

Results of Directional Survey

API number:	30-025-41130		
OGRID:		Operator:	COG PRODUCTION, LLC
		Property:	BIMINI 8 FEDERAL COM # 2H

surface	ULSTR:	B	08	T	24S	R	32E
				330	FNL	1655	FEL

BH Loc	ULSTR:	O	08	T	24S	R	32E
12828	MD	8572.6	TVD	297	FSL	1694	FEL
				4983	FNL		

Top Perf/OH	ULSTR:	B	08	T	24S	R	32E
8740	MD	8499.5	TVD	870	FNL	1672	FEL

Bot Perf/OH	ULSTR:	O	08	T	24S	R	32E
12770	MD	8960.6	TVD	355	FSL	1694	FEL
				4925	FNL		

	MD	N/S	E/W	VD
	8708	-538.00	-16.60	8498.9
TOP PERFS/OH	8740	-540.14	-16.77	8499.45
	9169	-568.80	-19.10	8506.80
	12705	-4530.00	-39.80	8961.42
BOT PERFS/OH	12770	-4595.00	-39.33	8960.60
	12774	-4599.00	-39.30	8960.55

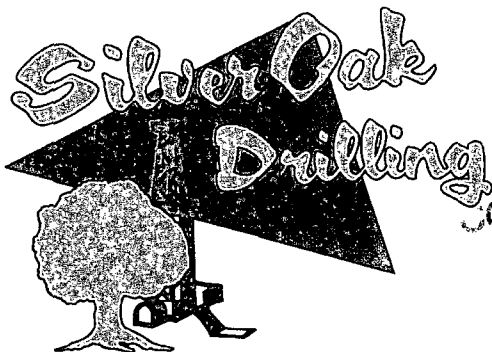
NEXT TO LAST	12774	-4599.00	-39.30	8960.55
LAST READING	12828	-4653.00	-39.00	8572.60
TD	12828	-4653.00	-39.00	8572.60

Surface Location	330	FN	1655	FE
Projected BHL	4983	FN	1694	FE
Location of				
Top Perfs/OH	870	FN	1672	FE
Bottom Perfs/OH	4925	FN	1694	FE

SUMMARY of Subsurface Locations

Surface Location	B-08-24S-32E	330	FN	1655	FE	Vert. Depth
Top Perfs/OH	B-08-24S-32E	870	FN	1672	FE	8499.45
Bottom Perfs/OH	O-08-24S-32E	4925	FN	1694	FE	8960.60
Projected TD	O-08-24S-32E	4983	FN	1694	FE	8572.60

DEC 02 2013



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

COG OPER, LLC
RECEIVED
AUG 27 2013
ARTESIA WEST

HOBBS OCD

OCT 29 2013

August 19, 2013

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

RECEIVED

RE: Bimini 8 Federal Com #2H
330' FNL & 1655' FEL
Sec. 8, T24S, R32E
Lea County, New Mexico

Dear Sir,

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

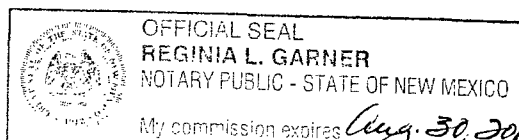
Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 19th day of August, 2013.

Notary Public



Bimini 8 Fed Com #2H

Date	Depth	Dev	Dir	TVD	Horiz Disp
7/27/2013	238	0.50	0.00	0.00	0.00
7/27/2013	477	0.70	0.00	0.00	0.00
7/27/2013	721	0.10	0.00	0.00	0.00
7/30/2013	1245	0.70	0.00	0.00	0.00
7/30/2013	1472	1.20	0.00	0.00	0.00
7/30/2013	1725	1.10	177.70	1724.00	0.00
7/30/2013	2004	1.10	187.70	2003.80	0.00
7/30/2013	2290	1.00	190.40	2289.76	0.00
7/30/2013	2577	1.10	164.70	2576.71	0.00
7/31/2013	2863	1.40	148.20	2862.60	0.00
7/31/2013	3435	1.30	58.90	3434.00	0.00
7/31/2013	3722	0.60	35.30	3721.49	0.00
8/1/2013	4008	0.04	135.20	4007.50	0.00
8/1/2013	4293	1.40	121.10	4292.00	0.00
8/2/2013	4579	1.70	165.40	4578.30	0.00
8/2/2013	4618	1.50	171.60	4617.30	0.00
8/4/2013	4831	0.80	0.00	0.00	0.00
8/4/2013	5274	1.30	0.00	0.00	0.00
8/4/2013	5720	0.20	0.00	0.00	0.00
8/4/2013	6102	0.80	0.00	0.00	0.00
8/5/2013	6544	0.80	0.00	0.00	0.00
8/5/2013	6989	0.70	0.00	0.00	0.00
8/5/2013	7467	0.30	0.00	0.00	0.00
8/6/2013	7978	0.70	148.70	7977.07	0.00
8/6/2013	8010	2.10	183.30	8009.06	0.00
8/7/2013	8073	11.20	185.10	8071.56	0.00
8/7/2013	8137	19.30	187.00	8133.37	0.00
8/7/2013	8168	22.60	186.90	8162.31	0.00
8/7/2013	8321	29.60	192.30	8219.01	132.36
8/7/2013	8295	37.50	195.80	8272.20	166.81
8/7/2013	8327	40.90	193.50	8297.00	186.39
8/7/2013	8358	43.50	189.90	8319.96	206.79
8/7/2013	8543	51.30	189.50	8384.09	276.14
8/7/2013	8549	60.30	186.20	8438.77	354.07
8/8/2013	8612	66.50	181.90	8467.09	0.00
8/8/2013	8676	71.80	183.50	8489.68	0.00
8/8/2013	8740	77.60	184.60	8507.21	0.00
8/8/2013	8871	82.80	183.20	8512.48	561.81
8/8/2013	8800	87.90	183.00	8514.83	590.67
8/9/2013	8895	89.50	181.80	8516.99	0.00
8/9/2013	9086	89.50	182.30	8518.82	0.00
8/9/2013	9181	90.00	182.10	8519.24	0.00
8/9/2013	9276	90.00	181.40	8519.24	0.00

Date	Depth	Dev	Dir	TVD	Horiz Disp
8/10/2013	9371	87.70	181.40	8521.14	0.00
8/10/2013	9466	86.70	181.10	8525.78	0.00
8/10/2013	9561	87.10	181.10	8530.00	1351.00
8/10/2013	9751	90.30	181.90	8533.00	1540.00
8/10/2013	9847	90.10	182.60	8532.00	1637.00
8/10/2013	9942	90.30	183.00	8532.41	0.00
8/10/2013	10037	90.50	183.00	8531.75	0.00
8/11/2013	10133	89.30	183.70	8531.00	1922.00
8/11/2013	10228	88.20	182.50	8535.30	0.00
8/11/2013	10324	88.90	182.80	8536.21	0.00
8/12/2013	10419	88.90	181.10	8538.00	2208.00
8/12/2013	10515	88.10	181.10	8540.00	2304.00
8/12/2013	10609	88.30	180.70	8543.50	0.00
8/12/2013	10704	89.30	179.80	8545.48	0.00
8/13/2013	10800	89.30	179.80	8546.66	0.00
8/13/2013	10895	88.60	180.20	8548.40	0.00
8/13/2013	10991	89.00	179.70	8550.40	0.00
8/13/2013	11086	89.30	179.30	8551.00	2874.00
8/13/2013	11182	89.30	179.10	8552.00	2970.00
8/13/2013	11372	90.60	178.60	8556.06	3660.89
8/13/2013	11563	90.00	177.00	8555.06	3351.69
8/13/2013	11658	91.20	177.00	8554.06	3446.53
8/14/2013	11754	89.20	177.20	8553.73	0.00
8/14/2013	11849	91.00	177.40	8553.56	0.00
8/14/2013	12038	89.70	178.10	8552.00	3826.00
8/14/2013	12134	88.70	179.30	8554.00	3922.00
8/14/2013	12229	87.30	179.10	8557.63	4017.05
8/14/2013	12324	87.20	179.10	8562.19	4111.81
8/15/2013	12419	87.10	178.40	8566.91	4206.66
8/15/2013	12515	88.50	178.80	8510.60	4302.55
8/15/2013	12610	90.00	179.10	8571.00	4397.00
8/15/2013	12705	89.50	179.50	8572.00	4492.00



A GYRO-TECHNOLOGIES INC. COMPANY

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

August 9, 2013

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

HOBBS OCD

OCT 29 2013

RECEIVED

Attn: Kanicia Castillo

RE: Binimi 8 Federal Co No. 002

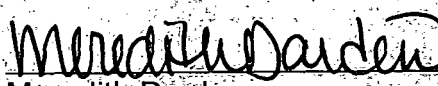
Please find enclosed a copy of the survey from 0.00' to 794000' ran on the above referenced well.

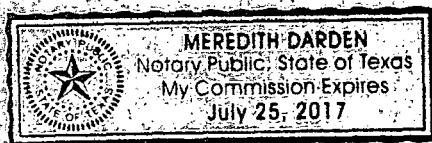
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 9th day of August
A.D. 2013, by Keith Havelka.


Meredith Darden
Notary Public, State of Texas





Company: COG Operating LLC (Concho)
Lease/Well: Bimini 8 Federal Com /No. 002H
Location: Sec 8 T24S R32E
Rig Name: Silver Oak #7
State/County: New Mexico/Lea
Latitude: 32.14, Longitude: -103.41
GRID North is 0.49 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB 19 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...i 8 fed com #2h gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 8/9/2013 / 11:37

Vaughn Energy Services

West, Texas

432-563-5444

Surveyor: Chris Bankson

Bimini 8 Federal Com No. 002 / API 30-025-41130

HOBBS OCD

OCT 29 2013

RECEIVED

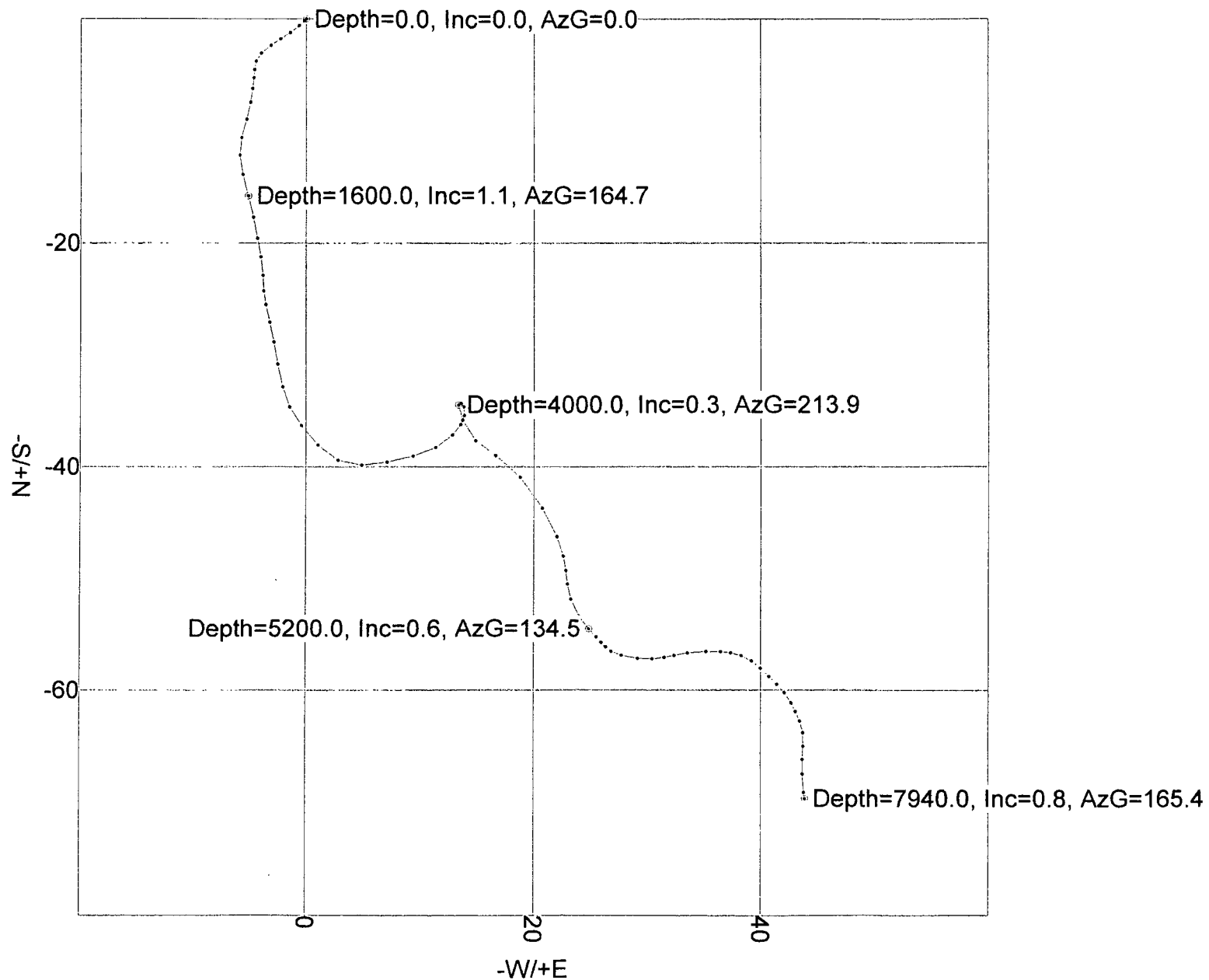
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.29	223.86	100.00	-0.18	-0.17	-0.18	0.25	223.86	0.29
200.00	0.44	230.35	200.00	-0.60	-0.64	-0.60	0.88	226.68	0.16
300.00	0.71	233.31	299.99	-1.22	-1.43	-1.22	1.88	229.61	0.27
400.00	0.45	240.55	399.99	-1.78	-2.27	-1.78	2.88	231.89	0.27
500.00	0.73	232.79	499.98	-2.36	-3.12	-2.36	3.91	232.90	0.29
600.00	0.52	231.69	599.98	-3.03	-3.99	-3.03	5.01	232.78	0.22
700.00	0.54	192.61	699.97	-3.76	-4.44	-3.76	5.82	229.72	0.35
800.00	0.34	185.94	799.97	-4.52	-4.58	-4.52	6.43	225.36	0.20
900.00	0.48	184.07	899.97	-5.24	-4.64	-5.24	6.99	221.51	0.14
1000.00	0.64	188.74	999.96	-6.21	-4.75	-6.21	7.82	217.42	0.16
1100.00	0.78	187.22	1099.95	-7.44	-4.92	-7.44	8.92	213.50	0.14
1200.00	1.01	195.24	1199.94	-8.96	-5.24	-8.96	10.38	210.31	0.26
1300.00	0.93	196.70	1299.93	-10.59	-5.70	-10.59	12.03	208.30	0.08
1400.00	0.89	174.17	1399.91	-12.14	-5.86	-12.14	13.48	205.76	0.36
1500.00	1.15	167.99	1499.90	-13.89	-5.57	-13.89	14.97	201.86	0.28
1600.00	1.10	164.67	1599.88	-15.80	-5.11	-15.80	16.60	197.93	0.08
1700.00	1.13	169.00	1699.86	-17.69	-4.67	-17.69	18.30	194.78	0.09
1800.00	1.04	169.43	1799.84	-19.56	-4.31	-19.56	20.03	192.44	0.09

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	0.91	169.43	1899.83	-21.23	-4.00	-21.23	21.61	190.67	0.13
2000.00	1.00	178.29	1999.81	-22.88	-3.83	-22.88	23.20	189.50	0.17
2100.00	0.60	174.99	2099.80	-24.27	-3.76	-24.27	24.56	188.80	0.40
2200.00	0.84	168.54	2199.80	-25.51	-3.57	-25.51	25.76	187.96	0.26
2300.00	1.02	166.60	2299.78	-27.09	-3.21	-27.09	27.28	186.77	0.18
2400.00	1.05	169.94	2399.77	-28.86	-2.85	-28.86	29.00	185.64	0.07
2500.00	1.26	170.74	2499.75	-30.85	-2.51	-30.85	30.95	184.65	0.21
2600.00	1.13	164.68	2599.73	-32.88	-2.07	-32.88	32.95	183.61	0.18
2700.00	1.03	156.40	2699.71	-34.66	-1.45	-34.66	34.69	182.40	0.18
2800.00	1.23	140.53	2799.69	-36.32	-0.41	-36.32	36.32	180.64	0.37
2900.00	1.38	139.12	2899.66	-38.06	1.07	-38.06	38.08	178.39	0.16
3000.00	1.25	113.63	2999.64	-39.41	2.86	-39.41	39.52	175.85	0.60
3100.00	1.20	89.77	3099.61	-39.85	4.91	-39.85	40.15	172.97	0.51
3200.00	1.40	77.53	3199.59	-39.58	7.16	-39.58	40.22	169.75	0.34
3300.00	1.25	74.72	3299.56	-39.02	9.41	-39.02	40.14	166.44	0.16
3400.00	1.20	63.18	3399.54	-38.26	11.41	-38.26	39.93	163.40	0.25
3500.00	0.96	40.01	3499.52	-37.15	12.88	-37.15	39.32	160.88	0.50
3600.00	0.37	31.47	3599.51	-36.23	13.58	-36.23	38.70	159.45	0.59
3700.00	0.62	15.47	3699.51	-35.43	13.90	-35.43	38.06	158.58	0.28
3800.00	0.37	327.90	3799.51	-34.64	13.87	-34.64	37.31	158.17	0.46
3900.00	0.11	293.85	3899.51	-34.33	13.62	-34.33	36.93	158.36	0.28
4000.00	0.28	213.91	3999.51	-34.49	13.40	-34.49	37.00	158.77	0.28
4100.00	1.43	156.44	4099.49	-35.83	13.76	-35.83	38.39	158.99	1.30
4200.00	1.08	136.72	4199.47	-37.66	14.90	-37.66	40.50	158.41	0.55
4300.00	1.44	120.31	4299.45	-38.98	16.63	-38.98	42.38	156.89	0.51
4400.00	1.94	141.23	4399.40	-40.93	18.78	-40.93	45.04	155.35	0.79
4500.00	1.97	148.80	4499.34	-43.73	20.73	-43.73	48.39	154.63	0.26
4600.00	1.31	158.30	4599.30	-46.27	22.05	-46.27	51.25	154.52	0.71
4700.00	0.78	167.58	4699.29	-48.00	22.62	-48.00	53.06	154.77	0.55
4800.00	0.70	172.84	4799.28	-49.27	22.84	-49.27	54.31	155.13	0.11
4900.00	0.72	173.91	4899.27	-50.50	22.99	-50.50	55.48	155.53	0.03
5000.00	0.88	160.80	4999.26	-51.85	23.30	-51.85	56.84	155.80	0.24
5100.00	1.04	149.53	5099.25	-53.35	24.02	-53.35	58.51	155.77	0.25
5200.00	0.62	134.48	5199.24	-54.52	24.87	-54.52	59.92	155.48	0.47
5300.00	0.49	141.35	5299.23	-55.23	25.52	-55.23	60.84	155.20	0.15
5400.00	0.26	139.28	5399.23	-55.74	25.93	-55.74	61.47	155.05	0.24
5500.00	0.40	129.99	5499.23	-56.13	26.35	-56.13	62.01	154.86	0.15
5600.00	0.32	127.26	5599.23	-56.52	26.83	-56.52	62.57	154.60	0.08
5700.00	0.83	105.94	5699.22	-56.89	27.76	-56.89	63.30	153.99	0.55

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	0.83	96.68	5799.21	-57.17	29.17	-57.17	64.19	152.97	0.13
5900.00	0.67	85.23	5899.20	-57.21	30.47	-57.21	64.82	151.96	0.22
6000.00	0.54	80.98	5999.20	-57.09	31.52	-57.09	65.21	151.10	0.13
6100.00	0.48	72.96	6099.19	-56.89	32.39	-56.89	65.46	150.34	0.09
6200.00	0.92	83.34	6199.18	-56.67	33.59	-56.67	65.88	149.34	0.45
6300.00	0.94	87.99	6299.17	-56.55	35.20	-56.55	66.61	148.10	0.08
6400.00	0.53	95.64	6399.16	-56.57	36.48	-56.57	67.31	147.18	0.42
6500.00	0.49	97.92	6499.16	-56.67	37.36	-56.67	67.88	146.60	0.04
6600.00	0.62	109.60	6599.15	-56.91	38.30	-56.91	68.60	146.06	0.17
6700.00	0.55	125.87	6699.15	-57.38	39.19	-57.38	69.49	145.66	0.18
6800.00	0.61	133.68	6799.14	-58.02	39.97	-58.02	70.46	145.44	0.10
6900.00	0.60	135.44	6899.14	-58.77	40.72	-58.77	71.49	145.28	0.02
7000.00	0.53	135.14	6999.13	-59.46	41.41	-59.46	72.46	145.15	0.08
7100.00	0.64	142.88	7099.13	-60.24	42.07	-60.24	73.47	145.07	0.14
7200.00	0.60	151.85	7199.12	-61.15	42.66	-61.15	74.56	145.10	0.11
7300.00	0.39	155.46	7299.12	-61.92	43.05	-61.92	75.42	145.19	0.21
7400.00	0.67	156.37	7399.11	-62.77	43.43	-62.77	76.32	145.32	0.27
7500.00	0.58	174.29	7499.11	-63.80	43.71	-63.80	77.34	145.59	0.21
7600.00	0.80	183.11	7599.10	-65.00	43.72	-65.00	78.34	146.07	0.25
7700.00	0.53	183.46	7699.09	-66.16	43.65	-66.16	79.27	146.58	0.27
7800.00	0.96	177.89	7799.09	-67.47	43.66	-67.47	80.36	147.09	0.44
7900.00	0.91	174.40	7899.07	-69.10	43.77	-69.10	81.79	147.65	0.08
7940.00	0.75	165.38	7939.07	-69.67	43.86	-69.67	82.33	147.81	0.52



Vaughn Energy Services
West, Texas
432-563-5444
Surveyor: Chris Bankson
Binimi 8 Federal Com No. 002 / API 30-025-41130



VES Survey Date: 08/05/2013

Concho Oil and Gas

Lea County Nad (83)

Section 8

Bimini 8 Federal Com #2H

OH

Design: OH

Standard Survey Report

16 August, 2013

Stryker Directional Survey Report

Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Bimini 8 Federal Com #2H
Project:	Lea County Nad (83)	TVD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Site:	Section 8	MD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Well:	Bimini 8 Federal Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County Nad (83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Section 8
-------------	-----------

Site Position:		Northing:	451,040.25 usft	Latitude:	32° 14' 18.118 N
From:	Map	Easting:	739,148.78 usft	Longitude:	103° 41' 36.791 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.34 °

Well	Bimini 8 Federal Com #2H				
Well Position	+N/-S	0.0 usft	Northing:	451,040.25 usft	Latitude: 32° 14' 18.118 N
	+E/-W	0.0 usft	Easting:	739,148.78 usft	Longitude: 103° 41' 36.791 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level: 3,650.0 usft

Wellbore	OH
-----------------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/21/2013	7.39	60.13	48,400

Design	OH
---------------	----

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	180.83

Survey Program		Date	8/16/2013	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,267.0	4,618.0	Survey #1 (OH)	MWD	MWD - Standard
7,978.0	12,828.0	Survey #3 (OH)	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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,267.0	1.00	195.00	1,266.9	-10.7	-2.9	10.7	0.08	0.08	0.00
1,512.0	1.10	167.20	1,511.9	-15.0	-2.9	15.1	0.21	0.04	-11.35
1,725.0	1.10	177.70	1,724.9	-19.1	-2.4	19.1	0.09	0.00	4.93
2,004.0	1.10	187.70	2,003.8	-24.4	-2.6	24.4	0.07	0.00	3.58
2,290.0	1.00	190.40	2,289.8	-29.6	-3.4	29.6	0.04	-0.03	0.94
2,577.0	1.10	164.70	2,576.7	-34.7	-3.2	34.7	0.17	0.03	-8.95
2,863.0	1.40	148.20	2,862.6	-40.3	-0.6	40.3	0.16	0.10	-5.77
3,149.0	1.10	78.80	3,148.6	-42.8	3.9	42.7	0.51	-0.10	-24.27
3,435.0	1.30	58.90	3,434.5	-40.5	9.4	40.4	0.16	0.07	-6.96

Stryker Directional Survey Report

Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Bimini 8 Federal Com #2H
Project:	Lea County Nad (83)	TVD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Site:	Section 8	MD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Well:	Bimini 8 Federal Com #2H	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)
3,722.0	0.60	35.30	3,721.5	-37.6	13.1	37.4	0.27	-0.24	-8.22
4,008.0	0.40	135.80	4,007.5	-37.1	14.6	36.9	0.27	-0.07	35.14
4,293.0	1.40	121.10	4,292.4	-39.6	18.3	39.4	0.36	0.35	-5.16
4,579.0	1.70	165.40	4,578.3	-45.6	22.4	45.2	0.42	0.10	15.49
4,618.0	1.50	171.60	4,617.3	-46.6	22.6	46.3	0.68	-0.51	15.90
7,978.0	0.70	148.70	7,976.7	-107.7	39.7	107.1	0.03	-0.02	-0.68
8,010.0	2.10	183.30	8,008.7	-108.4	39.7	107.8	4.92	4.38	108.13
8,042.0	6.80	185.10	8,040.6	-110.9	39.5	110.3	14.69	14.69	5.63
8,073.0	11.20	185.10	8,071.2	-115.7	39.1	115.1	14.19	14.19	0.00
8,105.0	14.50	186.00	8,102.4	-122.8	38.4	122.2	10.33	10.31	2.81
8,137.0	19.30	187.00	8,133.0	-132.0	37.4	131.5	15.03	15.00	3.13
8,168.0	22.60	186.90	8,161.9	-143.0	36.0	142.5	10.65	10.65	-0.32
8,199.0	25.40	188.40	8,190.3	-155.5	34.3	155.0	9.24	9.03	4.84
8,231.0	29.60	192.30	8,218.6	-170.0	31.6	169.6	14.27	13.13	12.19
8,263.0	33.90	194.20	8,245.8	-186.4	27.8	186.0	13.79	13.44	5.94
8,295.0	37.50	195.80	8,271.8	-204.5	22.9	204.1	11.62	11.25	5.00
8,327.0	40.90	193.50	8,296.6	-224.0	17.8	223.7	11.55	10.63	-7.19
8,358.0	43.50	189.90	8,319.6	-244.4	13.6	244.2	11.45	8.39	-11.61
8,390.0	45.80	187.00	8,342.4	-266.7	10.3	266.5	9.60	7.19	-9.06
8,422.0	49.40	186.90	8,363.9	-290.1	7.5	290.0	11.25	11.25	-0.31
8,453.0	51.30	189.50	8,383.7	-313.7	4.1	313.6	8.90	6.13	8.39
8,485.0	53.30	189.10	8,403.3	-338.7	0.0	338.7	6.33	6.25	-1.25
8,517.0	56.60	188.80	8,421.7	-364.6	-4.1	364.6	10.34	10.31	-0.94
8,549.0	60.30	186.20	8,438.4	-391.6	-7.7	391.7	13.48	11.56	-8.13
8,580.0	63.10	184.20	8,453.1	-418.8	-10.1	418.9	10.67	9.03	-6.45
8,612.0	66.50	181.90	8,466.7	-447.7	-11.7	447.8	12.46	10.63	-7.19
8,644.0	69.50	182.80	8,478.7	-477.3	-12.9	477.5	9.73	9.38	2.81
8,676.0	71.80	183.50	8,489.3	-507.5	-14.5	507.6	7.48	7.19	2.19
8,708.0	73.50	184.40	8,498.9	-538.0	-16.6	538.1	5.95	5.31	2.81
8,740.0	77.60	184.60	8,506.8	-568.8	-19.1	569.1	12.83	12.81	0.63
8,771.0	82.80	183.20	8,512.1	-599.3	-21.1	599.5	17.35	16.77	-4.52
8,800.0	87.90	183.00	8,514.5	-628.2	-22.7	628.4	17.60	17.59	-0.69
8,895.0	89.50	181.80	8,516.6	-723.0	-26.7	723.4	2.11	1.68	-1.26
8,991.0	89.40	181.80	8,517.5	-819.0	-29.7	819.3	0.10	-0.10	0.00
9,086.0	89.50	182.30	8,518.5	-913.9	-33.1	914.3	0.54	0.11	0.53
9,181.0	90.00	182.10	8,518.9	-1,008.9	-36.7	1,009.3	0.57	0.53	-0.21
9,276.0	90.00	181.40	8,518.9	-1,103.8	-39.6	1,104.3	0.74	0.00	-0.74
9,371.0	87.70	181.40	8,520.8	-1,198.8	-42.0	1,199.2	2.42	-2.42	0.00
9,466.0	86.70	181.10	8,525.4	-1,293.6	-44.0	1,294.1	1.10	-1.05	-0.32
9,561.0	87.10	181.10	8,530.6	-1,388.5	-45.9	1,389.0	0.42	0.42	0.00
9,656.0	90.00	182.10	8,533.0	-1,483.4	-48.5	1,483.9	3.23	3.05	1.05
9,751.0	90.30	181.90	8,532.7	-1,578.3	-51.8	1,578.9	0.38	0.32	-0.21
9,847.0	90.10	182.60	8,532.4	-1,674.3	-55.6	1,674.9	0.76	-0.21	0.73

Stryker Directional Survey Report

Company:	Concho Oil and Gas	Local Co-ordinate Reference:	Well Bimini 8 Federal Com #2H
Project:	Lea County Nad (83)	TVD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Site:	Section 8	MD Reference:	GL 3650 + 18 @ 3668.0usft (Silver Oak #7)
Well:	Bimini 8 Federal Com #2H	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)
9,942.0	90.30	183.00	8,532.0	-1,769.1	-60.2	1,769.8	0.47	0.21	0.42
10,037.0	90.50	183.00	8,531.4	-1,864.0	-65.2	1,864.8	0.21	0.21	0.00
10,133.0	89.30	183.70	8,531.5	-1,959.8	-70.8	1,960.7	1.45	-1.25	0.73
10,228.0	88.20	182.50	8,533.6	-2,054.7	-75.9	2,055.6	1.71	-1.16	-1.26
10,324.0	88.90	182.80	8,536.0	-2,150.5	-80.4	2,151.5	0.79	0.73	0.31
10,419.0	88.90	181.10	8,537.9	-2,245.5	-83.6	2,246.4	1.79	0.00	-1.79
10,515.0	88.10	181.10	8,540.4	-2,341.4	-85.5	2,342.4	0.83	-0.83	0.00
10,609.0	88.30	180.70	8,543.3	-2,435.4	-86.9	2,436.4	0.48	0.21	-0.43
10,704.0	89.30	179.80	8,545.3	-2,530.3	-87.4	2,531.3	1.42	1.05	-0.95
10,800.0	89.30	179.80	8,546.5	-2,626.3	-87.0	2,627.3	0.00	0.00	0.00
10,895.0	88.60	180.20	8,548.2	-2,721.3	-87.0	2,722.3	0.85	-0.74	0.42
10,991.0	89.00	179.70	8,550.2	-2,817.3	-86.9	2,818.2	0.67	0.42	-0.52
11,086.0	89.30	179.30	8,551.7	-2,912.3	-86.1	2,913.2	0.53	0.32	-0.42
11,182.0	89.30	179.10	8,552.8	-3,008.3	-84.8	3,009.2	0.21	0.00	-0.21
11,277.0	88.20	179.50	8,554.9	-3,103.2	-83.6	3,104.1	1.23	-1.16	0.42
11,372.0	90.60	178.60	8,555.9	-3,198.2	-82.0	3,199.0	2.70	2.53	-0.95
11,468.0	90.30	177.50	8,555.1	-3,294.1	-78.8	3,294.9	1.19	-0.31	-1.15
11,563.0	90.00	177.00	8,554.9	-3,389.0	-74.2	3,389.7	0.61	-0.32	-0.53
11,658.0	91.20	177.00	8,553.9	-3,483.9	-69.2	3,484.5	1.26	1.26	0.00
11,754.0	89.20	177.20	8,553.6	-3,579.8	-64.4	3,580.3	2.09	-2.08	0.21
11,849.0	91.00	177.40	8,553.4	-3,674.6	-59.9	3,675.1	1.91	1.89	0.21
11,944.0	90.00	177.50	8,552.6	-3,769.5	-55.7	3,770.0	1.06	-1.05	0.11
12,038.0	89.70	178.10	8,552.8	-3,863.5	-52.1	3,863.8	0.71	-0.32	0.64
12,134.0	88.70	179.30	8,554.2	-3,959.4	-49.9	3,959.7	1.63	-1.04	1.25
12,229.0	87.30	179.10	8,557.5	-4,054.4	-48.6	4,054.7	1.49	-1.47	-0.21
12,324.0	87.20	179.10	8,562.0	-4,149.3	-47.1	4,149.5	0.11	-0.11	0.00
12,419.0	87.10	178.40	8,566.8	-4,244.1	-45.0	4,244.3	0.74	-0.11	-0.74
12,515.0	88.50	178.80	8,570.4	-4,340.0	-42.7	4,340.2	1.52	1.46	0.42
12,610.0	90.00	179.10	8,571.7	-4,435.0	-40.9	4,435.1	1.61	1.58	0.32
12,705.0	89.50	179.50	8,572.1	-4,530.0	-39.8	4,530.1	0.67	-0.53	0.42
12,774.0	89.90	179.70	8,572.5	-4,599.0	-39.3	4,599.1	0.65	0.58	0.29
12,828.0	89.90	179.70	8,572.6	-4,653.0	-39.0	4,653.0	0.00	0.00	0.00

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,618.0	4,617.3	-46.6	22.6	4618' Survey Depth
12,828.0	8,572.6	-4,653.0	-39.0	12828' MD Projected to Bit



COMPANY: Concho Oil and Gas
WELL: Bimini 8 Federal Com #2H
COUNTY: Lea County Nod (83)
DATUM: North American Datum 1983



RIG: Silver Oak 7
GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.04°

OFFICE: 936.582.7296

GEODETTIC ZONE: New Mexico Eastern Zone
GL 3650 + 18 @ 3668.0usft (Silver Oak #7)

GROUND ELEVATION: 3650.0
+N/-S +E/-W Northing Easting Latitude Longitude
0.0 0.0 451040.25 739148.78 32° 14' 18.118 N 103° 41' 36.791 W

PLAN SECTIONS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	8771.0	82.80	183.20	8512.5	-561.7	-16.8	0.00	0.00	561.9	
2	8828.5	89.23	180.69	8516.5	-619.1	-18.8	12.00	-21.40	619.3	
3	12834.6	89.23	180.69	8570.0	-4624.5	-66.7	0.00	0.00	4625.0	PBHL Bimini 8 Fed Com #2H New

