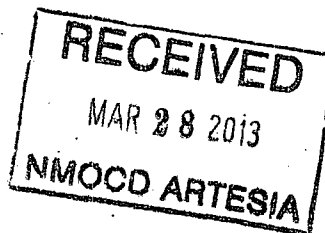


A GYRO TECHNOLOGIES INC. COMPANY

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

30-015-40652



October 31, 2012

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

Attn: Kanica Castillo

RE: **Reposado 2 State Com No. 003H**

Please find enclosed a copy of the survey from 0.00' to 9510.00' ran on the above referenced well.

If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations



Company: COG Operating LLC (Concho)
Lease/Well: Reposado 2 State Com / No. 003H
Location: Sec 02 T-26S R-29E
Rig Name: Patriot 3
State/County: New Mexico / Eddy
Latitude: 32.06, Longitude: -103.96
GRID North is 0.20 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 18 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: reposado 2 state com #3h_ed.ut

Minimum Curvature Method

Report Date/Time: 10/31/2012 / 08:16

Vaughn Energy Services

Bossier City, Louisiana

318-549-3860

Surveyor: Clayton Addison

Reposado 2 State Com No. 003H / API 30-015-40652

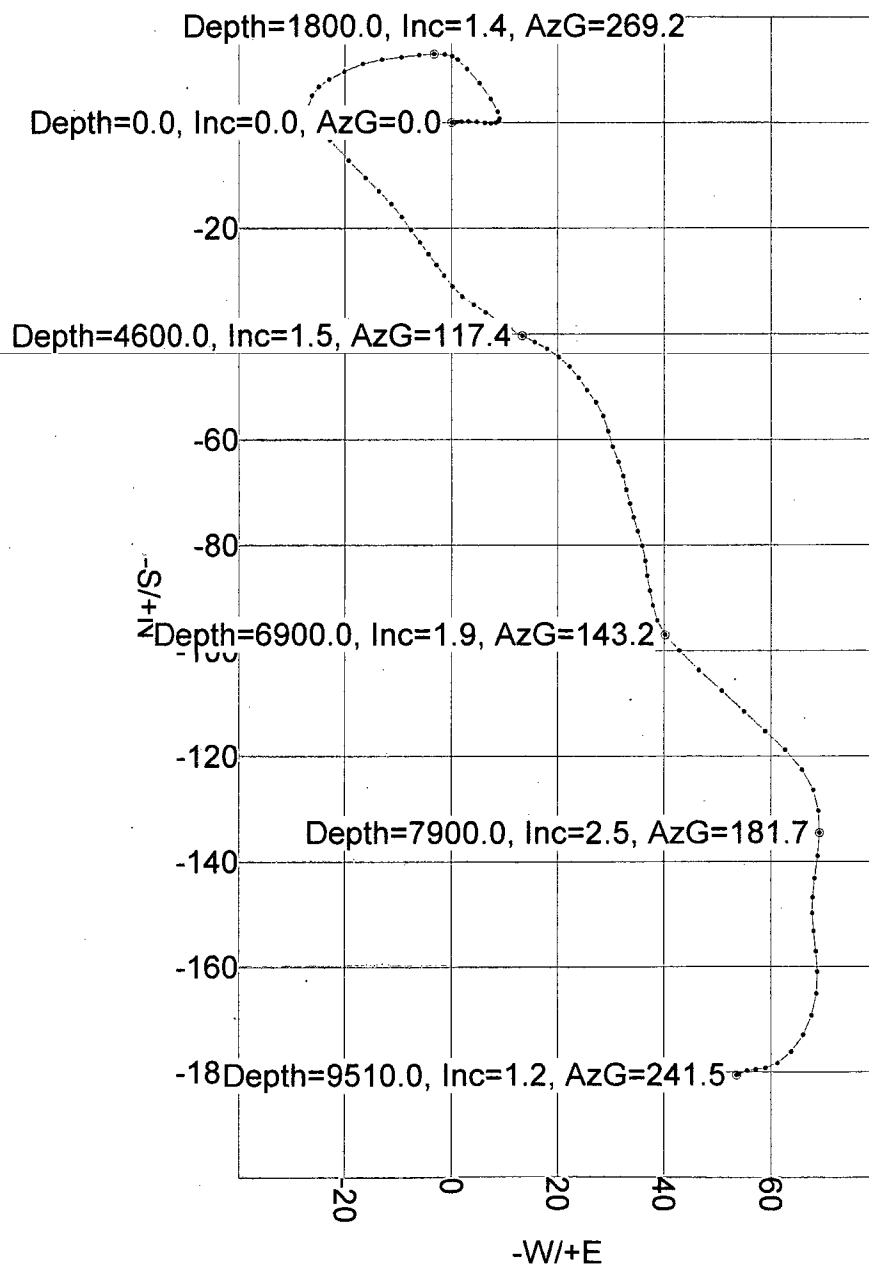
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.41	86.46	100.00	0.02	0.35	0.35	86.46	0.41
200.00	0.30	81.11	200.00	0.08	0.97	0.97	85.01	0.11
300.00	0.68	88.69	299.99	0.14	1.82	1.83	85.64	0.38
400.00	0.83	88.20	399.98	0.18	3.13	3.14	86.80	0.15
500.00	0.96	96.53	499.97	0.10	4.68	4.69	88.74	0.18
600.00	0.74	99.48	599.96	-0.10	6.15	6.15	90.91	0.22
700.00	0.60	88.67	699.95	-0.19	7.31	7.31	91.50	0.19
800.00	0.52	71.73	799.95	-0.04	8.27	8.27	90.26	0.18
900.00	0.18	40.42	899.95	0.22	8.80	8.80	88.55	0.38
1000.00	0.45	5.91	999.95	0.73	8.94	8.97	85.35	0.32
1100.00	1.13	338.38	1099.94	2.03	8.61	8.85	76.71	0.76
1200.00	2.03	327.47	1199.90	4.44	7.30	8.55	58.67	0.94
1300.00	2.13	322.16	1299.83	7.40	5.21	9.05	35.16	0.22
1400.00	2.00	316.42	1399.77	10.13	2.87	10.53	15.82	0.24
1500.00	0.80	309.45	1499.74	11.84	1.13	11.89	5.43	1.21
1600.00	0.67	291.27	1599.73	12.49	0.04	12.49	0.19	0.27
1700.00	0.92	279.52	1699.72	12.84	-1.29	12.90	354.25	0.30
1800.00	1.37	269.16	1799.70	12.95	-3.28	13.36	345.80	0.49

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	1.84	263.28	1899.66	12.75	-6.07	14.12	334.54	0.50
2000.00	2.07	262.92	1999.60	12.34	-9.45	15.54	322.54	0.22
2100.00	2.09	262.41	2099.53	11.87	-13.05	17.64	312.30	0.03
2200.00	2.12	253.48	2199.47	11.11	-16.63	20.00	303.74	0.33
2300.00	2.25	242.62	2299.40	9.68	-20.15	22.35	295.66	0.43
2400.00	1.57	241.62	2399.34	8.12	-23.10	24.48	289.38	0.68
2500.00	1.18	224.74	2499.31	6.74	-25.03	25.92	285.07	0.56
2600.00	1.19	210.12	2599.29	5.11	-26.27	26.76	281.01	0.30
2700.00	1.32	185.85	2699.27	3.07	-26.91	27.08	276.52	0.54
2800.00	2.30	145.24	2799.22	0.28	-25.88	25.88	270.62	1.56
2900.00	3.05	137.40	2899.11	-3.33	-22.94	23.18	261.75	0.84
3000.00	2.99	136.11	2998.97	-7.16	-19.33	20.61	249.67	0.09
3100.00	2.25	136.81	3098.87	-10.47	-16.18	19.27	237.09	0.74
3200.00	1.89	132.60	3198.80	-13.02	-13.62	18.84	226.30	0.39
3300.00	1.90	139.19	3298.75	-15.39	-11.33	19.11	216.35	0.22
3400.00	1.79	145.19	3398.69	-17.92	-9.35	20.22	207.56	0.22
3500.00	1.66	144.45	3498.65	-20.38	-7.62	21.76	200.50	0.13
3600.00	1.62	142.84	3598.61	-22.69	-5.92	23.45	194.63	0.06
3700.00	1.48	143.98	3698.57	-24.86	-4.31	25.23	189.83	0.14
3800.00	1.44	144.75	3798.54	-26.93	-2.82	27.08	185.98	0.05
3900.00	1.41	143.78	3898.51	-28.95	-1.37	28.98	182.71	0.04
4000.00	1.51	142.93	3998.48	-30.99	0.15	30.99	179.73	0.10
4100.00	1.53	130.03	4098.44	-32.90	1.96	32.96	176.59	0.34
4200.00	1.54	121.73	4198.40	-34.46	4.13	34.71	173.17	0.22
4300.00	1.51	122.99	4298.37	-35.89	6.38	36.45	169.92	0.05
4400.00	1.60	126.19	4398.33	-37.43	8.61	38.41	167.05	0.12
4500.00	1.60	122.20	4498.29	-39.00	10.91	40.49	164.37	0.11
4600.00	1.47	117.36	4598.26	-40.33	13.23	42.44	161.84	0.18
4700.00	1.55	116.52	4698.22	-41.52	15.58	44.35	159.43	0.09
4800.00	1.54	120.24	4798.19	-42.80	17.95	46.42	157.24	0.10
4900.00	1.59	129.30	4898.15	-44.36	20.19	48.74	155.53	0.25
5000.00	1.56	133.24	4998.11	-46.17	22.26	51.26	154.26	0.11
5100.00	1.60	149.12	5098.07	-48.31	23.97	53.92	153.61	0.44
5200.00	1.61	142.68	5198.04	-50.62	25.53	56.69	153.23	0.18
5300.00	1.65	145.70	5297.99	-52.92	27.19	59.50	152.80	0.10
5400.00	1.76	159.40	5397.95	-55.55	28.55	62.45	152.80	0.42
5500.00	1.73	164.97	5497.90	-58.44	29.48	65.46	153.23	0.17
5600.00	1.74	162.19	5597.86	-61.34	30.33	68.43	153.69	0.08
5700.00	1.77	157.51	5697.81	-64.21	31.38	71.47	153.95	0.15

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
5800.00	1.51	166.41	5797.77	-66.92	32.28	74.30	154.24	0.36
5900.00	1.52	168.35	5897.74	-69.50	32.86	76.88	154.69	0.05
6000.00	1.53	162.50	5997.70	-72.08	33.53	79.50	155.05	0.16
6100.00	1.57	167.30	6097.66	-74.68	34.23	82.16	155.37	0.14
6200.00	1.59	160.78	6197.63	-77.33	34.99	84.88	155.65	0.18
6300.00	1.70	163.35	6297.59	-80.07	35.88	87.74	155.86	0.13
6400.00	1.64	174.96	6397.54	-82.91	36.43	90.56	156.28	0.34
6500.00	1.66	171.95	6497.50	-85.77	36.75	93.31	156.80	0.09
6600.00	1.64	166.66	6597.46	-88.60	37.29	96.12	157.18	0.15
6700.00	1.66	169.31	6697.42	-91.41	37.89	98.95	157.49	0.08
6800.00	1.74	159.37	6797.37	-94.26	38.69	101.89	157.68	0.30
6900.00	1.87	143.19	6897.33	-96.98	40.20	104.98	157.49	0.52
7000.00	2.72	135.87	6997.25	-99.98	42.82	108.77	156.81	0.90
7100.00	3.31	134.00	7097.11	-103.69	46.55	113.66	155.82	0.60
7200.00	3.31	130.11	7196.94	-107.56	50.84	118.97	154.70	0.22
7300.00	3.26	136.77	7296.78	-111.50	55.00	124.32	153.74	0.39
7400.00	3.00	130.07	7396.63	-115.25	58.95	129.45	152.91	0.45
7500.00	2.94	136.74	7496.49	-118.80	62.71	134.34	152.17	0.35
7600.00	2.66	144.03	7596.37	-122.55	65.83	139.12	151.76	0.46
7700.00	2.41	159.26	7696.28	-126.40	67.94	143.50	151.74	0.71
7800.00	2.29	172.60	7796.19	-130.34	68.94	147.45	152.12	0.56
7900.00	2.50	181.74	7896.11	-134.50	69.13	151.23	152.80	0.43
8000.00	2.57	187.47	7996.01	-138.91	68.78	155.00	153.66	0.26
8100.00	2.38	188.12	8095.91	-143.19	68.19	158.60	154.53	0.19
8200.00	1.80	182.13	8195.85	-146.82	67.84	161.73	155.20	0.62
8300.00	1.68	180.42	8295.80	-149.85	67.77	164.47	155.67	0.13
8400.00	2.16	172.52	8395.75	-153.19	68.00	167.60	156.06	0.55
8500.00	2.29	174.38	8495.67	-157.04	68.44	171.31	156.45	0.15
8600.00	2.21	177.78	8595.59	-160.94	68.71	175.00	156.88	0.16
8700.00	2.57	186.72	8695.51	-165.10	68.53	178.76	157.46	0.52
8800.00	2.31	198.35	8795.42	-169.24	67.63	182.25	158.22	0.56
8900.00	2.26	206.76	8895.34	-172.92	66.11	185.12	159.08	0.34
9000.00	2.30	223.19	8995.26	-176.14	63.85	187.35	160.08	0.65
9100.00	1.63	239.25	9095.20	-178.32	61.26	188.55	161.04	0.86
9200.00	1.27	259.11	9195.17	-179.26	58.95	188.70	161.80	0.61
9300.00	0.77	266.37	9295.15	-179.51	57.19	188.40	162.33	0.52
9400.00	1.08	256.76	9395.14	-179.77	55.61	188.17	162.81	0.35
9500.00	1.17	241.22	9495.12	-180.48	53.79	188.32	163.40	0.32
9510.00	1.25	241.50	9505.12	-180.58	53.61	188.37	163.47	0.77



Vaughn Energy Services
Bossier City, Louisiana
318-549-3860
Surveyor: Clayton Addison
Reposado 2 State Com No. 003H / API 30-015-40652



VES Survey Date: 10/23/2012