

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 29 2018

RECEIVED



COG Operating LLC

Eddy County, NM (NAD27 NME)

Myox 21 State Com

37H

OH

Plan: Plan 1 10-19-18

Standard Planning Report

19 October, 2018

30-015-45376





Planning Report



Database: USA Compass
 Company: COG Operating LLC
 Project: Eddy County, NM (NAD27 NME)
 Site: Myox 21 State Cor
 Well: 37H
 Wellbore: OH
 Design: Plan 1 10-19-18

Local Co-ordinate Reference: Well 37H
 TVD Reference: KB @ 3000.90usft (Ensign 155)
 MD Reference: KB @ 3000.90usft (Ensign 155)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project	Eddy County, NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Myox 21 State Cor		
Site Position:		Northing:	403,335.40 usft
From:	Map	Easting:	577,031.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 31.10711 N
		Longitude:	104° 5' 4.37007 W
		Grid Convergence:	0.13 °

Well	37H		
Well Position	+N/-S	-31.10 usft	Northing:
	+E/-W	-3,159.60 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	
		Latitude:	32° 6' 30.87002 N
		Longitude:	104° 5' 41.10668 W
		Ground Level:	2,976.90 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	11/17/2018	7.05
			Dip Angle (°)
			59.81
			Field Strength (nT)
			47,915.85494934

Design	Plan 1 10-19-18		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°)
			2.86

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,999.96	10.00	98.23	2,997.42	-6.23	43.07	2.00	2.00	0.00	98.23	
6,000.69	10.00	98.23	5,952.58	-80.77	558.73	0.00	0.00	0.00	0.00	
6,500.65	0.00	0.00	6,450.00	-87.00	601.80	2.00	-2.00	0.00	180.00	
9,124.19	0.00	0.00	9,073.54	-87.00	601.80	0.00	0.00	0.00	0.00	
9,873.22	89.88	359.50	9,551.00	389.48	597.62	12.00	12.00	-0.07	359.50	
19,713.14	89.88	359.50	9,571.00	10,229.00	511.30	0.00	0.00	0.00	0.00	BHL - Myox State Cor

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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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
2,600.00	2.00	98.23	2,599.98	-0.25	1.73	-0.16	2.00	2.00	0.00
2,700.00	4.00	98.23	2,699.84	-1.00	6.91	-0.65	2.00	2.00	0.00
2,800.00	6.00	98.23	2,799.45	-2.25	15.53	-1.47	2.00	2.00	0.00
2,900.00	8.00	98.23	2,898.70	-3.99	27.59	-2.61	2.00	2.00	0.00
2,999.96	10.00	98.23	2,997.42	-6.23	43.07	-4.07	2.00	2.00	0.00
Hold 10.00° Inc at 98.23° Azm									
3,000.00	10.00	98.23	2,997.47	-6.23	43.07	-4.07	0.00	0.00	0.00
3,100.00	10.00	98.23	3,095.95	-8.71	60.26	-5.69	0.00	0.00	0.00
3,200.00	10.00	98.23	3,194.43	-11.20	77.44	-7.32	0.00	0.00	0.00
3,300.00	10.00	98.23	3,292.91	-13.68	94.63	-8.94	0.00	0.00	0.00
3,400.00	10.00	98.23	3,391.39	-16.16	111.81	-10.56	0.00	0.00	0.00
3,500.00	10.00	98.23	3,489.87	-18.65	129.00	-12.19	0.00	0.00	0.00
3,600.00	10.00	98.23	3,588.35	-21.13	146.18	-13.81	0.00	0.00	0.00
3,700.00	10.00	98.23	3,686.83	-23.62	163.37	-15.43	0.00	0.00	0.00
3,800.00	10.00	98.23	3,785.31	-26.10	180.55	-17.06	0.00	0.00	0.00
3,900.00	10.00	98.23	3,883.79	-28.59	197.74	-18.68	0.00	0.00	0.00
4,000.00	10.00	98.23	3,982.28	-31.07	214.92	-20.30	0.00	0.00	0.00
4,100.00	10.00	98.23	4,080.76	-33.55	232.11	-21.93	0.00	0.00	0.00
4,200.00	10.00	98.23	4,179.24	-36.04	249.29	-23.55	0.00	0.00	0.00
4,300.00	10.00	98.23	4,277.72	-38.52	266.48	-25.17	0.00	0.00	0.00
4,400.00	10.00	98.23	4,376.20	-41.01	283.66	-26.80	0.00	0.00	0.00
4,500.00	10.00	98.23	4,474.68	-43.49	300.84	-28.42	0.00	0.00	0.00
4,600.00	10.00	98.23	4,573.16	-45.98	318.03	-30.04	0.00	0.00	0.00
4,700.00	10.00	98.23	4,671.64	-48.46	335.21	-31.67	0.00	0.00	0.00
4,800.00	10.00	98.23	4,770.12	-50.94	352.40	-33.29	0.00	0.00	0.00
4,900.00	10.00	98.23	4,868.61	-53.43	369.58	-34.91	0.00	0.00	0.00
5,000.00	10.00	98.23	4,967.09	-55.91	386.77	-36.54	0.00	0.00	0.00
5,100.00	10.00	98.23	5,065.57	-58.40	403.95	-38.16	0.00	0.00	0.00
5,200.00	10.00	98.23	5,164.05	-60.88	421.14	-39.78	0.00	0.00	0.00
5,300.00	10.00	98.23	5,262.53	-63.37	438.32	-41.41	0.00	0.00	0.00
5,400.00	10.00	98.23	5,361.01	-65.85	455.51	-43.03	0.00	0.00	0.00
5,500.00	10.00	98.23	5,459.49	-68.34	472.69	-44.65	0.00	0.00	0.00
5,600.00	10.00	98.23	5,557.97	-70.82	489.88	-46.28	0.00	0.00	0.00
5,700.00	10.00	98.23	5,656.45	-73.30	507.06	-47.90	0.00	0.00	0.00
5,800.00	10.00	98.23	5,754.93	-75.79	524.24	-49.52	0.00	0.00	0.00
5,900.00	10.00	98.23	5,853.42	-78.27	541.43	-51.15	0.00	0.00	0.00
6,000.00	10.00	98.23	5,951.90	-80.76	558.61	-52.77	0.00	0.00	0.00
6,000.69	10.00	98.23	5,952.58	-80.77	558.73	-52.78	0.00	0.00	0.00
Begin 2.00°/100' Drop									
6,100.00	8.01	98.23	6,050.66	-83.00	574.12	-54.23	2.00	-2.00	0.00
6,200.00	6.01	98.23	6,149.90	-84.74	588.20	-55.37	2.00	-2.00	0.00
6,300.00	4.01	98.23	6,249.52	-86.00	594.85	-56.19	2.00	-2.00	0.00
6,400.00	2.01	98.23	6,349.37	-86.75	600.05	-56.68	2.00	-2.00	0.00
6,500.00	0.01	98.23	6,449.35	-87.00	601.80	-56.85	2.00	-2.00	0.00
6,500.65	0.00	0.00	6,450.00	-87.00	601.80	-56.85	2.00	-2.00	0.00
Begin Vertical Hold									
9,124.19	0.00	0.00	9,073.54	-87.00	601.80	-56.85	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
9,200.00	9.10	359.50	9,149.03	-80.99	601.75	-50.85	12.00	12.00	0.00
9,300.00	21.10	359.50	9,245.41	-55.00	601.52	-24.90	12.00	12.00	0.00
9,400.00	33.10	359.50	9,334.27	-9.53	601.12	20.49	12.00	12.00	0.00



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9,500.00	45.10	359.50	9,411.73	53.42	600.57	83.33	12.00	12.00	0.00
9,600.00	57.10	359.50	9,474.42	131.09	599.89	160.88	12.00	12.00	0.00
9,700.00	69.10	359.50	9,519.58	220.10	599.11	249.74	12.00	12.00	0.00
9,800.00	81.10	359.50	9,545.25	316.56	598.26	346.03	12.00	12.00	0.00
9,873.22	89.88	359.50	9,551.00	389.48	597.62	418.83	12.00	12.00	0.00
LP, Hold 89.88° Inc at 359.50° Azm									
9,900.00	89.88	359.50	9,551.06	416.26	597.39	445.56	0.00	0.00	0.00
10,000.00	89.88	359.50	9,551.26	516.25	596.51	545.39	0.00	0.00	0.00
10,100.00	89.88	359.50	9,551.46	616.25	595.63	645.22	0.00	0.00	0.00
10,200.00	89.88	359.50	9,551.67	716.25	594.75	745.04	0.00	0.00	0.00
10,300.00	89.88	359.50	9,551.87	816.24	593.88	844.87	0.00	0.00	0.00
10,400.00	89.88	359.50	9,552.07	916.24	593.00	944.70	0.00	0.00	0.00
10,500.00	89.88	359.50	9,552.28	1,016.23	592.12	1,044.53	0.00	0.00	0.00
10,600.00	89.88	359.50	9,552.48	1,116.23	591.24	1,144.35	0.00	0.00	0.00
10,700.00	89.88	359.50	9,552.68	1,216.23	590.37	1,244.18	0.00	0.00	0.00
10,800.00	89.88	359.50	9,552.89	1,316.22	589.49	1,344.01	0.00	0.00	0.00
10,900.00	89.88	359.50	9,553.09	1,416.22	588.61	1,443.84	0.00	0.00	0.00
11,000.00	89.88	359.50	9,553.29	1,516.21	587.74	1,543.66	0.00	0.00	0.00
11,100.00	89.88	359.50	9,553.50	1,616.21	586.86	1,643.49	0.00	0.00	0.00
11,200.00	89.88	359.50	9,553.70	1,716.20	585.98	1,743.32	0.00	0.00	0.00
11,300.00	89.88	359.50	9,553.90	1,816.20	585.10	1,843.15	0.00	0.00	0.00
11,400.00	89.88	359.50	9,554.11	1,916.20	584.23	1,942.97	0.00	0.00	0.00
11,500.00	89.88	359.50	9,554.31	2,016.19	583.35	2,042.80	0.00	0.00	0.00
11,600.00	89.88	359.50	9,554.51	2,116.19	582.47	2,142.63	0.00	0.00	0.00
11,700.00	89.88	359.50	9,554.72	2,216.18	581.59	2,242.46	0.00	0.00	0.00
11,800.00	89.88	359.50	9,554.92	2,316.18	580.72	2,342.28	0.00	0.00	0.00
11,900.00	89.88	359.50	9,555.12	2,416.18	579.84	2,442.11	0.00	0.00	0.00
12,000.00	89.88	359.50	9,555.33	2,516.17	578.96	2,541.94	0.00	0.00	0.00
12,100.00	89.88	359.50	9,555.53	2,616.17	578.09	2,641.77	0.00	0.00	0.00
12,200.00	89.88	359.50	9,555.73	2,716.16	577.21	2,741.59	0.00	0.00	0.00
12,300.00	89.88	359.50	9,555.94	2,816.16	576.33	2,841.42	0.00	0.00	0.00
12,400.00	89.88	359.50	9,556.14	2,916.16	575.45	2,941.25	0.00	0.00	0.00
12,500.00	89.88	359.50	9,556.34	3,016.15	574.58	3,041.08	0.00	0.00	0.00
12,600.00	89.88	359.50	9,556.55	3,116.15	573.70	3,140.90	0.00	0.00	0.00
12,700.00	89.88	359.50	9,556.75	3,216.14	572.82	3,240.73	0.00	0.00	0.00
12,800.00	89.88	359.50	9,556.95	3,316.14	571.95	3,340.56	0.00	0.00	0.00
12,900.00	89.88	359.50	9,557.15	3,416.14	571.07	3,440.39	0.00	0.00	0.00
13,000.00	89.88	359.50	9,557.36	3,516.13	570.19	3,540.21	0.00	0.00	0.00
13,100.00	89.88	359.50	9,557.56	3,616.13	569.31	3,640.04	0.00	0.00	0.00
13,200.00	89.88	359.50	9,557.76	3,716.12	568.44	3,739.87	0.00	0.00	0.00
13,300.00	89.88	359.50	9,557.97	3,816.12	567.56	3,839.70	0.00	0.00	0.00
13,400.00	89.88	359.50	9,558.17	3,916.12	566.68	3,939.52	0.00	0.00	0.00
13,500.00	89.88	359.50	9,558.37	4,016.11	565.80	4,039.35	0.00	0.00	0.00
13,600.00	89.88	359.50	9,558.58	4,116.11	564.93	4,139.18	0.00	0.00	0.00
13,700.00	89.88	359.50	9,558.78	4,216.10	564.05	4,239.01	0.00	0.00	0.00
13,800.00	89.88	359.50	9,558.98	4,316.10	563.17	4,338.83	0.00	0.00	0.00
13,900.00	89.88	359.50	9,559.19	4,416.10	562.30	4,438.66	0.00	0.00	0.00
14,000.00	89.88	359.50	9,559.39	4,516.09	561.42	4,538.49	0.00	0.00	0.00
14,100.00	89.88	359.50	9,559.59	4,616.09	560.54	4,638.32	0.00	0.00	0.00
14,200.00	89.88	359.50	9,559.80	4,716.08	559.66	4,738.14	0.00	0.00	0.00
14,300.00	89.88	359.50	9,560.00	4,816.08	558.79	4,837.97	0.00	0.00	0.00
14,400.00	89.88	359.50	9,560.20	4,916.08	557.91	4,937.80	0.00	0.00	0.00
14,500.00	89.88	359.50	9,560.41	5,016.07	557.03	5,037.63	0.00	0.00	0.00

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14,600.00	89.88	359.50	9,560.61	5,116.07	556.15	5,137.45	0.00	0.00	0.00
14,700.00	89.88	359.50	9,560.81	5,216.06	555.28	5,237.28	0.00	0.00	0.00
14,800.00	89.88	359.50	9,561.02	5,316.06	554.40	5,337.11	0.00	0.00	0.00
14,900.00	89.88	359.50	9,561.22	5,416.06	553.52	5,436.94	0.00	0.00	0.00
15,000.00	89.88	359.50	9,561.42	5,516.05	552.65	5,536.76	0.00	0.00	0.00
15,100.00	89.88	359.50	9,561.63	5,616.05	551.77	5,636.59	0.00	0.00	0.00
15,200.00	89.88	359.50	9,561.83	5,716.04	550.89	5,736.42	0.00	0.00	0.00
15,300.00	89.88	359.50	9,562.03	5,816.04	550.01	5,836.25	0.00	0.00	0.00
15,400.00	89.88	359.50	9,562.24	5,916.03	549.14	5,936.07	0.00	0.00	0.00
15,500.00	89.88	359.50	9,562.44	6,016.03	548.26	6,035.90	0.00	0.00	0.00
15,600.00	89.88	359.50	9,562.64	6,116.03	547.38	6,135.73	0.00	0.00	0.00
15,700.00	89.88	359.50	9,562.84	6,216.02	546.50	6,235.55	0.00	0.00	0.00
15,800.00	89.88	359.50	9,563.05	6,316.02	545.63	6,335.38	0.00	0.00	0.00
15,900.00	89.88	359.50	9,563.25	6,416.01	544.75	6,435.21	0.00	0.00	0.00
16,000.00	89.88	359.50	9,563.45	6,516.01	543.87	6,535.04	0.00	0.00	0.00
16,100.00	89.88	359.50	9,563.66	6,616.01	543.00	6,634.86	0.00	0.00	0.00
16,200.00	89.88	359.50	9,563.86	6,716.00	542.12	6,734.69	0.00	0.00	0.00
16,300.00	89.88	359.50	9,564.06	6,816.00	541.24	6,834.52	0.00	0.00	0.00
16,400.00	89.88	359.50	9,564.27	6,915.99	540.36	6,934.35	0.00	0.00	0.00
16,500.00	89.88	359.50	9,564.47	7,015.99	539.49	7,034.17	0.00	0.00	0.00
16,600.00	89.88	359.50	9,564.67	7,115.99	538.61	7,134.00	0.00	0.00	0.00
16,700.00	89.88	359.50	9,564.88	7,215.98	537.73	7,233.83	0.00	0.00	0.00
16,800.00	89.88	359.50	9,565.08	7,315.98	536.86	7,333.66	0.00	0.00	0.00
16,900.00	89.88	359.50	9,565.28	7,415.97	535.98	7,433.48	0.00	0.00	0.00
17,000.00	89.88	359.50	9,565.49	7,515.97	535.10	7,533.31	0.00	0.00	0.00
17,100.00	89.88	359.50	9,565.69	7,615.97	534.22	7,633.14	0.00	0.00	0.00
17,200.00	89.88	359.50	9,565.89	7,715.96	533.35	7,732.97	0.00	0.00	0.00
17,300.00	89.88	359.50	9,566.10	7,815.96	532.47	7,832.79	0.00	0.00	0.00
17,400.00	89.88	359.50	9,566.30	7,915.95	531.59	7,932.62	0.00	0.00	0.00
17,500.00	89.88	359.50	9,566.50	8,015.95	530.71	8,032.45	0.00	0.00	0.00
17,600.00	89.88	359.50	9,566.71	8,115.95	529.84	8,132.28	0.00	0.00	0.00
17,700.00	89.88	359.50	9,566.91	8,215.94	528.96	8,232.10	0.00	0.00	0.00
17,800.00	89.88	359.50	9,567.11	8,315.94	528.08	8,331.93	0.00	0.00	0.00
17,900.00	89.88	359.50	9,567.32	8,415.93	527.21	8,431.76	0.00	0.00	0.00
18,000.00	89.88	359.50	9,567.52	8,515.93	526.33	8,531.59	0.00	0.00	0.00
18,100.00	89.88	359.50	9,567.72	8,615.93	525.45	8,631.41	0.00	0.00	0.00
18,200.00	89.88	359.50	9,567.93	8,715.92	524.57	8,731.24	0.00	0.00	0.00
18,300.00	89.88	359.50	9,568.13	8,815.92	523.70	8,831.07	0.00	0.00	0.00
18,400.00	89.88	359.50	9,568.33	8,915.91	522.82	8,930.90	0.00	0.00	0.00
18,500.00	89.88	359.50	9,568.53	9,015.91	521.94	9,030.72	0.00	0.00	0.00
18,600.00	89.88	359.50	9,568.74	9,115.91	521.06	9,130.55	0.00	0.00	0.00
18,700.00	89.88	359.50	9,568.94	9,215.90	520.19	9,230.38	0.00	0.00	0.00
18,800.00	89.88	359.50	9,569.14	9,315.90	519.31	9,330.21	0.00	0.00	0.00
18,900.00	89.88	359.50	9,569.35	9,415.89	518.43	9,430.03	0.00	0.00	0.00
19,000.00	89.88	359.50	9,569.55	9,515.89	517.56	9,529.86	0.00	0.00	0.00
19,100.00	89.88	359.50	9,569.75	9,615.88	516.68	9,629.69	0.00	0.00	0.00
19,200.00	89.88	359.50	9,569.96	9,715.88	515.80	9,729.52	0.00	0.00	0.00
19,300.00	89.88	359.50	9,570.16	9,815.88	514.92	9,829.34	0.00	0.00	0.00
19,400.00	89.88	359.50	9,570.36	9,915.87	514.05	9,929.17	0.00	0.00	0.00
19,500.00	89.88	359.50	9,570.57	10,015.87	513.17	10,029.00	0.00	0.00	0.00
19,600.00	89.88	359.50	9,570.77	10,115.86	512.29	10,128.83	0.00	0.00	0.00
19,700.00	89.88	359.50	9,570.97	10,215.86	511.42	10,228.65	0.00	0.00	0.00
19,713.14	89.88	359.50	9,571.00	10,229.00	511.30	10,241.77	0.00	0.00	0.00

TD at 19713.14



Planning Report



Database: USA Compass
Company: COG Operating LLC
Project: Eddy County, NM (NAD27 NME)
Site: Myox 21 State Com
Well: 37H
Wellbore: OH
Design: Plan 1 10-19-18

Local Co-ordinate Reference: Well 37H
TVD Reference: KB @ 3000.90usft (Ensign 155)
MD Reference: KB @ 3000.90usft (Ensign 155)
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)
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Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Myox State Com 3 - hit/miss target - Shape	0.00	0.00	9,551.00	135.30	599.80	403,439.60	574,471.60	32° 6' 32.19582 N	104° 5' 34.12946 W
- plan misses target center by 63.91usft at 9638.47usft MD (9493.99 TVD, 164.20 N, 599.60 E)									
- Point									
LTP - Myox State Com 3 - plan misses target center by 0.27usft at 19583.14usft MD (9570.74 TVD, 10099.00 N, 512.44 E)	0.00	0.00	9,571.00	10,099.00	512.40	413,403.30	574,384.20	32° 8' 10.80308 N	104° 5' 34.88728 W
- Point									
BHL - Myox State Com 3 - plan hits target center - Point	0.00	0.00	9,571.00	10,229.00	511.30	413,533.30	574,383.10	32° 8' 12.08964 N	104° 5' 34.89670 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.00	2,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build
2,999.96	2,997.42	-6.23	43.07	Hold 10.00° Inc at 98.23° Azm
6,000.69	5,952.58	-80.77	558.73	Begin 2.00°/100' Drop
6,500.65	6,450.00	-87.00	601.80	Begin Vertical Hold
9,124.19	9,073.54	-87.00	601.80	KOP2, Begin 12.00°/100' Build
9,873.22	9,551.00	389.48	597.62	LP, Hold 89.88° Inc at 359.50° Azm
19,713.14	9,571.00	10,229.00	511.30	TD at 19713.14

