



June 4, 2015

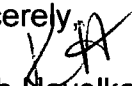
30015-42891

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

Attn: Kanicia Castillo

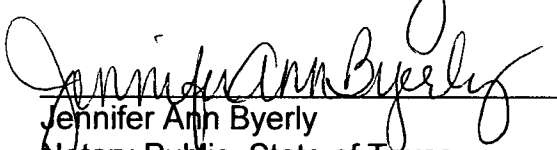
RE: **Falabella 31 Fee 5H**

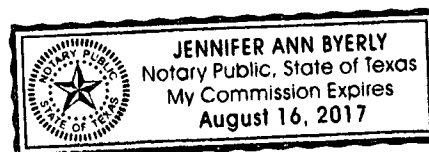
Please find enclosed a copy of the survey from 0' to 960' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 4 day of June,
A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Concho
Lease/Well: Falabella 31 Fee/5H

Rig Name: Silver Oak 3
State/County: New Mexico/Eddy

VS-Azi: 0.00 Degrees
Latitude: 32.69720, Longitude: -104.42603
Grid Convergence Applied = +0.05 degs
Grid North = True North +0.05 degs



Depth Reference : RKB= 18

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: falabella31fee5h-de_01.ut

Minimum Curvature Method

Report Date/Time: 6/4/2015 / 16:45

VES Survey International

Ft. Worth, Texas

817-741-3610

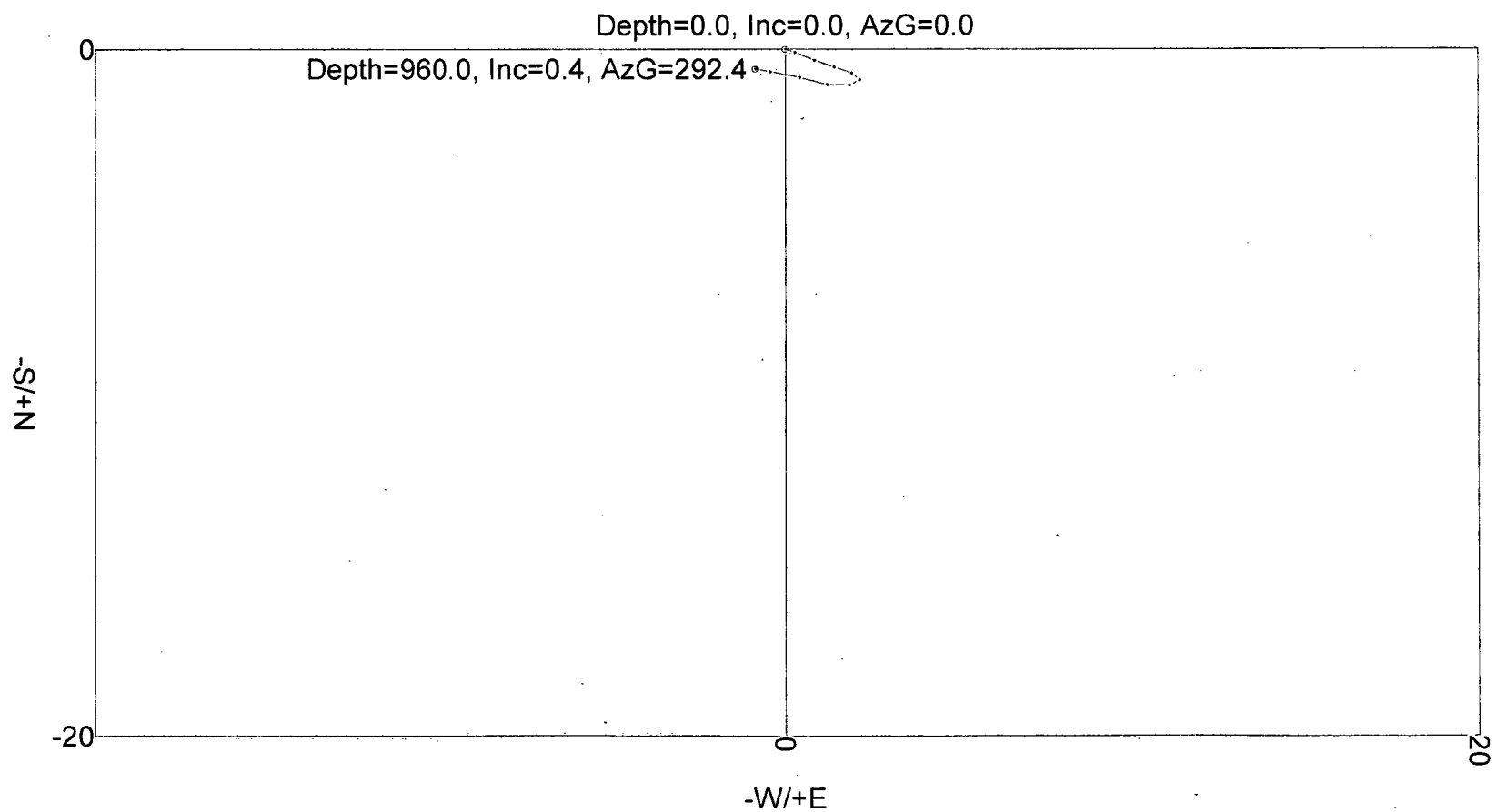
Surveyor: Gregg Wilson

Falabella 31 Fee 5H / API 30-015-42891

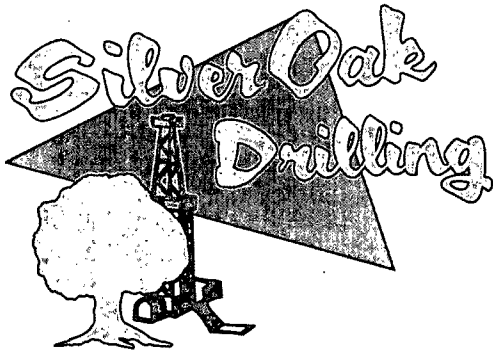
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.32	109.99	100.00	-0.10	0.27	-0.10	0.28	109.99	0.32
200.00	0.37	111.88	200.00	-0.31	0.83	-0.31	0.89	110.68	0.05
300.00	0.32	106.58	300.00	-0.51	1.40	-0.51	1.49	110.17	0.06
400.00	0.29	111.88	399.99	-0.69	1.91	-0.69	2.03	109.88	0.04
500.00	0.12	183.52	499.99	-0.89	2.14	-0.89	2.31	112.61	0.28
600.00	0.33	260.81	599.99	-1.04	1.84	-1.04	2.12	119.45	0.33
700.00	0.41	279.37	699.99	-1.03	1.20	-1.03	1.58	130.51	0.14
800.00	0.54	288.96	799.99	-0.82	0.41	-0.82	0.91	153.48	0.15
900.00	0.47	271.87	899.98	-0.65	-0.44	-0.65	0.79	214.06	0.16
960.00	0.36	292.42	959.98	-0.57	-0.86	-0.57	1.04	236.37	0.30



VES Survey International
Ft. Worth, Texas
817-741-3610
Surveyor: Gregg Wilson
Falabella 31 Fee 5H / API 30-015-42891



VES Survey Date: 6/1/2015



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

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 13 2015

RECEIVED

June 11, 2015

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

RE: Falabella 31 Fee #5H
150' FSL & 929' FWL
Sec. 31, T18S, R26E
Eddy County, New Mexico

Dear Sir,

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

Very truly yours,

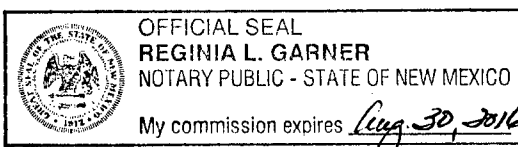
A handwritten signature in black ink, appearing to read "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 11th day of June, 2015.

A handwritten signature in black ink, appearing to read "Regina L. Garner".

Notary Public

FALABELLA 31 FEE # 5H

Date	Depth	Deviation	Direction	TVD
5/31/2015	171	0.90	0.00	0.00
6/1/2015	260	0.60	0.00	0.00
6/1/2015	501	0.10	0.00	0.00
6/1/2015	744	0.80	0.00	0.00
6/1/2015	807	0.70	0.00	0.00
6/2/2015	986	0.50	289.00	0.00
6/2/2015	1018	1.20	276.00	0.00
6/2/2015	1112	4.00	272.50	0.00
6/3/2015	1221	6.20	147.40	0.00
6/3/2015	1252	6.30	279.40	0.00
6/3/2015	1316	6.70	279.40	0.00
6/3/2015	1410	7.50	220.90	0.00
6/3/2015	1505	7.30	263.00	0.00
6/3/2015	1600	6.20	268.50	0.00
6/3/2015	1693	5.30	264.30	0.00
6/4/2015	1822	1.90	261.50	0.00
6/4/2015	1976	0.30	21.40	0.00
6/4/2015	2038	0.50	54.00	0.00
6/4/2015	2069	1.80	5.00	0.00
6/4/2015	2101	3.50	357.90	0.00
6/4/2015	2132	5.80	356.20	0.00
6/4/2015	2164	7.00	352.70	0.00
6/4/2015	2196	9.70	352.70	0.00
6/4/2015	2227	12.90	347.80	0.00
6/4/2015	2258	15.60	350.50	0.00
6/4/2015	2290	18.50	351.30	0.00
6/4/2015	2321	21.40	353.20	0.00
6/4/2015	2384	27.90	352.00	0.00
6/4/2015	2479	37.50	354.00	0.00
6/4/2015	2542	43.30	353.60	0.00
6/4/2015	2574	46.50	353.80	0.00
6/5/2015	2606	49.30	354.30	2540.00
6/5/2015	2669	57.00	355.20	2578.00
6/5/2015	2700	60.20	357.00	2594.00
6/5/2015	2763	66.30	359.60	2622.00
6/5/2015	2858	77.40	0.20	2652.00
6/5/2015	2889	81.10	1.50	0.00
6/5/2015	2920	84.30	3.00	0.00
6/5/2015	2952	86.60	2.30	0.00
6/5/2015	2972	88.20	1.80	0.00
6/5/2015	3004	89.90	1.40	0.00
6/5/2015	3035	89.80	1.20	0.00

Date	Depth	Deviation	Direction	TVD
6/5/2015	3129	92.00	0.10	0.00
6/5/2015	3223	91.90	0.50	0.00
6/6/2015	3317	91.40	0.20	2658.00
6/6/2015	3412	92.00	0.00	2655.00
6/6/2015	3527	92.10	359.80	0.00
6/6/2015	3623	91.70	359.30	0.00
6/6/2015	3718	91.00	358.90	0.00
6/6/2015	3811	91.90	358.90	0.00
6/6/2015	3907	91.30	358.30	0.00
6/6/2015	4001	91.70	359.90	0.00
6/6/2015	4096	92.00	0.40	0.00
6/7/2015	4191	91.90	0.30	2632.00
6/7/2015	4286	91.80	0.60	2629.00
6/7/2015	4379	92.80	359.70	2625.00
6/7/2015	4474	92.40	0.00	2621.00
6/7/2015	4569	92.10	359.90	2617.00
6/7/2015	4664	92.00	0.00	2614.00
6/7/2015	4758	92.00	359.90	0.00
6/7/2015	4852	92.50	358.70	0.00
6/7/2015	4979	92.60	359.20	0.00
6/7/2015	5041	93.00	359.10	0.00
6/7/2015	5136	91.40	358.90	0.00
6/7/2015	5232	91.40	359.20	0.00
6/7/2015	5326	91.50	359.90	0.00
6/7/2015	5516	92.40	359.80	0.00
6/8/2015	5612	92.60	359.70	2587.00
6/8/2015	5705	93.00	0.00	2574.00
6/8/2015	5800	92.10	359.10	2569.00
6/8/2015	5895	92.00	359.10	2566.00
6/8/2015	6085	91.40	360.00	0.00
6/8/2015	6179	91.40	360.00	0.00
6/8/2015	6275	91.80	3597.00	0.00
6/8/2015	6370	92.30	359.80	0.00
6/8/2015	6558	92.90	359.60	0.00
6/8/2015	6654	91.30	0.20	0.00
6/8/2015	6748	91.50	0.40	0.00
6/9/2015	7032	91.80	359.80	2528.00
6/9/2015	7126	91.30	359.90	2526.00
6/9/2015	7168	91.50	359.90	2525.00

EOF



COG Operating LLC

Eddy County, NM (NAD27 NME)

Falabella 31 Fee

#5H

OH / Job #1513659

Design: Surveys (Silver Oak 3)

Standard Survey Report

10 June, 2015

NM OIL CONSERVATION
ARTESIA DISTRICT

AUG 13 2015

RECEIVED



PHOENIX
TECHNOLOGY SERVICES



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County NM (NAD27/NME)	TVD Reference:	KB @ 3450.00usft (Silver Oak 3)
Site:	Falabella 31 Fee	MD Reference:	KB @ 3450.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	OH / Job #1513659	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	Compass 5000 GCR

Project:	Eddy County NM (NAD27/NME)		
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:	Falabella 31 Fee		
Site Position:		Northing:	617,359.30 usft
From:	Map	Easting:	472,777.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 41' 49.87612 N
		Longitude:	104° 25' 18.57515 W
		Grid Convergence:	-0.05 °

Well:	#5H		
Well Position	+N-S	0.00 usft	Northing:
	+E-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 41' 49.90774 N
		Longitude:	104° 25' 33.71355 W
		Ground Level:	3,432.00 usft

Wellbore:	OH / Job #1513659		
Magnetics	Model Name	Sample Date	Declination
			(°)
	HDGM	5/27/2015	7.63
			Dip Angle
			(°)
			60.57
			Field Strength
			(nT)
			48,419

Design:	Surveys (Silver Oak 3)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/S	+E/W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			358.48

Survey Program	Date: 6/10/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	960.00	VES Gyro Survey (OH / Job #1513659)	NS-GYRO-MS
986.00	7,228.00	Phoenix MWD Survey (OH / Job #1513659)	PHX+MWD+HDGM
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+HDGM

Survey	Measured	Inclination	Azimuth	Vertical	+N/S	+E/W	Vertical	Dogleg	Build	Turn
	Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
	(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.32	109.99	100.00	-0.10	0.26	-0.10	0.32	0.32	0.00
	200.00	0.37	111.88	200.00	-0.31	0.82	-0.33	0.05	0.05	1.89
	300.00	0.32	106.58	300.00	-0.51	1.39	-0.55	0.06	-0.05	-5.30
	400.00	0.29	111.88	399.99	-0.69	1.89	-0.74	0.04	-0.03	5.30
	500.00	0.12	183.52	499.99	-0.88	2.12	-0.94	0.28	-0.17	71.64
	600.00	0.33	260.81	599.99	-1.03	1.83	-1.08	0.33	0.21	77.29
	700.00	0.41	279.37	699.99	-1.02	1.19	-1.05	0.14	0.08	18.56
	800.00	0.54	288.96	799.99	-0.81	0.40	-0.82	0.15	0.13	9.59
	900.00	0.47	271.87	899.98	-0.64	-0.46	-0.63	0.17	-0.07	-17.09



Survey Report



Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27/NME)	TVD Reference:	KB @ 3450.00usft (Silver Oak 3)
Site:	Falabella 31 Fee	MD Reference:	KB @ 3450.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	OH / Job #1513659	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	Compass 5000 GCR

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)
960.00	0.36	292.42	959.98	-0.56	-0.88	-0.54	0.31	-0.18	34.25
Tie-on to VES Gyro Survey									
986.00	0.50	289.00	985.98	-0.50	-1.06	-0.47	0.55	0.54	-13.15
First Phoenix MWD Survey									
1,018.00	1.20	276.00	1,017.98	-0.42	-1.53	-0.38	2.26	2.19	-40.63
1,049.00	2.00	272.00	1,048.97	-0.36	-2.39	-0.30	2.60	2.58	-12.90
1,081.00	2.80	271.40	1,080.94	-0.32	-3.73	-0.23	2.50	2.50	-1.88
1,112.00	4.00	272.50	1,111.88	-0.26	-5.57	-0.11	3.88	3.87	3.55
1,144.00	4.80	272.00	1,143.79	-0.16	-8.02	0.05	2.50	2.50	-1.56
1,175.00	5.60	273.30	1,174.66	-0.03	-10.83	0.26	2.61	2.58	4.19
1,252.00	6.30	279.40	1,251.25	0.88	-18.75	1.37	1.22	0.91	7.92
1,316.00	6.70	279.40	1,314.83	2.06	-25.89	2.75	0.63	0.63	0.00
1,410.00	7.50	270.90	1,408.11	3.05	-37.44	4.04	1.40	0.85	-9.04
1,505.00	7.30	263.00	1,502.33	2.41	-49.63	3.73	1.09	-0.21	-8.32
1,600.00	6.20	268.50	1,596.67	1.54	-60.75	3.16	1.34	-1.16	5.79
1,693.00	5.30	264.30	1,689.20	0.98	-70.04	2.84	1.07	-0.97	-4.52
1,788.00	3.90	260.00	1,783.89	-0.01	-77.59	2.05	1.52	-1.47	-4.53
1,882.00	1.90	261.50	1,877.77	-0.80	-82.28	1.39	2.13	-2.13	1.60
1,976.00	0.30	21.40	1,971.75	-0.80	-83.73	1.43	2.20	-1.70	127.55
2,001.00	0.50	45.40	1,996.75	-0.66	-83.63	1.56	1.03	0.80	96.00
2,038.00	0.50	54.00	2,033.75	-0.45	-83.38	1.76	0.20	0.00	23.24
2,069.00	1.80	5.00	2,064.74	0.11	-83.23	2.32	4.90	4.19	-158.06
2,101.00	3.50	357.90	2,096.71	1.59	-83.22	3.80	5.40	5.31	-22.19
2,132.00	5.30	356.20	2,127.61	3.96	-83.35	6.18	5.82	5.81	-5.48
2,164.00	7.00	352.70	2,159.43	7.37	-83.70	9.59	5.44	5.31	-10.94
2,196.00	9.70	352.70	2,191.09	11.98	-84.29	14.22	8.44	8.44	0.00
2,227.00	12.90	349.80	2,221.48	17.98	-85.24	20.24	10.48	10.32	-9.35
2,258.00	15.60	350.50	2,251.52	25.50	-86.54	27.79	8.73	8.71	2.26
2,290.00	18.50	351.30	2,282.11	34.76	-88.01	37.09	9.09	9.06	2.50
2,321.00	21.40	353.20	2,311.25	45.24	-89.43	47.60	9.58	9.35	6.13
2,353.00	24.50	351.60	2,340.72	57.60	-91.09	60.00	9.88	9.69	-5.00
2,384.00	27.90	352.00	2,368.53	71.15	-93.04	73.60	10.98	10.97	1.29
2,416.00	31.50	352.40	2,396.32	86.86	-95.19	89.35	11.27	11.25	1.25
2,448.00	34.70	353.40	2,423.12	104.19	-97.34	106.74	10.14	10.00	3.13
2,479.00	37.50	354.00	2,448.17	122.35	-99.34	124.94	9.10	9.03	1.94
2,511.00	40.30	356.90	2,473.07	142.37	-100.92	145.00	10.44	8.75	9.06
2,542.00	43.30	353.60	2,496.18	162.96	-102.65	165.62	12.00	9.68	-10.65
2,574.00	46.50	353.80	2,518.84	185.40	-105.12	188.13	10.01	10.00	0.63
2,606.00	49.30	354.30	2,540.30	209.02	-107.58	211.80	8.83	8.75	1.56
2,638.00	52.70	354.40	2,560.43	233.76	-110.03	236.60	10.63	10.63	0.31
2,669.00	57.00	355.20	2,578.27	259.00	-112.32	261.89	14.03	13.87	2.58
2,700.00	60.20	357.00	2,594.42	285.39	-114.11	288.32	11.45	10.32	5.81
2,732.00	63.20	359.10	2,609.59	313.55	-115.07	316.49	11.01	9.38	6.56



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	KB @ 3450.00usft (Silver Oak 3)
Site:	Falabella 31 Fee	MD Reference:	KB @ 3450.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	QH / Job #1513659	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	Compass 5000 GCR

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)
2,763.00	66.30	359.60	2,622.82	341.58	-115.38	344.52	10.11	10.00	1.61
2,795.00	70.20	359.50	2,634.67	371.29	-115.62	374.23	12.19	12.19	-0.31
2,826.00	74.10	359.80	2,644.17	400.80	-115.80	403.73	12.61	12.58	0.97
2,858.00	77.40	0.20	2,652.05	431.81	-115.79	434.73	10.38	10.31	1.25
2,889.00	81.10	1.50	2,657.83	462.25	-115.34	465.15	12.63	11.94	4.19
2,920.00	84.30	3.00	2,661.77	492.97	-114.13	495.83	11.38	10.32	4.84
2,952.00	86.60	2.30	2,664.31	524.84	-112.66	527.64	7.51	7.19	-2.19
2,972.00	88.20	1.80	2,665.21	544.80	-111.94	547.58	8.38	8.00	-2.50
3,004.00	89.90	1.40	2,665.75	576.78	-111.05	579.53	5.46	5.31	-1.25
3,035.00	89.80	1.20	2,665.83	607.78	-110.35	610.49	0.72	-0.32	-0.65
3,129.00	92.00	0.10	2,664.35	701.75	-109.28	704.41	2.62	2.34	-1.17
3,223.00	91.90	0.50	2,661.15	795.69	-108.79	798.30	0.44	-0.11	0.43
3,317.00	91.40	0.20	2,658.44	889.65	-108.21	892.21	0.62	-0.53	-0.32
3,412.00	92.00	0.00	2,655.63	984.61	-108.05	987.13	0.67	0.63	-0.21
3,527.00	92.10	359.80	2,651.51	1,099.54	-108.25	1,102.02	0.19	0.09	-0.17
3,623.00	91.70	359.30	2,648.33	1,195.48	-109.00	1,197.95	0.67	-0.42	-0.52
3,718.00	91.00	358.90	2,646.09	1,290.44	-110.49	1,292.92	0.85	-0.74	-0.42
3,811.00	91.90	358.90	2,643.74	1,383.39	-112.28	1,385.89	0.97	0.97	0.00
3,907.00	91.30	358.30	2,641.06	1,479.33	-114.62	1,481.85	0.88	-0.63	-0.63
4,001.00	91.70	359.90	2,638.60	1,573.28	-116.10	1,575.81	1.75	0.43	1.70
4,096.00	92.00	0.40	2,635.53	1,668.23	-115.85	1,670.72	0.61	0.32	0.53
4,191.00	91.90	0.30	2,632.30	1,763.17	-115.27	1,765.61	0.15	-0.11	-0.11
4,286.00	91.80	0.60	2,629.23	1,858.12	-114.53	1,860.51	0.33	-0.11	0.32
4,379.00	92.80	359.70	2,625.50	1,951.04	-114.28	1,953.39	1.45	1.08	-0.97
4,474.00	92.40	0.00	2,621.19	2,045.94	-114.53	2,048.27	0.53	-0.42	0.32
4,569.00	92.10	359.90	2,617.46	2,140.87	-114.61	2,143.16	0.33	-0.32	-0.11
4,664.00	92.00	0.00	2,614.06	2,235.81	-114.70	2,238.07	0.15	-0.11	0.11
4,758.00	92.00	359.90	2,610.78	2,329.75	-114.78	2,331.98	0.11	0.00	-0.11
4,852.00	92.50	358.70	2,607.09	2,423.67	-115.93	2,425.90	1.38	0.53	-1.28
4,947.00	92.60	359.20	2,602.86	2,518.56	-117.66	2,520.80	0.54	0.11	0.53
5,041.00	93.00	359.10	2,598.27	2,612.44	-119.06	2,614.68	0.44	0.43	-0.11
5,136.00	91.40	358.90	2,594.62	2,707.35	-120.71	2,709.60	1.70	-1.68	-0.21
5,232.00	91.40	359.20	2,592.28	2,803.31	-122.31	2,805.57	0.31	0.00	0.31
5,326.00	91.50	359.30	2,589.90	2,897.27	-123.54	2,899.53	0.15	0.11	0.11
5,421.00	92.30	359.90	2,586.75	2,992.22	-124.20	2,994.46	1.05	0.84	0.63
5,516.00	92.40	359.80	2,582.86	3,087.14	-124.45	3,089.35	0.15	0.11	-0.11
5,612.00	92.60	359.70	2,578.67	3,183.04	-124.87	3,185.24	0.23	0.21	-0.10
5,705.00	93.00	0.00	2,574.12	3,275.93	-125.11	3,278.10	0.54	0.43	0.32
5,800.00	92.10	359.10	2,569.90	3,370.83	-125.85	3,372.99	1.34	-0.95	-0.95
5,895.00	92.00	359.10	2,566.50	3,465.76	-127.35	3,467.92	0.11	-0.11	0.00
5,990.00	91.90	359.30	2,563.27	3,560.70	-128.67	3,562.86	0.24	-0.11	0.21
6,085.00	92.20	359.00	2,559.87	3,655.62	-130.08	3,657.79	0.45	0.32	-0.32
6,179.00	91.40	0.00	2,556.92	3,749.57	-130.90	3,751.73	1.36	-0.85	1.06
6,275.00	91.80	359.70	2,554.24	3,845.53	-131.15	3,847.66	0.52	0.42	-0.31



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3450'00usft (Silver Oak 3)
Site:	Falabella 31 Fee	MD Reference:	KB @ 3450'00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	OH / Job #1513659	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	Compass 5000 GCR

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)
6,370.00	92.30	359.80	2,550.84	3,940.47	-131.56	3,942.58	0.54	0.53	0.11
6,464.00	92.40	359.80	2,546.98	4,034.39	-131.89	4,036.47	0.11	0.11	0.00
6,558.00	92.90	359.60	2,542.64	4,128.29	-132.38	4,130.35	0.57	0.53	-0.21
6,653.00	91.30	0.20	2,539.16	4,223.22	-132.55	4,225.25	1.80	-1.68	0.63
6,748.00	91.50	0.40	2,536.83	4,318.19	-132.05	4,320.18	0.30	0.21	0.21
6,842.00	91.60	0.20	2,534.29	4,412.16	-131.56	4,414.09	0.24	0.11	-0.21
6,937.00	91.60	0.00	2,531.64	4,507.12	-131.39	4,509.02	0.21	0.00	-0.21
7,032.00	91.80	359.80	2,528.82	4,602.08	-131.56	4,603.95	0.30	0.21	-0.21
7,126.00	91.30	359.90	2,526.28	4,696.04	-131.81	4,697.89	0.54	-0.53	0.11
7,168.00	91.50	359.90	2,525.25	4,738.03	-131.88	4,739.86	0.48	0.48	0.00
Last Phoenix MWD Survey									
7,228.00	91.50	359.90	2,523.68	4,798.01	-131.98	4,799.82	0.00	0.00	0.00
Projection to TD									

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
960.00	959.98	-0.56	-0.88	Tie-on to VES Gyro Survey
986.00	985.98	-0.50	-1.06	First Phoenix MWD Survey
7,168.00	2,525.25	4,738.03	-131.88	Last Phoenix MWD Survey
7,228.00	2,523.68	4,798.01	-131.98	Projection to TD

Checked By: _____ Approved By: _____ Date: _____