



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

COG OPERATING, L.P.
RECEIVED
APR 10 2013
ARTESIA, NM 88211-1370
30-015-40740



April 5, 2013

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

RE: Cluster St Com #5H
380' FSL & 190' FWL
Sec. 16, T26S, R27E
Eddy County, New Mexico

Dear Sir,

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

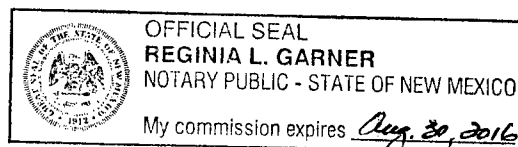
Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 5th day of April, 2013.

Notary Public



Cluster State Com #5H

LOG OPER LINE, LL
RECEIVED
APR 19 2013
ARTESIA WEST

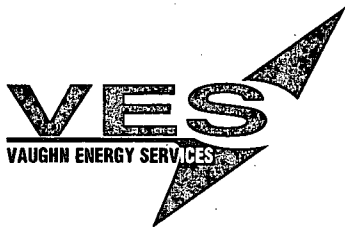
Date	Depth	Deviation	Direction	TVD
3/21/2013	159	0.40	102.90	159.00
3/21/2013	334	0.60	129.20	333.99
3/21/2013	513	0.80	80.20	512.98
3/22/2013	600	0.70	77.90	599.97
3/22/2013	695	0.90	68.00	694.96
3/22/2013	791	1.40	62.60	790.94
3/22/2013	982	0.60	36.80	981.91
3/22/2013	1077	0.40	144.20	1076.91
3/22/2013	1172	1.10	122.70	1171.90
3/22/2013	1267	0.70	91.30	1266.89
3/22/2013	1362	1.20	96.00	1361.87
3/22/2013	1457	1.80	90.00	1456.84
3/22/2013	1553	1.10	64.00	1552.81
3/22/2013	1648	0.80	58.00	1647.80
3/23/2013	1744	1.80	77.20	1743.76
3/23/2013	1839	2.60	92.50	1838.69
3/23/2013	1934	1.50	118.00	1933.63
3/23/2013	2004	0.50	219.40	2003.63
3/25/2013	2461	1.00		
3/25/2013	2844	0.40		
3/25/2013	3288	1.10		
3/25/2013	3661	1.20		
3/25/2013	4105	0.90		
3/26/2013	4447	0.30		
3/26/2013	4860	0.90		
3/27/2013	5306	0.30		
3/27/2013	5751	0.60		
3/27/2013	6194	1.00		
3/29/2013	6935	1.90	81.20	6934.00
3/29/2013	7094	20.70	79.70	7088.00
3/29/2013	7190	33.80	73.70	7174.00
3/29/2013	7222	37.90	76.00	7200.43
3/29/2013	7253	39.70	77.90	7224.89
3/29/2013	7285	41.00	80.70	7248.97
3/29/2013	7317	43.90	83.20	7272.58
3/29/2013	7349	47.20	85.50	7294.99
3/29/2013	7381	49.90	86.70	7316.17
3/30/2013	7444	54.20	85.50	7354.83
3/30/2013	7540	63.20	83.20	7405.93
3/30/2013	7603	67.40	88.10	7432.29
3/30/2013	7635	67.30	87.40	7444.61
3/30/2013	7699	71.90	86.00	7467.44
3/30/2013	7762	80.00	85.10	7482.28

Date	Depth	Deviation	Direction	TVD
3/30/2013	7794	84.40	86.90	748.63
3/30/2013	7826	88.20	89.00	7488.69
3/31/2013	7856	91.30	90.50	7488.82
3/31/2013	7951	89.20	90.20	7488.41
3/31/2013	8141	89.60	90.50	7491.06
3/31/2013	8330	89.10	92.00	7492.79
3/31/2013	8425	89.20	91.60	7494.20
3/31/2013	8521	89.50	92.10	7485.29
3/31/2013	8616	89.60	92.10	7496.03
3/31/2013	8711	88.30	90.40	7497.77
3/31/2013	8807	88.40	90.20	7500.54
4/1/2013	8997	88.80	90.20	7505.84
4/1/2013	9282	89.80	90.90	7510.15
4/1/2013	9377	89.60	90.50	7510.65
4/1/2013	9473	89.30	90.40	7511.57
4/1/2013	9663	88.90	90.00	7514.23
4/1/2013	9855	88.30	89.50	7519.25
4/1/2013	9950	88.30	89.00	7522.07
4/1/2013	10141	88.80	89.30	7528.15
4/1/2013	10427	88.70	88.30	7532.22
4/2/2013	10523	88.60	89.50	7534.48
4/2/2013	10714	89.20	89.80	7539.32
4/2/2013	10809	89.90	89.70	7540.06
4/2/2013	11000	88.80	90.00	7542.15
4/2/2013	11095	88.50	90.20	7544.39
4/2/2013	11285	88.70	89.80	7549.19
4/2/2013	11475	88.10	89.00	7553.50
4/2/2013	11665	89.40	89.10	7556.90
4/2/2013	11946	89.10	88.60	7560.06

CCG OTEC, INC., LL
 RECEIVED

APR 10 2013

ARIESB...



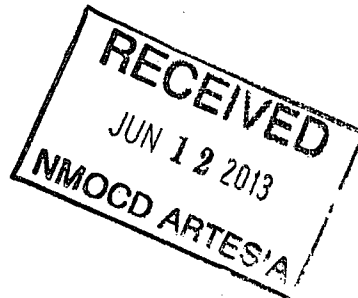
A GYRO TECHNOLOGIES INC. COMPANY

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

April 4, 2013

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

Attn: Kanicia Castillo



RE: **Cluster State Com No. 005H**

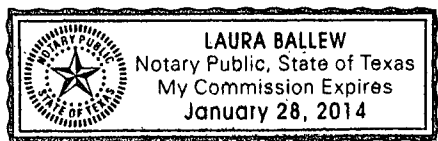
Please find enclosed a copy of the survey from 0.00' to 6870.00' ran on the above referenced well.

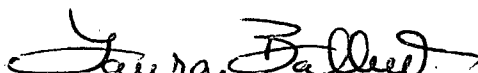
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

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





Laura Ballew
Notary Public, State of Texas

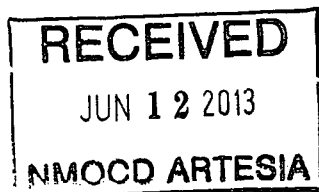
Company: COG Operating LLC (Concho)
Lease/Well: Cluster State Com / No. 005H



Rig Name: Silver Oak #7
State/County: New Mexico / Eddy
Latitude: 32.04, Longitude: -104.20
GRID North is 0.07 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB=17.8'



DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ...ter st com #5h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 4/4/2013 / 08:13

Vaughn Energy Services

Midland, Texas

432-563-5444

Survey Engineer: Logan Henry

Cluster State Com No. 005H / API 30-015-40740

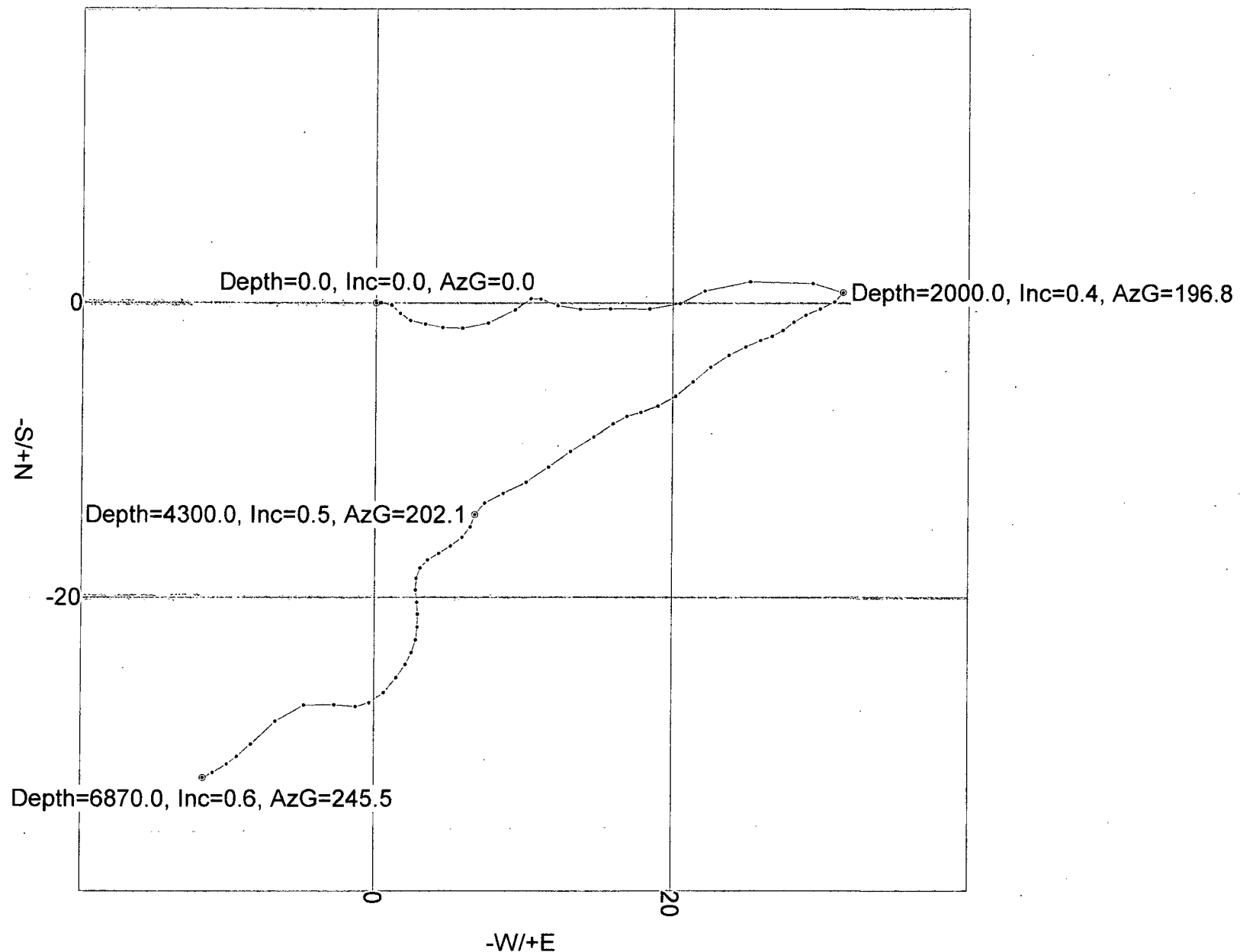
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.38	85.92	100.00	0.02	0.33	0.02	0.33	85.92	0.38
200.00	0.48	117.27	200.00	-0.14	1.03	-0.14	1.04	97.88	0.25
300.00	0.48	149.86	299.99	-0.70	1.61	-0.70	1.76	113.42	0.27
400.00	0.55	103.68	399.99	-1.18	2.29	-1.18	2.58	117.21	0.41
500.00	0.65	104.43	499.98	-1.43	3.31	-1.43	3.60	113.43	0.10
600.00	0.70	97.48	599.98	-1.65	4.46	-1.65	4.76	110.34	0.10
700.00	0.84	87.42	699.97	-1.70	5.80	-1.70	6.05	106.33	0.20
800.00	1.21	72.60	799.95	-1.35	7.54	-1.35	7.66	100.16	0.45
900.00	1.14	53.70	899.93	-0.45	9.35	-0.45	9.36	92.76	0.39
1000.00	0.37	59.13	999.92	0.30	10.43	0.30	10.43	88.33	0.77
1100.00	0.51	116.01	1099.92	0.27	11.11	0.27	11.11	88.59	0.44
1200.00	0.90	109.32	1199.91	-0.18	12.25	-0.18	12.25	90.85	0.40
1300.00	0.89	87.69	1299.90	-0.41	13.77	-0.41	13.78	91.71	0.34
1400.00	1.44	90.02	1399.88	-0.38	15.81	-0.38	15.81	91.38	0.55
1500.00	1.58	90.95	1499.84	-0.40	18.45	-0.40	18.45	91.25	0.14
1600.00	0.88	58.44	1599.82	-0.02	20.48	-0.02	20.48	90.07	0.96
1700.00	1.29	66.02	1699.80	0.84	22.17	0.84	22.18	87.84	0.43
1800.00	2.36	85.35	1799.75	1.46	25.25	1.46	25.29	86.69	1.22

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	2.50	97.23	1899.66	1.35	29.46	1.35	29.49	87.37	0.52
2000.00	0.42	196.80	1999.63	0.73	31.52	0.73	31.53	88.68	2.61
2100.00	0.65	241.27	2099.63	0.10	30.92	0.10	30.92	89.81	0.45
2200.00	0.60	246.15	2199.62	-0.38	29.95	-0.38	29.95	90.73	0.07
2300.00	0.61	246.86	2299.62	-0.80	28.98	-0.80	28.99	91.58	0.01
2400.00	0.49	229.58	2399.61	-1.29	28.17	-1.29	28.19	92.62	0.20
2500.00	0.56	234.84	2499.61	-1.84	27.44	-1.84	27.50	93.85	0.08
2600.00	0.40	251.54	2599.60	-2.23	26.72	-2.23	26.81	94.78	0.21
2700.00	0.56	248.11	2699.60	-2.53	25.93	-2.53	26.06	95.56	0.17
2800.00	0.66	245.47	2799.59	-2.95	24.95	-2.95	25.12	96.74	0.10
2900.00	0.80	240.94	2899.59	-3.53	23.82	-3.53	24.08	98.43	0.15
3000.00	0.91	233.42	2999.57	-4.34	22.57	-4.34	22.98	100.89	0.16
3100.00	0.88	226.85	3099.56	-5.34	21.37	-5.34	22.02	104.04	0.11
3200.00	0.87	233.65	3199.55	-6.32	20.19	-6.32	21.16	107.38	0.10
3300.00	0.69	248.27	3299.54	-6.99	19.02	-6.99	20.27	110.19	0.27
3400.00	0.70	250.30	3399.53	-7.42	17.89	-7.42	19.37	112.54	0.03
3500.00	0.43	259.15	3499.53	-7.70	16.95	-7.70	18.61	114.43	0.29
3600.00	0.79	231.41	3599.52	-8.20	16.04	-8.20	18.01	117.08	0.46
3700.00	1.05	239.28	3699.51	-9.10	14.71	-9.10	17.30	121.74	0.29
3800.00	1.07	236.76	3799.49	-10.08	13.14	-10.08	16.56	127.48	0.05
3900.00	1.02	231.66	3899.48	-11.14	11.66	-11.14	16.13	133.69	0.10
4000.00	1.06	239.27	3999.46	-12.17	10.17	-12.17	15.86	140.13	0.14
4100.00	0.92	249.39	4099.45	-12.93	8.61	-12.93	15.54	146.33	0.22
4200.00	0.71	233.26	4199.44	-13.58	7.36	-13.58	15.45	151.54	0.31
4300.00	0.52	202.12	4299.43	-14.37	6.70	-14.37	15.86	155.02	0.38
4400.00	0.50	197.76	4399.43	-15.20	6.39	-15.20	16.49	157.19	0.04
4500.00	0.59	234.66	4499.42	-15.92	5.84	-15.92	16.96	159.85	0.36
4600.00	0.52	232.73	4599.42	-16.49	5.06	-16.49	17.25	162.95	0.07
4700.00	0.55	240.14	4699.41	-17.01	4.28	-17.01	17.54	165.89	0.08
4800.00	0.43	237.59	4799.41	-17.45	3.54	-17.45	17.81	168.54	0.12
4900.00	0.45	207.75	4899.41	-18.00	3.04	-18.00	18.25	170.42	0.23
5000.00	0.42	191.45	4999.40	-18.70	2.78	-18.70	18.91	171.53	0.13
5100.00	0.50	176.20	5099.40	-19.50	2.74	-19.50	19.69	172.00	0.15
5200.00	0.46	170.57	5199.40	-20.33	2.84	-20.33	20.53	172.06	0.07
5300.00	0.47	181.85	5299.39	-21.14	2.89	-21.14	21.33	172.22	0.09
5400.00	0.53	180.27	5399.39	-22.01	2.87	-22.01	22.20	172.57	0.06
5500.00	0.49	193.98	5499.39	-22.89	2.77	-22.89	23.06	173.11	0.13
5600.00	0.55	201.05	5599.38	-23.75	2.49	-23.75	23.88	174.01	0.09
5700.00	0.49	212.83	5699.38	-24.56	2.09	-24.56	24.65	175.14	0.12

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	0.75	214.85	5799.37	-25.46	1.48	-25.46	25.50	176.67	0.26
5900.00	0.78	223.24	5899.36	-26.49	0.64	-26.49	26.50	178.61	0.12
6000.00	0.62	250.22	5999.36	-27.17	-0.33	-27.17	27.17	180.70	0.36
6100.00	0.48	258.49	6099.35	-27.43	-1.25	-27.43	27.46	182.60	0.16
6200.00	1.23	281.01	6199.34	-27.31	-2.71	-27.31	27.45	185.67	0.81
6300.00	1.18	256.94	6299.32	-27.34	-4.76	-27.34	27.75	189.88	0.50
6400.00	1.46	226.16	6399.29	-28.45	-6.68	-28.45	29.23	193.22	0.75
6500.00	1.11	227.52	6499.27	-29.99	-8.31	-29.99	31.12	195.49	0.35
6600.00	0.39	233.46	6599.26	-30.84	-9.30	-30.84	32.22	196.78	0.72
6700.00	0.60	235.79	6699.25	-31.34	-10.01	-31.34	32.90	197.71	0.21
6800.00	0.69	241.14	6799.25	-31.93	-10.97	-31.93	33.76	198.96	0.11
6870.00	0.56	245.53	6869.24	-32.27	-11.66	-32.27	34.31	199.86	0.20



Vaughn Energy Services
Midland, Texas
432-563-5444
Survey Engineer: Logan Henry
Cluster State Com No. 005H / API 30-015-40740



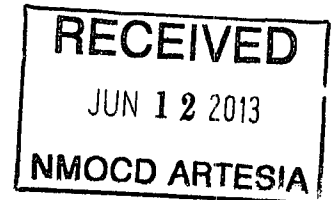
VES Survey Date: 03/28/2013



April 17, 2013

COG PROD, L.L.C.
RECEIVED
APR 23 2013
ARTESIA WEST

New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505



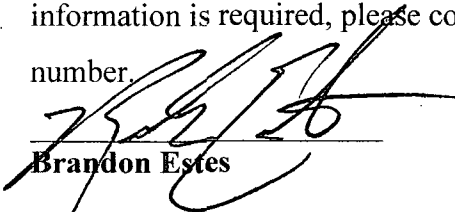
Attn: Jackie Lathan

Re: COG Production, L.L.C.
Cluster State Com #005H
Welch; Bone Spring
Eddy County, New Mexico
API# 30-015-40740

Enclosed please find the original and one (1) copy of the survey performed on the reference well by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C. Other information required by your office is as follows:

<u>Name & Title</u>	<u>Drainhole No.</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Noah Townsend	Original Hole	6,903 ft. to 11,946 ft.	03-28-13 to 04-03-13	MWD Survey

A certified plat on which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Brandon Estes

Enclosures

CC:

COG Production, L.L.C.
Attn: Tim Smith
2208 W. Main St
Artesia, NM 88210

COG Production, L.L.C.
Attn: Stormi Davis
2208 W. Main St
Artesia, NM 88210

NMEMaNRD\COG Production, L.L.C.\Cluster State Com#005H\C131035

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250

Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-582-7297

ORIGINAL



April 17, 2013

Survey Certification Report

STATE OF TEXAS

COUNTY OF Montgomery

I, Todd Estes, certify that I am employed by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C., and that I did on the day(s) of March 28, 2013 thru April 03, 2013, conduct or supervise the taking of a SEDS MWD Survey from a depth of 6,903 feet to 11,946 feet; that I am authorized and qualified to make this report; that this survey was conducted at the request of COG Production, L.L.C, for the Cluster State Com #005H well, API # **30-015-40740** in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles as set forth by STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.


Todd Estes

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.

STRYKER ENERGY DIRECTIONAL SERVICES, L.L.C.
P.O. Box 1250
Montgomery, TX 77356
Office (936) 582-7296 * Fax (936)-582-7297

30-015-40740 CLUSTER STATE COM #005H [308045]**General Well Information****Status:** New (Not Drilled or Completed)

Well Type: Oil
Work Type: New
Surface Location: M-16-26S-27E 380 FSL 190 FWL
Lat/Long: 32.0361177645331 -104.203007261046
GL Elevation: 3260

Direction:
Lease Type: State

Sing/Mult Compl:
Potash Waiver:

Proposed Formation and/or Notes

2nd Bone Spring Sand

Depths

Proposed: 12057

Measured: 0

Plugback Measured:

Formation Tops

Formation	Top	Method Obtained	Producing
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Event Dates

Initial APD Approval: 9/25/2012

Most Recent APD Approval: 9/25/2012

Current APD Expiration: 9/25/2014

APD Cancellation:

APD Extension Approval:

Spud: 12/31/9999

Approved Temporary Abandonment:

Expiration:

Shut In Waiting For Pipeline:

Plug and Abandoned Intent Received:

Well Plugged:

Plugged, Not Released Expiration:

Site Release:

Intention To Plug:

Last Inspection:

Last MIT:

History**Comments****Operator**

Company: [229137] COG OPERATING LLC
Address: One Concho Center 600 W. Illinois Ave
Midland, TX 79701
Country: U.S.A.
Main Phone: 432-683-7443

Central Contact Person**Hobbs Contacts****Artesia Contacts****Pits****Casing****Well Completions**

[64010] WELCH;BONE SPRING

Status: New, Not Drilled

Last Produced:

Financial Assurance**Compliance**Note that Financial Assurance and Inactive Well Compliance are documented in separate reports ([Inactive Well Report](#), [Financial Assurance Report](#)).

Also note that some compliance issues are addressed at the operator level so not listed under each well.

Complaints, Incidents and Spills

No Incidents Found



Job Number: C131035

Company: Concho Oil & Gas Operating, LLC

Lease/Well: Cluster State COM # 5 H

Location: Eddy County

Rig Name: Silver Oak # 7

RKB: N/A

G.L. or M.S.L.: N/A

State/Country: New Mexico / USA

Declination: 7.58° Corrected To Grid

Grid: 7.58°

File name: C:\WINSERVE\DOCS\C131035.SVY

Date/Time: 11-Apr-13 / 09:56

Curve Name: SES MWD SURVEY RAN ON 3-21-13

Stryker Energy Directional Services, LLC.

WINSERVE SURVEY CALCULATIONS

Minimum Curvature Method

Vertical Section Plane 90.20

Vertical Section Referenced to Wellhead

Rectangular Coordinates Referenced to Wellhead

<i>Measured Depth FT</i>	<i>Incl Angle Deg</i>	<i>Drift Direction Deg</i>	<i>True Vertical Depth</i>	<i>N-S FT</i>	<i>E-W FT</i>	<i>Vertical Section FT</i>	<i>CLOSURE Distance FT</i>	<i>Direction Deg</i>	<i>Dogleg Severity Deg/100</i>
Tie-In Data Provided by VES Gyro Survey									
6870.00	.56	245.53	6869.24	-32.27	-11.66	-11.55	34.31	199.87	.00
6903.00	.30	147.30	6902.24	-32.41	-11.76	-11.65	34.48	199.94	2.04
6935.00	1.90	81.20	6934.23	-32.40	-11.19	-11.08	34.28	199.05	5.62
6967.00	6.70	70.30	6966.13	-31.69	-8.91	-8.80	32.92	195.70	15.15
6999.00	10.60	66.10	6997.76	-29.87	-4.46	-4.35	30.20	188.49	12.34
7031.00	14.20	70.50	7029.01	-27.36	1.94	2.03	27.43	175.95	11.62
7062.00	17.90	76.10	7058.80	-24.95	10.15	10.23	26.93	157.87	12.93
7094.00	20.70	79.70	7089.00	-22.75	20.49	20.57	30.62	138.00	9.50
7126.00	24.10	75.30	7118.58	-20.08	32.38	32.45	38.10	121.81	11.84
7158.00	29.00	73.00	7147.20	-16.16	46.12	46.18	48.87	109.30	15.64
7190.00	33.80	73.70	7174.51	-11.39	62.09	62.13	63.13	100.39	15.04
7222.00	37.90	76.00	7200.44	-6.51	80.18	80.20	80.44	94.64	13.48
7253.00	39.70	77.90	7224.60	-2.13	99.10	99.11	99.13	91.23	6.96
7285.00	41.00	80.70	7248.99	1.71	119.46	119.45	119.47	89.18	6.97
7317.00	43.90	83.20	7272.60	4.72	140.84	140.82	140.92	88.08	10.48
7349.00	47.20	85.50	7295.01	6.96	163.57	163.54	163.71	87.56	11.52
7381.00	49.90	86.70	7316.19	8.58	187.49	187.46	187.69	87.38	8.89
7412.00	52.20	86.90	7335.68	9.93	211.56	211.53	211.80	87.31	7.44
7444.00	54.20	85.50	7354.84	11.63	237.13	237.09	237.41	87.19	7.16
7476.00	55.70	83.50	7373.22	14.14	263.20	263.15	263.58	86.92	6.94
7508.00	59.00	82.80	7390.48	17.36	289.95	289.88	290.47	86.57	10.48
7540.00	63.20	83.20	7405.95	20.77	317.75	317.67	318.43	86.26	13.17
7571.00	65.20	86.90	7419.44	23.17	345.55	345.46	346.32	86.16	12.53
7603.00	67.40	88.10	7432.30	24.45	374.82	374.73	375.61	86.27	7.68

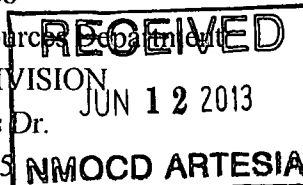
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7635.00	67.30	87.40	7444.63	25.61	404.33	404.23	405.14	86.38	2.04
7667.00	68.60	86.30	7456.64	27.24	433.94	433.84	434.79	86.41	5.16
7699.00	71.90	86.00	7467.45	29.26	463.98	463.88	464.91	86.39	10.35
7730.00	76.70	85.10	7475.84	31.58	493.73	493.61	494.74	86.34	15.73
7762.00	80.00	85.10	7482.30	34.25	524.95	524.83	526.07	86.27	10.31
7794.00	84.40	86.90	7486.64	36.46	556.57	556.44	557.76	86.25	14.84
7826.00	88.20	89.00	7488.71	37.60	588.47	588.34	589.67	86.34	13.56
7856.00	91.30	90.50	7488.84	37.73	618.47	618.33	619.62	86.51	11.48
7951.00	89.20	90.20	7488.42	37.15	713.46	713.33	714.43	87.02	2.23
8046.00	89.00	89.80	7489.91	37.15	808.45	808.31	809.30	87.37	.47
8141.00	89.60	90.50	7491.08	36.90	903.44	903.31	904.19	87.66	.97
8236.00	89.60	89.80	7491.74	36.66	998.44	998.30	999.11	87.90	.74
8330.00	89.10	92.00	7492.80	35.18	1092.41	1092.28	1092.98	88.16	2.40
8425.00	89.20	91.60	7494.21	32.20	1187.36	1187.24	1187.79	88.45	.43
8521.00	89.50	92.10	7495.30	29.10	1283.30	1283.19	1283.63	88.70	.61
8616.00	89.60	92.10	7496.05	25.62	1378.23	1378.13	1378.47	88.94	.11
8711.00	88.30	90.40	7497.79	23.54	1473.19	1473.10	1473.38	89.08	2.25
8807.00	88.40	90.20	7500.55	23.04	1569.15	1569.06	1569.32	89.16	.23
8902.00	88.20	90.40	7503.37	22.54	1664.10	1664.01	1664.26	89.22	.30
8997.00	88.80	90.20	7505.86	22.05	1759.07	1758.98	1759.21	89.28	.67
9092.00	89.20	89.80	7507.52	22.05	1854.05	1853.97	1854.19	89.32	.60
9187.00	88.90	89.50	7509.09	22.63	1949.04	1948.95	1949.17	89.33	.45
9282.00	89.80	90.90	7510.17	22.30	2044.03	2043.94	2044.15	89.38	1.75
9377.00	89.60	90.50	7510.67	21.14	2139.02	2138.93	2139.12	89.43	.47
9473.00	89.30	90.40	7511.59	20.38	2235.01	2234.93	2235.11	89.48	.33
9568.00	89.30	90.20	7512.75	19.88	2330.00	2329.92	2330.09	89.51	.21
9663.00	88.90	90.00	7514.24	19.72	2424.99	2424.91	2425.07	89.53	.47
9759.00	88.40	89.80	7516.50	19.89	2520.97	2520.88	2521.04	89.55	.56
9855.00	88.30	89.50	7519.27	20.47	2616.92	2616.84	2617.00	89.55	.33
9950.00	88.30	89.00	7522.09	21.71	2711.87	2711.78	2711.96	89.54	.53
10045.00	87.80	88.80	7525.32	23.54	2806.80	2806.70	2806.90	89.52	.57
10141.00	88.80	89.30	7528.17	25.13	2902.74	2902.64	2902.85	89.50	1.16
10236.00	89.40	88.80	7529.66	26.70	2997.72	2997.61	2997.84	89.49	.82
10332.00	89.40	88.40	7530.66	29.05	3093.68	3093.56	3093.82	89.46	.42
10427.00	88.70	88.30	7532.24	31.78	3188.63	3188.50	3188.79	89.43	.74
10523.00	88.60	89.50	7534.50	33.63	3284.58	3284.45	3284.76	89.41	1.25
10618.00	88.20	89.10	7537.15	34.79	3379.54	3379.40	3379.72	89.41	.60
10714.00	89.20	89.80	7539.33	35.71	3475.51	3475.36	3475.69	89.41	1.27
10809.00	89.90	89.70	7540.08	36.12	3570.50	3570.36	3570.69	89.42	.74
10904.00	89.40	90.00	7540.66	36.37	3665.50	3665.35	3665.68	89.43	.61
11000.00	88.80	90.00	7542.17	36.37	3761.49	3761.34	3761.67	89.45	.62
11095.00	88.50	90.20	7544.40	36.20	3856.46	3856.31	3856.63	89.46	.38
11189.00	88.50	90.20	7546.86	35.88	3950.43	3950.28	3950.59	89.48	.00
11285.00	88.70	89.80	7549.21	35.88	4046.40	4046.25	4046.56	89.49	.47
11380.00	89.00	89.70	7551.12	36.29	4141.38	4141.23	4141.54	89.50	.33

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
11475.00	88.10	89.00	7553.52	37.37	4236.34	4236.19	4236.51	89.49	1.20
11570.00	89.20	89.30	7555.76	38.78	4331.30	4331.14	4331.48	89.49	1.20
11665.00	89.40	89.10	7556.92	40.10	4426.29	4426.12	4426.47	89.48	.30
11761.00	89.80	88.80	7557.59	41.86	4522.27	4522.10	4522.46	89.47	.52
11856.00	89.00	88.30	7558.58	44.27	4617.23	4617.05	4617.45	89.45	.99
11946.00	89.10	88.60	7560.08	46.70	4707.19	4707.00	4707.42	89.43	.35
Projection to Total Depth									
12010.00	89.10	88.60	7561.08	48.26	4771.16	4770.96	4771.40	89.42	.00

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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



WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40740		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name CLUSTER STATE COM		⁶ Well Number SH
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC		⁹ Elevation 3260'

¹⁰ Surface Location

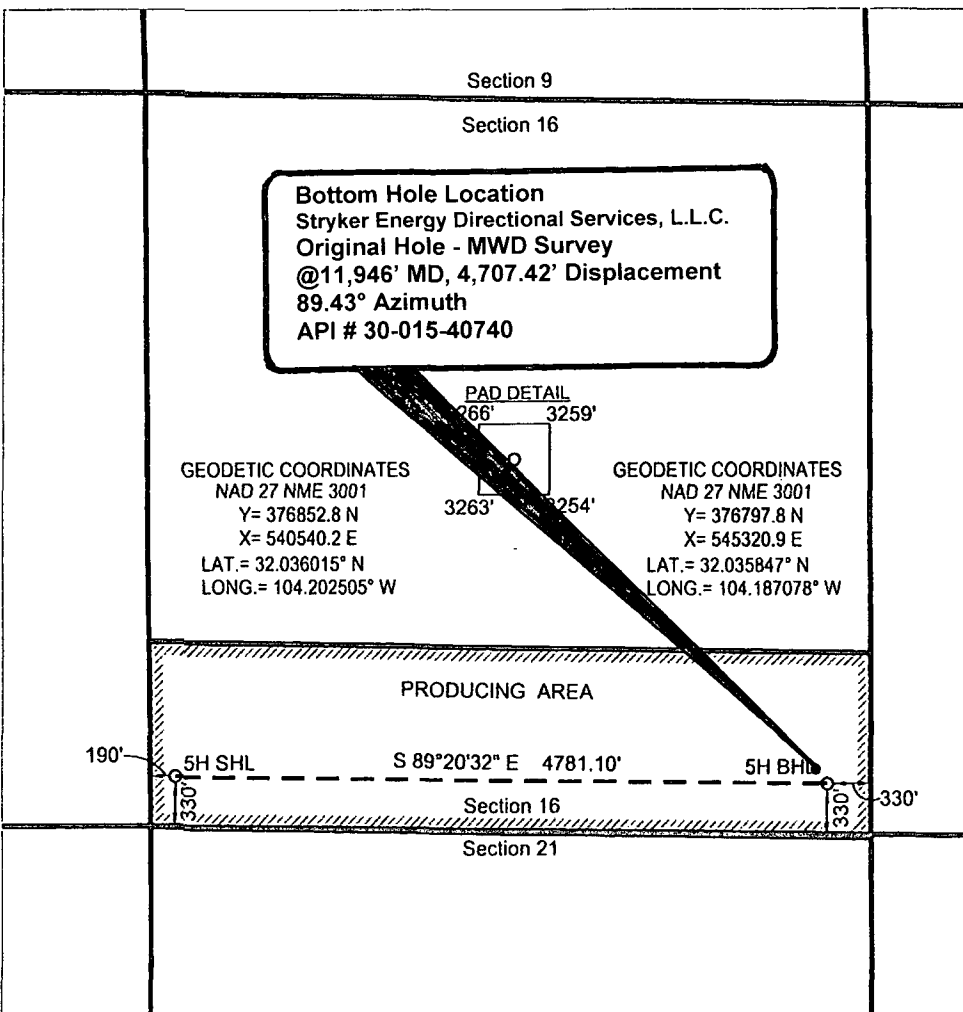
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	26S	27E		380'	SOUTH	190'	WEST	EDDY

¹¹ 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
P	16	26S	27E		380'	SOUTH	330'	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ 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.

11 June 2012
Date of Survey

Signature and Seal of Professional Surveyor

JEFFREY E. HUDSON
NEW MEXICO
PROFESSIONAL SURVEYOR
20559
Certificate Number