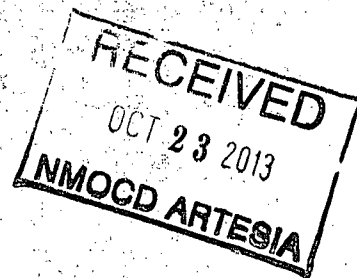


PATRIOT DRILLING, LLC

30-013-41521

OPERATOR: COG Operating, LLC
WELL/LEASE: MYOX 32 Fee # 2 H
COUNTY: COG Operating, LLC
Sec. 32, T25S, R28E



**STATE OF NEW MEXICO
DEVIATION REPORT**

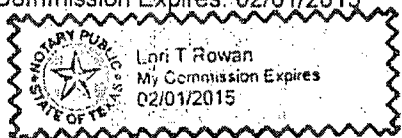
<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
358	1 1/4	3,379	1/2
528	1 1/4	3,660	1
885	1	6,870	1 1/4
979	1	4,185	1
1,168	3/4	4,531	1 1/4
1,263	1	4,847	2
1,454	1 1/4	5,129	1 1/4
1,643	2 1/2	5,917	2 1/4
1,738	2 1/2	6,134	3
1,928	1 3/4	6,460	2 1/4
2,119	3	6,554	1 1/4
2,214	2 3/4	6,649	1/2
2,258	2 1/4	6,838	1 1/4
2,583	1 3/4	7,027	1
2,965	1 1/2	7,342	2
3,660	1	7,406	3

Patriot Drilling, LLC

M. Leroy Peterson, Executive Vice-
President

The foregoing instrument was acknowledged before me on this 11th day of
September, 2013 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling,

My Commission Expires: 02/01/2015


Lori T. Rowan
Notary Public for Ector Co., Texas



A GYRO TECHNOLOGIES INC. COMPANY

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

September 4, 2013

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

Attn: Kanicia Castillo

RE: Myox 32 Fee No. 002H

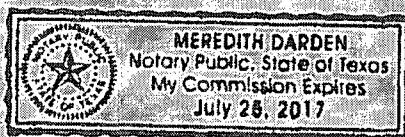
Please find enclosed a copy of the survey from 0.00' to 7270.00' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 4th day of September A.D., 2013, by Keith Havelka.




Meredith Darden
Notary Public, State of Texas



Company: COG OPERATING LLC (CONCHO)

Lease/Well: Myox 32 Fee /No. 002H

Location: Sec 32 T25S R28E

Rig Name: Patriot #2

State/County: New Mexico/Eddy

Latitude: 32.09, Longitude: -104.11

GRID North is 0.12 Degrees East of True North

VS-Azi: 0.00 Degrees



Depth Reference : RKB 17 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: myox 32 fed #2h-de_01.ut

Minimum Curvature Method

Report Date/Time: 9/4/2013 / 09:11

Vaughn Energy Services

West, Texas

432-563-5444

Surveyor: Chris Bankson

Myox 32 Fee No. 002H / API 30-015-41521

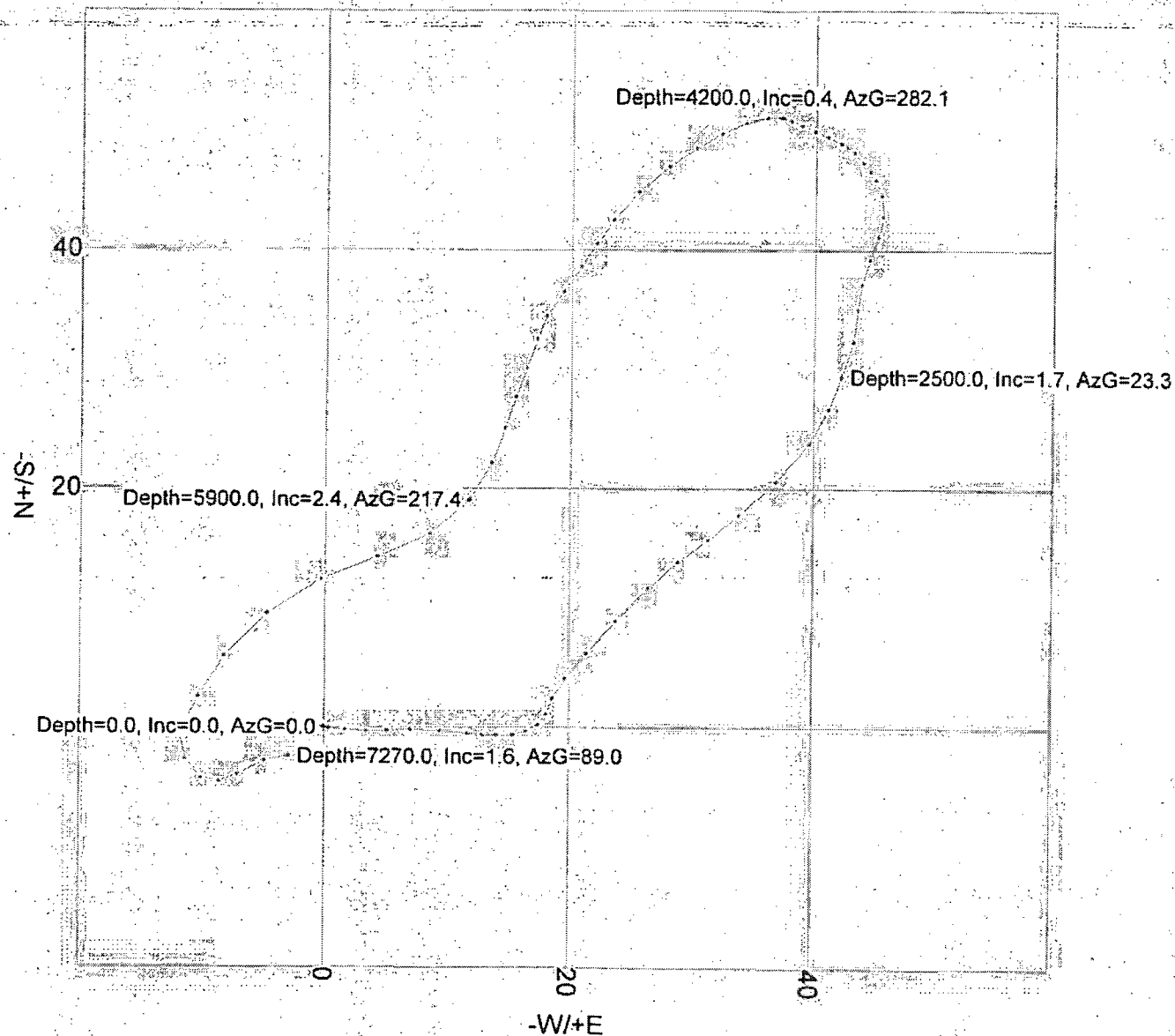
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	----
100.00	0.47	97.32	100.00	-0.05	0.40	-0.05	0.41	97.32	0.47
200.00	1.01	96.97	199.99	-0.21	1.68	-0.21	1.69	97.14	0.54
300.00	1.00	90.23	299.97	-0.32	3.43	-0.32	3.44	95.35	0.12
400.00	0.93	86.74	399.96	-0.28	5.10	-0.28	5.11	93.12	0.09
500.00	1.27	88.53	499.94	-0.20	7.03	-0.20	7.03	91.66	0.35
600.00	1.51	94.54	599.91	-0.28	9.45	-0.28	9.46	91.69	0.28
700.00	1.08	97.89	699.89	-0.51	11.70	-0.51	11.71	92.51	0.44
800.00	0.37	91.79	799.88	-0.65	12.96	-0.65	12.97	92.88	0.71
900.00	0.95	88.83	899.87	-0.65	14.11	-0.65	14.12	92.62	0.57
1000.00	0.59	89.54	999.86	-0.62	15.45	-0.62	15.46	92.32	0.35
1100.00	0.71	60.83	1099.86	-0.32	16.51	-0.32	16.51	91.10	0.34
1200.00	0.57	57.01	1199.85	0.26	17.47	0.26	17.48	89.15	0.15
1300.00	0.71	23.29	1299.84	1.10	18.14	1.10	18.17	86.53	0.39
1400.00	0.92	20.33	1399.83	2.42	18.66	2.42	18.82	82.61	0.22
1500.00	1.37	38.38	1499.81	4.11	19.68	4.11	20.11	78.21	0.57
1600.00	1.81	40.78	1599.77	6.24	21.45	6.24	22.34	73.78	0.45
1700.00	2.31	42.18	1699.71	8.94	23.84	8.94	25.46	69.46	0.50
1800.00	2.01	45.61	1799.64	11.66	26.45	11.66	28.91	66.22	0.33

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	1.76	50.76	1899.58	13.85	28.89	13.85	32.04	64.38	0.31
2000.00	1.73	53.89	1999.54	15.71	31.30	15.71	35.02	63.34	0.10
2100.00	2.10	49.56	2099.48	17.79	33.91	17.79	38.29	62.32	0.40
2200.00	2.68	45.26	2199.39	20.62	38.96	20.62	42.33	60.84	0.60
2300.00	2.14	33.58	2299.31	23.82	39.66	23.82	46.26	59.00	0.73
2400.00	1.61	21.98	2399.25	26.69	41.22	26.69	49.10	57.08	0.65
2500.00	1.73	23.35	2499.21	29.37	42.34	29.37	51.53	55.25	0.12
2600.00	1.84	12.81	2599.16	32.32	43.29	32.32	54.03	53.26	0.35
2700.00	1.31	0.81	2699.12	35.03	43.67	35.03	55.98	51.27	0.62
2800.00	1.13	14.76	2799.10	37.12	43.93	37.12	57.51	49.81	0.34
2900.00	1.44	22.00	2899.08	39.23	44.65	39.23	59.44	48.70	0.35
3000.00	0.89	18.40	2999.06	41.14	45.37	41.14	61.24	47.80	0.55
3100.00	1.09	5.52	3099.04	42.83	45.71	42.83	62.64	46.86	0.30
3200.00	0.95	344.75	3199.03	44.58	45.58	44.58	63.76	45.64	0.39
3300.00	0.65	329.59	3299.02	45.88	45.08	45.88	64.32	44.49	0.36
3400.00	0.33	324.71	3399.01	46.60	44.62	46.60	64.52	43.75	0.33
3500.00	0.77	319.31	3499.01	47.35	44.02	47.35	64.65	42.91	0.45
3600.00	0.56	314.64	3599.00	48.20	43.23	48.20	64.75	41.89	0.22
3700.00	0.95	299.37	3698.99	48.95	42.17	48.95	64.60	40.74	0.44
3800.00	0.57	289.91	3798.98	49.52	40.98	49.52	64.28	39.61	0.40
3900.00	0.74	295.36	3898.98	49.97	39.93	49.97	63.96	38.63	0.18
4000.00	0.60	293.96	3998.97	50.46	38.86	50.46	63.69	37.60	0.14
4100.00	0.52	294.05	4098.96	50.86	37.96	50.86	63.47	36.74	0.08
4200.00	0.36	282.12	4198.96	51.11	37.24	51.11	63.24	36.08	0.18
4300.00	1.01	264.03	4298.95	51.09	36.05	51.09	62.52	35.21	0.67
4400.00	1.14	250.40	4398.94	50.66	34.23	50.66	61.14	34.05	0.29
4500.00	1.33	241.90	4498.91	49.78	32.27	49.78	59.32	32.95	0.26
4600.00	1.48	238.62	4598.88	48.56	30.14	48.56	57.16	31.83	0.17
4700.00	1.62	232.33	4698.85	47.03	27.92	47.03	54.69	30.70	0.22
4800.00	2.15	225.36	4798.79	44.84	25.47	44.84	51.57	29.60	0.58
4900.00	1.41	214.03	4898.74	42.50	23.44	42.50	48.54	28.88	0.82
5000.00	1.34	214.15	4998.71	40.51	22.10	40.51	46.15	28.61	0.08
5100.00	1.27	213.08	5098.69	38.62	20.84	38.62	43.88	28.35	0.07
5200.00	1.69	216.75	5198.65	36.51	19.35	36.51	41.32	27.93	0.43
5300.00	1.14	209.24	5298.62	34.46	17.99	34.46	38.87	27.56	0.58
5400.00	1.29	194.92	5398.60	32.51	17.21	32.51	36.79	27.90	0.34
5500.00	1.65	201.96	5498.57	30.09	16.38	30.09	34.26	28.57	0.40
5600.00	1.30	196.98	5598.54	27.66	15.51	27.66	31.71	29.28	0.37
5700.00	1.81	199.06	5698.50	25.08	14.67	25.08	29.06	30.31	0.61

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	1.80	200.99	5798.45	22.13	13.59	22.13	25.97	31.55	0.06
5900.00	2.36	217.42	5898.38	19.03	11.78	19.03	22.38	31.75	0.81
6000.00	2.66	239.10	5998.29	16.21	8.53	16.21	18.32	27.77	0.99
6100.00	2.79	251.69	6098.18	14.25	4.23	14.25	14.86	16.52	0.61
6200.00	2.87	243.62	6198.06	12.37	-0.33	12.37	12.38	358.49	0.40
6300.00	3.18	230.71	6297.92	9.50	-4.71	9.50	10.61	333.63	0.75
6400.00	2.54	216.59	6397.79	5.97	-8.18	5.97	10.13	306.10	0.94
6500.00	2.06	204.95	6497.71	2.56	-10.26	2.56	10.57	283.99	0.67
6600.00	0.71	209.52	6597.68	0.39	-11.32	0.39	11.33	271.97	1.35
6700.00	0.78	189.50	6697.67	-0.82	-11.74	-0.82	11.77	265.98	0.27
6800.00	1.54	155.43	6797.65	-2.72	-11.30	-2.72	11.62	256.47	0.99
6900.00	0.95	116.73	6897.63	-4.31	-10.00	-4.31	10.89	246.67	0.99
7000.00	0.86	83.61	6997.62	-4.60	-8.51	-4.60	9.67	241.60	0.52
7100.00	1.06	53.67	7097.61	-3.97	-7.02	-3.97	8.06	240.49	0.53
7200.00	1.73	67.57	7197.58	-2.85	-4.88	-2.85	5.65	239.73	0.74
7270.00	1.64	89.00	7267.55	-2.43	-2.90	-2.43	3.79	230.08	0.90



Vaughn Energy Services
West, Texas
432-563-5444
Surveyor: Chris Bankson
Myox 32 Fee No. 002H / API 30-015-41521



VES Survey Date: 08/28/2013



Concho COG Operating LLC

Eddy County, New Mexico

Myox 32 Fee

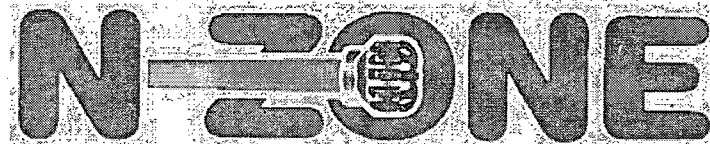
Myox 32 Fee Well 2H

Original Hole

Design: Surveys Original Hole

Standard_report

04 September, 2013





Standard_report

N-EONE

Company:	Concho COG Operating LLC	Local Co-ordinate Reference:	Well Myox 32 Fee Well 2H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=2975.1+17 @ 2992.10usft (Patriot 2)
Site:	Myox 32 Fee	MD Reference:	RKB=2975.1+17 @ 2992.10usft (Patriot 2)
Well:	Myox 32 Fee Well 2H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original Hole	Database:	EDM 5000.1 Database

Project	Eddy County, New Mexico		
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 Fee				
Site Position:		Northing:	397,483.55 usft	Latitude:	32° 5' 33.37080000 N
From:	Lat/Long	Easting:	588,869.28 usft	Longitude:	104° 6' 39.40820000 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16	Grid Convergence:	0.12°

Well	Myox 32 Fee Well 2H					
Well Position	+N/-S	0.00 usft	Northing:	397,483.40 usft	Latitude:	32° 5' 33.38932384 N
	+E/-W	0.00 usft	Easting:	588,869.30 usft	Longitude:	104° 6' 39.40899457 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,975.10 usft

Wellbore	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	8/1/2013	7.56	59.92	48,268

Design	Surveys Original Hole				
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	180.56	



Standard_report

N=ONE

Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: Myox 32 Fee
Well: Myox 32 Fee Well 2H
Wellbore: Original Hole
Design: Surveys Original Hole

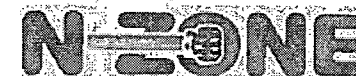
Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Database

Survey Program	Date 9/4/2013				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	7,270.00	Gyro (Original Hole)	NS-GYRO-MS	North sensing gyrocompassing m/s	
7,342.00	12,445.00	MWD (Original Hole)	MWD	MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLag ("/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	397,483.40	568,869.30
100.00	0.47	87.32	100.00	-0.05	0.41	0.47	0.05	397,483.35	568,869.71
Gyro									
200.00	1.01	86.97	199.99	-0.21	1.69	0.54	0.19	397,483.19	568,870.99
300.00	1.00	80.23	299.97	-0.32	3.44	0.12	0.29	397,483.08	568,872.74
400.00	0.93	88.74	399.96	-0.28	5.12	0.09	0.23	397,483.12	568,874.42
500.00	1.27	88.53	499.94	-0.20	7.04	0.34	0.14	397,483.20	568,876.34
600.00	1.51	94.54	599.91	-0.28	9.48	0.28	0.19	397,483.12	568,878.76
700.00	1.08	97.89	699.89	-0.51	11.71	0.44	0.40	397,482.89	568,881.01
800.00	0.37	91.79	799.88	-0.65	12.96	0.71	0.53	397,482.75	568,882.26
900.00	0.95	88.83	899.87	-0.65	14.11	0.58	0.51	397,482.75	568,883.41
1,000.00	0.59	89.54	999.86	-0.63	15.46	0.36	0.47	397,482.77	568,884.76
1,100.00	0.71	60.83	1,099.85	-0.32	16.51	0.34	0.18	397,483.08	568,885.81
1,200.00	0.57	57.01	1,199.85	0.25	17.47	0.15	-0.42	397,483.65	568,886.77
1,300.00	0.71	23.29	1,299.84	1.09	18.13	0.39	-1.27	397,484.49	568,887.43
1,400.00	0.92	20.33	1,399.83	2.41	18.66	0.21	-2.60	397,485.81	568,887.98
1,500.00	1.37	38.38	1,499.81	4.10	19.68	0.57	-4.30	397,487.50	568,888.98
1,600.00	1.81	40.78	1,599.77	6.24	21.45	0.44	-6.45	397,489.84	568,890.75
1,700.00	2.31	42.18	1,699.71	8.93	23.84	0.50	-9.16	397,492.33	568,893.14
1,800.00	2.01	45.61	1,799.64	11.65	26.44	0.33	-11.91	397,495.05	568,895.74
1,900.00	1.76	50.76	1,899.58	13.85	28.89	0.30	-14.13	397,497.25	568,898.19



Standard_report



Company: Concho COG Operating LLC
 Project: Eddy County, New Mexico
 Site: Myox 32 Fee
 Well: Myox 32 Fee Well 2H
 Wellbore: Original Hole
 Design: Surveys Original Hole

Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
 TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
 MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Database

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
2,000.00	1.73	53.89	1,999.54	15.71	31.29	0.10	-18.01	397,499.11	568,900.59
2,100.00	2.10	49.56	2,089.48	17.78	33.91	0.40	-18.12	397,501.18	568,903.21
2,200.00	2.68	45.26	2,199.39	20.82	36.98	0.61	-20.98	397,504.02	568,906.26
2,300.00	2.14	33.58	2,299.31	23.82	39.68	0.73	-24.21	397,507.22	568,908.96
2,400.00	1.81	21.98	2,399.25	28.88	41.21	0.85	-27.08	397,510.08	568,910.51
2,500.00	1.73	23.35	2,499.21	29.37	42.34	0.13	-29.78	397,512.77	568,911.84
2,600.00	1.84	12.81	2,599.16	32.32	43.29	0.35	-32.74	397,515.72	568,912.59
2,700.00	1.31	0.81	2,699.12	35.03	43.67	0.62	-35.45	397,518.43	568,912.97
2,800.00	1.13	14.76	2,799.10	37.12	43.93	0.35	-37.55	397,520.52	568,913.23
2,900.00	1.44	22.00	2,899.08	39.24	44.65	0.35	-39.68	397,522.64	568,913.95
3,000.00	0.89	18.40	2,999.06	41.14	45.37	0.55	-41.58	397,524.54	568,914.67
3,100.00	1.09	5.52	3,099.04	42.83	45.71	0.30	-43.27	397,526.23	568,915.01
3,200.00	0.95	344.75	3,199.03	44.57	45.58	0.39	-45.02	397,527.97	568,914.88
3,300.00	0.65	329.59	3,299.02	45.86	45.08	0.36	-46.30	397,529.26	568,914.38
3,400.00	0.33	324.71	3,399.01	46.59	44.62	0.32	-47.02	397,529.99	568,913.92
3,500.00	0.77	319.31	3,499.01	47.33	44.02	0.44	-47.76	397,530.73	568,913.32
3,600.00	0.58	314.64	3,599.00	48.18	43.23	0.22	-48.80	397,531.58	568,912.53
3,700.00	0.95	299.37	3,698.99	48.93	42.16	0.44	-49.34	397,532.33	568,911.46
3,800.00	0.57	289.91	3,798.98	49.51	40.97	0.40	-49.91	397,532.91	568,910.27
3,900.00	0.74	295.36	3,898.98	49.96	39.92	0.18	-50.34	397,533.36	568,909.22
4,000.00	0.60	293.96	3,998.97	50.45	38.86	0.14	-50.82	397,533.85	568,908.16
4,100.00	0.52	294.05	4,098.96	50.84	37.97	0.08	-51.21	397,534.24	568,907.27
4,200.00	0.36	282.12	4,198.96	51.09	37.24	0.18	-51.46	397,534.49	568,906.54
4,300.00	1.01	284.03	4,298.95	51.07	36.06	0.68	-51.42	397,534.47	568,905.36
4,400.00	1.14	250.40	4,398.94	50.64	34.25	0.29	-50.98	397,534.04	568,903.55
4,500.00	1.33	241.90	4,498.91	49.76	32.29	0.26	-50.08	397,533.16	568,901.59
4,600.00	1.48	238.62	4,598.88	48.54	30.16	0.17	-48.84	397,531.94	568,899.45



Standard_report

N-ONE

Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: Myox 32 Fee
Well: Myox 32 Fee Well 2H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Database

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
4,700.00	1.62	232.33	4,698.85	47.01	27.94	0.22	-47.28	397,530.41	568,897.24
4,800.00	2.15	225.36	4,798.78	44.83	25.48	0.58	-45.07	397,528.23	568,894.78
4,900.00	1.41	214.03	4,898.74	42.49	23.46	0.82	-42.71	397,525.89	568,892.76
5,000.00	1.34	214.15	4,998.71	40.50	22.12	0.07	-40.71	397,523.90	568,891.42
5,100.00	1.27	213.08	5,098.69	38.80	20.85	0.07	-38.81	397,522.00	568,890.15
5,200.00	1.69	216.75	5,198.66	36.49	19.37	0.43	-36.66	397,519.89	568,888.67
5,300.00	1.14	209.24	5,298.62	34.44	18.00	0.58	-34.82	397,517.84	568,887.30
5,400.00	1.29	194.92	5,398.60	32.49	17.22	0.34	-32.66	397,515.89	568,886.52
5,500.00	1.65	201.96	5,498.57	30.07	16.40	0.40	-30.22	397,513.47	568,885.70
5,600.00	1.30	196.98	5,598.54	27.65	15.53	0.37	-27.80	397,511.05	568,884.83
5,700.00	1.81	199.08	5,698.50	25.07	14.68	0.51	-25.21	397,508.47	568,883.98
5,800.00	1.80	200.99	5,798.45	22.11	13.60	0.06	-22.24	397,505.51	568,882.90
5,900.00	2.36	217.42	5,898.38	19.01	11.79	0.81	-19.12	397,502.41	568,881.09
6,000.00	2.66	239.10	5,998.29	16.18	8.54	0.99	-16.26	397,499.58	568,877.84
6,100.00	2.78	251.89	6,098.18	14.22	4.24	0.81	-14.27	397,497.62	568,873.54
6,200.00	2.87	243.62	6,198.06	12.35	-0.31	0.41	-12.34	397,495.75	568,868.99
6,300.00	3.18	230.71	6,297.92	9.48	-4.70	0.75	-9.43	397,492.88	568,864.60
6,400.00	2.54	218.59	6,397.79	5.94	-8.17	0.95	-5.66	397,489.34	568,861.13
6,500.00	2.05	204.95	6,497.71	2.53	-10.25	0.67	-2.43	397,485.93	568,859.05
6,600.00	0.71	209.52	6,597.68	0.37	-11.31	1.35	-0.25	397,483.77	568,857.99
6,700.00	0.78	189.50	6,697.67	-0.85	-11.73	0.27	0.96	397,482.55	568,857.57
6,800.00	1.54	155.43	6,797.65	-2.74	-11.28	0.99	2.85	397,480.66	568,858.02
6,900.00	0.95	116.73	6,897.63	-4.33	-9.98	1.00	4.43	397,479.07	568,858.32
7,000.00	0.86	83.61	6,997.62	-4.62	-8.50	0.52	4.71	397,478.78	568,860.80
7,100.00	1.06	53.67	7,097.61	-3.89	-7.00	0.53	4.08	397,479.41	568,862.30
7,200.00	1.73	67.57	7,197.58	-2.87	-4.66	0.75	2.91	397,480.53	568,864.44
7,270.00	1.64	89.00	7,267.55	-2.45	-2.89	0.90	2.47	397,480.95	568,866.41



Standard_report

N-EONE

Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: Myox 32 Fee
Well: Myox 32 Fee Well 2H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Database

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
7,342.00	1.80	128.90	7,339.52	-3.14	-0.98	1.64	3.15	397,460.26	568,868.32
MWD surveys									
7,374.00	2.20	129.80	7,371.50	-3.85	-0.11	1.25	3.85	397,478.55	568,869.19
7,406.00	2.80	160.10	7,403.47	-5.00	0.63	4.87	5.00	397,478.40	568,869.93
7,437.00	4.40	182.10	7,434.40	-6.93	0.86	6.54	6.92	397,476.47	568,870.18
7,469.00	6.60	190.10	7,466.26	-8.97	0.49	7.26	9.98	397,473.43	568,869.79
7,501.00	9.20	192.20	7,497.95	-14.28	-0.37	8.17	14.28	397,469.12	568,868.93
7,533.00	11.00	194.10	7,529.45	-19.74	-1.66	5.72	19.75	397,463.66	568,867.64
7,564.00	12.10	197.80	7,559.82	-25.70	-3.37	4.28	25.73	397,457.70	568,865.93
7,596.00	14.40	200.10	7,590.97	-32.63	-5.76	7.37	32.69	397,450.77	568,863.54
7,628.00	16.10	206.70	7,621.84	-40.33	-9.13	7.59	40.42	397,443.07	568,860.17
7,659.00	17.80	206.30	7,651.50	-48.42	-13.16	5.50	48.55	397,434.98	568,858.14
7,691.00	20.90	202.70	7,681.89	-58.06	-17.53	10.38	58.24	397,425.32	568,851.77
7,723.00	24.10	198.10	7,711.25	-69.58	-21.76	11.41	69.76	397,413.84	568,847.54
7,754.00	27.80	194.20	7,739.12	-82.58	-25.50	13.14	82.83	397,400.82	568,843.80
7,786.00	31.40	191.60	7,766.94	-97.99	-29.01	11.94	98.27	397,385.41	568,840.29
7,818.00	35.50	180.40	7,793.64	-115.30	-32.37	12.98	115.61	397,368.10	568,836.93
7,849.00	40.10	188.90	7,818.12	-134.03	-35.54	15.13	134.37	397,349.37	568,833.76
7,881.00	44.40	187.60	7,841.81	-155.32	-38.61	13.71	155.69	397,328.08	568,830.69
7,913.00	49.20	186.40	7,863.71	-178.47	-41.45	15.25	178.86	397,304.93	568,827.85
7,945.00	54.40	185.70	7,883.48	-203.46	-44.09	16.34	203.89	397,279.94	568,825.21
7,977.00	59.90	185.50	7,900.84	-230.21	-46.71	17.20	230.65	397,253.19	568,822.59
8,009.00	65.10	184.60	7,915.15	-257.59	-49.13	16.97	258.06	397,225.81	568,820.17
8,040.00	69.90	182.90	7,927.39	-287.08	-51.05	15.78	287.57	397,196.32	568,818.25
8,072.00	74.90	181.10	7,937.07	-317.55	-52.11	16.52	318.05	397,165.85	568,817.19
8,103.00	80.00	179.70	7,943.80	-347.80	-52.32	17.03	348.30	397,135.60	568,816.98
8,135.00	86.00	179.40	7,947.70	-379.55	-52.07	18.77	380.04	397,103.85	568,817.23



Standard_report



Company: Concho COG Operating LLC
 Project: Eddy County, New Mexico
 Site: Myox 32 Fee
 Well: Myox 32 Fee Well 2H
 Wellbore: Original Hole
 Design: Surveys Original Hole

Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
 TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
 MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Database

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
8,167.00	89.50	179.00	7,948.85	-411.51	-51.62	11.01	412.00	397,071.89	568,817.68
8,281.00	91.50	178.90	7,948.13	-505.49	-49.90	2.13	505.95	396,977.91	568,819.40
8,356.00	92.30	178.70	7,944.98	-600.42	-47.91	0.87	600.86	396,882.98	568,821.39
8,452.00	91.30	179.70	7,941.97	-696.36	-46.57	1.47	696.78	396,787.04	568,822.73
8,547.00	88.60	179.40	7,941.22	-791.35	-45.82	1.82	791.76	396,692.05	568,823.48
8,642.00	89.90	178.50	7,941.64	-886.34	-44.91	0.33	886.74	396,597.08	568,824.38
8,737.00	90.50	179.00	7,941.31	-981.33	-43.67	0.82	981.71	396,502.07	568,825.63
8,832.00	92.00	179.20	7,939.23	-1,076.30	-42.18	1.59	1,076.66	396,407.10	568,827.12
8,927.00	91.00	179.50	7,938.75	-1,171.28	-41.10	1.10	1,171.60	396,312.14	568,828.20
9,022.00	89.60	179.50	7,938.25	-1,266.25	-40.27	1.47	1,266.58	396,217.15	568,829.03
9,118.00	90.90	179.60	7,935.83	-1,362.24	-39.52	1.36	1,362.56	396,121.18	568,829.78
9,213.00	89.20	179.70	7,935.75	-1,457.24	-38.04	1.79	1,457.55	396,026.16	568,830.36
9,308.00	89.70	179.20	7,936.66	-1,552.23	-38.02	0.74	1,552.53	395,931.17	568,831.28
9,403.00	90.00	179.50	7,936.91	-1,647.22	-36.95	0.45	1,647.50	395,836.18	568,832.35
9,498.00	90.70	179.20	7,936.33	-1,742.21	-35.87	0.80	1,742.48	395,741.19	568,833.43
9,593.00	90.80	179.00	7,935.00	-1,837.19	-34.38	0.30	1,837.44	395,646.21	568,834.92
9,688.00	91.30	179.10	7,933.18	-1,932.16	-32.80	0.43	1,932.39	395,551.24	568,836.50
9,783.00	89.10	179.00	7,932.85	-2,027.14	-31.23	2.32	2,027.35	395,456.26	568,838.07
9,878.00	88.50	178.30	7,934.84	-2,122.09	-28.99	0.97	2,122.28	395,361.31	568,840.31
9,974.00	89.70	179.70	7,936.34	-2,218.06	-27.31	1.82	2,218.22	395,265.34	568,841.99
10,069.00	90.80	180.10	7,935.93	-2,313.05	-27.15	1.23	2,313.22	395,170.34	568,842.15
10,164.00	90.80	180.00	7,934.60	-2,408.05	-27.23	0.11	2,408.20	395,075.35	568,842.07
10,259.00	90.70	179.70	7,933.36	-2,503.04	-26.98	0.33	2,503.19	394,980.36	568,842.32
10,354.00	91.50	179.70	7,931.54	-2,598.02	-26.48	0.84	2,598.16	394,885.38	568,842.62
10,449.00	89.10	179.10	7,931.04	-2,693.01	-25.49	2.60	2,693.13	394,790.39	568,843.81
10,544.00	89.70	179.30	7,932.03	-2,787.99	-24.16	0.67	2,788.10	394,695.41	568,845.14
10,639.00	90.50	179.70	7,931.87	-2,882.99	-23.33	0.94	2,883.08	394,600.41	568,845.97



Standard_report



Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: Myox 32 Fee
Well: Myox 32 Fee Well 2H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Myox 32 Fee Well 2H
RKB=2975.1+17 @ 2992.10usft (Patriot 2)
RKB=2975.1+17 @ 2992.10usft (Patriot 2)
Grid
Minimum Curvature
EDM 5000.1 Database

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLag (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
10,735.00	92.10	180.70	7,929.69	-2,978.96	-23.87	1.97	2,978.05	394,504.44	568,845.63
10,830.00	92.70	180.40	7,925.71	-3,073.87	-24.58	0.71	3,073.96	394,409.53	568,844.72
10,925.00	91.90	179.80	7,921.90	-3,168.79	-24.75	1.05	3,168.88	394,314.61	568,844.55
11,020.00	91.10	180.10	7,919.41	-3,263.76	-24.66	0.90	3,263.85	394,219.64	568,844.84
11,115.00	89.40	180.00	7,919.00	-3,358.76	-24.75	1.79	3,358.84	394,124.64	568,844.55
11,211.00	90.10	179.70	7,918.42	-3,454.75	-24.49	0.79	3,454.83	394,028.65	568,844.81
11,306.00	90.70	179.80	7,918.75	-3,549.75	-24.08	0.84	3,549.82	393,933.65	568,845.22
11,401.00	91.50	179.60	7,916.93	-3,644.73	-23.58	0.87	3,644.79	393,838.67	568,845.72
11,495.00	90.00	179.70	7,915.70	-3,738.72	-23.01	1.60	3,738.76	393,744.68	568,846.29
11,590.00	90.50	179.40	7,915.28	-3,833.71	-22.26	0.61	3,833.75	393,649.69	568,847.04
11,685.00	91.20	179.20	7,913.67	-3,928.70	-21.10	0.77	3,928.71	393,554.70	568,848.20
11,780.00	91.80	178.80	7,911.39	-4,023.65	-19.44	0.78	4,023.65	393,459.75	568,849.68
11,875.00	92.40	178.50	7,907.91	-4,118.56	-17.21	0.71	4,118.53	393,364.84	568,852.09
11,970.00	90.20	178.30	7,905.75	-4,213.49	-14.58	2.33	4,213.43	393,269.91	568,854.74
12,065.00	89.80	179.70	7,905.92	-4,308.47	-12.90	1.60	4,308.39	393,174.93	568,858.40
12,159.00	89.30	179.00	7,906.62	-4,402.46	-11.83	0.81	4,402.37	393,080.94	568,857.47
12,254.00	90.70	180.70	7,906.82	-4,497.45	-11.58	2.32	4,497.35	392,985.95	568,857.72
12,350.00	91.30	181.00	7,905.14	-4,593.43	-13.01	0.70	4,593.34	392,889.97	568,856.28
12,396.00	91.40	181.20	7,904.06	-4,639.41	-13.89	0.49	4,639.32	392,843.99	568,855.41
12,446.00	91.40	181.20	7,902.84	-4,689.38	-14.94	0.00	4,689.30	392,794.02	568,854.38

Survey projected to 12446 MD



Standard_report

N-3ONE

Company: Concho COG Operating LLC
Project: Eddy County, New Mexico
Site: Myox 32 Fee
Well: Myox 32 Fee Well 2H
Wellbore: Original Hole
Design: Surveys Original Hole

Local Co-ordinate Reference: Well Myox 32 Fee Well 2H
TVD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
MD Reference: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Ddatabase

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
100.00	100.00	-0.05	0.41	Gyro
7,342.00	7,339.52	-3.14	-0.88	MWD surveys
12,446.00	7,902.84	-4,689.38	-14.84	Survey projected to 12446 MD

Checked By: _____ Approved By: _____ Date: _____



Concho COG Operating LLC
Eddy County, New Mexico
Myox 32 Fee
Myox 32 Fee Well 2H
rev2
Patriot 2

Section Details

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Annotation
1	8103.00	80.00	179.70	7943.80	-347.80	-52.32	0.00	0.00	348.29	Survey @ 8103 MD
2	8165.00	90.50	179.70	7948.93	-409.50	-51.99	16.94	0.00	409.99	Proj. Begin 5'/100' build/turn
3	8169.28	90.52	179.91	7948.89	-413.79	-51.98	5.00	84.33	414.27	Begin 90.52' lateral
4	12444.68	90.52	179.91	7910.00	-4689.00	-45.50	0.00	0.00	4689.22	PBHL/TD

ANNOTATIONS

TVD	MD	Inc	Azi	+N-S	+E-W	VSect	Departure	Annotation
100.00	100.00	0.47	97.32	-0.05	0.41	0.05	0.41	Gyro
7339.52	7342.00	1.80	128.90	-3.14	-0.98	3.15	172.98	MWD surveys
7902.84	12446.00	91.40	181.20	-4689.38	-14.94	4689.30	4866.96	Survey projected to 12446 MD

SURFACE LOCATION

Datum: RKB=2975.1+17 @ 2992.10usft (Patriot 2)
US State Plane 1927 (Exact solution)
New Mexico East 3001

+N-S	+E-W	Northing	Easting	Latitude	Longitude
0.00	0.00	397483.40	568969.30	32° 5' 33.36932364 N	04° 6' 39.40899457 W



Azinuths to Grid North
True North: -0.12°
Magnetic North: 7.64°

Magnetic Field
Strength: 48285.2nT
Dip Angle: 59.82°
Date: 8/1/2013
Model: IGRF2010

