



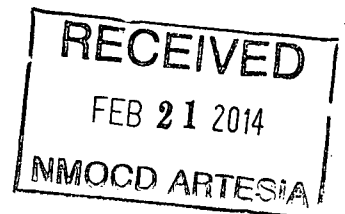
PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

COG OPER, LLC
RECEIVED
NOV 18 2013
ARTESIA WEST

November 4, 2013

COG, LLC
One Concho Center
600 W. Illinois Ave.
Midland, TX 79701

15-41641
RE: MYOX 32 State #1H
190' FSL & 1980' FEL
Sec. 32, T25S, R28E
Eddy County, New Mexico



Dear Sir,

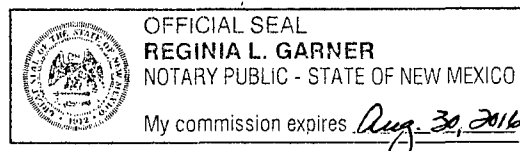
The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 4th day of November, 2013.



MYOX 32 State #1H

Date	Depth	Deviation	Direction	TVD	Horiz Disp
10/15/2013	114	0.40	0.00	0.00	0.00
10/15/2013	204	0.60	0.00	0.00	0.00
10/15/2013	321	0.60	0.00	0.00	0.00
10/17/2013	621	1.10	0.00	0.00	0.00
10/17/2013	1110	1.00	0.00	0.00	0.00
10/18/2013	1599	1.20	0.00	0.00	0.00
10/18/2013	1997	1.10	0.00	0.00	0.00
10/18/2013	2310	1.20	0.00	0.00	0.00
10/20/2013	2781	1.40	0.00	0.00	0.00
10/20/2013	3253	0.60	0.00	0.00	0.00
10/20/2013	3727	0.50	0.00	0.00	0.00
10/21/2013	4199	0.50	0.00	0.00	0.00
10/21/2013	4670	1.30	0.00	0.00	0.00
10/21/2013	5137	0.90	0.00	0.00	0.00
10/21/2013	5610	0.60	0.00	0.00	0.00
10/22/2013	6082	0.90	0.00	0.00	0.00
10/23/2013	6582	1.00	0.00	0.00	0.00
10/23/2013	7055	1.50	0.00	0.00	0.00
10/24/2013	7371	1.10	214.50	7369.62	32.84
10/24/2013	7403	1.00	229.30	7401.62	33.28
10/24/2013	7435	1.40	338.80	7433.61	33.10
10/24/2013	7466	4.10	0.60	7464.57	31.64
10/24/2013	7498	6.20	357.10	7496.44	28.77
10/25/2013	7593	14.90	356.90	7589.76	11.52
10/25/2013	7719	21.80	3.20	7708.96	29.05
10/25/2013	7751	23.00	4.60	7738.55	41.22
10/25/2013	7782	25.30	7.30	7766.83	53.84
10/25/2013	7813	28.60	4.10	7774.46	67.82
10/25/2013	7876	36.50	358.80	7847.47	101.77
10/26/2013	7908	42.70	355.80	7872.11	122.12
10/26/2013	8002	54.50	348.30	7933.77	191.90
10/26/2013	8066	66.60	348.10	7965.25	246.21
10/26/2013	8098	70.60	349.90	7976.92	275.41
10/26/2013	8130	76.30	352.70	7986.04	305.68
10/27/2013	8151	79.50	354.20	7990.44	326.05
10/27/2013	8278	89.20	0.20	7999.78	452.33
10/27/2013	8372	91.10	2.70	7998.88	546.30
10/27/2013	8466	90.70	3.20	7996.75	640.18
10/27/2013	8561	89.60	3.70	7996.50	735.05
10/27/2013	8845	90.00	3.60	7999.14	1018.66
10/27/2013	9036	90.50	3.00	7999.05	1209.43
10/27/2013	9225	90.20	3.40	7996.17	1398.14
10/27/2013	9570	90.20	2.70	7998.99	1682.90

Date	Depth	Deviation	Direction	TVD	Horiz Disp
10/28/2013	9605	91.00	3.40	7997.99	1777.80
10/28/2013	9792	87.70	1.30	7999.04	1964.60
10/28/2013	9886	88.40	0.90	8002.24	0.86
10/28/2013	10076	90.90	0.60	8005.00	2248.00
10/28/2013	10169	91.60	1.50	8003.00	2341.00
10/28/2013	10263	91.10	2.00	8001.00	2435.00
10/28/2013	10453	89.70	0.80	7997.91	2625.36
10/28/2013	10548	90.60	0.20	7997.00	2720.00
10/28/2013	10643	91.00	0.20	7996.00	2815.00
10/29/2013	10831	88.30	358.80	8001.64	3003.22
10/29/2013	11022	90.30	358.50	8004.49	3194.06
10/29/2013	11118	90.70	358.10	8003.65	3284.99
10/29/2013	11304	91.50	357.40	7999.00	3475.00
10/29/2013	11494	90.70	358.50	7995.00	3665.00
10/29/2013	11587	89.80	359.00	7995.00	3758.00
10/29/2013	11775	90.70	0.40	7994.00	3946.00
10/29/2013	11870	88.70	1.60	7994.00	4041.00
10/29/2013	11965	88.40	1.50	97997.00	4136.00
10/30/2013	12151	85.30	357.80	8007.49	4322.02
10/30/2013	12246	85.90	2.90	8014.00	4416.00
10/30/2013	12340	86.90	4.80	8020.00	4510.00
10/30/2013	12460	87.60	5.00	8026.00	4629.00



A GYRO TECHNOLOGIES INC. COMPANY

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

November 1, 2013

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

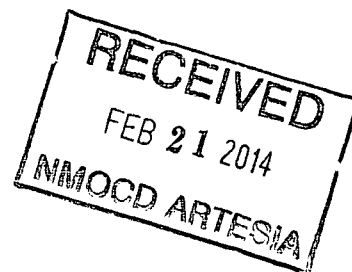
Attn: Kanicia Castillo

RE: MYOX 32 State 1H

Please find enclosed a copy of the survey from 0.00' to 7330.00' ran on the above referenced well.

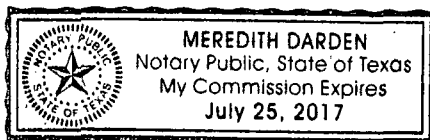
Sincerely,

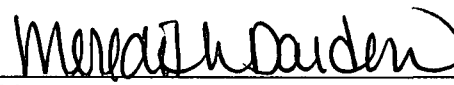
Keith Havelka
Operations



STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 1 day of November A.D., 2013, by Keith Havelka.




Meredith Darden
Notary Public, State of Texas



Company: COG Operating, Inc. (Concho)
Lease/Well: Myox 32 State /1H
Location: Sec32 T25S R28E
Rig Name: Silver Oak #7
State/County: New Mexico/Eddy
Latitude: 32.08, Longitude: -104.11
GRID North is 0.12 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 19 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: myox 32 state #1h-de_01.ut

Minimum Curvature Method

Report Date/Time: 11/1/2013 / 15:37

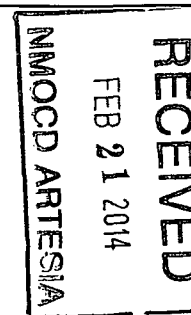
Vaughn Energy Services

West, Texas

432-563-5444

Surveyor: Chris Bankson

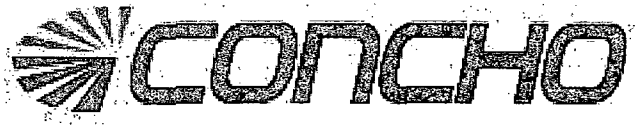
Myox 32 State 1H / API 30-015-41641



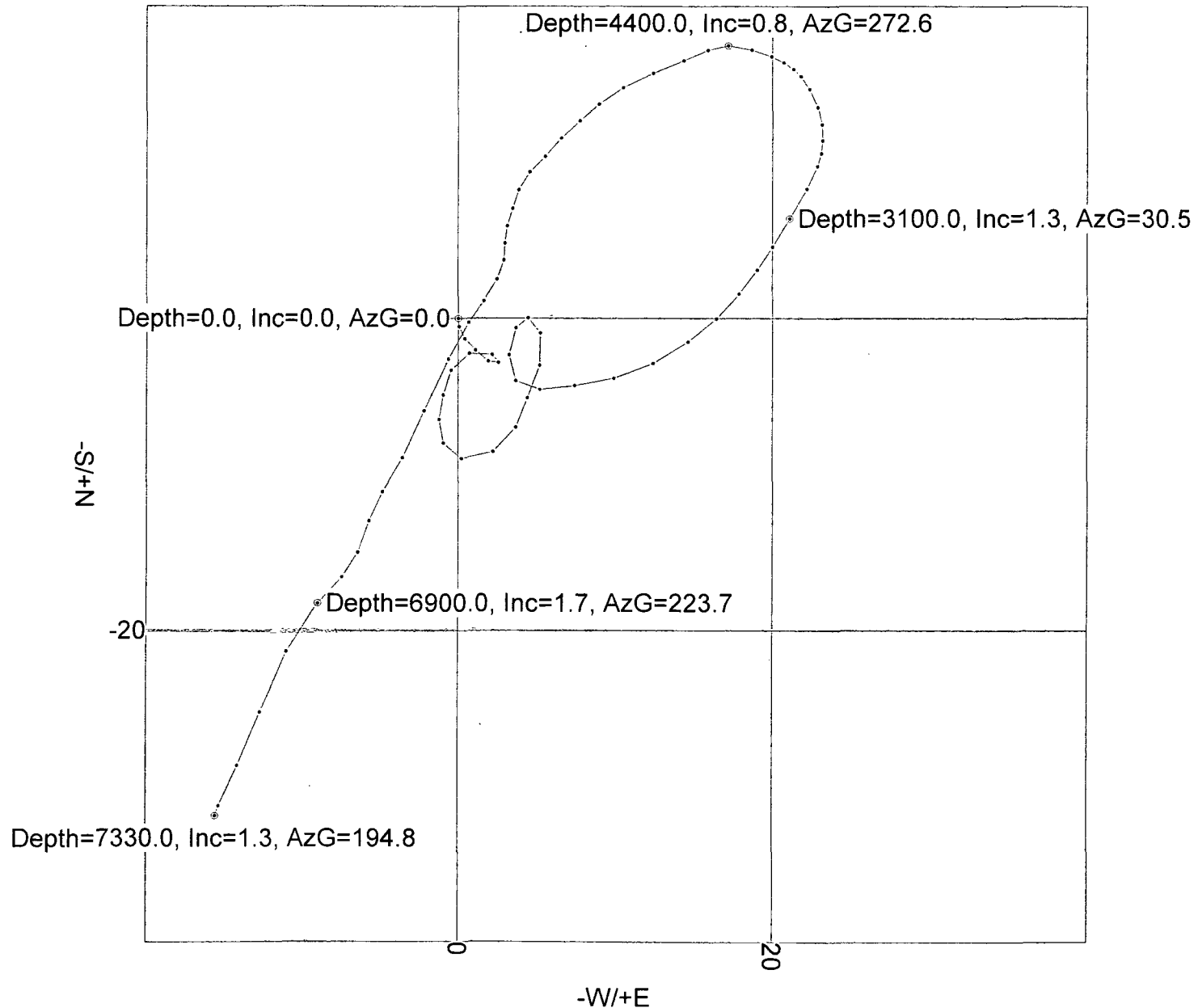
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.60	173.78	100.00	-0.52	0.06	-0.52	0.52	173.78	0.60
200.00	0.46	129.87	199.99	-1.29	0.42	-1.29	1.36	161.97	0.42
300.00	0.69	142.43	299.99	-2.03	1.10	-2.03	2.31	151.60	0.26
400.00	0.56	117.23	399.98	-2.73	1.90	-2.73	3.33	145.19	0.30
500.00	0.29	57.88	499.98	-2.82	2.55	-2.82	3.80	137.93	0.48
600.00	0.82	302.07	599.98	-2.31	2.16	-2.31	3.16	136.96	0.98
700.00	1.03	250.20	699.97	-2.23	0.71	-2.23	2.34	162.40	0.83
800.00	0.95	201.91	799.95	-3.31	-0.44	-3.31	3.34	187.65	0.81
900.00	0.97	194.29	899.94	-4.90	-0.97	-4.90	5.00	191.13	0.13
1000.00	0.84	183.74	999.93	-6.46	-1.22	-6.46	6.58	190.71	0.21
1100.00	0.97	158.17	1099.91	-7.98	-0.96	-7.98	8.04	186.82	0.42
1200.00	1.02	102.80	1199.90	-8.97	0.23	-8.97	8.97	178.54	0.93
1300.00	1.48	60.60	1299.88	-8.53	2.22	-8.53	8.82	165.43	0.99
1400.00	1.13	18.84	1399.86	-6.97	3.66	-6.97	7.87	152.28	0.98
1500.00	1.19	23.57	1499.83	-5.08	4.39	-5.08	6.72	139.13	0.11
1600.00	1.37	17.62	1599.81	-2.99	5.17	-2.99	5.97	120.03	0.22
1700.00	1.11	340.56	1699.79	-0.94	5.21	-0.94	5.29	100.18	0.82
1800.00	0.53	278.12	1799.78	0.05	4.43	0.05	4.43	89.40	0.99

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
1900.00	0.89	202.54	1899.77	-0.61	3.67	-0.61	3.72	99.37	0.92
2000.00	1.16	187.50	1999.76	-2.33	3.24	-2.33	3.99	125.72	0.38
2100.00	0.97	139.89	2099.74	-3.98	3.65	-3.98	5.40	137.48	0.88
2200.00	1.13	85.39	2199.73	-4.55	5.19	-4.55	6.90	131.29	0.98
2300.00	1.40	81.61	2299.70	-4.30	7.38	-4.30	8.54	120.21	0.28
2400.00	1.55	77.46	2399.67	-3.82	9.91	-3.82	10.62	111.11	0.18
2500.00	1.55	61.16	2499.63	-2.88	12.42	-2.88	12.74	103.05	0.44
2600.00	1.43	55.06	2599.60	-1.51	14.63	-1.51	14.71	95.88	0.20
2700.00	1.26	45.79	2699.57	-0.03	16.44	-0.03	16.44	90.09	0.28
2800.00	1.24	38.18	2799.55	1.59	17.89	1.59	17.96	84.93	0.17
2900.00	0.95	35.82	2899.53	3.11	19.05	3.11	19.30	80.72	0.29
3000.00	1.07	31.36	2999.51	4.59	20.02	4.59	20.54	77.10	0.15
3100.00	1.33	30.55	3099.49	6.38	21.10	6.38	22.04	73.17	0.25
3200.00	1.19	28.78	3199.47	8.29	22.19	8.29	23.69	69.51	0.14
3300.00	0.64	18.14	3299.45	9.74	22.86	9.74	24.85	66.93	0.57
3400.00	0.35	11.42	3399.45	10.57	23.10	10.57	25.40	65.41	0.30
3500.00	0.60	1.56	3499.45	11.40	23.17	11.40	25.83	63.81	0.27
3600.00	0.57	354.33	3599.44	12.42	23.14	12.42	26.26	61.77	0.08
3700.00	0.72	342.32	3699.44	13.52	22.90	13.52	26.59	59.44	0.20
3800.00	0.75	329.87	3799.43	14.69	22.38	14.69	26.77	56.72	0.16
3900.00	0.37	318.73	3899.42	15.50	21.83	15.50	26.78	54.63	0.40
4000.00	0.41	308.75	3999.42	15.97	21.34	15.97	26.65	53.20	0.08
4100.00	0.44	300.05	4099.42	16.38	20.73	16.38	26.42	51.67	0.07
4200.00	0.55	292.73	4199.41	16.77	19.95	16.77	26.06	49.95	0.12
4300.00	0.97	286.88	4299.40	17.20	18.69	17.20	25.40	47.38	0.43
4400.00	0.78	272.62	4399.39	17.47	17.20	17.47	24.52	44.54	0.29
4500.00	0.80	242.00	4499.38	17.18	15.90	17.18	23.41	42.79	0.42
4600.00	1.12	249.46	4599.37	16.51	14.38	16.51	21.89	41.05	0.34
4700.00	1.28	245.63	4699.35	15.70	12.44	15.70	20.04	38.39	0.18
4800.00	1.17	242.53	4799.32	14.77	10.51	14.77	18.13	35.44	0.13
4900.00	1.00	228.00	4899.31	13.72	8.96	13.72	16.38	33.15	0.32
5000.00	0.88	231.35	4999.29	12.65	7.71	12.65	14.82	31.36	0.12
5100.00	0.98	222.18	5099.28	11.54	6.53	11.54	13.26	29.52	0.18
5200.00	0.80	219.64	5199.27	10.37	5.51	10.37	11.74	28.01	0.18
5300.00	0.80	228.46	5299.26	9.37	4.55	9.37	10.41	25.90	0.12
5400.00	0.81	194.28	5399.25	8.22	3.85	8.22	9.08	25.12	0.47
5500.00	0.63	202.99	5499.24	7.03	3.47	7.03	7.84	26.24	0.21
5600.00	0.71	192.24	5599.23	5.93	3.12	5.93	6.70	27.78	0.15
5700.00	0.58	182.52	5699.23	4.82	2.97	4.82	5.66	31.64	0.16

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
5800.00	0.66	183.49	5799.22	3.74	2.91	3.74	4.74	37.92	0.08
5900.00	0.86	211.65	5899.21	2.52	2.48	2.52	3.54	44.53	0.42
6000.00	1.00	212.27	5999.20	1.14	1.62	1.14	1.98	54.77	0.13
6100.00	0.95	216.51	6099.19	-0.26	0.66	-0.26	0.71	111.36	0.09
6200.00	2.12	205.59	6199.15	-2.60	-0.63	-2.60	2.67	193.68	1.20
6300.00	2.06	204.10	6299.08	-5.91	-2.17	-5.91	6.29	200.13	0.08
6400.00	1.72	204.63	6399.03	-8.91	-3.53	-8.91	9.59	201.58	0.34
6500.00	1.21	218.38	6498.99	-11.11	-4.81	-11.11	12.10	203.40	0.62
6600.00	1.20	191.15	6598.97	-12.96	-5.66	-12.96	14.14	203.61	0.57
6700.00	1.27	206.89	6698.95	-14.97	-6.37	-14.97	16.27	203.04	0.34
6800.00	0.91	220.65	6798.93	-16.56	-7.39	-16.56	18.14	204.03	0.44
6900.00	1.70	223.74	6898.91	-18.24	-8.93	-18.24	20.31	206.09	0.79
7000.00	2.58	206.41	6998.84	-21.33	-10.96	-21.33	23.98	207.19	1.09
7100.00	2.31	200.63	7098.75	-25.23	-12.67	-25.23	28.23	206.66	0.37
7200.00	2.00	205.13	7198.67	-28.69	-14.12	-28.69	31.98	206.20	0.35
7300.00	1.29	203.91	7298.63	-31.30	-15.31	-31.30	34.85	206.07	0.71
7330.00	1.30	194.77	7328.63	-31.94	-15.54	-31.94	35.52	205.94	0.69



Vaughn Energy Services
West, Texas
432-563-5444
Surveyor: Chris Bankson
Myox 32 State 1H / API 30-015-41641



VES Survey Date: 10/23/2013



Concho Oil and Gas

Eddy County, NM

Myox 32 State #1H

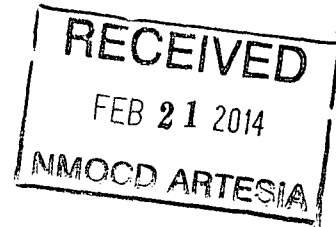
Myox 32 State #1H

OH

Design: OH

Standard Survey Report

31 October, 2013





Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Myox 32 State #1H
Project:	Eddy County, NM	TVD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Site:	Myox 32 State #1H	MD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Well:	Myox 32 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM		
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 32 State #1H		
Site Position:		Northing:	392,658.30 usft
From:	Map	Easting:	570,188.70 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 45.590 N
		Longitude:	104° 6' 24.189 W
		Grid Convergence:	0.12 °

Well	Myox 32 State #1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 4' 45.590 N
		Longitude:	104° 6' 24.189 W
		Ground Level:	3,003.4 usft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/5/2013	7.55	59.91	48,251

Design	OH		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	0.45

Survey Program	Date 10/31/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	7,330.0	VES Gyro Survey #1 (OH)	GyroFlex
7,371.0	12,510.0	MWD Survey #2 (OH)	MWD
			MWD - Standard

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	0.60	173.78	100.0	-0.5	0.1	-0.5	0.60	0.60	0.00
200.0	0.46	129.87	200.0	-1.3	0.4	-1.3	0.42	-0.14	-43.91
300.0	0.69	142.43	300.0	-2.0	1.1	-2.0	0.26	0.23	12.56
400.0	0.56	117.23	400.0	-2.7	1.9	-2.7	0.30	-0.13	-25.20
500.0	0.29	57.88	500.0	-2.8	2.5	-2.8	0.48	-0.27	-59.35
600.0	0.82	302.07	600.0	-2.3	2.2	-2.3	0.98	0.53	-115.81
700.0	1.03	250.20	700.0	-2.2	0.7	-2.2	0.83	0.21	-51.87
800.0	0.95	201.91	800.0	-3.3	-0.5	-3.3	0.81	-0.08	-48.29
900.0	0.97	194.29	899.9	-4.9	-1.0	-4.9	0.13	0.02	-7.62



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Myox 32 State #1H
Project:	Eddy County, NM	TVD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Site:	Myox 32 State #1H	MD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Well:	Myox 32 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
1,000.0	0.84	183.74	999.9	-6.4	-1.2	-6.5	0.21	-0.13	-10.55
1,100.0	0.97	158.17	1,099.9	-8.0	-1.0	-8.0	0.42	0.13	-25.57
1,200.0	1.02	102.80	1,199.9	-8.9	0.2	-8.9	0.93	0.05	-55.37
1,300.0	1.48	60.60	1,299.9	-8.5	2.2	-8.5	1.00	0.46	-42.20
1,400.0	1.13	18.84	1,399.9	-6.9	3.7	-6.9	0.99	-0.35	-41.76
1,500.0	1.19	23.57	1,499.8	-5.1	4.4	-5.0	0.11	0.06	4.73
1,600.0	1.37	17.62	1,599.8	-3.0	5.2	-2.9	0.22	0.18	-5.95
1,700.0	1.11	340.56	1,699.8	-0.9	5.2	-0.9	0.83	-0.26	-37.06
1,800.0	0.53	278.12	1,799.8	0.1	4.4	0.1	0.98	-0.58	-62.44
1,900.0	0.89	202.54	1,899.8	-0.6	3.7	-0.6	0.92	0.36	-75.58
2,000.0	1.16	187.50	1,999.8	-2.3	3.2	-2.3	0.38	0.27	-15.04
2,100.0	0.97	139.89	2,099.7	-4.0	3.7	-3.9	0.88	-0.19	-47.61
2,200.0	1.13	85.39	2,199.7	-4.5	5.2	-4.5	0.97	0.16	-54.50
2,300.0	1.40	81.61	2,299.7	-4.3	7.4	-4.2	0.28	0.27	-3.78
2,400.0	1.55	77.46	2,399.7	-3.8	9.9	-3.7	0.18	0.15	-4.15
2,500.0	1.55	61.16	2,499.6	-2.9	12.4	-2.8	0.44	0.00	-16.30
2,600.0	1.43	55.06	2,599.6	-1.5	14.6	-1.4	0.20	-0.12	-6.10
2,700.0	1.26	45.79	2,699.6	0.0	16.4	0.1	0.28	-0.17	-9.27
2,800.0	1.24	38.18	2,799.5	1.6	17.9	1.8	0.17	-0.02	-7.61
2,900.0	0.95	35.82	2,899.5	3.1	19.0	3.3	0.29	-0.29	-2.36
3,000.0	1.07	31.36	2,999.5	4.6	20.0	4.8	0.14	0.12	-4.46
3,100.0	1.33	30.55	3,099.5	6.4	21.1	6.6	0.26	0.26	-0.81
3,200.0	1.19	28.78	3,199.5	8.3	22.2	8.5	0.15	-0.14	-1.77
3,300.0	0.64	18.14	3,299.5	9.8	22.9	9.9	0.57	-0.55	-10.64
3,400.0	0.35	11.42	3,399.5	10.6	23.1	10.8	0.30	-0.29	-6.72
3,500.0	0.60	1.56	3,499.4	11.4	23.2	11.6	0.26	0.25	-9.86
3,600.0	0.57	354.33	3,599.4	12.4	23.1	12.6	0.08	-0.03	-7.23
3,700.0	0.72	342.32	3,699.4	13.5	22.9	13.7	0.20	0.15	-12.01
3,800.0	0.75	329.87	3,799.4	14.7	22.4	14.9	0.16	0.03	-12.45
3,900.0	0.37	318.73	3,899.4	15.5	21.8	15.7	0.39	-0.38	-11.14
4,000.0	0.41	308.75	3,999.4	16.0	21.3	16.1	0.08	0.04	-9.98
4,100.0	0.44	300.05	4,099.4	16.4	20.7	16.5	0.07	0.03	-8.70
4,200.0	0.55	292.73	4,199.4	16.8	19.9	16.9	0.13	0.11	-7.32
4,300.0	0.97	286.88	4,299.4	17.2	18.7	17.3	0.43	0.42	-5.85
4,400.0	0.78	272.62	4,399.4	17.5	17.2	17.6	0.29	-0.19	-14.26
4,500.0	0.80	242.00	4,499.4	17.2	15.9	17.3	0.42	0.02	-30.62
4,600.0	1.12	249.46	4,599.4	16.5	14.4	16.6	0.34	0.32	7.46
4,700.0	1.28	245.63	4,699.3	15.7	12.4	15.8	0.18	0.16	-3.83
4,800.0	1.17	242.53	4,799.3	14.8	10.5	14.8	0.13	-0.11	-3.10
4,900.0	1.00	228.00	4,899.3	13.7	9.0	13.8	0.32	-0.17	-14.53
5,000.0	0.88	231.35	4,999.3	12.6	7.7	12.7	0.13	-0.12	3.35
5,100.0	0.98	222.18	5,099.3	11.5	6.5	11.6	0.18	0.10	-9.17
5,200.0	0.80	219.64	5,199.3	10.4	5.5	10.4	0.18	-0.18	-2.54



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Myox 32 State #1H
Project:	Eddy County, NM	TVD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Site:	Myox 32 State #1H	MD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Well:	Myox 32 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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	0.80	228.46	5,299.3	9.4	4.6	9.4	0.12	0.00	8.82	
5,400.0	0.81	194.28	5,399.3	8.2	3.9	8.2	0.47	0.01	-34.18	
5,500.0	0.63	202.99	5,499.2	7.0	3.5	7.0	0.21	-0.18	8.71	
5,600.0	0.71	192.24	5,599.2	5.9	3.1	5.9	0.15	0.08	-10.75	
5,700.0	0.58	182.52	5,699.2	4.8	3.0	4.8	0.17	-0.13	-9.72	
5,800.0	0.66	183.49	5,799.2	3.7	2.9	3.7	0.08	0.08	0.97	
5,900.0	0.86	211.65	5,899.2	2.5	2.5	2.5	0.42	0.20	28.16	
6,000.0	1.00	212.27	5,999.2	1.1	1.6	1.1	0.14	0.14	0.62	
6,100.0	0.95	216.51	6,099.2	-0.3	0.7	-0.3	0.09	-0.05	4.24	
6,200.0	2.12	205.59	6,199.1	-2.6	-0.6	-2.6	1.20	1.17	-10.92	
6,300.0	2.06	204.10	6,299.1	-5.9	-2.2	-5.9	0.08	-0.06	-1.49	
6,400.0	1.72	204.63	6,399.0	-8.9	-3.5	-9.0	0.34	-0.34	0.53	
6,500.0	1.21	218.38	6,499.0	-11.1	-4.8	-11.2	0.62	-0.51	13.75	
6,600.0	1.20	191.15	6,599.0	-13.0	-5.7	-13.0	0.57	-0.01	-27.23	
6,700.0	1.27	206.89	6,699.0	-15.0	-6.4	-15.0	0.35	0.07	15.74	
6,800.0	0.91	220.65	6,798.9	-16.6	-7.4	-16.6	0.44	-0.36	13.76	
6,900.0	1.70	223.74	6,898.9	-18.3	-8.9	-18.3	0.79	0.79	3.09	
7,000.0	2.58	206.41	6,998.8	-21.3	-11.0	-21.4	1.08	0.88	-17.33	
7,100.0	2.31	200.63	7,098.7	-25.2	-12.7	-25.3	0.37	-0.27	-5.78	
7,200.0	2.00	205.13	7,198.7	-28.7	-14.1	-28.8	0.35	-0.31	4.50	
7,300.0	1.29	203.91	7,298.6	-31.3	-15.3	-31.4	0.71	-0.71	-1.22	
7,330.0	1.30	194.77	7,328.6	-32.0	-15.5	-32.1	0.69	0.03	-30.47	
7330' MD VES Gyro Survey										
7,371.0	1.10	214.50	7,369.6	-32.7	-15.9	-32.9	1.11	-0.49	48.12	
7,403.0	1.00	229.30	7,401.6	-33.2	-16.3	-33.3	0.90	-0.31	46.25	
7,435.0	1.40	338.80	7,433.6	-33.0	-16.6	-33.1	6.17	1.25	342.19	
7,466.0	4.10	0.60	7,464.6	-31.5	-16.7	-31.7	9.19	8.71	70.32	
7,498.0	6.20	357.10	7,496.4	-28.7	-16.8	-28.8	6.63	6.56	-10.94	
7,530.0	8.90	358.10	7,528.2	-24.5	-17.0	-24.6	8.45	8.44	3.13	
7,561.0	12.00	357.20	7,558.6	-18.8	-17.2	-19.0	10.01	10.00	-2.90	
7,593.0	14.90	356.90	7,589.8	-11.4	-17.6	-11.5	9.07	9.06	-0.94	
7,625.0	17.10	358.10	7,620.5	-2.6	-18.0	-2.7	6.95	6.88	3.75	
7,656.0	19.30	0.80	7,650.0	7.1	-18.1	6.9	7.60	7.10	8.71	
7,687.0	20.50	2.30	7,679.1	17.6	-17.8	17.5	4.21	3.87	4.84	
7,719.0	21.80	3.20	7,709.0	29.2	-17.2	29.0	4.19	4.06	2.81	
7,751.0	23.00	4.60	7,738.5	41.3	-16.4	41.2	4.10	3.75	4.38	
7,782.0	25.30	7.30	7,766.8	53.9	-15.1	53.8	8.23	7.42	8.71	
7,813.0	28.60	4.10	7,794.5	67.9	-13.7	67.8	11.62	10.65	-10.32	
7,844.0	32.70	359.20	7,821.1	83.7	-13.3	83.6	15.48	13.23	-15.81	
7,876.0	36.50	358.80	7,847.5	101.9	-13.6	101.7	11.90	11.88	-1.25	
7,908.0	42.70	355.80	7,872.1	122.2	-14.6	122.1	20.27	19.38	-9.38	
7,940.0	46.90	352.50	7,894.8	144.6	-16.9	144.5	15.00	13.13	-10.31	
7,971.0	51.40	349.90	7,915.1	167.8	-20.5	167.6	15.84	14.52	-8.39	



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Myox 32 State #1H
Project:	Eddy County, NM	TVD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Site:	Myox 32 State #1H	MD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Well:	Myox 32 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
8,002.0	54.50	348.30	7,933.8	192.1	-25.2	191.9	10.81	10.00	-5.16
8,034.0	60.40	348.10	7,951.0	218.5	-30.7	218.2	18.45	18.44	-0.63
8,066.0	66.60	348.10	7,965.2	246.5	-36.6	246.2	19.38	19.38	0.00
8,098.0	70.60	349.90	7,976.9	275.7	-42.3	275.4	13.55	12.50	5.63
8,130.0	76.30	352.70	7,986.0	306.0	-46.9	305.7	19.69	17.81	8.75
8,151.0	79.50	354.20	7,990.4	326.4	-49.3	326.0	16.76	15.24	7.14
8,183.0	84.80	355.80	7,994.8	358.0	-52.0	357.6	17.29	16.56	5.00
8,278.0	89.20	0.20	7,999.8	452.8	-55.3	452.3	6.54	4.63	4.63
8,372.0	91.90	2.70	7,998.9	546.7	-52.9	546.3	3.91	2.87	2.66
8,466.0	90.70	3.20	7,996.7	640.6	-48.1	640.2	1.38	-1.28	0.53
8,561.0	89.60	3.70	7,996.5	735.4	-42.4	735.0	1.27	-1.16	0.53
8,656.0	89.40	3.40	7,997.3	830.2	-36.5	829.9	0.38	-0.21	-0.32
8,750.0	89.20	3.20	7,998.5	924.0	-31.1	923.8	0.30	-0.21	-0.21
8,845.0	90.00	3.60	7,999.1	1,018.9	-25.5	1,018.6	0.94	0.84	0.42
8,940.0	89.80	3.20	7,999.3	1,113.7	-19.8	1,113.5	0.47	-0.21	-0.42
9,036.0	90.50	3.00	7,999.0	1,209.6	-14.6	1,209.4	0.76	0.73	-0.21
9,130.0	91.40	3.70	7,997.5	1,303.4	-9.1	1,303.3	1.21	0.96	0.74
9,225.0	90.20	3.40	7,996.2	1,398.2	-3.3	1,398.1	1.30	-1.26	-0.32
9,320.0	89.30	2.70	7,996.6	1,493.1	1.8	1,493.0	1.20	-0.95	-0.74
9,415.0	88.80	2.30	7,998.2	1,587.9	5.9	1,587.9	0.67	-0.53	-0.42
9,510.0	90.20	2.70	7,999.0	1,682.9	10.1	1,682.9	1.53	1.47	0.42
9,605.0	91.00	3.40	7,998.0	1,777.7	15.1	1,777.8	1.12	0.84	0.74
9,699.0	90.00	3.20	7,997.2	1,871.5	20.5	1,871.7	1.08	-1.06	-0.21
9,792.0	87.70	1.30	7,999.0	1,964.4	24.2	1,964.6	3.21	-2.47	-2.04
9,886.0	88.40	0.90	8,002.2	2,058.4	26.0	2,058.5	0.86	0.74	-0.43
9,981.0	88.50	0.80	8,004.8	2,153.3	27.4	2,153.5	0.15	0.11	-0.11
10,076.0	90.90	0.60	8,005.3	2,248.3	28.6	2,248.5	2.54	2.53	-0.21
10,169.0	91.60	1.50	8,003.3	2,341.3	30.3	2,341.4	1.23	0.75	0.97
10,263.0	91.10	2.00	8,001.1	2,435.2	33.1	2,435.4	0.75	-0.53	0.53
10,358.0	91.50	1.10	7,998.9	2,530.1	35.7	2,530.3	1.04	0.42	-0.95
10,453.0	89.70	0.80	7,997.9	2,625.1	37.3	2,625.3	1.92	-1.89	-0.32
10,548.0	90.60	0.20	7,997.7	2,720.1	38.1	2,720.3	1.14	0.95	-0.63
10,643.0	91.00	0.20	7,996.3	2,815.1	38.4	2,815.3	0.42	0.42	0.00
10,738.0	87.10	359.90	7,997.9	2,910.1	38.5	2,910.3	4.12	-4.11	-0.32
10,831.0	88.30	358.80	8,001.6	3,003.0	37.5	3,003.2	1.75	1.29	-1.18
10,927.0	89.00	358.10	8,003.9	3,098.9	34.9	3,099.1	1.03	0.73	-0.73
11,022.0	90.30	358.50	8,004.5	3,193.9	32.1	3,194.0	1.43	1.37	0.42
11,118.0	90.70	358.10	8,003.6	3,289.8	29.2	3,290.0	0.59	0.42	-0.42
11,211.0	91.50	357.90	8,001.9	3,382.8	26.0	3,382.9	0.89	0.86	-0.22
11,304.0	91.50	357.40	7,999.4	3,475.7	22.2	3,475.7	0.54	0.00	-0.54
11,398.0	91.00	358.10	7,997.4	3,569.6	18.5	3,569.6	0.91	-0.53	0.74
11,494.0	90.70	358.50	7,995.9	3,665.5	15.6	3,665.5	0.52	-0.31	0.42
11,587.0	89.80	359.00	7,995.5	3,758.5	13.6	3,758.5	1.11	-0.97	0.54
11,681.0	90.60	358.80	7,995.2	3,852.5	11.8	3,852.4	0.88	0.85	-0.21



Stryker Directional Survey Report



Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Myox 32 State #1H
Project:	Eddy County, NM	TVD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Site:	Myox 32 State #1H	MD Reference:	GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)
Well:	Myox 32 State #1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)	
11,775.0	90.70	0.40	7,994.1	3,946.4	11.1	3,946.4	1.71	0.11	1.70	
11,870.0	88.70	1.60	7,994.6	4,041.4	12.8	4,041.4	2.46	-2.11	1.26	
11,965.0	88.40	1.50	7,997.0	4,136.4	15.4	4,136.4	0.33	-0.32	-0.11	
12,059.0	86.70	0.40	8,001.1	4,230.3	16.9	4,230.3	2.15	-1.81	-1.17	
12,151.0	85.30	357.80	8,007.5	4,322.0	15.5	4,322.0	3.20	-1.52	-2.83	
12,246.0	85.90	2.90	8,014.8	4,416.7	16.1	4,416.7	5.39	0.63	5.37	
12,340.0	86.90	4.80	8,020.7	4,510.3	22.4	4,510.3	2.28	1.06	2.02	
12,434.0	87.50	4.60	8,025.3	4,603.9	30.0	4,604.0	0.67	0.64	-0.21	
12,460.0	87.60	5.00	8,026.4	4,629.8	32.2	4,629.9	1.58	0.38	1.54	
12,510.0	87.60	5.00	8,028.5	4,679.5	36.6	4,679.7	0.00	0.00	0.00	
12510' MD Projected to Bit - PBHL Myox 32 State #1H										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,330.0	7,328.6	-32.0	-15.5	7330' MD VES Gyro Survey
12,510.0	8,028.5	4,679.5	36.6	12510' MD Projected to Bit



COMPANY: Concho Oil and Gas
WELL: Myox 32 State #1H
COUNTY: Eddy County, NM
DATUM: NAD 1927 (NADCON CONUS)
RIG: Silver Oak #7

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.43°



OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico East 3001						
GL 3003.4 + 18 @ 3021.4usft (Silver Oak #7)						
GROUND ELEVATION: 3003.4						
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Spot
0.0	0.0	392658.30	570188.70	32° 4' 45.590 N	104° 6' 24.189 W	

PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target	
1	7330.0	1.30	194.77	7328.6	-32.0	-15.5	0.00	0.00	-32.1		
2	7513.5	1.30	194.77	7512.1	-36.0	-16.6	0.00	0.00	-36.1		
3	8274.0	90.00	0.68	8000.0	441.4	-13.7	12.00	165.90	441.2		
4	12528.8	90.00	0.68	8000.0	4695.9	36.6	0.00	0.00	4696.0	PBHL Myox 32 State #1H	

