



**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 29 2018

RECEIVED

COG Operating LLC

Eddy County, NM (NAD27 NME)

Myox 21 State Com

38H

30-015-45373

OH

Plan: Plan 1 10-19-18

Standard Planning Report

19 October, 2018



Database: USA Compass
Company: COG Operating LLC
Project: Eddy County, NM (NAD27 NME)
Site: Myox 21 State Com
Well: 38H
Wellbore: OH
Design: Plan 1 10-19-18

Local Co-ordinate Reference: Well 38H
TVD Reference: KB @ 3001.90usft (Ensign 155)
MD Reference: KB @ 3001.90usft (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 Com				
Site Position:		Northing:	403,335.40 usft	Latitude:	32° 6' 31.10711 N
From:	Map	Easting:	577,031.40 usft	Longitude:	104° 5' 4.37007 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	38H				
Well Position	+N/-S	-30.80 usft	Northing:	403,304.60 usft	Latitude: 32° 6' 30.87231 N
	+E/-W	-3,128.60 usft	Easting:	573,902.80 usft	Longitude: 104° 5' 40.74624 W
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level: 2,976.90 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	11/15/2018	7.05	59.81	47,916.47000691

Design	Plan 1 10-19-18			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	4.47

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	
3,099.87	12.00	95.32	3,095.49	-5.80	62.31	2.00	2.00	0.00	95.32	
6,802.78	12.00	95.32	6,717.51	-77.20	828.69	0.00	0.00	0.00	0.00	
7,402.63	0.00	0.00	7,313.00	-83.00	891.00	2.00	-2.00	0.00	180.00	
8,988.17	0.00	0.00	8,898.54	-83.00	891.00	0.00	0.00	0.00	0.00	
9,736.71	89.83	359.50	9,376.00	392.99	886.81	12.00	12.00	-0.07	359.50	
19,573.95	89.83	359.50	9,406.00	10,229.80	800.30	0.00	0.00	0.00	0.00	BHL - Myox 21 State

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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	95.32	2,599.98	-0.16	1.74	-0.03	2.00	2.00	0.00
2,700.00	4.00	95.32	2,699.84	-0.65	6.95	-0.10	2.00	2.00	0.00
2,800.00	6.00	95.32	2,799.45	-1.46	15.63	-0.23	2.00	2.00	0.00
2,900.00	8.00	95.32	2,898.70	-2.59	27.76	-0.41	2.00	2.00	0.00
3,000.00	10.00	95.32	2,997.47	-4.04	43.33	-0.64	2.00	2.00	0.00
3,099.87	12.00	95.32	3,095.49	-5.80	62.31	-0.93	2.00	2.00	0.00
Hold 12.00° Inc at 95.32° Azm									
3,100.00	12.00	95.32	3,095.62	-5.81	62.33	-0.93	0.00	0.00	0.00
3,200.00	12.00	95.32	3,193.44	-7.73	83.03	-1.24	0.00	0.00	0.00
3,300.00	12.00	95.32	3,291.25	-9.66	103.73	-1.54	0.00	0.00	0.00
3,400.00	12.00	95.32	3,389.07	-11.59	124.42	-1.85	0.00	0.00	0.00
3,500.00	12.00	95.32	3,486.89	-13.52	145.12	-2.16	0.00	0.00	0.00
3,600.00	12.00	95.32	3,584.70	-15.45	165.82	-2.47	0.00	0.00	0.00
3,700.00	12.00	95.32	3,682.52	-17.37	186.51	-2.77	0.00	0.00	0.00
3,800.00	12.00	95.32	3,780.33	-19.30	207.21	-3.08	0.00	0.00	0.00
3,900.00	12.00	95.32	3,878.15	-21.23	227.91	-3.39	0.00	0.00	0.00
4,000.00	12.00	95.32	3,975.96	-23.16	248.61	-3.70	0.00	0.00	0.00
4,100.00	12.00	95.32	4,073.78	-25.09	269.30	-4.01	0.00	0.00	0.00
4,200.00	12.00	95.32	4,171.60	-27.01	290.00	-4.31	0.00	0.00	0.00
4,300.00	12.00	95.32	4,269.41	-28.94	310.70	-4.62	0.00	0.00	0.00
4,400.00	12.00	95.32	4,367.23	-30.87	331.39	-4.93	0.00	0.00	0.00
4,500.00	12.00	95.32	4,465.04	-32.80	352.09	-5.24	0.00	0.00	0.00
4,600.00	12.00	95.32	4,562.86	-34.73	372.79	-5.55	0.00	0.00	0.00
4,700.00	12.00	95.32	4,660.67	-36.65	393.49	-5.85	0.00	0.00	0.00
4,800.00	12.00	95.32	4,758.49	-38.58	414.18	-6.16	0.00	0.00	0.00
4,900.00	12.00	95.32	4,856.31	-40.51	434.88	-6.47	0.00	0.00	0.00
5,000.00	12.00	95.32	4,954.12	-42.44	455.58	-6.78	0.00	0.00	0.00
5,100.00	12.00	95.32	5,051.94	-44.37	476.27	-7.09	0.00	0.00	0.00
5,200.00	12.00	95.32	5,149.75	-46.29	496.97	-7.39	0.00	0.00	0.00
5,300.00	12.00	95.32	5,247.57	-48.22	517.67	-7.70	0.00	0.00	0.00
5,400.00	12.00	95.32	5,345.38	-50.15	538.36	-8.01	0.00	0.00	0.00
5,500.00	12.00	95.32	5,443.20	-52.08	559.06	-8.32	0.00	0.00	0.00
5,600.00	12.00	95.32	5,541.02	-54.01	579.76	-8.62	0.00	0.00	0.00
5,700.00	12.00	95.32	5,638.83	-55.93	600.46	-8.93	0.00	0.00	0.00
5,800.00	12.00	95.32	5,736.65	-57.86	621.15	-9.24	0.00	0.00	0.00
5,900.00	12.00	95.32	5,834.46	-59.79	641.85	-9.55	0.00	0.00	0.00
6,000.00	12.00	95.32	5,932.28	-61.72	662.55	-9.86	0.00	0.00	0.00
6,100.00	12.00	95.32	6,030.09	-63.65	683.24	-10.16	0.00	0.00	0.00
6,200.00	12.00	95.32	6,127.91	-65.57	703.94	-10.47	0.00	0.00	0.00
6,300.00	12.00	95.32	6,225.73	-67.50	724.64	-10.78	0.00	0.00	0.00
6,400.00	12.00	95.32	6,323.54	-69.43	745.33	-11.09	0.00	0.00	0.00
6,500.00	12.00	95.32	6,421.36	-71.36	766.03	-11.40	0.00	0.00	0.00
6,600.00	12.00	95.32	6,519.17	-73.29	786.73	-11.70	0.00	0.00	0.00
6,700.00	12.00	95.32	6,616.99	-75.21	807.43	-12.01	0.00	0.00	0.00
6,800.00	12.00	95.32	6,714.80	-77.14	828.12	-12.32	0.00	0.00	0.00
6,802.76	12.00	95.32	6,717.51	-77.20	828.69	-12.33	0.00	0.00	0.00
Begin 2.00°/100' Drop									
6,900.00	10.05	95.32	6,812.95	-78.92	847.21	-12.60	2.00	-2.00	0.00
7,000.00	8.05	95.32	6,911.69	-80.38	862.87	-12.84	2.00	-2.00	0.00
7,100.00	6.05	95.32	7,010.93	-81.52	875.10	-13.02	2.00	-2.00	0.00

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7,200.00	4.05	95.32	7,110.54	-82.34	883.87	-13.15	2.00	-2.00	0.00
7,300.00	2.05	95.32	7,210.39	-82.83	889.17	-13.23	2.00	-2.00	0.00
7,400.00	0.05	95.32	7,310.37	-83.00	891.00	-13.25	2.00	-2.00	0.00
7,402.63	0.00	0.00	7,313.00	-83.00	891.00	-13.25	2.00	-2.00	-3,625.00
Begin Vertical Hold									
8,988.17	0.00	0.00	8,898.54	-83.00	891.00	-13.25	0.00	0.00	0.00
KOP2, Begin 12.00°/100' Build									
9,000.00	1.42	359.50	8,910.37	-82.85	891.00	-13.11	12.00	12.00	0.00
9,100.00	13.42	359.50	9,009.35	-69.96	890.89	-0.27	12.00	12.00	0.00
9,200.00	25.42	359.50	9,103.49	-36.78	890.59	32.80	12.00	12.00	0.00
9,300.00	37.42	359.50	9,188.67	15.26	890.14	84.63	12.00	12.00	0.00
9,400.00	49.42	359.50	9,261.17	83.86	889.53	152.98	12.00	12.00	0.00
9,500.00	61.42	359.50	9,317.82	166.04	888.81	234.86	12.00	12.00	0.00
9,600.00	73.42	359.50	9,356.15	258.20	888.00	326.67	12.00	12.00	0.00
9,700.00	85.42	359.50	9,374.48	356.32	887.14	424.42	12.00	12.00	0.00
9,736.71	89.83	359.50	9,376.00	392.99	886.81	460.96	12.00	12.00	0.00
LP, Hold 89.82° Inc at 359.50° Azm									
9,800.00	89.83	359.50	9,376.20	456.27	886.26	524.01	0.00	0.00	0.00
9,900.00	89.83	359.50	9,376.50	556.27	885.38	623.63	0.00	0.00	0.00
10,000.00	89.83	359.50	9,376.81	656.27	884.50	723.25	0.00	0.00	0.00
10,100.00	89.83	359.50	9,377.11	756.26	883.62	822.87	0.00	0.00	0.00
10,200.00	89.83	359.50	9,377.42	856.26	882.74	922.50	0.00	0.00	0.00
10,300.00	89.83	359.50	9,377.72	956.25	881.86	1,022.12	0.00	0.00	0.00
10,400.00	89.83	359.50	9,378.03	1,056.25	880.98	1,121.74	0.00	0.00	0.00
10,500.00	89.83	359.50	9,378.33	1,156.24	880.10	1,221.36	0.00	0.00	0.00
10,600.00	89.83	359.50	9,378.64	1,256.24	879.22	1,320.99	0.00	0.00	0.00
10,700.00	89.83	359.50	9,378.94	1,356.24	878.34	1,420.61	0.00	0.00	0.00
10,800.00	89.83	359.50	9,379.25	1,456.23	877.46	1,520.23	0.00	0.00	0.00
10,900.00	89.83	359.50	9,379.55	1,556.23	876.58	1,619.85	0.00	0.00	0.00
11,000.00	89.83	359.50	9,379.86	1,656.22	875.70	1,719.48	0.00	0.00	0.00
11,100.00	89.83	359.50	9,380.16	1,756.22	874.82	1,819.10	0.00	0.00	0.00
11,200.00	89.83	359.50	9,380.46	1,856.21	873.94	1,918.72	0.00	0.00	0.00
11,300.00	89.83	359.50	9,380.77	1,956.21	873.07	2,018.34	0.00	0.00	0.00
11,400.00	89.83	359.50	9,381.07	2,056.20	872.19	2,117.97	0.00	0.00	0.00
11,500.00	89.83	359.50	9,381.38	2,156.20	871.31	2,217.59	0.00	0.00	0.00
11,600.00	89.83	359.50	9,381.68	2,256.20	870.43	2,317.21	0.00	0.00	0.00
11,700.00	89.83	359.50	9,381.99	2,356.19	869.55	2,416.83	0.00	0.00	0.00
11,800.00	89.83	359.50	9,382.29	2,456.19	868.67	2,516.46	0.00	0.00	0.00
11,900.00	89.83	359.50	9,382.60	2,556.18	867.79	2,616.08	0.00	0.00	0.00
12,000.00	89.83	359.50	9,382.90	2,656.18	866.91	2,715.70	0.00	0.00	0.00
12,100.00	89.83	359.50	9,383.21	2,756.17	866.03	2,815.32	0.00	0.00	0.00
12,200.00	89.83	359.50	9,383.51	2,856.17	865.15	2,914.95	0.00	0.00	0.00
12,300.00	89.83	359.50	9,383.82	2,956.17	864.27	3,014.57	0.00	0.00	0.00
12,400.00	89.83	359.50	9,384.12	3,056.16	863.39	3,114.19	0.00	0.00	0.00
12,500.00	89.83	359.50	9,384.43	3,156.16	862.51	3,213.81	0.00	0.00	0.00
12,600.00	89.83	359.50	9,384.73	3,256.15	861.63	3,313.44	0.00	0.00	0.00
12,700.00	89.83	359.50	9,385.04	3,356.15	860.75	3,413.06	0.00	0.00	0.00
12,800.00	89.83	359.50	9,385.34	3,456.14	859.87	3,512.68	0.00	0.00	0.00
12,900.00	89.83	359.50	9,385.65	3,556.14	858.99	3,612.30	0.00	0.00	0.00
13,000.00	89.83	359.50	9,385.95	3,656.14	858.11	3,711.93	0.00	0.00	0.00
13,100.00	89.83	359.50	9,386.26	3,756.13	857.24	3,811.55	0.00	0.00	0.00
13,200.00	89.83	359.50	9,386.56	3,856.13	856.36	3,911.17	0.00	0.00	0.00
13,300.00	89.83	359.50	9,386.87	3,956.12	855.48	4,010.79	0.00	0.00	0.00

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13,400.00	89.83	359.50	9,387.17	4,056.12	854.60	4,110.42	0.00	0.00	0.00
13,500.00	89.83	359.50	9,387.48	4,156.11	853.72	4,210.04	0.00	0.00	0.00
13,600.00	89.83	359.50	9,387.78	4,256.11	852.84	4,309.66	0.00	0.00	0.00
13,700.00	89.83	359.50	9,388.09	4,356.11	851.96	4,409.28	0.00	0.00	0.00
13,800.00	89.83	359.50	9,388.39	4,456.10	851.08	4,508.91	0.00	0.00	0.00
13,900.00	89.83	359.50	9,388.70	4,556.10	850.20	4,608.53	0.00	0.00	0.00
14,000.00	89.83	359.50	9,389.00	4,656.09	849.32	4,708.15	0.00	0.00	0.00
14,100.00	89.83	359.50	9,389.31	4,756.09	848.44	4,807.77	0.00	0.00	0.00
14,200.00	89.83	359.50	9,389.61	4,856.08	847.56	4,907.40	0.00	0.00	0.00
14,300.00	89.83	359.50	9,389.92	4,956.08	846.68	5,007.02	0.00	0.00	0.00
14,400.00	89.83	359.50	9,390.22	5,056.07	845.80	5,106.64	0.00	0.00	0.00
14,500.00	89.83	359.50	9,390.53	5,156.07	844.92	5,206.26	0.00	0.00	0.00
14,600.00	89.83	359.50	9,390.83	5,256.07	844.04	5,305.89	0.00	0.00	0.00
14,700.00	89.83	359.50	9,391.14	5,356.06	843.16	5,405.51	0.00	0.00	0.00
14,800.00	89.83	359.50	9,391.44	5,456.06	842.28	5,505.13	0.00	0.00	0.00
14,900.00	89.83	359.50	9,391.75	5,556.05	841.41	5,604.75	0.00	0.00	0.00
15,000.00	89.83	359.50	9,392.05	5,656.05	840.53	5,704.38	0.00	0.00	0.00
15,100.00	89.83	359.50	9,392.36	5,756.04	839.65	5,804.00	0.00	0.00	0.00
15,200.00	89.83	359.50	9,392.66	5,856.04	838.77	5,903.62	0.00	0.00	0.00
15,300.00	89.83	359.50	9,392.97	5,956.04	837.89	6,003.24	0.00	0.00	0.00
15,400.00	89.83	359.50	9,393.27	6,056.03	837.01	6,102.87	0.00	0.00	0.00
15,500.00	89.83	359.50	9,393.58	6,156.03	836.13	6,202.49	0.00	0.00	0.00
15,600.00	89.83	359.50	9,393.88	6,256.02	835.25	6,302.11	0.00	0.00	0.00
15,700.00	89.83	359.50	9,394.19	6,356.02	834.37	6,401.73	0.00	0.00	0.00
15,800.00	89.83	359.50	9,394.49	6,456.01	833.49	6,501.36	0.00	0.00	0.00
15,900.00	89.83	359.50	9,394.80	6,556.01	832.61	6,600.98	0.00	0.00	0.00
16,000.00	89.83	359.50	9,395.10	6,656.01	831.73	6,700.60	0.00	0.00	0.00
16,100.00	89.83	359.50	9,395.41	6,756.00	830.85	6,800.22	0.00	0.00	0.00
16,200.00	89.83	359.50	9,395.71	6,856.00	829.97	6,899.85	0.00	0.00	0.00
16,300.00	89.83	359.50	9,396.02	6,955.99	829.09	6,999.47	0.00	0.00	0.00
16,400.00	89.83	359.50	9,396.32	7,055.99	828.21	7,099.09	0.00	0.00	0.00
16,500.00	89.83	359.50	9,396.63	7,155.98	827.33	7,198.71	0.00	0.00	0.00
16,600.00	89.83	359.50	9,396.93	7,255.98	826.45	7,298.34	0.00	0.00	0.00
16,700.00	89.83	359.50	9,397.24	7,355.98	825.58	7,397.96	0.00	0.00	0.00
16,800.00	89.83	359.50	9,397.54	7,455.97	824.70	7,497.58	0.00	0.00	0.00
16,900.00	89.83	359.50	9,397.85	7,555.97	823.82	7,597.20	0.00	0.00	0.00
17,000.00	89.83	359.50	9,398.15	7,655.96	822.94	7,696.83	0.00	0.00	0.00
17,100.00	89.83	359.50	9,398.46	7,755.96	822.06	7,796.45	0.00	0.00	0.00
17,200.00	89.83	359.50	9,398.76	7,855.95	821.18	7,896.07	0.00	0.00	0.00
17,300.00	89.83	359.50	9,399.07	7,955.95	820.30	7,995.69	0.00	0.00	0.00
17,400.00	89.83	359.50	9,399.37	8,055.95	819.42	8,095.31	0.00	0.00	0.00
17,500.00	89.83	359.50	9,399.68	8,155.94	818.54	8,194.94	0.00	0.00	0.00
17,600.00	89.83	359.50	9,399.98	8,255.94	817.66	8,294.56	0.00	0.00	0.00
17,700.00	89.83	359.50	9,400.29	8,355.93	816.78	8,394.18	0.00	0.00	0.00
17,800.00	89.83	359.50	9,400.59	8,455.93	815.90	8,493.80	0.00	0.00	0.00
17,900.00	89.83	359.50	9,400.90	8,555.92	815.02	8,593.43	0.00	0.00	0.00
18,000.00	89.83	359.50	9,401.20	8,655.92	814.14	8,693.05	0.00	0.00	0.00
18,100.00	89.83	359.50	9,401.51	8,755.91	813.26	8,792.67	0.00	0.00	0.00
18,200.00	89.83	359.50	9,401.81	8,855.91	812.38	8,892.29	0.00	0.00	0.00
18,300.00	89.83	359.50	9,402.12	8,955.91	811.50	8,991.92	0.00	0.00	0.00
18,400.00	89.83	359.50	9,402.42	9,055.90	810.62	9,091.54	0.00	0.00	0.00
18,500.00	89.83	359.50	9,402.73	9,155.90	809.74	9,191.16	0.00	0.00	0.00
18,600.00	89.83	359.50	9,403.03	9,255.89	808.87	9,290.78	0.00	0.00	0.00
18,700.00	89.83	359.50	9,403.34	9,355.89	807.99	9,390.41	0.00	0.00	0.00

Database: USA Compass
Company: COG Operating LLC
Project: Eddy County, NM (NAD27 NME)
Site: Myox 21 State Corn
Well: 38H
Wellbore: OH
Design: Plan 1 10-19-18

Local Co-ordinate Reference: Well 38H
TVD Reference: KB @ 3001.90usft (Ensign 155)
MD Reference: KB @ 3001.90usft (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)
18,800.00	89.83	359.50	9,403.64	9,455.88	807.11	9,490.03	0.00	0.00	0.00
18,900.00	89.83	359.50	9,403.95	9,555.88	806.23	9,589.65	0.00	0.00	0.00
19,000.00	89.83	359.50	9,404.25	9,655.88	805.35	9,689.27	0.00	0.00	0.00
19,100.00	89.83	359.50	9,404.55	9,755.87	804.47	9,788.90	0.00	0.00	0.00
19,200.00	89.83	359.50	9,404.86	9,855.87	803.59	9,888.52	0.00	0.00	0.00
19,300.00	89.83	359.50	9,405.16	9,955.86	802.71	9,988.14	0.00	0.00	0.00
19,400.00	89.83	359.50	9,405.47	10,055.86	801.83	10,087.76	0.00	0.00	0.00
19,500.00	89.83	359.50	9,405.77	10,155.85	800.95	10,187.39	0.00	0.00	0.00
19,573.95	89.83	359.50	9,406.00	10,229.80	800.30	10,261.06	0.00	0.00	0.00
TD at 19573.95									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - Myox 21 State Co	0.00	0.00	9,376.00	137.90	888.80	403,442.50	574,791.60	32° 6' 32.21744 N	104° 5' 30.40882 W
- hit/miss target									
- Shape									
- plan misses target center by 64.62usft at 9500.00usft MD (9317.82 TVD, 166.04 N, 888.81 E)									
- Point									
LTP - Myox 21 State Co	0.00	0.00	9,406.00	10,099.80	801.40	413,404.40	574,704.20	32° 8' 10.80688 N	104° 5' 31.16558 W
- plan misses target center by 0.40usft at 19443.95usft MD (9405.60 TVD, 10099.80 N, 801.44 E)									
- Point									
BHL - Myox 21 State Co	0.00	0.01	9,406.00	10,229.80	800.30	413,534.40	574,703.10	32° 8' 12.09344 N	104° 5' 31.17498 W
- plan hits target center									
- Point									

Plan Annotations

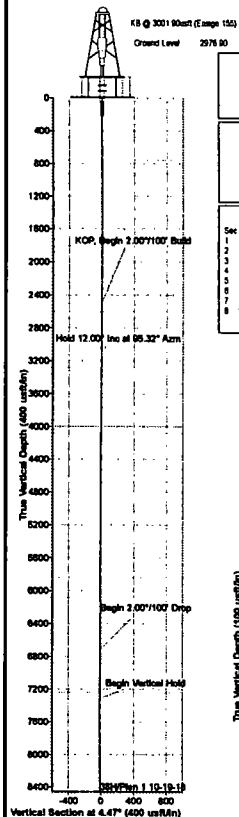
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.00	2,500.00	0.00	0.00	KOP, Begin 2.00°/100' Build
3,099.87	3,095.49	-5.80	62.31	Hold 12.00° Inc at 95.32° Azm
6,802.76	6,717.51	-77.20	828.69	Begin 2.00°/100' Drop
7,402.63	7,313.00	-83.00	891.00	Begin Vertical Hold
8,988.17	8,898.54	-83.00	891.00	KOP2, Begin 12.00°/100' Build
9,736.71	9,376.00	392.99	886.81	LP, Hold 89.82° Inc at 359.50° Azm
19,573.95	9,406.00	10,229.80	800.30	TD at 19573.95



Project: Eddy County, NM (NAD27 NME)
Site: Myox 21 State Com
Well: 38H
Wellbore: OH
Design: Plan 1 10-19-18
Rig: Ensign 155



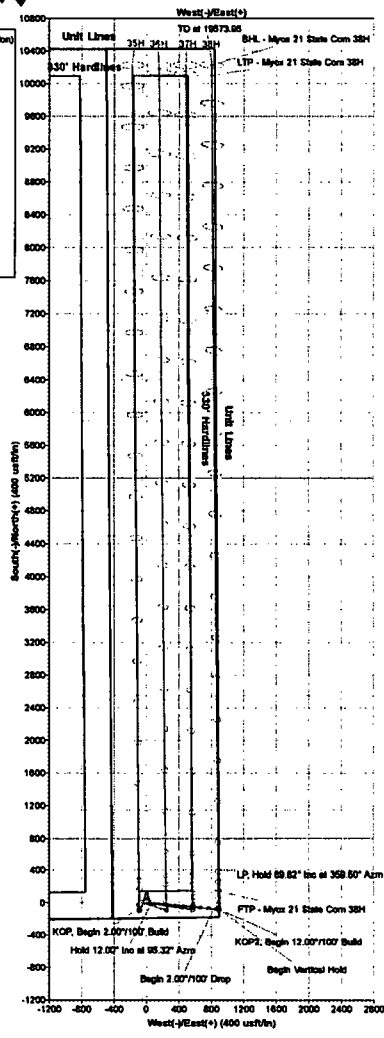
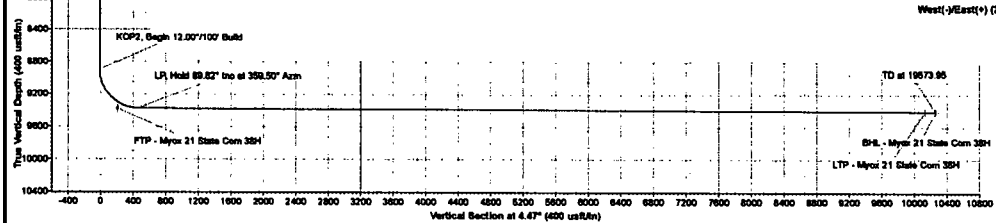
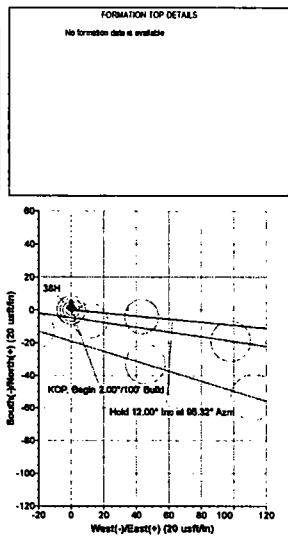
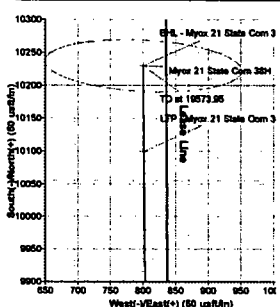
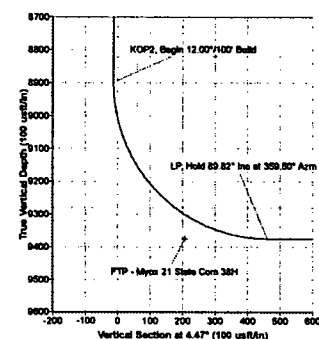
Asimuths to Grid North
True North: -0.1°
Magnetic North: 6.92°
Magnetic Field
Strength: 47916.6nT
Dip Angle: 59.81°
Date: 11/16/2018
Model: MNVD



WELL DETAILS									
						2019 90			
-N-S		+E-W		Northing		Easting		Latitude	
0.00		0.00		403304.60		573902.80		32° 8' 30.87231 N	
								104° 5' 40.74624 W	
DESIGN TARGET DETAILS									
Name		TVD		+N-S		+E-W		Northing	
FTP - Myox 21 State Com 38H		9376.00		117.00		888.80		403442.50	
BHL - Myox 21 State Com 38H		9408.00		10279.80		800.30		413534.40	
LTP - Myox 21 State Com 38H		9408.00		10299.80		801.40		413404.40	
								574704.20	
								32° 8' 10.80888 N	
								104° 5' 31.16588 W	
SECTION DETAILS									
Sec		MD		Inc		Azm		TVD	
1		0.00		0.00		0.00		0.00	
2		2500.00		0.00		0.00		2500.00	
3		3088.87		12.00		95.32		3095.49	
4		6882.76		12.00		95.32		6717.51	
5		7452.62		0.00		0.00		7313.00	
6		8988.17		0.00		0.00		8896.54	
7		9738.71		88.83		358.50		9376.00	
8		19573.95		88.83		358.50		9408.00	
								10279.80	
								800.31	
								17.00	
								359.50	
								480.16	
								10261.08	
BHL - Myox 21 State Com 38H									

Map System: US State Plane 1927 (Erad solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well 38H, Grid North
Latitude: 32° 8' 30.87231 N
Longitude: 104° 5' 40.74624 W
Grid East: 673902.80
Grid North: 403304.60
Scale Factor: 1.000
Geographic Model: MNVD
Sample Date: 15-Nov-18
Magnetic Declination: 7.05°
Dip Angle from Horizontal: 59.81°
Magnetic Field Strength: 47916.6 nT
To convert a Magnetic Direction to a Grid Direction, Add 6.92°
To convert a Magnetic Direction to a True Direction, Add 7.05° East
To convert a True Direction to a Grid Direction, Subtract 0.13°

LEGEND
— 38H, OH, Plan 1 10-19-18 VO
— 38H, OH, Plan 1 10-19-18 VO
— 37H, OH, Plan 1 10-19-18 VO
— Plan 1 10-19-18



Created By: Gustavo Mayo Date: 10/25 October 18 2018