



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 23 2016

RECEIVED

July 26, 2016

Concho Resources, Inc.
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

15-43706

Attn: Kanicia Castillo


RE: Myox 5 State Com No. 022H

Please find enclosed a copy of the survey from 0' to 8730' ran on the above referenced well.

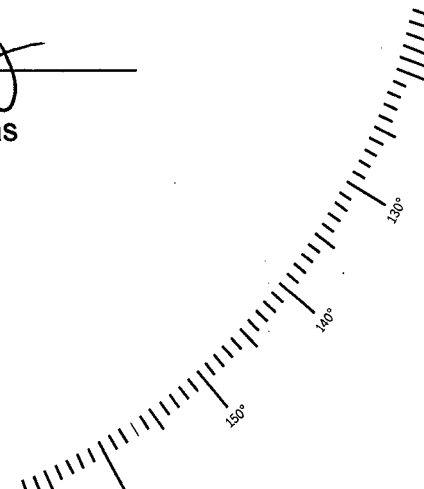
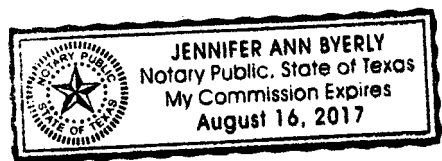
Sincerely, 
Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 26th day of July, A.D., 2016, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas

VES Survey International
P.O. Box 261021, Corpus Christi, Texas 78426
T (361) 767-0602 F (361) 767-0612
www.vessurvey.com

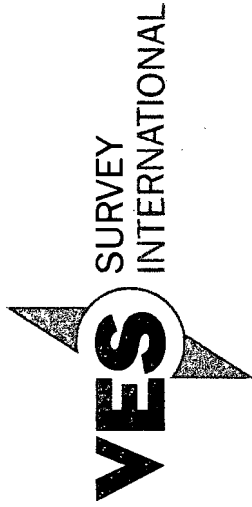




Company: COG Operating LLC
 Lease/Well: Myox 5 State Com No./022H

Rig Name: Latshaw 44
 State/County: New Mexico/Eddy
 VS-Azi: 0.00 Degrees

Latitude: 32.06489, Longitude: -104.10780
 Grid North = True North -0.65 degs (NAD 27)
 Grid Correction Applied = -0.65 degs



Depth Reference : RKB = 25 Foot

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey-de_01.ut
 Minimum Curvature Method
 Report Date/Time: 7/26/2016 / 08:42

VES Survey International
 Midland, Tx
 (432) 563-5444

Surveyor: Gene Heiss

Myox 5 State Com No. 022H / API 30-015-43706

NM OIL CONSERVATION
 ARTESIA DISTRICT

NOV 23 2016

RECEIVED

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.73	203.79	100.00	-0.58	-0.26	-0.58	0.64	203.79	0.73
200.00	0.79	182.48	199.99	-1.85	-0.54	-1.85	1.93	196.34	0.29
300.00	0.21	71.80	299.99	-2.49	-0.40	-2.49	2.52	189.20	0.88
400.00	0.62	2.17	399.98	-1.89	-0.21	-1.89	1.90	186.39	0.58
500.00	0.39	337.65	499.98	-1.04	-0.32	-1.04	1.09	197.11	0.31
600.00	0.60	330.09	599.98	-0.27	-0.71	-0.27	0.76	248.80	0.22
700.00	0.56	307.53	699.97	0.47	-1.35	0.47	1.43	289.24	0.23
800.00	0.50	279.29	799.97	0.84	-2.17	0.84	2.32	291.12	0.26
900.00	0.42	241.82	899.96	0.73	-2.93	0.73	3.02	284.07	0.31
1000.00	0.96	220.82	999.96	-0.07	-3.80	-0.07	3.80	268.87	0.58
1100.00	0.95	217.83	1099.94	-1.36	-4.85	-1.36	5.04	254.34	0.05
1200.00	0.95	218.25	1199.93	-2.66	-5.87	-2.66	6.45	245.62	0.01
1300.00	1.30	230.05	1299.91	-4.04	-7.25	-4.04	8.30	240.89	0.42
1400.00	0.91	248.93	1399.89	-5.05	-8.86	-5.05	10.19	240.32	0.53
1500.00	0.61	303.61	1499.88	-5.04	-10.03	-5.04	11.23	243.33	0.74
1600.00	1.00	351.72	1599.87	-3.88	-10.60	-3.88	11.29	249.87	0.75

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1700.00	1.44	15.09	1699.85	-1.81	-10.40	-1.81	10.55	260.13	0.66
1800.00	1.73	31.40	1799.81	0.69	-9.28	0.69	9.31	274.27	0.54
1900.00	1.99	50.98	1899.76	3.07	-7.15	3.07	7.78	293.28	0.68
2000.00	2.46	70.72	1999.69	4.88	-3.77	4.88	6.17	322.25	0.89
2100.00	2.94	82.12	2099.58	5.94	0.79	5.94	5.99	7.60	0.72
2200.00	3.12	84.19	2199.44	6.56	6.04	6.56	8.92	42.62	0.21
2300.00	2.91	82.46	2299.30	7.17	11.26	7.17	13.35	57.51	0.23
2400.00	2.12	86.35	2399.20	7.62	15.62	7.62	17.38	63.99	0.80
2500.00	1.70	93.14	2499.15	7.66	18.95	7.66	20.44	68.00	0.47
2600.00	1.85	85.86	2599.10	7.69	22.05	7.69	23.36	70.77	0.27
2700.00	1.74	88.28	2699.05	7.86	25.18	7.86	26.37	72.67	0.14
2800.00	1.75	87.07	2799.00	7.98	28.22	7.98	29.32	74.21	0.04
2900.00	1.40	98.05	2898.97	7.89	30.95	7.89	31.94	75.71	0.46
3000.00	1.29	89.51	2998.94	7.73	33.29	7.73	34.17	76.93	0.23
3100.00	1.21	93.66	3098.91	7.67	35.46	7.67	36.28	77.80	0.12
3200.00	1.04	99.72	3198.90	7.45	37.42	7.45	38.15	78.74	0.20
3300.00	0.76	94.94	3298.88	7.23	38.98	7.23	39.64	79.48	0.29
3400.00	0.52	84.76	3398.88	7.22	40.09	7.22	40.74	79.79	0.27
3500.00	0.55	82.92	3498.87	7.32	41.02	7.32	41.66	79.88	0.04
3600.00	0.40	81.95	3598.87	7.43	41.83	7.43	42.49	79.93	0.15
3700.00	0.60	91.51	3698.86	7.46	42.70	7.46	43.34	80.09	0.22
3800.00	0.31	102.83	3798.86	7.39	43.49	7.39	44.11	80.36	0.30
3900.00	0.31	107.26	3898.86	7.25	44.01	7.25	44.60	80.65	0.03
4000.00	0.18	111.28	3998.86	7.11	44.41	7.11	44.97	80.90	0.13
4100.00	0.11	138.45	4098.86	6.98	44.62	6.98	45.16	81.11	0.09
4200.00	0.36	175.24	4198.86	6.59	44.71	6.59	45.19	81.61	0.27
4300.00	0.40	188.68	4298.86	5.94	44.68	5.94	45.08	82.43	0.10
4400.00	0.31	191.73	4398.85	5.32	44.57	5.32	44.89	83.19	0.09
4500.00	0.37	210.50	4498.85	4.78	44.36	4.78	44.61	83.85	0.12
4600.00	0.50	199.14	4598.85	4.09	44.05	4.09	44.24	84.69	0.16
4700.00	0.29	188.06	4698.85	3.43	43.87	3.43	44.00	85.54	0.22
4800.00	0.36	178.10	4798.85	2.86	43.84	2.86	43.94	86.27	0.09
4900.00	0.43	161.50	4898.84	2.19	43.98	2.19	44.03	87.15	0.14
5000.00	0.67	183.34	4998.84	1.25	44.06	1.25	44.08	88.38	0.31
5100.00	0.60	153.51	5098.83	0.20	44.26	0.20	44.26	89.74	0.33
5200.00	0.65	158.96	5198.83	-0.80	44.70	-0.80	44.70	91.03	0.08
5300.00	0.69	152.99	5298.82	-1.87	45.17	-1.87	45.21	92.37	0.08
5400.00	0.66	154.67	5398.81	-2.93	45.70	-2.93	45.79	93.67	0.03
5500.00	0.85	150.07	5498.80	-4.09	46.31	-4.09	46.49	95.05	0.19

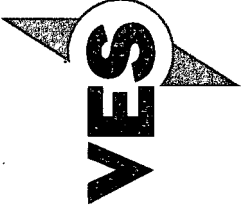
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N-S FT	+E/W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5600.00	1.00	154.43	5598.79	-5.52	47.06	-5.52	47.38	96.70	0.17
5700.00	1.30	160.35	5698.77	-7.38	47.82	-7.38	48.39	98.78	0.32
5800.00	1.26	162.13	5798.75	-9.50	48.54	-9.50	49.46	101.07	0.06
5900.00	1.45	165.01	5898.72	-11.76	49.20	-11.76	50.59	103.45	0.21
6000.00	1.54	174.40	5998.68	-14.32	49.66	-14.32	51.68	106.09	0.26
6100.00	1.57	181.50	6098.65	-17.03	49.76	-17.03	52.59	108.90	0.20
6200.00	1.53	178.18	6198.61	-19.74	49.76	-19.74	53.53	111.64	0.10
6300.00	1.64	174.69	6298.57	-22.50	49.94	-22.50	54.77	114.26	0.15
6400.00	1.61	172.35	6398.53	-25.32	50.26	-25.32	56.27	116.74	0.07
6500.00	1.48	169.75	6498.50	-27.98	50.67	-27.98	57.89	118.91	0.14
6600.00	1.28	175.19	6598.47	-30.37	51.00	-30.37	59.35	120.77	0.24
6700.00	1.14	178.70	6698.44	-32.47	51.11	-32.47	60.55	122.43	0.15
6800.00	1.13	192.09	6798.42	-34.43	50.93	-34.43	61.48	124.06	0.27
6900.00	0.46	201.60	6898.41	-35.77	50.57	-35.77	61.94	125.27	0.68
7000.00	0.54	208.47	6998.41	-36.55	50.20	-36.55	62.10	126.06	0.10
7100.00	0.70	216.62	7098.40	-37.45	49.62	-37.45	62.17	127.05	0.18
7200.00	1.01	192.68	7198.39	-38.80	49.06	-38.80	62.55	128.34	0.47
7300.00	1.24	193.98	7298.37	-40.71	48.61	-40.71	63.40	129.95	0.23
7400.00	1.27	190.06	7398.35	-42.85	48.15	-42.85	64.46	131.67	0.09
7500.00	1.73	188.33	7498.32	-45.44	47.74	-45.44	65.90	133.58	0.46
7600.00	2.29	187.69	7598.25	-48.91	47.25	-48.91	68.01	135.98	0.56
7700.00	3.26	189.64	7698.14	-53.69	46.51	-53.69	71.03	139.10	0.98
7800.00	3.30	183.65	7797.97	-59.36	45.85	-59.36	75.01	142.32	0.35
7900.00	3.17	185.87	7897.81	-64.99	45.38	-64.99	79.27	145.07	0.18
8000.00	3.13	188.52	7997.66	-70.44	44.70	-70.44	83.43	147.61	0.15
8100.00	2.83	188.70	8097.53	-75.59	43.92	-75.59	87.42	149.84	0.30
8200.00	2.81	186.35	8197.41	-80.47	43.27	-80.47	91.36	151.73	0.12
8300.00	2.70	183.22	8297.29	-85.25	42.87	-85.25	95.42	153.30	0.18
8400.00	2.33	185.03	8397.19	-89.63	42.56	-89.63	99.22	154.60	0.38
8500.00	2.38	171.81	8497.11	-93.71	42.68	-93.71	102.97	155.51	0.55
8600.00	2.57	170.62	8597.02	-97.98	43.34	-97.98	107.14	156.14	0.19
8730.00	2.54	152.87	8726.89	-103.43	45.13	-103.43	112.84	156.43	0.61



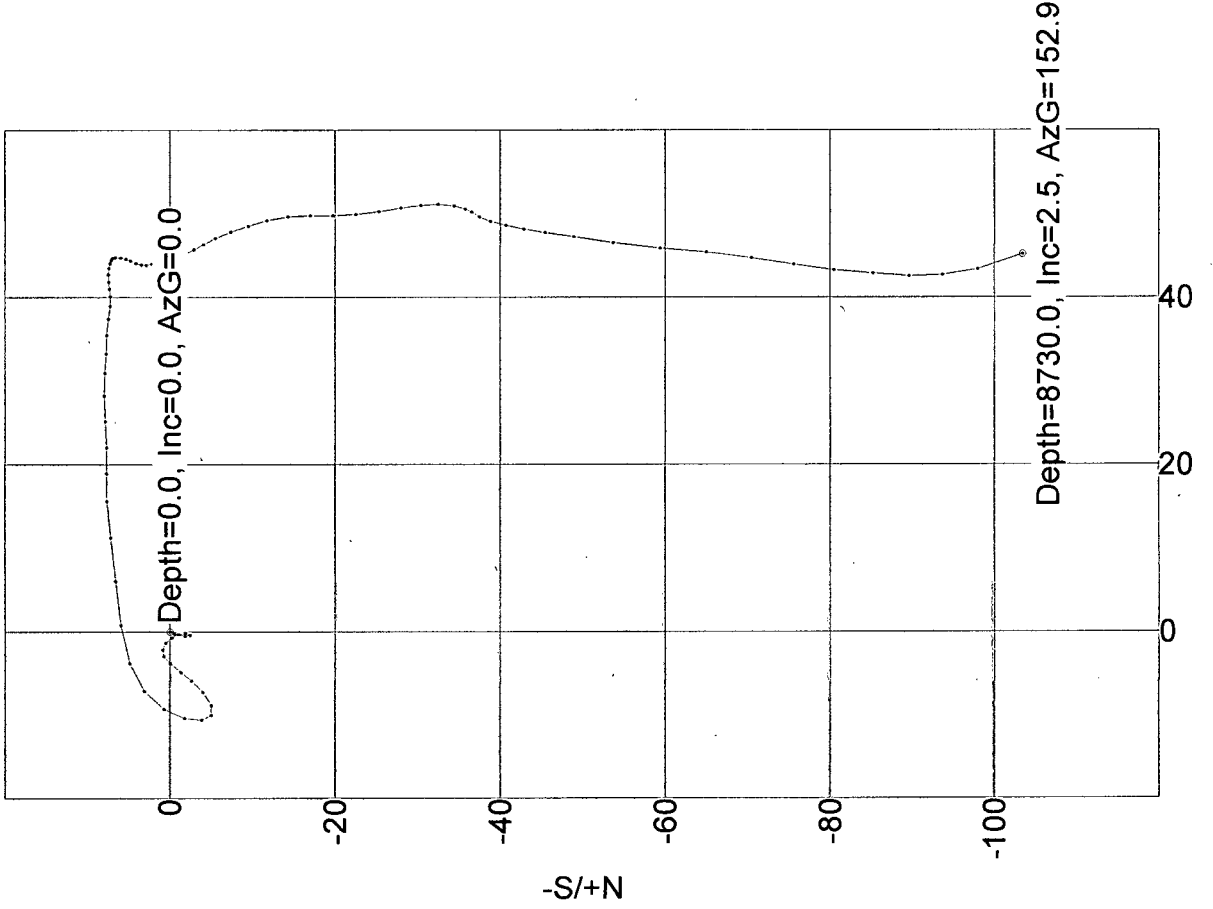
VES Survey International
Midland, Tx
(432) 563-5444

Surveyor: Gene Heiss

Myox 5 State Com No. 022H / API 30-015-43706



SURVEY
INTERNATIONAL



VES Survey Date: 7/20/2016



I Gene Heiss certify that I am employed by VES Survey International. That I did on the day(s) of 07/20/16 through 07/20/16 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 8,730.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of Concho for the Myox 5 State Com Well # 22H API # 30-015-43706 in Eddy County / Parish Texas; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.

A handwritten signature in cursive script, appearing to read "Gene Heiss", is written over a horizontal line.

Gene Heiss
Service Technician
VES Survey International



NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 23 2016

RECEIVED

COG Operating LLC

Eddy County, NM (NAD-27 2015)

Myox 5 State Com #22H

Myox 5 State Com #22H

Lateral #1

Design: Lateral #1

Standard Survey Report

08 August, 2016





Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD:27 2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User.Db

Project:	Eddy County, NM (NAD-27-2015)		
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 5 State Com #22H				
Site Position:		Northing:	387,405.30 usft	Latitude:	32° 3' 53.611 N
From:	Map	Easting:	569,864.30 usft	Longitude:	104° 6' 28.087 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in	Grid Convergence:	0.12 °

Well:	Myox 5 State Com #22H					
Well Position	+N-S	0.00 usft	Northing:	387,405.30 usft	Latitude:	32° 3' 53.611 N
	+E-W	0.00 usft	Easting:	569,864.30 usft	Longitude:	104° 6' 28.087 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,054.50 usft

Wellbore:	Lateral #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	06/29/16	(°)	(°)	(nT)
			7.29	59.84	47,887

Design:	Lateral #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	0.19	

Survey Program	Date	08/08/16			
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	8,730.00	VES Gyro #1 (Lateral #1)	VES-ISCWSA-GYRO-3	Biaxial Semi-Cont. Gyro	
8,837.00	19,587.00	TDS MWD #2 (Lateral #1)	MWD	MWD - Standard	

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
100.00	0.73	203.79	100.00	-0.58	-0.26	-0.58	0.73	0.73	0.00
200.00	0.79	182.48	199.99	-1.85	-0.54	-1.86	0.29	0.06	-21.31
300.00	0.21	71.80	299.99	-2.49	-0.40	-2.49	0.89	-0.58	-110.68
400.00	0.62	2.17	399.98	-1.89	-0.20	-1.89	0.58	0.41	-69.63
500.00	0.39	337.65	499.98	-1.03	-0.31	-1.03	0.31	-0.23	-24.52
600.00	0.60	330.09	599.98	-0.26	-0.70	-0.27	0.22	0.21	-7.56
700.00	0.56	307.53	699.97	0.49	-1.35	0.48	0.23	-0.04	-22.56
800.00	0.50	279.29	799.97	0.86	-2.17	0.85	0.27	-0.06	-28.24
900.00	0.42	241.82	899.96	0.75	-2.92	0.74	0.31	-0.08	-37.47

Company:	GOG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD-27-2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000-1 Single User Db

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)
1,000.00	0.96	220.82	999.96	-0.05	-3.80	-0.07	0.59	0.54	-21.00
1,100.00	0.95	217.83	1,099.94	-1.34	-4.85	-1.36	0.05	-0.01	-2.99
1,200.00	0.95	218.25	1,199.93	-2.65	-5.87	-2.67	0.01	0.00	0.42
1,300.00	1.30	230.05	1,299.91	-4.03	-7.26	-4.05	0.42	0.35	11.80
1,400.00	0.91	248.93	1,399.89	-5.04	-8.87	-5.07	0.53	-0.39	18.88
1,500.00	0.61	303.61	1,499.88	-5.03	-10.05	-5.07	0.75	-0.30	54.68
1,600.00	1.00	351.72	1,599.87	-3.87	-10.62	-3.91	0.75	0.39	48.11
1,700.00	1.44	15.09	1,699.85	-1.80	-10.42	-1.83	0.66	0.44	23.37
1,800.00	1.73	31.40	1,799.81	0.70	-9.30	0.67	0.53	0.29	16.31
1,900.00	1.99	50.98	1,899.76	3.09	-7.17	3.06	0.68	0.26	19.58
2,000.00	2.46	70.72	1,999.69	4.89	-3.79	4.87	0.89	0.47	19.74
2,100.00	2.94	82.12	2,099.58	5.95	0.77	5.95	0.72	0.48	11.40
2,200.00	3.12	84.19	2,199.44	6.57	6.02	6.59	0.21	0.18	2.07
2,300.00	2.91	82.46	2,299.30	7.18	11.24	7.22	0.23	-0.21	-1.73
2,400.00	2.12	86.35	2,399.20	7.63	15.61	7.69	0.81	-0.79	3.89
2,500.00	1.70	93.14	2,499.15	7.67	18.93	7.73	0.48	-0.42	6.79
2,600.00	1.85	85.86	2,599.10	7.71	22.02	7.78	0.27	0.15	-7.28
2,700.00	1.74	88.28	2,699.05	7.87	25.15	7.95	0.13	-0.11	2.42
2,800.00	1.75	87.07	2,799.00	7.99	28.19	8.08	0.04	0.01	-1.21
2,900.00	1.40	98.05	2,898.97	7.90	30.93	8.00	0.46	-0.35	10.98
3,000.00	1.29	89.51	2,998.94	7.74	33.26	7.85	0.23	-0.11	-8.54
3,100.00	1.21	93.66	3,098.91	7.68	35.44	7.80	0.12	-0.08	4.15
3,200.00	1.04	99.72	3,198.89	7.46	37.39	7.58	0.21	-0.17	6.06
3,300.00	0.76	94.94	3,298.88	7.25	38.95	7.38	0.29	-0.28	-4.78
3,400.00	0.52	84.76	3,398.88	7.23	40.06	7.37	0.26	-0.24	-10.18
3,500.00	0.55	82.92	3,498.87	7.33	40.99	7.47	0.03	0.03	-1.84
3,600.00	0.40	81.95	3,598.87	7.44	41.81	7.58	0.15	-0.15	-0.97
3,700.00	0.60	91.51	3,698.86	7.48	42.68	7.62	0.22	0.20	9.56
3,800.00	0.31	102.83	3,798.86	7.40	43.46	7.55	0.30	-0.29	11.32
3,900.00	0.31	107.26	3,898.86	7.26	43.99	7.41	0.02	0.00	4.43
4,000.00	0.18	111.28	3,998.86	7.12	44.39	7.27	0.13	-0.13	4.02
4,100.00	0.11	138.45	4,098.86	7.00	44.60	7.14	0.10	-0.07	27.17
4,200.00	0.36	175.24	4,198.86	6.61	44.69	6.76	0.28	0.25	36.79
4,300.00	0.40	188.68	4,298.86	5.95	44.66	6.10	0.10	0.04	13.44
4,400.00	0.31	191.73	4,398.85	5.34	44.56	5.49	0.09	-0.09	3.05
4,500.00	0.37	210.50	4,498.85	4.80	44.34	4.95	0.13	0.06	18.77
4,600.00	0.50	199.14	4,598.85	4.11	44.03	4.26	0.16	0.13	-11.36
4,700.00	0.29	188.06	4,698.85	3.45	43.85	3.59	0.22	-0.21	-11.08
4,800.00	0.36	178.10	4,798.84	2.88	43.83	3.03	0.09	0.07	-9.96
4,900.00	0.43	161.50	4,898.84	2.21	43.96	2.36	0.13	0.07	-16.60
5,000.00	0.67	183.34	4,998.84	1.27	44.04	1.42	0.31	0.24	21.84
5,100.00	0.60	153.51	5,098.83	0.22	44.24	0.37	0.33	-0.07	-29.83
5,200.00	0.65	158.96	5,198.83	-0.78	44.68	-0.63	0.08	0.05	5.45



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD-27 2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User.Db

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)
5,300.00	0.69	152.99	5,298.82	-1.84	45.16	-1.69	0.08	0.04	-5.97
5,400.00	0.66	154.67	5,398.81	-2.90	45.68	-2.75	0.04	-0.03	1.68
5,500.00	0.85	150.07	5,498.80	-4.06	46.29	-3.91	0.20	0.19	-4.60
5,600.00	1.00	154.43	5,598.79	-5.49	47.04	-5.34	0.17	0.15	4.36
5,700.00	1.30	160.35	5,698.77	-7.35	47.80	-7.19	0.32	0.30	5.92
5,800.00	1.26	162.13	5,798.75	-9.46	48.52	-9.30	0.06	-0.04	1.78
5,900.00	1.45	165.01	5,898.72	-11.73	49.18	-11.57	0.20	0.19	2.88
6,000.00	1.54	174.40	5,998.68	-14.29	49.64	-14.13	0.26	0.09	9.39
6,100.00	1.57	181.50	6,098.65	-17.00	49.73	-16.83	0.19	0.03	7.10
6,200.00	1.53	178.18	6,198.61	-19.70	49.74	-19.54	0.10	-0.04	-3.32
6,300.00	1.64	174.69	6,298.57	-22.46	49.92	-22.30	0.15	0.11	-3.49
6,400.00	1.61	172.35	6,398.53	-25.28	50.23	-25.11	0.07	-0.03	-2.34
6,500.00	1.48	169.75	6,498.50	-27.94	50.65	-27.77	0.15	-0.13	-2.60
6,600.00	1.28	175.19	6,598.47	-30.33	50.97	-30.16	0.24	-0.20	5.44
6,700.00	1.14	178.70	6,698.44	-32.43	51.09	-32.26	0.16	-0.14	3.51
6,800.00	1.13	192.09	6,798.42	-34.39	50.91	-34.22	0.26	-0.01	13.39
6,900.00	0.46	201.60	6,898.41	-35.73	50.55	-35.56	0.68	-0.67	9.51
7,000.00	0.54	208.47	6,998.41	-36.52	50.18	-36.35	0.10	0.08	6.87
7,100.00	0.70	216.62	7,098.40	-37.42	49.59	-37.26	0.18	0.16	8.15
7,200.00	1.01	192.68	7,198.39	-38.77	49.03	-38.61	0.47	0.31	-23.94
7,300.00	1.24	193.98	7,298.37	-40.68	48.58	-40.52	0.23	0.23	1.30
7,400.00	1.27	190.06	7,398.35	-42.82	48.12	-42.66	0.09	0.03	-3.92
7,500.00	1.73	188.33	7,498.32	-45.41	47.71	-45.25	0.46	0.46	-1.73
7,600.00	2.29	187.69	7,598.25	-48.88	47.23	-48.72	0.56	0.56	-0.64
7,700.00	3.26	189.64	7,698.14	-53.66	46.48	-53.51	0.97	0.97	1.95
7,800.00	3.30	183.65	7,797.97	-59.34	45.82	-59.19	0.34	0.04	-5.99
7,900.00	3.17	185.87	7,897.81	-64.96	45.36	-64.81	0.18	-0.13	2.22
8,000.00	3.13	188.52	7,997.66	-70.41	44.67	-70.26	0.15	-0.04	2.65
8,100.00	2.83	188.70	8,097.53	-75.55	43.89	-75.41	0.30	-0.30	0.18
8,200.00	2.81	186.35	8,197.41	-80.43	43.25	-80.29	0.12	-0.02	-2.35
8,300.00	2.70	183.22	8,297.29	-85.22	42.84	-85.07	0.19	-0.11	-3.13
8,400.00	2.33	185.03	8,397.19	-89.59	42.53	-89.45	0.38	-0.37	1.81
8,500.00	2.38	171.81	8,497.11	-93.67	42.65	-93.53	0.54	0.05	-13.22
8,600.00	2.57	170.62	8,597.02	-97.94	43.31	-97.80	0.20	0.19	-1.19
8,730.00	2.54	152.87	8,726.89	-103.38	45.10	-103.23	0.61	-0.02	-13.65
8,837.00	2.20	156.90	8,833.80	-107.38	46.99	-107.22	0.35	-0.32	3.77
First TDS MWD Survey									
8,900.00	2.00	154.20	8,896.76	-109.48	47.94	-109.32	0.35	-0.32	-4.29
8,931.00	1.90	152.60	8,927.74	-110.42	48.41	-110.26	0.37	-0.32	-5.16
8,963.00	0.80	13.50	8,959.73	-110.68	48.71	-110.52	8.00	-3.44	-434.69
8,995.00	5.00	355.00	8,991.68	-109.07	48.64	-108.91	13.28	13.13	-57.81
9,026.00	8.90	352.80	9,022.45	-105.35	48.22	-105.18	12.61	12.58	-7.10
9,058.00	13.10	353.70	9,053.86	-99.28	47.51	-99.12	13.14	13.13	2.81



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well: Myox 5 State Com #22H
Project:	Eddy County, NM (NAD-27 2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000.1 Single User.Db

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)
9,089.00	16.80	355.00	9,083.80	-91.32	46.74	-91.17	11.98	11.94	4.19
9,121.00	20.00	354.10	9,114.16	-81.27	45.77	-81.12	10.04	10.00	-2.81
9,152.00	23.40	354.00	9,142.96	-69.87	44.58	-69.72	10.97	10.97	-0.32
9,184.00	26.90	353.80	9,171.92	-56.35	43.13	-56.21	10.94	10.94	-0.63
9,216.00	30.00	354.10	9,200.05	-41.19	41.53	-41.06	9.70	9.69	0.94
9,247.00	33.50	353.50	9,226.41	-24.98	39.76	-24.85	11.34	11.29	-1.94
9,279.00	37.10	353.90	9,252.52	-6.60	37.74	-6.48	11.27	11.25	1.25
9,310.00	40.20	354.40	9,276.73	12.65	35.77	12.77	10.05	10.00	1.61
9,342.00	43.20	355.90	9,300.62	33.86	33.98	33.98	9.88	9.38	4.69
9,373.00	46.10	357.30	9,322.67	55.61	32.69	55.72	9.88	9.35	4.52
9,405.00	48.40	357.60	9,344.39	79.08	31.65	79.19	7.22	7.19	0.94
9,436.00	51.20	357.60	9,364.40	102.74	30.66	102.84	9.03	9.03	0.00
9,468.00	54.50	357.70	9,383.72	128.22	29.61	128.31	10.32	10.31	0.31
9,499.00	58.00	357.50	9,400.94	153.97	28.53	154.06	11.30	11.29	-0.65
9,531.00	60.90	357.40	9,417.21	181.49	27.30	181.58	9.07	9.06	-0.31
9,563.00	64.40	356.90	9,431.91	209.88	25.89	209.96	11.03	10.94	-1.56
9,594.00	68.00	356.70	9,444.41	238.19	24.31	238.27	11.63	11.61	-0.65
9,626.00	70.30	357.00	9,455.80	268.05	22.66	268.12	7.24	7.19	0.94
9,657.00	73.00	357.50	9,465.56	297.44	21.25	297.50	8.84	8.71	1.61
9,689.00	75.60	358.30	9,474.22	328.22	20.13	328.28	8.47	8.13	2.50
9,720.00	79.00	358.90	9,481.03	358.45	19.39	358.51	11.13	10.97	1.94
9,752.00	82.00	358.50	9,486.31	390.00	18.67	390.05	9.46	9.38	-1.25
9,784.00	84.40	358.20	9,490.10	421.75	17.76	421.81	7.56	7.50	-0.94
9,815.00	87.10	357.60	9,492.40	452.65	16.62	452.70	8.92	8.71	-1.94
9,878.00	90.20	356.50	9,493.88	515.54	13.38	515.58	5.22	4.92	-1.75
9,973.00	90.50	358.60	9,493.30	610.44	9.32	610.47	2.23	0.32	2.21
10,068.00	91.40	356.70	9,491.73	705.40	7.08	705.42	0.95	0.95	0.11
10,163.00	91.80	0.80	9,489.08	800.36	6.67	800.38	2.25	0.42	2.21
10,228.00	91.60	359.70	9,487.15	865.33	6.95	865.35	1.72	-0.31	-1.69
10,323.00	90.50	0.70	9,485.41	960.31	7.28	960.33	1.56	-1.16	1.05
10,417.00	91.30	0.60	9,483.93	1,054.29	8.35	1,054.31	0.86	0.85	-0.11
10,512.00	89.70	0.70	9,483.10	1,149.28	9.43	1,149.30	1.69	-1.68	0.11
10,607.00	89.50	359.90	9,483.76	1,244.27	9.93	1,244.30	0.87	-0.21	-0.84
10,704.00	90.10	359.60	9,484.10	1,341.27	9.50	1,341.29	0.69	0.62	-0.31
10,796.00	91.00	359.50	9,483.22	1,433.26	8.78	1,433.28	0.98	0.98	-0.11
10,887.00	89.00	359.50	9,483.22	1,524.25	7.99	1,524.27	2.20	-2.20	0.00
10,979.00	88.90	359.80	9,484.91	1,616.24	7.42	1,616.25	0.34	-0.11	0.33
11,071.00	88.50	359.30	9,486.99	1,708.21	6.70	1,708.22	0.70	-0.43	-0.54
11,163.00	88.40	358.70	9,489.48	1,800.16	5.10	1,800.17	0.66	-0.11	-0.65
11,255.00	89.70	359.40	9,491.01	1,892.13	3.57	1,892.14	1.60	1.41	0.76
11,347.00	90.70	359.80	9,490.69	1,984.13	2.93	1,984.13	1.17	1.09	0.43
11,439.00	91.50	0.50	9,488.92	2,076.11	3.17	2,076.11	1.16	0.87	0.76
11,531.00	92.70	0.00	9,485.55	2,168.05	3.57	2,168.05	1.41	1.30	-0.54
11,621.00	91.30	2.00	9,482.41	2,257.97	5.14	2,257.98	2.71	-1.56	2.22

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD-27 2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM 5000'1 Single User Db

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)
11,713.00	91.00	1.90	9,480.56	2,349.90	8.27	2,349.91	0.34	-0.33	-0.11
11,805.00	89.70	2.30	9,480.00	2,441.83	11.64	2,441.86	1.48	-1.41	0.43
11,897.00	90.40	1.60	9,479.92	2,533.78	14.77	2,533.81	1.08	0.76	-0.76
11,990.00	88.90	1.30	9,480.49	2,626.75	17.13	2,626.79	1.64	-1.61	-0.32
12,084.00	88.40	0.40	9,482.70	2,720.71	18.52	2,720.75	1.10	-0.53	-0.96
12,178.00	88.10	359.60	9,485.57	2,814.66	18.52	2,814.71	0.91	-0.32	-0.85
12,273.00	88.90	0.10	9,488.06	2,909.63	18.27	2,909.67	0.99	0.84	0.53
12,368.00	89.70	0.20	9,489.22	3,004.62	18.52	3,004.67	0.85	0.84	0.11
12,463.00	90.20	0.10	9,489.30	3,099.62	18.77	3,099.67	0.54	0.53	-0.11
12,557.00	91.20	359.90	9,488.15	3,193.61	18.77	3,193.66	1.08	1.06	-0.21
12,650.00	89.10	0.40	9,487.91	3,286.61	19.01	3,286.65	2.32	-2.26	0.54
12,744.00	88.90	0.60	9,489.55	3,380.59	19.83	3,380.63	0.30	-0.21	0.21
12,838.00	89.70	0.60	9,490.70	3,474.57	20.82	3,474.62	0.85	0.85	0.00
12,933.00	90.50	0.10	9,490.53	3,569.57	21.40	3,569.62	0.99	0.84	-0.53
13,028.00	90.00	0.30	9,490.12	3,664.57	21.73	3,664.62	0.57	-0.53	0.21
13,123.00	89.80	359.10	9,490.29	3,759.57	21.23	3,759.62	1.28	-0.21	-1.26
13,217.00	89.30	357.60	9,491.02	3,853.52	18.53	3,853.56	1.68	-0.53	-1.60
13,311.00	90.80	357.60	9,490.94	3,947.44	14.59	3,947.46	1.60	1.60	0.00
13,405.00	91.40	357.20	9,489.14	4,041.32	10.33	4,041.33	0.77	0.64	-0.43
13,500.00	91.60	357.00	9,486.65	4,136.17	5.52	4,136.16	0.30	0.21	-0.21
13,594.00	90.80	357.40	9,484.68	4,230.03	0.93	4,230.01	0.95	-0.85	0.43
13,689.00	91.50	358.40	9,482.77	4,324.95	-2.55	4,324.92	-1.28	0.74	1.05
13,783.00	90.10	0.10	9,481.46	4,418.93	-3.78	4,418.89	2.34	-1.49	1.81
13,877.00	89.50	1.20	9,481.79	4,512.92	-2.71	4,512.88	1.33	-0.64	1.17
13,971.00	89.30	1.20	9,482.77	4,606.89	-0.75	4,606.86	0.21	-0.21	0.00
14,066.00	88.90	0.90	9,484.27	4,701.86	1.00	4,701.84	0.53	-0.42	-0.32
14,161.00	89.90	0.70	9,485.26	4,796.85	2.32	4,796.83	1.07	1.05	-0.21
14,255.00	90.30	0.10	9,485.10	4,890.85	2.98	4,890.83	0.77	0.43	-0.64
14,349.00	91.60	1.40	9,483.54	4,984.82	4.21	4,984.81	1.96	1.38	1.38
14,444.00	90.30	3.10	9,481.96	5,079.73	7.94	5,079.73	2.25	-1.37	1.79
14,538.00	89.60	2.80	9,482.05	5,173.60	12.77	5,173.62	0.81	-0.74	-0.32
14,633.00	89.10	2.20	9,483.12	5,268.51	16.92	5,268.53	0.82	-0.53	-0.63
14,727.00	89.60	3.00	9,484.19	5,362.40	21.18	5,362.44	1.00	0.53	0.85
14,821.00	89.70	2.40	9,484.76	5,456.30	25.61	5,456.35	0.65	0.11	-0.64
14,916.00	89.50	2.30	9,485.43	5,551.21	29.51	5,551.28	0.24	-0.21	-0.11
15,010.00	89.00	1.70	9,486.66	5,645.15	32.79	5,645.22	0.83	-0.53	-0.64
15,105.00	88.80	1.00	9,488.48	5,740.10	35.02	5,740.19	0.77	-0.21	-0.74
15,199.00	89.40	0.00	9,489.96	5,834.09	35.84	5,834.17	1.24	0.64	-1.06
15,294.00	90.00	1.60	9,490.46	5,929.07	37.17	5,929.16	1.80	0.63	1.68
15,388.00	89.50	0.60	9,490.87	6,023.05	38.97	6,023.15	1.19	-0.53	-1.06
15,483.00	89.60	0.40	9,491.61	6,118.05	39.80	6,118.14	0.24	0.11	-0.21
15,577.00	90.60	358.60	9,491.45	6,212.04	38.98	6,212.13	2.19	1.06	-1.91
15,672.00	91.10	359.60	9,490.04	6,307.01	37.49	6,307.10	1.18	0.53	1.05

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD:27 2015)	TVD Reference:	KB @ 3079 50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079 50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM-5000.1 Single User.Db

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)
15,767.00	91.40	359.80	9,487.97	6,401.99	36.99	6,402.08	0.38	0.32	0.21
15,861.00	91.40	359.40	9,485.67	6,495.96	36.34	6,496.04	0.43	0.00	-0.43
15,955.00	91.90	359.40	9,482.96	6,589.91	35.35	6,590.00	0.53	0.53	0.00
16,049.00	91.30	359.70	9,480.34	6,683.87	34.62	6,683.95	0.71	-0.64	0.32
16,144.00	89.60	358.50	9,479.59	6,778.85	33.12	6,778.93	2.19	-1.79	-1.26
16,239.00	89.50	358.30	9,480.34	6,873.81	30.47	6,873.88	0.24	-0.11	-0.21
16,334.00	89.30	357.40	9,481.33	6,968.74	26.91	6,968.79	0.97	-0.21	-0.95
16,428.00	88.60	357.20	9,483.06	7,062.62	22.48	7,062.66	0.77	-0.74	-0.21
16,523.00	89.50	358.50	9,484.63	7,157.54	18.92	7,157.56	1.66	0.95	1.37
16,617.00	91.20	358.30	9,484.06	7,251.50	16.29	7,251.51	1.82	1.81	-0.21
16,711.00	91.20	357.80	9,482.09	7,345.42	13.09	7,345.42	0.53	0.00	-0.53
16,805.00	89.40	358.40	9,481.60	7,439.36	9.98	7,439.35	2.02	-1.91	0.64
16,900.00	90.10	358.70	9,482.01	7,534.33	7.57	7,534.31	0.80	0.74	0.32
16,994.00	90.50	0.80	9,481.52	7,628.32	7.16	7,628.30	2.27	0.43	2.23
17,089.00	89.50	1.30	9,481.52	7,723.31	8.90	7,723.29	1.18	-1.05	0.53
17,184.00	87.40	358.90	9,484.09	7,818.26	9.07	7,818.25	3.36	-2.21	-2.53
17,277.00	91.10	358.60	9,485.31	7,911.21	7.04	7,911.19	3.99	3.98	-0.32
17,372.00	90.60	359.20	9,483.90	8,006.18	5.22	8,006.16	0.82	-0.53	0.63
17,466.00	90.30	1.30	9,483.16	8,100.17	5.63	8,100.15	2.26	-0.32	2.23
17,561.00	89.80	0.50	9,483.07	8,195.16	7.12	8,195.14	0.99	-0.53	-0.84
17,655.00	88.80	359.40	9,484.22	8,289.15	7.04	8,289.13	1.58	-1.06	-1.17
17,750.00	89.10	0.00	9,485.96	8,384.13	6.54	8,384.11	0.71	0.32	0.63
17,845.00	88.90	359.70	9,487.62	8,479.12	6.29	8,479.09	0.38	-0.21	-0.32
17,940.00	89.50	0.70	9,488.95	8,574.11	6.63	8,574.08	1.23	0.63	1.05
18,039.00	89.40	0.40	9,489.90	8,673.10	7.58	8,673.08	0.32	-0.10	-0.30
18,132.00	90.60	0.80	9,489.90	8,766.09	8.55	8,766.07	1.36	1.29	0.43
18,227.00	90.80	0.30	9,488.74	8,861.08	9.46	8,861.06	0.57	0.21	-0.53
18,322.00	91.60	0.00	9,486.75	8,956.06	9.71	8,956.04	0.90	0.84	-0.32
18,416.00	92.40	359.00	9,483.47	9,049.99	8.89	9,049.97	1.36	0.85	-1.06
18,511.00	91.20	359.80	9,480.48	9,144.94	7.90	9,144.92	1.52	-1.26	0.84
18,605.00	88.70	358.80	9,480.57	9,238.92	6.75	9,238.90	2.86	-2.66	-1.06
18,700.00	88.00	359.10	9,483.30	9,333.87	5.01	9,333.83	0.80	-0.74	0.32
18,795.00	91.40	0.50	9,483.80	9,428.85	4.68	9,428.81	3.87	3.58	1.47
18,889.00	92.60	2.10	9,480.52	9,522.76	6.81	9,522.73	2.13	1.28	1.70
18,984.00	92.00	1.90	9,476.71	9,617.63	10.12	9,617.61	0.67	-0.63	-0.21
19,078.00	91.00	1.10	9,474.24	9,711.56	12.58	9,711.55	1.36	-1.06	-0.85
19,172.00	90.10	1.30	9,473.34	9,805.54	14.55	9,805.53	0.98	-0.96	0.21
19,267.00	89.80	0.50	9,473.43	9,900.52	16.04	9,900.52	0.90	-0.32	-0.84
19,361.00	89.30	359.40	9,474.16	9,994.52	15.96	9,994.52	1.29	-0.53	-1.17
19,456.00	87.80	358.30	9,476.57	10,089.47	14.05	10,089.46	1.96	-1.58	-1.16
19,537.00	88.10	357.80	9,479.47	10,170.37	11.30	10,170.35	0.72	0.37	-0.62
Last TDS MWD Survey									
19,587.00	88.10	357.80	9,481.12	10,220.30	9.38	10,220.28	0.00	0.00	0.00
Proj to Bit									



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Myox 5 State Com #22H
Project:	Eddy County, NM (NAD:27-2015)	TVD Reference:	KB @ 3079.50usft (Latshaw 44)
Site:	Myox 5 State Com #22H	MD Reference:	KB @ 3079.50usft (Latshaw 44)
Well:	Myox 5 State Com #22H	North Reference:	Grid
Wellbore:	Lateral #1	Survey Calculation Method:	Minimum Curvature
Design:	Lateral #1	Database:	EDM-5000.1 Single User.Db

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 Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N/S (usft)	+E/W (usft)		
8,837.00	8,833.80	-107.38	46.99		First TDS MWD Survey
19,537.00	9,479.47	10,170.37	11.30		Last TDS MWD Survey
19,587.00	9,481.12	10,220.30	9.38		Proj to Bit

Checked By: _____ Approved By: _____ Date: _____

NOV 23 2016

DISTRICT I
1025 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 353-6181 Fax: (575) 353-0723

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
RECEIVED
Submit one copy to appropriate
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43706	Pool Code 98195	Pool Name WC-015 G-06 S2628050; Upper Wolfcamp
Property Code 316513	Property Name MYOX 5 STATE COM	Well Number 22H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3054.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	5	26-S	28-E		225	SOUTH	2280	EAST	EDDY

Bottom Hole Location If Different From Surface

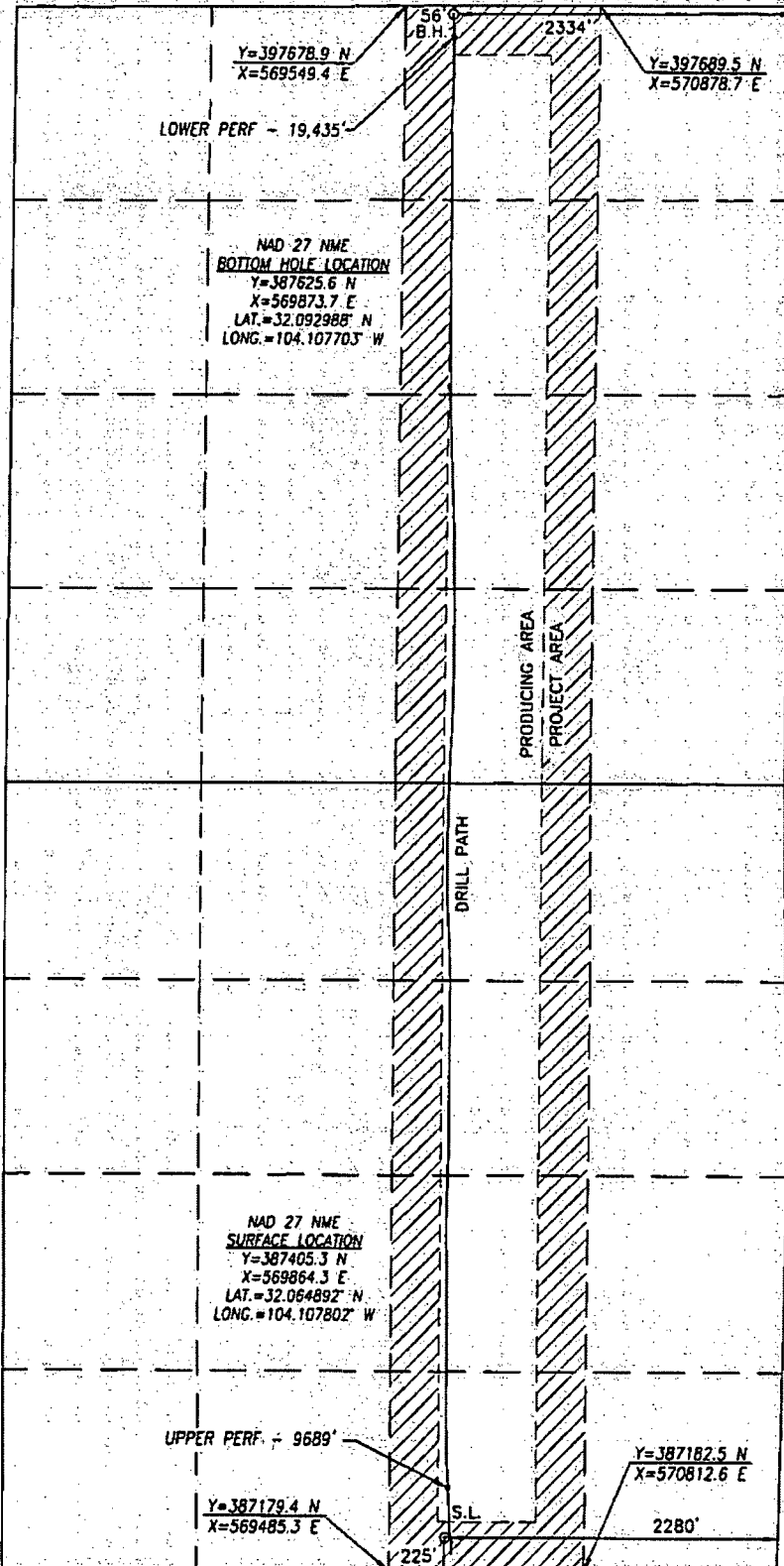
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	32	25-S	28-E		56	NORTH	2334	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No. NSL-7434
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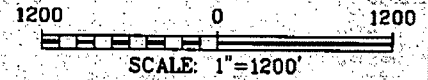
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 316513	Property Name MYOX 5 STATE COM	Well Number 22H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3054.5'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY TERRA DIRECTIONAL SERVICES FOR THE MYOX 5 STATE COM #22H SUPPLIED TO HARCROW SURVEYING, LLC ON OCTOBER 21, 2016.



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling after heretofore entered by the division.

Stormi Davis 11/16/16
Signature Date

Stormi Davis
Printed Name

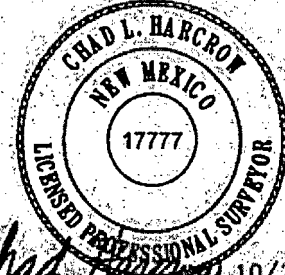
sdavis@concho.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY, 2016/OCTOBER, 2016
Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Certificate No. CHAD HARCROW 17777
W.O. #16-859 10/25/16
DRAWN BY: JR