879.9	-311.2	-235.1	-300.4	0.00	0.00	0.00	
7,000.0	5.97	217.06	6,979.4	-319.5	-241.3	-308.4	0.00	0.00	0.00	
7,100.0	5.97	217.06	7,078.9	-327.8	-247.6	-316.4	0.00	0.00	0.00	
7,200.0	5.97	217.06	7,178.3	-336.1	-253.9	-324.4	0.00	0.00	0.00	
7,300.0	5.97	217.06	7,277.8	-344.4	-260.1	-332.4	0.00	0.00	0.00	
7,400.0	5.97	217.06	7,377.2	-352.7	-266.4	-340.4	0.00	0.00	0.00	
7,500.0	5.97	217.06	7,476.7	-361.0	-272.7	-348.4	0.00	0.00	0.00	
7,600.0	5.97	217.06	7,576.1	-369.3	-278.9	-356.4	0.00	0.00	0.00	
7,700.0	5.97	217.06	7,675.6	-377.6	-285.2	-364.4	0.00	0.00	0.00	
7,800.0	5.97	217.06	7,775.1	-385.9	-291.5	-372.4	0.00	0.00	0.00	
7,900.0	5.97	217.06	7,874.5	-394.2	-297.8	-380.4	0.00	0.00	0.00	
8,000.0	5.97	217.06	7,974.0	-402.5	-304.0	-388.5	0.00	0.00	0.00	
8,100.0	5.97	217.06	8,073.4	-410.8	-310.3	-396.5	0.00	0.00	0.00	
8,200.0	5.97	217.06	8,172.9	-419.1	-316.6	-404.5	0.00	0.00	0.00	
8,300.0	5.97	217.06	8,272.3	-427.4	-322.8	-412.5	0.00	0.00	0.00	
8,400.0	5.97	217.06	8,371.8	-435.7	-329.1	-420.5	0.00	0.00	0.00	
8,500.0	5.97	217.06	8,471.3	-444.0	-335.4	-428.5	0.00	0.00	0.00	
8,600.0	5.97	217.06	8,570.7	-452.3	-341.6	-436.5	0.00	0.00	0.00	
8,700.0	5.97	217.06	8,670.2	-460.6	-347.9	-444.5	0.00	0.00	0.00	
8,712.0	5.97	217.06	8,682.1	-461.6	-348.6	-445.5	0.00	0.00	0.00	
8,800.0	4.21	217.06	8,769.8	-467.8	-353.3	-451.5	2.00	-2.00	0.00	
8,900.0	2.21	217.06	8,869.6	-472.3	-356.7	-455.8	2.00	-2.00	0.00	
9,000.0	0.21	217.06	8,969.6	-474.0	-358.0	-457.4	2.00	-2.00	0.00	
9,010.4	0.00	0.00	8,980.0	-474.0	-358.0	-457.4	2.00	-2.00	0.00	
KOP(Berry 8 SC #202H)										
9,050.0	3.96	359.51	9,019.5	-472.6	-358.0	-456.1	10.00	10.00	0.00	
9,100.0	8.96	359.51	9,069.2	-467.0	-358.1	-450.4	10.00	10.00	0.00	
9,150.0	13.96	359.51	9,118.2	-457.1	-358.1	-440.5	10.00	10.00	0.00	
9,200.0	18.96	359.51	9,166.1	-442.9	-358.3	-426.4	10.00	10.00	0.00	
9,250.0	23.96	359.51	9,212.7	-424.6	-358.4	-408.1	10.00	10.00	0.00	
9,300.0	28.96	359.51	9,257.4	-402.4	-358.6	-385.8	10.00	10.00	0.00	
9,350.0	33.96	359.51	9,300.0	-376.3	-358.8	-359.8	10.00	10.00	0.00	
9,400.0	38.96	359.51	9,340.2	-346.6	-359.1	-330.1	10.00	10.00	0.00	
9,450.0	43.96	359.51	9,377.7	-313.5	-359.4	-297.0	10.00	10.00	0.00	
9,490.7	48.02	359.51	9,406.0	-284.3	-359.6	-267.8	10.00	10.00	0.00	
FTP(Berry 8 SC #202H)										
9,500.0	48.96	359.51	9,412.1	-277.3	-359.7	-260.8	10.00	10.00	0.00	



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Wellbore:	OH		
Design:	Plan #0.1		

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)
9,550.0	53.96	359.51	9,443.3	-238.2	-360.0	-221.8	10.00	10.00	0.00
9,600.0	58.96	359.51	9,470.9	-196.5	-360.4	-180.1	10.00	10.00	0.00
9,650.0	63.96	359.51	9,494.8	-152.6	-360.7	-136.2	10.00	10.00	0.00
9,700.0	68.96	359.51	9,514.7	-106.8	-361.1	-90.4	10.00	10.00	0.00
9,750.0	73.96	359.51	9,530.6	-59.4	-361.5	-43.1	10.00	10.00	0.00
9,800.0	78.96	359.51	9,542.3	-10.8	-361.9	5.5	10.00	10.00	0.00
9,850.0	83.96	359.51	9,549.8	38.6	-362.3	54.9	10.00	10.00	0.00
9,900.0	88.96	359.51	9,552.9	88.5	-362.8	104.7	10.00	10.00	0.00
9,910.4	90.00	359.51	9,553.0	98.9	-362.9	115.1	10.00	10.00	0.00
10,000.0	90.00	359.51	9,553.0	188.5	-363.6	204.7	0.00	0.00	0.00
10,100.0	90.00	359.51	9,553.0	288.5	-364.5	304.6	0.00	0.00	0.00
10,200.0	90.00	359.51	9,553.0	388.5	-365.3	404.5	0.00	0.00	0.00
10,300.0	90.00	359.51	9,553.0	488.5	-366.2	504.5	0.00	0.00	0.00
10,400.0	90.00	359.51	9,553.0	588.5	-367.0	604.4	0.00	0.00	0.00
10,500.0	90.00	359.51	9,553.0	688.5	-367.8	704.3	0.00	0.00	0.00
10,600.0	90.00	359.51	9,553.0	788.5	-368.7	804.3	0.00	0.00	0.00
10,700.0	90.00	359.51	9,553.0	888.5	-369.5	904.2	0.00	0.00	0.00
10,800.0	90.00	359.51	9,553.0	988.5	-370.4	1,004.1	0.00	0.00	0.00
10,900.0	90.00	359.51	9,553.0	1,088.5	-371.2	1,104.1	0.00	0.00	0.00
11,000.0	90.00	359.51	9,553.0	1,188.5	-372.1	1,204.0	0.00	0.00	0.00
11,100.0	90.00	359.51	9,553.0	1,288.5	-372.9	1,303.9	0.00	0.00	0.00
11,200.0	90.00	359.51	9,553.0	1,388.5	-373.8	1,403.9	0.00	0.00	0.00
11,300.0	90.00	359.51	9,553.0	1,488.5	-374.6	1,503.8	0.00	0.00	0.00
11,400.0	90.00	359.51	9,553.0	1,588.5	-375.5	1,603.7	0.00	0.00	0.00
11,500.0	90.00	359.51	9,553.0	1,688.5	-376.3	1,703.7	0.00	0.00	0.00
11,600.0	90.00	359.51	9,553.0	1,788.4	-377.2	1,803.6	0.00	0.00	0.00
11,700.0	90.00	359.51	9,553.0	1,888.4	-378.0	1,903.5	0.00	0.00	0.00
11,800.0	90.00	359.51	9,553.0	1,988.4	-378.9	2,003.5	0.00	0.00	0.00
11,900.0	90.00	359.51	9,553.0	2,088.4	-379.7	2,103.4	0.00	0.00	0.00
12,000.0	90.00	359.51	9,553.0	2,188.4	-380.6	2,203.3	0.00	0.00	0.00
12,100.0	90.00	359.51	9,553.0	2,288.4	-381.4	2,303.3	0.00	0.00	0.00
12,200.0	90.00	359.51	9,553.0	2,388.4	-382.3	2,403.2	0.00	0.00	0.00
12,300.0	90.00	359.51	9,553.0	2,488.4	-383.1	2,503.1	0.00	0.00	0.00
12,400.0	90.00	359.51	9,553.0	2,588.4	-383.9	2,603.1	0.00	0.00	0.00
12,500.0	90.00	359.51	9,553.0	2,688.4	-384.8	2,703.0	0.00	0.00	0.00
12,600.0	90.00	359.51	9,553.0	2,788.4	-385.6	2,802.9	0.00	0.00	0.00
12,700.0	90.00	359.51	9,553.0	2,888.4	-386.5	2,902.9	0.00	0.00	0.00
12,800.0	90.00	359.51	9,553.0	2,988.4	-387.3	3,002.8	0.00	0.00	0.00
12,900.0	90.00	359.51	9,553.0	3,088.4	-388.2	3,102.7	0.00	0.00	0.00
13,000.0	90.00	359.51	9,553.0	3,188.4	-389.0	3,202.7	0.00	0.00	0.00
13,100.0	90.00	359.51	9,553.0	3,288.4	-389.9	3,302.6	0.00	0.00	0.00
13,200.0	90.00	359.51	9,553.0	3,388.4	-390.7	3,402.5	0.00	0.00	0.00
13,300.0	90.00	359.51	9,553.0	3,488.4	-391.6	3,502.5	0.00	0.00	0.00
13,400.0	90.00	359.51	9,553.0	3,588.4	-392.4	3,602.4	0.00	0.00	0.00
13,500.0	90.00	359.51	9,553.0	3,688.4	-393.3	3,702.3	0.00	0.00	0.00
13,600.0	90.00	359.51	9,553.0	3,788.4	-394.1	3,802.3	0.00	0.00	0.00
13,700.0	90.00	359.51	9,553.0	3,888.4	-395.0	3,902.2	0.00	0.00	0.00
13,800.0	90.00	359.51	9,553.0	3,988.4	-395.8	4,002.1	0.00	0.00	0.00
13,900.0	90.00	359.51	9,553.0	4,088.4	-396.7	4,102.1	0.00	0.00	0.00
14,000.0	90.00	359.51	9,553.0	4,188.4	-397.5	4,202.0	0.00	0.00	0.00
14,100.0	90.00	359.51	9,553.0	4,288.4	-398.4	4,301.9	0.00	0.00	0.00
14,200.0	90.00	359.51	9,553.0	4,388.4	-399.2	4,401.9	0.00	0.00	0.00
14,300.0	90.00	359.51	9,553.0	4,488.4	-400.0	4,501.8	0.00	0.00	0.00
14,400.0	90.00	359.51	9,553.0	4,588.3	-400.9	4,601.7	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3735.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3735.0usft
Site:	Berry 8 State Com	North Reference:	Grid
Well:	#202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)	
14,500.0	90.00	359.51	9,553.0	4,688.3	-401.7	4,701.7	0.00	0.00	0.00	
14,600.0	90.00	359.51	9,553.0	4,788.3	-402.6	4,801.6	0.00	0.00	0.00	
14,700.0	90.00	359.51	9,553.0	4,888.3	-403.4	4,901.5	0.00	0.00	0.00	
14,800.0	90.00	359.51	9,553.0	4,988.3	-404.3	5,001.5	0.00	0.00	0.00	
14,900.0	90.00	359.51	9,553.0	5,088.3	-405.1	5,101.4	0.00	0.00	0.00	
15,000.0	90.00	359.51	9,553.0	5,188.3	-406.0	5,201.3	0.00	0.00	0.00	
15,100.0	90.00	359.51	9,553.0	5,288.3	-406.8	5,301.3	0.00	0.00	0.00	
15,200.0	90.00	359.51	9,553.0	5,388.3	-407.7	5,401.2	0.00	0.00	0.00	
15,300.0	90.00	359.51	9,553.0	5,488.3	-408.5	5,501.1	0.00	0.00	0.00	
15,400.0	90.00	359.51	9,553.0	5,588.3	-409.4	5,601.1	0.00	0.00	0.00	
15,500.0	90.00	359.51	9,553.0	5,688.3	-410.2	5,701.0	0.00	0.00	0.00	
15,600.0	90.00	359.51	9,553.0	5,788.3	-411.1	5,800.9	0.00	0.00	0.00	
15,700.0	90.00	359.51	9,553.0	5,888.3	-411.9	5,900.9	0.00	0.00	0.00	
15,800.0	90.00	359.51	9,553.0	5,988.3	-412.8	6,000.8	0.00	0.00	0.00	
15,900.0	90.00	359.51	9,553.0	6,088.3	-413.6	6,100.7	0.00	0.00	0.00	
16,000.0	90.00	359.51	9,553.0	6,188.3	-414.4	6,200.7	0.00	0.00	0.00	
16,100.0	90.00	359.51	9,553.0	6,288.3	-415.3	6,300.6	0.00	0.00	0.00	
16,200.0	90.00	359.51	9,553.0	6,388.3	-416.1	6,400.5	0.00	0.00	0.00	
16,300.0	90.00	359.51	9,553.0	6,488.3	-417.0	6,500.5	0.00	0.00	0.00	
16,400.0	90.00	359.51	9,553.0	6,588.3	-417.8	6,600.4	0.00	0.00	0.00	
16,500.0	90.00	359.51	9,553.0	6,688.3	-418.7	6,700.3	0.00	0.00	0.00	
16,600.0	90.00	359.51	9,553.0	6,788.3	-419.5	6,800.3	0.00	0.00	0.00	
16,700.0	90.00	359.51	9,553.0	6,888.3	-420.4	6,900.2	0.00	0.00	0.00	
16,800.0	90.00	359.51	9,553.0	6,988.3	-421.2	7,000.1	0.00	0.00	0.00	
16,900.0	90.00	359.51	9,553.0	7,088.3	-422.1	7,100.1	0.00	0.00	0.00	
17,000.0	90.00	359.51	9,553.0	7,188.3	-422.9	7,200.0	0.00	0.00	0.00	
17,100.0	90.00	359.51	9,553.0	7,288.3	-423.8	7,299.9	0.00	0.00	0.00	
17,200.0	90.00	359.51	9,553.0	7,388.2	-424.6	7,399.9	0.00	0.00	0.00	
17,300.0	90.00	359.51	9,553.0	7,488.2	-425.5	7,499.8	0.00	0.00	0.00	
17,400.0	90.00	359.51	9,553.0	7,588.2	-426.3	7,599.7	0.00	0.00	0.00	
17,500.0	90.00	359.51	9,553.0	7,688.2	-427.2	7,699.7	0.00	0.00	0.00	
17,600.0	90.00	359.51	9,553.0	7,788.2	-428.0	7,799.6	0.00	0.00	0.00	
17,700.0	90.00	359.51	9,553.0	7,888.2	-428.9	7,899.5	0.00	0.00	0.00	
17,800.0	90.00	359.51	9,553.0	7,988.2	-429.7	7,999.5	0.00	0.00	0.00	
17,900.0	90.00	359.51	9,553.0	8,088.2	-430.5	8,099.4	0.00	0.00	0.00	
18,000.0	90.00	359.51	9,553.0	8,188.2	-431.4	8,199.3	0.00	0.00	0.00	
18,100.0	90.00	359.51	9,553.0	8,288.2	-432.2	8,299.3	0.00	0.00	0.00	
18,200.0	90.00	359.51	9,553.0	8,388.2	-433.1	8,399.2	0.00	0.00	0.00	
18,300.0	90.00	359.51	9,553.0	8,488.2	-433.9	8,499.1	0.00	0.00	0.00	
18,400.0	90.00	359.51	9,553.0	8,588.2	-434.8	8,599.1	0.00	0.00	0.00	
18,500.0	90.00	359.51	9,553.0	8,688.2	-435.6	8,699.0	0.00	0.00	0.00	
18,600.0	90.00	359.51	9,553.0	8,788.2	-436.5	8,798.9	0.00	0.00	0.00	
18,700.0	90.00	359.51	9,553.0	8,888.2	-437.3	8,898.9	0.00	0.00	0.00	
18,800.0	90.00	359.51	9,553.0	8,988.2	-438.2	8,998.8	0.00	0.00	0.00	
18,900.0	90.00	359.51	9,553.0	9,088.2	-439.0	9,098.7	0.00	0.00	0.00	
19,000.0	90.00	359.51	9,553.0	9,188.2	-439.9	9,198.7	0.00	0.00	0.00	
19,100.0	90.00	359.51	9,553.0	9,288.2	-440.7	9,298.6	0.00	0.00	0.00	
19,200.0	90.00	359.51	9,553.0	9,388.2	-441.6	9,398.5	0.00	0.00	0.00	
19,300.0	90.00	359.51	9,553.0	9,488.2	-442.4	9,498.5	0.00	0.00	0.00	
19,400.0	90.00	359.51	9,553.0	9,588.2	-443.3	9,598.4	0.00	0.00	0.00	
19,500.0	90.00	359.51	9,553.0	9,688.2	-444.1	9,698.3	0.00	0.00	0.00	
19,600.0	90.00	359.51	9,553.0	9,788.2	-445.0	9,798.3	0.00	0.00	0.00	
19,700.0	90.00	359.51	9,553.0	9,888.2	-445.8	9,898.2	0.00	0.00	0.00	
19,723.8	90.00	359.51	9,553.0	9,912.0	-446.0	9,922.0	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #202H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3735.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3735.0usft
Site:	Berry 8 State Com	North Reference:	Grid
Well:	#202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
PBHL(Berry 8 SC #202H)									

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(Berry 8 SC #202H)	0.00	0.00	8,980.0	-474.0	-358.0	544,308.00	802,160.00	32° 29' 36.674 N	103° 29' 14.599 W
- plan hits target center									
- Point									
FTP(Berry 8 SC #202H)	0.00	0.00	9,553.0	-424.0	-358.0	544,358.00	802,160.00	32° 29' 37.169 N	103° 29' 14.594 W
- plan misses target center by 202.9usft at 9490.7usft MD (9406.0 TVD, -284.3 N, -359.6 E)									
- Point									
PBHL(Berry 8 SC #202H)	0.00	0.00	9,553.0	9,912.0	-446.0	554,694.00	802,072.00	32° 31' 19.446 N	103° 29' 14.664 W
- plan hits target center									
- Point									

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
to Appropriate
District Office

HOED-03D
OCT 12 2018
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GAS CAPTURE PLAN

Date: 10/11/2018

☒ Original Operator & OGRID No.: EOG Resources, Inc. 7377
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Berry 8 State Com 201H	30-025-*****	H-8-21S-34E	2129 FNL & 816 FEL	±3500	None Planned	APD Submission
Berry 8 State Com 202H	30-025-***** 45254	H-8-21S-34E	2121 FNL & 849 FEL	±3500	None Planned	APD Submission

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to **Lucid Energy** and will be connected to **EOG Resources** low/high pressure gathering system located in Eddy/Lea County, New Mexico. **EOG Resources** provides (periodically) to **Lucid Energy** a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, **EOG Resources** and **Lucid Energy** have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at **Lucid Energy** Processing Plant located in **Lea** County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on **Lucid Energy** system at that time. Based on current information, it is **EOG Resources'** belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

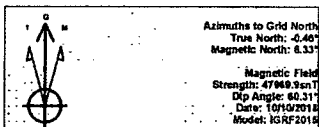
HOBBS OCD
OCT 12 2018
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Lea County, NM (NAD 83 NME)

Berry 8 State Com #202H

Plan #0.1



To convert a Magnetic Direction to a Grid Direction, Add 8.34°
To convert a Magnetic Direction to a True Direction, Add 0.79° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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: #202H

KB = 25 @ 3735.0usft
Northing 544782.00 Easting 802518.00 Latitude 32° 29' 41.336 N Longitude 103° 29' 10.375 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3298.4	5.97	217.06	3297.9	-12.4	-9.4	2.00	217.06	-12.0	
4	8712.0	5.97	217.06	8692.1	-461.6	-348.6	0.00	0.00	-445.5	
5	9010.4	0.00	0.00	8980.0	-474.0	-358.0	2.00	180.00	-457.4	KOP(Berry 8 SC #202H)
6	9910.4	90.00	359.51	9553.0	98.9	-362.9	10.00	359.51	115.1	
7	19723.8	90.00	359.51	9553.0	9912.0	-446.0	0.00	0.00	9922.0	PBHL(Berry 8 SC #202H)

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Berry 8 SC #202H)	8980.0	-474.0	-358.0	544308.00	802160.00
FTP(Berry 8 SC #202H)	9553.0	-424.0	-398.0	544388.00	802160.00
PBHL(Berry 8 SC #202H)	9553.0	9912.0	-446.0	554894.00	802972.00

