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COG Operating, LLC

Eddy County, NM (NAD 27)

Sec 28 T25S, R28E

Myox 28 State Com #5H

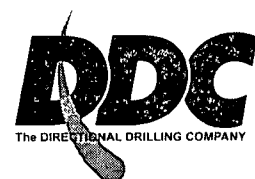
Wellbore #1

Design: Wellbore #1

DDC Survey Report

26 January, 2015

Provide signature page for survey
By 5/22/15





HP
Survey Report



Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Myox 28 State Com #5H
Project:	Eddy County, NM (NAD 27)	TVD Reference:	well @ 2975.0usft (Patterson #79)
Site:	Sec 28 T25S, R28E	MD Reference:	well @ 2975.0usft (Patterson #79)
Well:	Myox 28 State Com #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

Project	Eddy County, NM (NAD 27)		
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	Sec 28 T25S, R28E		
Site Position:		Northing:	402,955.50 usft
From:	Map	Easting:	577,034.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 27.347 N
		Longitude:	104° 5' 4.350 W
		Grid Convergence:	0.13 °

Well	Myox 28 State Com #5H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 6' 27.347 N
		Longitude:	104° 5' 4.350 W
		Ground Level:	2,957.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	1/11/2015	7.37
			Dip Angle
			(°)
			59.90
			Field Strength
			(nT)
			48,137

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			178.80

Survey Program	Date 1/21/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.0	6,533.0	Gyro (Wellbore #1)	Good_gyro
6,533.0	12,739.0	MWD (Wellbore #1)	MWD default
			Description
			Good Gyro
			MWD - Standard

Survey	Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
	100.0	0.36	313.60	100.0	0.2	-0.2	-0.2	0.36	0.36	0.00
	200.0	1.44	311.73	200.0	1.3	-1.4	-1.3	1.08	1.08	-1.87
	300.0	1.81	284.59	299.9	2.5	-3.9	-2.6	0.84	0.37	-27.14
	400.0	1.99	259.50	399.9	2.6	-7.1	-2.7	0.84	0.18	-25.09
	500.0	2.35	239.60	499.8	1.2	-10.6	-1.5	0.83	0.36	-19.90
	600.0	3.20	229.98	599.7	-1.6	-14.5	1.3	0.97	0.85	-9.62
	700.0	1.37	223.08	699.6	-4.3	-17.4	3.9	1.85	-1.83	-6.90
	800.0	1.32	197.03	799.6	-6.2	-18.6	5.9	0.61	-0.05	-26.05
	900.0	1.51	162.11	899.6	-8.6	-18.5	8.2	0.87	0.19	-34.92



HP
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Well:	Myox 28 State Com #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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)
1,000.0	1.71	159.87	999.5	-11.3	-17.6	10.9	0.21	0.20	-2.24
1,100.0	1.93	186.70	1,099.5	-14.3	-17.3	14.0	0.87	0.22	26.83
1,200.0	1.86	182.47	1,199.4	-17.6	-17.5	17.2	0.16	-0.07	-4.23
1,300.0	0.48	228.84	1,299.4	-19.5	-17.9	19.1	1.57	-1.38	46.37
1,400.0	0.48	288.18	1,399.4	-19.7	-18.6	19.3	0.48	0.00	59.34
1,500.0	0.83	306.26	1,499.4	-19.1	-19.6	18.7	0.40	0.35	18.08
1,600.0	1.07	313.48	1,599.4	-18.0	-20.9	17.6	0.27	0.24	7.22
1,700.0	1.08	313.02	1,699.4	-16.7	-22.3	16.3	0.01	0.01	-0.46
1,800.0	0.99	339.07	1,799.3	-15.3	-23.3	14.8	0.47	-0.09	26.05
1,900.0	0.68	352.29	1,899.3	-13.9	-23.6	13.4	0.36	-0.31	13.22
2,000.0	1.16	49.99	1,999.3	-12.7	-22.9	12.2	0.98	0.48	57.70
2,100.0	1.81	71.14	2,099.3	-11.5	-20.7	11.1	0.84	0.65	21.15
2,200.0	2.25	88.74	2,199.2	-10.9	-17.2	10.6	0.76	0.44	17.60
2,300.0	1.94	109.27	2,299.2	-11.5	-13.7	11.2	0.81	-0.31	20.53
2,400.0	0.95	113.71	2,399.1	-12.4	-11.3	12.1	1.00	-0.99	4.44
2,500.0	1.00	170.02	2,499.1	-13.5	-10.4	13.3	0.92	0.05	56.31
2,600.0	0.88	189.42	2,599.1	-15.2	-10.4	14.9	0.34	-0.12	19.40
2,700.0	1.07	183.61	2,699.1	-16.9	-10.6	16.6	0.21	0.19	-5.81
2,800.0	0.83	201.18	2,799.1	-18.5	-10.9	18.2	0.37	-0.24	17.57
2,900.0	1.01	184.83	2,899.1	-20.0	-11.2	19.8	0.32	0.18	-16.35
3,000.0	0.92	209.88	2,999.0	-21.6	-11.7	21.3	0.43	-0.09	25.05
3,100.0	0.78	202.26	3,099.0	-22.9	-12.3	22.7	0.18	-0.14	-7.62
3,200.0	1.05	210.95	3,199.0	-24.3	-13.1	24.1	0.30	0.27	8.69
3,300.0	0.95	218.05	3,299.0	-25.8	-14.1	25.5	0.16	-0.10	7.10
3,400.0	0.73	204.17	3,399.0	-27.0	-14.8	26.7	0.30	-0.22	-13.88
3,500.0	0.81	223.12	3,499.0	-28.1	-15.6	27.8	0.27	0.08	18.95
3,600.0	0.96	224.15	3,599.0	-29.2	-16.6	28.9	0.15	0.15	1.03
3,700.0	0.84	216.83	3,699.0	-30.4	-17.7	30.0	0.17	-0.12	-7.32
3,800.0	0.61	193.49	3,799.0	-31.5	-18.2	31.1	0.37	-0.23	-23.34
3,900.0	0.64	234.10	3,899.0	-32.4	-18.8	32.0	0.43	0.03	40.61
4,000.0	0.56	196.90	3,998.9	-33.2	-19.4	32.7	0.39	-0.08	-37.20
4,100.0	0.58	159.48	4,098.9	-34.1	-19.4	33.7	0.37	0.02	-37.42
4,200.0	0.63	202.52	4,198.9	-35.1	-19.4	34.7	0.45	0.05	43.04
4,300.0	0.60	199.86	4,298.9	-36.1	-19.8	35.7	0.04	-0.03	-2.66
4,400.0	0.51	160.78	4,398.9	-37.0	-19.8	36.6	0.38	-0.09	-39.08
4,500.0	0.78	179.13	4,498.9	-38.1	-19.7	37.7	0.34	0.27	18.35
4,600.0	0.97	167.40	4,598.9	-39.6	-19.5	39.2	0.26	0.19	-11.73
4,700.0	0.97	162.96	4,698.9	-41.2	-19.0	40.8	0.08	0.00	-4.44
4,800.0	1.15	153.07	4,798.9	-42.9	-18.3	42.5	0.26	0.18	-9.89
4,900.0	1.16	152.69	4,898.9	-44.7	-17.4	44.4	0.01	0.01	-0.38
5,000.0	1.12	193.16	4,998.8	-46.6	-17.2	46.2	0.79	-0.04	40.47
5,100.0	1.15	176.30	5,098.8	-48.5	-17.3	48.2	0.33	0.03	-16.86
5,200.0	0.89	156.14	5,198.8	-50.2	-16.9	49.9	0.44	-0.26	-20.16



HP
Survey Report



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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	1.09	170.84	5,298.8	-51.9	-16.5	51.5	0.32	0.20	14.70
5,400.0	0.81	132.53	5,398.8	-53.3	-15.8	53.0	0.68	-0.28	-38.31
5,500.0	1.08	179.69	5,498.8	-54.7	-15.3	54.4	0.80	0.27	47.16
5,600.0	0.98	158.89	5,598.7	-56.5	-15.0	56.1	0.38	-0.10	-20.80
5,700.0	1.06	155.06	5,698.7	-58.1	-14.3	57.8	0.11	0.08	-3.83
5,800.0	1.11	198.05	5,798.7	-59.9	-14.2	59.6	0.80	0.05	42.99
5,900.0	1.26	191.14	5,898.7	-61.9	-14.7	61.5	0.21	0.15	-6.91
6,000.0	1.28	205.50	5,998.7	-64.0	-15.4	63.6	0.32	0.02	14.36
6,100.0	1.49	221.26	6,098.6	-65.9	-16.7	65.6	0.43	0.21	15.76
6,200.0	1.72	237.72	6,198.6	-67.7	-18.8	67.3	0.51	0.23	16.46
6,300.0	2.09	251.68	6,298.5	-69.1	-21.8	68.6	0.59	0.37	13.96
6,400.0	1.98	265.60	6,398.5	-69.8	-25.3	69.3	0.51	-0.11	13.92
6,500.0	2.15	262.82	6,498.4	-70.2	-28.9	69.5	0.20	0.17	-2.78
Tie In @ 6533' MD / 6531' TVD									
6,533.0	2.12	257.03	6,531.4	-70.4	-30.1	69.7	0.66	-0.09	-17.55
6,678.0	1.70	236.80	6,676.3	-72.2	-34.5	71.4	0.54	-0.29	-13.95
6,773.0	1.80	240.70	6,771.3	-73.7	-37.0	72.9	0.16	0.11	4.11
6,868.0	1.90	250.90	6,866.2	-74.9	-39.8	74.1	0.36	0.11	10.74
6,963.0	0.70	257.40	6,961.2	-75.5	-41.8	74.7	1.27	-1.26	6.84
7,058.0	0.90	264.20	7,056.2	-75.8	-43.1	74.8	0.23	0.21	7.16
7,153.0	0.80	264.10	7,151.2	-75.9	-44.5	74.9	0.11	-0.11	-0.11
7,248.0	1.00	259.50	7,246.2	-76.1	-46.0	75.1	0.22	0.21	-4.84
7,343.0	1.20	256.90	7,341.2	-76.5	-47.8	75.5	0.22	0.21	-2.74
7,437.0	1.30	263.70	7,435.1	-76.8	-49.8	75.8	0.19	0.11	7.23
7,532.0	1.80	271.50	7,530.1	-76.9	-52.4	75.8	0.57	0.53	8.21
7,580.0	1.90	259.90	7,578.1	-77.0	-53.9	75.9	0.81	0.21	-24.17
7,628.0	1.60	235.90	7,626.0	-77.5	-55.3	76.4	1.63	-0.63	-50.00
7,659.0	4.80	166.30	7,657.0	-79.0	-55.3	77.9	14.51	10.32	-224.52
7,691.0	9.50	163.20	7,688.7	-82.9	-54.2	81.7	14.73	14.69	-9.69
7,723.0	14.30	162.10	7,720.0	-89.2	-52.2	88.1	15.02	15.00	-3.44
7,754.0	17.90	165.10	7,749.8	-97.4	-49.8	96.4	11.92	11.61	9.68
7,786.0	21.30	168.60	7,780.0	-107.9	-47.4	106.9	11.24	10.63	10.94
7,818.0	24.00	170.60	7,809.5	-120.0	-45.2	119.0	8.77	8.44	6.25
7,849.0	26.60	172.50	7,837.5	-133.1	-43.3	132.2	8.79	8.39	6.13
FTP / 330' Hard Line @ 7866' MD / 7852' TVD									
7,865.5	27.94	173.52	7,852.2	-140.6	-42.4	139.7	8.59	8.11	6.18
7,881.0	29.20	174.40	7,865.8	-148.0	-41.6	147.1	8.59	8.15	5.68
7,912.0	31.60	173.50	7,892.5	-163.6	-39.9	162.7	7.88	7.74	-2.90
7,944.0	34.20	172.10	7,919.4	-180.8	-37.7	180.0	8.46	8.13	-4.38
7,976.0	36.50	170.20	7,945.5	-199.1	-34.9	198.3	7.97	7.19	-5.94
8,007.0	38.70	170.60	7,970.1	-217.7	-31.7	217.0	7.14	7.10	1.29
8,039.0	40.70	173.50	7,994.7	-238.0	-28.9	237.3	8.52	6.25	9.06
8,071.0	43.10	174.60	8,018.5	-259.2	-26.7	258.6	7.84	7.50	3.44
8,102.0	44.80	174.90	8,040.8	-280.7	-24.7	280.1	5.52	5.48	0.97



HP
Survey Report



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Design:	Wellbore #1	Database:	Compass

Survey										
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8,134.0	47.30	176.00	8,063.0	-303.6	-22.9	303.1	8.19	7.81	3.44	
8,166.0	51.70	178.60	8,083.8	-327.9	-21.8	327.4	15.07	13.75	8.13	
8,197.0	55.90	180.80	8,102.1	-352.9	-21.7	352.4	14.71	13.55	7.10	
8,229.0	59.40	181.10	8,119.2	-380.0	-22.1	379.4	10.97	10.94	0.94	
8,261.0	62.60	180.20	8,134.7	-407.9	-22.4	407.4	10.30	10.00	-2.81	
8,292.0	65.50	179.50	8,148.3	-435.8	-22.4	435.2	9.57	9.35	-2.26	
8,324.0	68.40	178.50	8,160.8	-465.2	-21.8	464.7	9.51	9.06	-3.13	
8,362.0	71.20	178.50	8,174.0	-500.9	-20.9	500.3	7.37	7.37	0.00	
8,393.0	74.00	178.10	8,183.2	-530.5	-20.0	529.9	9.12	9.03	-1.29	
8,425.0	75.80	178.10	8,191.6	-561.3	-19.0	560.8	5.63	5.63	0.00	
8,457.0	78.50	180.60	8,198.7	-592.5	-18.7	592.0	11.37	8.44	7.81	
8,488.0	81.40	180.20	8,204.1	-623.1	-18.9	622.5	9.44	9.35	-1.29	
8,520.0	84.40	182.00	8,208.0	-654.8	-19.5	654.2	10.91	9.38	5.63	
8,551.0	86.90	180.90	8,210.4	-685.7	-20.3	685.1	8.81	8.06	-3.55	
8,583.0	88.50	181.40	8,211.7	-717.7	-20.9	717.1	5.24	5.00	1.56	
8,615.0	89.20	182.90	8,212.3	-749.6	-22.1	749.0	5.17	2.19	4.69	
8,647.0	91.10	180.40	8,212.2	-781.6	-23.0	781.0	9.81	5.94	-7.81	
8,710.0	92.00	182.00	8,210.5	-844.6	-24.3	843.9	2.91	1.43	2.54	
8,804.0	93.00	181.10	8,206.4	-938.4	-26.9	937.7	1.43	1.06	-0.96	
8,899.0	92.00	181.30	8,202.3	-1,033.3	-28.9	1,032.5	1.07	-1.05	0.21	
8,993.0	90.70	179.50	8,200.1	-1,127.3	-29.5	1,126.4	2.36	-1.38	-1.91	
9,087.0	91.50	179.30	8,198.3	-1,221.3	-28.5	1,220.4	0.88	0.85	-0.21	
9,182.0	93.00	179.30	8,194.5	-1,316.2	-27.4	1,315.3	1.58	1.58	0.00	
9,276.0	91.50	179.50	8,190.8	-1,410.1	-26.4	1,409.2	1.61	-1.60	0.21	
9,370.0	90.70	177.60	8,189.0	-1,504.1	-24.0	1,503.2	2.19	-0.85	-2.02	
9,465.0	91.80	179.20	8,187.0	-1,599.0	-21.4	1,598.2	2.04	1.16	1.68	
9,560.0	90.90	177.10	8,184.7	-1,693.9	-18.3	1,693.2	2.40	-0.95	-2.21	
9,655.0	92.20	178.50	8,182.2	-1,788.8	-14.7	1,788.1	2.01	1.37	1.47	
9,749.0	90.90	177.80	8,179.6	-1,882.7	-11.6	1,882.1	1.57	-1.38	-0.74	
9,844.0	91.80	177.10	8,177.4	-1,977.6	-7.4	1,977.0	1.20	0.95	-0.74	
9,939.0	90.40	176.90	8,175.6	-2,072.4	-2.4	2,071.9	1.49	-1.47	-0.21	
10,033.0	92.00	177.60	8,173.6	-2,166.3	2.1	2,165.9	1.86	1.70	0.74	
10,128.0	90.10	175.80	8,171.9	-2,261.1	7.6	2,260.8	2.75	-2.00	-1.89	
10,222.0	90.80	176.50	8,171.1	-2,354.9	13.9	2,354.7	1.05	0.74	0.74	
10,316.0	92.30	176.70	8,168.6	-2,448.7	19.4	2,448.6	1.61	1.60	0.21	
10,411.0	91.10	176.90	8,165.8	-2,543.5	24.7	2,543.5	1.28	-1.26	0.21	
10,505.0	89.70	177.60	8,165.1	-2,637.4	29.2	2,637.4	1.67	-1.49	0.74	
10,600.0	90.80	178.10	8,164.7	-2,732.3	32.8	2,732.4	1.27	1.16	0.53	
10,695.0	89.40	177.10	8,164.5	-2,827.3	36.8	2,827.4	1.81	-1.47	-1.05	
10,790.0	90.00	177.40	8,165.0	-2,922.1	41.3	2,922.4	0.71	0.63	0.32	
10,885.0	91.10	177.40	8,164.1	-3,017.0	45.7	3,017.3	1.16	1.16	0.00	
10,980.0	88.90	178.30	8,164.1	-3,112.0	49.2	3,112.3	2.50	-2.32	0.95	
11,075.0	87.50	178.10	8,167.1	-3,206.9	52.2	3,207.3	1.49	-1.47	-0.21	



HP
Survey Report



Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Myox 28 State Com #5H
Project:	Eddy County, NM (NAD 27)	TVD Reference:	well @ 2975.0usft (Patterson #79)
Site:	Sec 28 T25S, R28E	MD Reference:	well @ 2975.0usft (Patterson #79)
Well:	Myox 28 State Com #5H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	Compass

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)	
11,169.0	88.80	178.50	8,170.1	-3,300.8	55.0	3,301.2	1.45	1.38	0.43	
11,265.0	90.80	177.90	8,170.5	-3,396.7	58.0	3,397.2	2.18	2.08	-0.63	
11,358.0	92.80	178.50	8,167.5	-3,489.6	60.9	3,490.1	2.25	2.15	0.65	
11,452.0	92.50	176.70	8,163.2	-3,583.4	64.9	3,584.0	1.94	-0.32	-1.91	
11,547.0	93.50	176.90	8,158.2	-3,678.2	70.1	3,678.8	1.07	1.05	0.21	
11,641.0	94.30	176.00	8,151.8	-3,771.8	76.0	3,772.5	1.28	0.85	-0.96	
11,736.0	92.90	176.90	8,145.9	-3,866.4	81.8	3,867.3	1.75	-1.47	0.95	
11,831.0	91.20	178.10	8,142.5	-3,961.2	86.0	3,962.2	2.19	-1.79	1.26	
11,926.0	92.60	176.20	8,139.3	-4,056.1	90.7	4,057.1	2.48	1.47	-2.00	
12,021.0	91.40	177.80	8,136.0	-4,150.9	95.7	4,152.0	2.10	-1.26	1.68	
12,116.0	89.30	176.90	8,135.4	-4,245.8	100.0	4,246.9	2.40	-2.21	-0.95	
12,211.0	90.80	177.40	8,135.3	-4,340.6	104.8	4,341.9	1.66	1.58	0.53	
12,305.0	92.10	177.90	8,132.9	-4,434.5	108.6	4,435.8	1.48	1.38	0.53	
12,399.0	93.50	176.40	8,128.4	-4,528.3	113.3	4,529.7	2.18	1.49	-1.60	
12,494.0	92.20	175.80	8,123.6	-4,622.9	119.7	4,624.4	1.51	-1.37	-0.63	
12,588.0	90.80	176.50	8,121.2	-4,716.7	126.1	4,718.3	1.67	-1.49	0.74	
12,682.0	90.50	179.50	8,120.1	-4,810.6	129.3	4,812.3	3.21	-0.32	3.19	
TD @ 12739' MD / 8120' TVD										
12,739.0	90.50	179.50	8,119.6	-4,867.6	129.8	4,869.3	0.00	0.00	0.00	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,533.0	6,531.4	-70.4	-30.1	Tie In @ 6533' MD / 6531' TVD
7,865.5	7,852.2	-140.6	-42.4	FTP / 330' Hard Line @ 7866' MD / 7852' TVD
12,739.0	8,119.6	-4,867.6	129.8	TD @ 12739' MD / 8120' TVD

Checked By: _____	Approved By: _____	Date: _____
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