



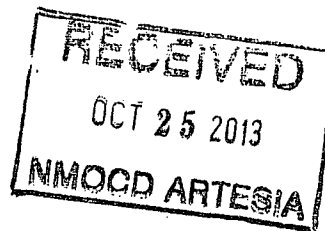
A GYRO TECHNOLOGIES INC. COMPANY

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

April 19, 2013

30-015-40417

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



Attn: Kanicia Castillo

RE: **Ouimet State Com No. 002H**

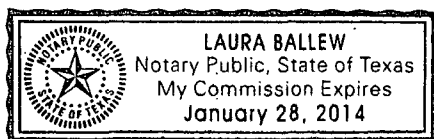
Please find enclosed a copy of the survey from 0.00' to 4627.00' ran on the above referenced well.

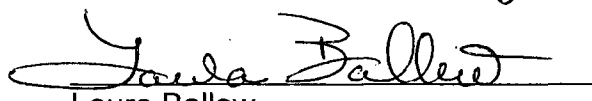
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 19th day of April, A.D., 2013, by Keith Havelka.




Laura Ballew
Notary Public, State of Texas



Company: COG Operating, LLC (Concho)
Lease/Well: Ouimet State Com / No. 002H
Location: S2 T17s R29e
Rig Name: UDI 40
State/County: New Mexico / Eddy
Latitude: 32.87, Longitude: -104.04
GRID North is 0.16 Degrees East of True North
VS-Azi: 0.00 Degrees

30-015-40417



RKB : 14'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ouimet st com #2h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 4/19/2013 / 14:01

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Survey Engineer: Dustin Wedel

Ouimet State Com No. 002H / API 30-015-40417

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W 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	****
100.00	0.20	34.47	100.00	0.14	0.10	0.18	34.47	0.20
200.00	0.07	294.64	200.00	0.32	0.14	0.35	23.74	0.23
300.00	0.21	332.47	300.00	0.50	0.00	0.50	359.64	0.15
400.00	0.20	329.75	400.00	0.81	-0.17	0.83	347.94	0.01
500.00	0.16	60.32	500.00	1.03	-0.14	1.04	352.21	0.26
600.00	0.14	189.98	600.00	0.98	-0.04	0.98	357.54	0.27
700.00	0.31	39.29	700.00	1.07	0.11	1.07	5.72	0.43
800.00	0.30	82.45	800.00	1.31	0.54	1.42	22.41	0.22
900.00	0.42	39.21	899.99	1.63	1.04	1.93	32.44	0.29
1000.00	0.30	47.90	999.99	2.09	1.46	2.55	35.00	0.13
1100.00	0.41	24.61	1099.99	2.59	1.81	3.16	34.91	0.17
1200.00	0.25	19.63	1199.99	3.12	2.03	3.72	33.04	0.16
1300.00	0.26	335.03	1299.99	3.53	2.01	4.06	29.59	0.20
1400.00	0.41	295.05	1399.99	3.89	1.58	4.20	22.13	0.27
1500.00	0.33	292.00	1499.98	4.16	0.99	4.27	13.36	0.08
1600.00	0.29	319.30	1599.98	4.46	0.55	4.49	7.09	0.15
1700.00	0.44	308.15	1699.98	4.88	0.09	4.88	1.03	0.17
1800.00	0.42	314.21	1799.98	5.38	-0.48	5.40	354.92	0.05

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.40	318.66	1899.98	5.90	-0.97	5.98	350.62	0.04
2000.00	0.52	325.73	1999.97	6.54	-1.46	6.70	347.39	0.13
2100.00	0.76	324.04	2099.97	7.46	-2.11	7.75	344.18	0.24
2200.00	0.58	287.21	2199.96	8.15	-2.99	8.68	339.85	0.46
2300.00	0.50	316.65	2299.96	8.61	-3.77	9.40	336.35	0.29
2400.00	0.60	318.36	2399.95	9.32	-4.42	10.32	334.63	0.11
2500.00	0.68	311.72	2499.94	10.11	-5.21	11.38	332.72	0.11
2600.00	0.52	316.83	2599.94	10.84	-5.97	12.37	331.16	0.17
2700.00	0.49	290.65	2699.93	11.32	-6.68	13.15	329.45	0.23
2800.00	0.62	293.57	2799.93	11.69	-7.58	13.93	327.04	0.13
2900.00	0.73	316.86	2899.92	12.37	-8.51	15.02	325.47	0.29
3000.00	0.70	298.89	2999.92	13.13	-9.48	16.19	324.17	0.23
3100.00	0.48	284.89	3099.91	13.53	-10.41	17.07	322.41	0.26
3200.00	0.53	291.88	3199.91	13.81	-11.24	17.81	320.85	0.08
3300.00	0.37	288.30	3299.90	14.08	-11.98	18.49	319.62	0.16
3400.00	0.40	275.19	3399.90	14.21	-12.63	19.02	318.38	0.09
3500.00	0.47	261.21	3499.90	14.18	-13.38	19.50	316.67	0.13
3600.00	0.50	268.95	3599.89	14.11	-14.22	20.04	314.77	0.07
3700.00	0.57	271.04	3699.89	14.11	-15.17	20.72	312.94	0.07
3800.00	0.65	265.82	3799.88	14.08	-16.23	21.49	310.95	0.09
3900.00	0.63	261.43	3899.88	13.96	-17.34	22.26	308.84	0.05
4000.00	0.54	252.96	3999.87	13.74	-18.33	22.91	306.85	0.13
4100.00	0.45	238.69	4099.87	13.40	-19.12	23.34	305.02	0.15
4200.00	0.58	267.83	4199.87	13.17	-19.96	23.91	303.43	0.29
4300.00	0.67	264.25	4299.86	13.10	-21.05	24.79	301.89	0.10
4400.00	0.52	264.17	4399.85	12.99	-22.08	25.61	300.48	0.15
4500.00	0.57	247.63	4499.85	12.76	-22.99	26.29	299.03	0.17
4600.00	0.63	283.44	4599.84	12.70	-23.98	27.14	297.89	0.38
4627.00	0.48	292.61	4626.84	12.77	-24.24	27.40	297.79	0.65



Archer Directional Drilling Services.
12101 Cutten Road
Houston, Texas 77066
Tel: 281-301-2600
Fax: 281-301-2795

COG Operating, LLC
One Concho Center
600 W. Illinois Avenue
Midland, Texas 79701

April 24, 2013

Re: COG Operating, LLC
Ouimet State Com #2H
Field: Grayburg Jackson
Rig: United Drilling 40
Eddy County, New Mexico
API # 30-015-40417

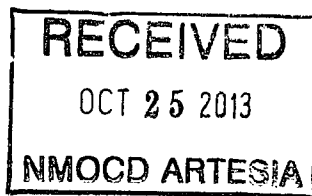
Enclosed please find the original of the surveys performed on the referenced well by Archer Directional Drilling Services. Other information required by your office is as follows:

<u>Name & Title Of Surveyor</u>	<u>Wellhole Number</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Type Survey</u>
Justin Warnack Field Engineer	Original Hole	4720-9834	04/12/13-04/22/13	MWD

If additional information is required, please contact the undersigned at the letterhead address and phone number.



Amador Baggerly
MWD Coordinator



Archer

Archer Directional Drilling Services.
12101 Cutten Road
Houston, Texas 77066
Tel: 281-301-2600
Fax: 281-301-2795

MWD Survey Certification

State of New Mexico
County of Eddy

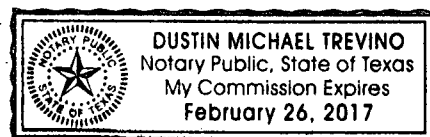
I, Amador Baggerly, certify that; I am employed by Archer Directional Drilling Services; that I did on the day(s) of 04/12/13 through 04/22/13, conduct or supervise the taking of MWD surveys from a depth of 4720 feet to a depth of 9834 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Archer Directional Drilling Services; that I am authorized and qualified to make this report; that these surveys were conducted at the request of COG Operating, LLC for the Quimet State Com #2H (API # 30-015-40417), Well located in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Archer Directional Drilling Services

Amador Baggerly
MWD Coordinator

State of Texas
County of Harris

Before me, a notary public, on this day personally appeared Amador Baggerly, on this 24 day of April, 2013, known to me to be the person whose name is subscribed to the foregoing document and, being by me first duly sworn, declared that the statement therein contained are true and correct.

Notary Public's Signature





Company: COG Operating, LLC

Job Number: 04191-433-22

Calculation Method

Minimum Curvature

Well: Ouimet State Com #2H

Mag Decl.: 7.48

Proposed Azimuth

271.1

Location: Eddy County, New Mexico

Dir Driller: Cody Styles

Depth Reference

KBG

Rig: United Drilling 40

MWD Eng: J. Warnack/J. Dennehy

Tie Into: Previous MWD Survey

Job Date: 04/12/13 - 04/22/13

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In	4627.00	0.48	292.61	0	4626.84	24.44	12.75 N	24.21 W	0.00	0.00	0	0	0
1	4720	1.2	300.0	93	4719.83	25.66	13.39 N	25.41 W	28.72	297.78	0.78	0.77	7.95
2	4752	3.5	299.5	32	4751.80	26.81	14.04 N	26.55 W	30.03	297.86	7.19	7.19	-1.56
3	4783	7.0	297.3	31	4782.67	29.34	15.37 N	29.06 W	32.87	297.87	11.31	11.29	-7.10
4	4815	10.8	296.0	32	4814.27	33.81	17.58 N	33.49 W	37.82	297.70	11.89	11.88	-4.06
5	4847	14.3	293.1	32	4845.51	40.19	20.44 N	39.82 W	44.76	297.18	11.11	10.94	-9.06
6	4879	17.2	290.6	32	4876.30	48.32	23.66 N	47.88 W	53.41	296.29	9.31	9.06	-7.81
7	4910	20.3	288.7	31	4905.65	57.76	27.00 N	57.27 W	63.31	295.24	10.19	10.00	-6.13
8	4942	23.2	286.6	32	4935.37	69.13	30.58 N	68.57 W	75.08	294.03	9.38	9.06	-6.56
9	4974	26.4	284.0	32	4964.42	82.14	34.10 N	81.52 W	88.36	292.70	10.56	10.00	-8.13
10	5005	29.6	282.8	31	4991.79	96.36	37.47 N	95.67 W	102.75	291.38	10.48	10.32	-3.87
11	5037	32.4	281.5	32	5019.21	112.53	40.93 N	111.79 W	119.04	290.11	9.00	8.75	-4.06
12	5069	35.4	280.6	32	5045.77	130.11	44.34 N	129.30 W	136.69	288.93	9.51	9.38	-2.81
13	5101	38.7	280.3	32	5071.31	149.13	47.84 N	148.26 W	155.79	287.88	10.33	10.31	-0.94
14	5132	42.1	280.4	31	5094.91	168.95	51.45 N	168.02 W	175.72	287.02	10.97	10.97	0.32
15	5164	45.6	280.7	32	5117.98	190.81	55.51 N	189.81 W	197.76	286.30	10.96	10.94	0.94
16	5196	48.7	280.7	32	5139.74	213.94	59.86 N	212.86 W	221.12	285.71	9.69	9.69	0.00
17	5227	51.7	280.7	31	5159.58	237.42	64.28 N	236.26 W	244.85	285.22	9.68	9.68	0.00
18	5259	54.7	280.5	32	5178.75	262.69	68.99 N	261.44 W	270.39	284.78	9.39	9.38	-0.62
19	5291	57.8	280.0	32	5196.53	288.95	73.73 N	287.62 W	296.92	284.38	9.77	9.69	-1.56
20	5322	60.9	279.4	31	5212.33	315.31	78.22 N	313.91 W	323.51	283.99	10.14	10.00	-1.94
21	5354	64.1	278.9	32	5227.10	343.41	82.73 N	341.93 W	351.79	283.60	10.10	10.00	-1.56
22	5386	67.0	278.4	32	5240.35	372.29	87.11 N	370.72 W	380.82	283.22	9.17	9.06	-1.56
23	5418	69.5	278.2	32	5252.20	401.77	91.40 N	400.13 W	410.44	282.87	7.83	7.81	-0.62
24	5449	71.9	278.6	31	5262.45	430.79	95.67 N	429.07 W	439.61	282.57	7.84	7.74	1.29
25	5481	74.2	279.5	32	5271.78	461.10	100.49 N	459.30 W	470.16	282.34	7.67	7.19	2.81
26	5513	76.4	280.3	32	5279.90	491.68	105.81 N	489.79 W	501.09	282.19	7.29	6.88	2.50
27	5545	78.7	279.9	32	5286.80	522.54	111.29 N	520.55 W	532.31	282.07	7.29	7.19	-1.25
28	5576	81.6	279.0	31	5292.10	552.75	116.30 N	550.68 W	562.82	281.93	9.78	9.35	-2.90
29	5608	84.4	278.5	32	5296.00	584.23	121.13 N	582.06 W	594.54	281.76	8.89	8.75	-1.56
30	5640	87.3	278.2	32	5298.31	615.88	125.77 N	613.64 W	626.39	281.58	9.11	9.06	-0.94
31	5672	89.5	278.0	32	5299.21	647.63	130.27 N	645.31 W	658.32	281.41	6.90	6.88	-0.62
32	5704	89.6	277.9	32	5299.46	679.39	134.70 N	677.00 W	690.27	281.25	0.44	0.31	-0.31
33	5799	89.8	275.4	95	5299.96	773.94	145.70 N	771.35 W	784.99	280.70	2.64	0.21	-2.63
34	5894	90.3	274.3	95	5299.87	868.73	153.73 N	866.01 W	879.55	280.07	1.27	0.53	-1.16
35	5989	90.1	271.9	95	5299.54	963.66	158.87 N	960.86 W	973.91	279.39	2.54	-0.21	-2.53
36	6084	91.1	272.2	95	5298.55	1058.64	162.27 N	1055.79 W	1068.19	278.74	1.10	1.05	0.32
37	6180	91.8	271.2	96	5296.12	1154.60	165.11 N	1151.72 W	1163.49	278.16	1.27	0.73	-1.04



Company: COG Operating, LLC

Job Number:

04191-433-22

Calculation Method

Minimum Curvature

Well: Ouimet State Com #2H

Mag Decl.:

7.48

Proposed Azimuth

271.1

Location: Eddy County, New Mexico

Dir Driller:

Cody Styles

Depth Reference

KBG

Rig: United Drilling 40

MWD Eng:

J. Warnack/J. Dennehy

Tie Into:

Previous MWD Survey

Job Date: 04/12/13 - 04/22/13

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
38	6275	90.9	269.0	95	5293.88	1249.55	165.28 N	1246.69 W	1257.59	277.55	2.50	-0.95	-2.32
39	6370	91.0	268.4	95	5292.30	1344.46	163.12 N	1341.65 W	1351.53	276.93	0.64	0.11	-0.63
40	6465	92.0	268.7	95	5289.82	1439.33	160.72 N	1436.58 W	1445.55	276.38	1.10	1.05	0.32
41	6560	90.7	268.3	95	5287.58	1534.21	158.23 N	1531.52 W	1539.67	275.90	1.43	-1.37	-0.42
42	6655	91.4	268.7	95	5285.84	1629.10	155.75 N	1626.47 W	1633.91	275.47	0.85	0.74	0.42
43	6751	90.4	267.9	96	5284.33	1724.97	152.90 N	1722.42 W	1729.19	275.07	1.33	-1.04	-0.83
44	6846	91.0	267.7	95	5283.17	1819.81	149.25 N	1817.34 W	1823.46	274.70	0.67	0.63	-0.21
45	6941	92.2	267.9	95	5280.52	1914.62	145.61 N	1912.23 W	1917.77	274.35	1.28	1.26	0.21
46	7036	91.9	269.0	95	5277.12	2009.45	143.04 N	2007.13 W	2012.22	274.08	1.20	-0.32	1.16
47	7131	90.7	268.9	95	5274.96	2104.36	141.30 N	2102.09 W	2106.83	273.85	1.27	-1.26	-0.11
48	7226	91.4	268.8	95	5273.22	2199.27	139.39 N	2197.05 W	2201.47	273.63	0.74	0.74	-0.11
49	7322	90.8	268.3	96	5271.38	2295.16	136.97 N	2293.01 W	2297.09	273.42	0.81	-0.63	-0.52
50	7417	91.6	268.4	95	5269.39	2390.04	134.23 N	2387.94 W	2391.71	273.22	0.85	0.84	0.11
51	7512	91.0	268.3	95	5267.23	2484.90	131.50 N	2482.88 W	2486.36	273.03	0.64	-0.63	-0.11
52	7607	91.6	268.4	95	5265.08	2579.77	128.76 N	2577.82 W	2581.03	272.86	0.64	0.63	0.11
53	7702	90.8	268.3	95	5263.09	2674.64	126.03 N	2672.76 W	2675.72	272.70	0.85	-0.84	-0.11
54	7797	91.3	268.3	95	5261.35	2769.52	123.21 N	2767.70 W	2770.44	272.55	0.53	0.53	0.00
55	7892	91.3	267.0	95	5259.19	2864.32	119.31 N	2862.59 W	2865.08	272.39	1.37	0.00	-1.37
56	7988	91.4	267.8	96	5256.93	2960.10	114.96 N	2958.46 W	2960.70	272.23	0.84	0.10	0.83
57	8083	91.8	269.0	95	5254.28	3054.95	112.31 N	3053.39 W	3055.45	272.11	1.33	0.42	1.26
58	8178	91.1	270.2	95	5251.88	3149.89	111.65 N	3148.35 W	3150.33	272.03	1.46	-0.74	1.26
59	8273	90.9	269.7	95	5250.22	3244.86	111.56 N	3243.34 W	3245.26	271.97	0.57	-0.21	-0.53
60	8368	91.4	268.6	95	5248.31	3339.78	110.15 N	3338.31 W	3340.12	271.89	1.27	0.53	-1.16
61	8463	91.7	269.8	95	5245.74	3434.70	108.83 N	3433.26 W	3434.99	271.82	1.30	0.32	1.26
62	8559	90.5	269.4	96	5243.90	3530.64	108.16 N	3529.24 W	3530.90	271.76	1.32	-1.25	-0.42
63	8654	90.7	269.7	95	5242.90	3625.61	107.41 N	3624.23 W	3625.82	271.70	0.38	0.21	0.32
64	8749	90.9	269.8	95	5241.58	3720.57	107.00 N	3719.22 W	3720.76	271.65	0.24	0.21	0.11
65	8844	91.0	269.6	95	5240.00	3815.53	106.50 N	3814.21 W	3815.69	271.60	0.24	0.11	-0.21
66	8939	90.9	269.7	95	5238.43	3910.49	105.92 N	3909.19 W	3910.63	271.55	0.15	-0.11	0.11
67	9034	90.6	268.7	95	5237.18	4005.43	104.59 N	4004.17 W	4005.54	271.50	1.10	-0.32	-1.05
68	9129	90.3	268.5	95	5236.44	4100.34	102.27 N	4099.14 W	4100.42	271.43	0.38	-0.32	-0.21
69	9225	90.5	269.0	96	5235.77	4196.25	100.18 N	4195.12 W	4196.31	271.37	0.56	0.21	0.52
70	9320	90.7	269.2	95	5234.77	4291.19	98.69 N	4290.10 W	4291.23	271.32	0.30	0.21	0.21
71	9415	90.0	270.5	95	5234.19	4386.17	98.44 N	4385.09 W	4386.20	271.29	1.55	-0.74	1.37
72	9510	89.9	270.5	95	5234.27	4481.16	99.27 N	4480.09 W	4481.19	271.27	0.11	-0.11	0.00
73	9605	89.8	270.7	95	5234.52	4576.16	100.26 N	4575.08 W	4576.18	271.26	0.24	-0.11	0.21
74	9700	89.6	270.7	95	5235.02	4671.16	101.42 N	4670.08 W	4671.18	271.24	0.21	-0.21	0.00
75	9769	89.6	270.8	69	5235.50	4740.15	102.33 N	4739.07 W	4740.17	271.24	0.14	0.00	0.14
Proj.	9834	89.6	270.8	65	5235.96	4805.15	103.23 N	4804.06 W	4805.17	271.23	0.00	0.00	0.00