



1542641

March 27, 2015

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 26 2015

RECEIVED

Attn: Kanicia Castillo

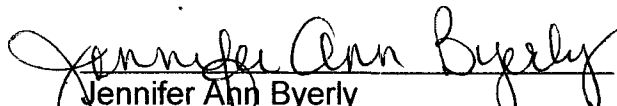
RE: **Stonewall 9 Fee 5H**

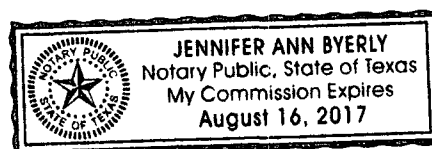
Please find enclosed a copy of the survey from 0' to 2420' ran on the above referenced well.

Sincerely, 
Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 27 day of March,
A.D., 2015, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: Concho
Lease/Well: Stonewall 9 Fee/5H

Rig Name: Silver Oak 3
State/County: New Mexico/Eddy
Latitude: 32.67, Longitude: -104.39
GRID North is 0.03 Degrees West of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 18 feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 3/27/2015 / 14:41

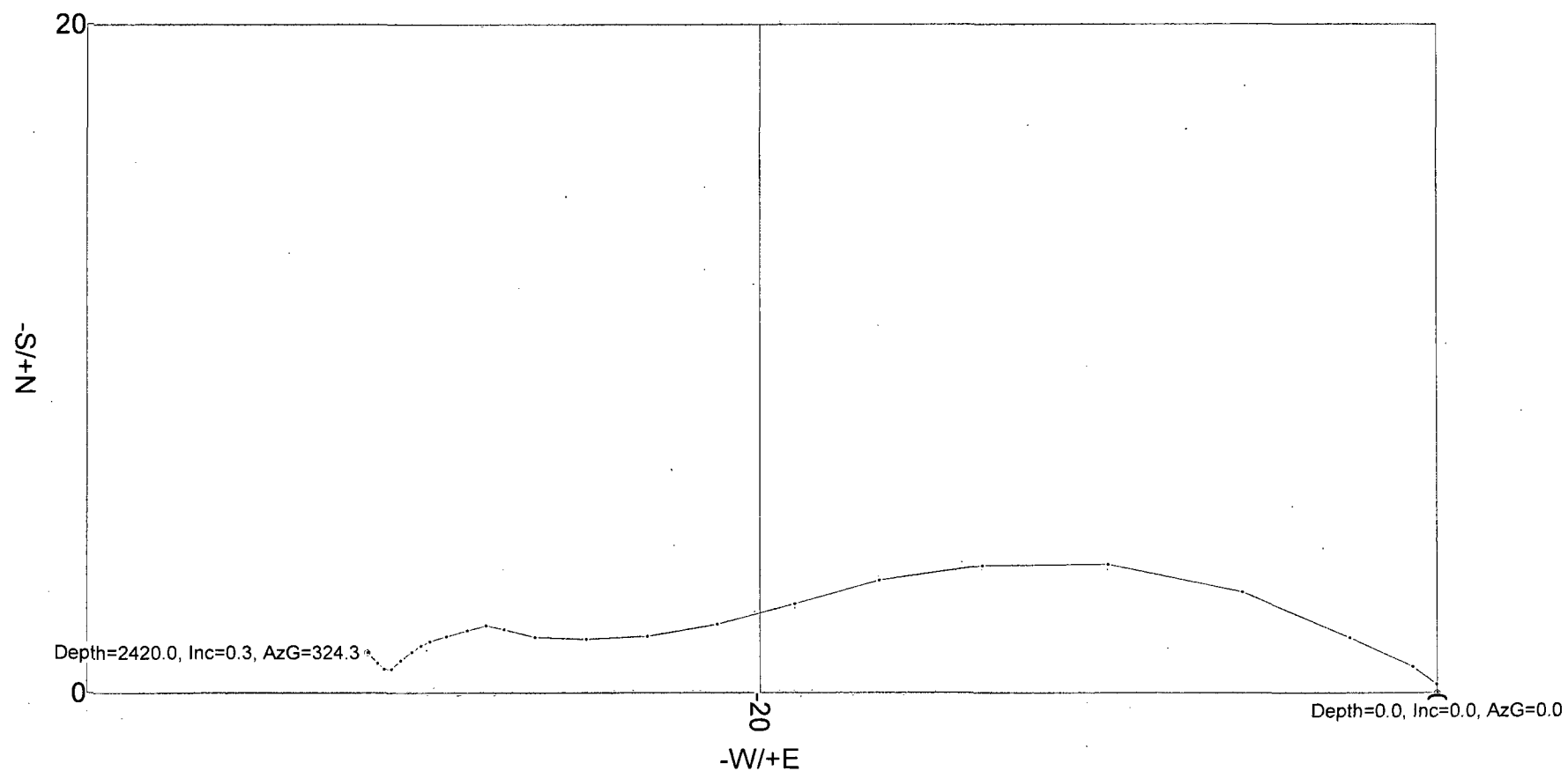
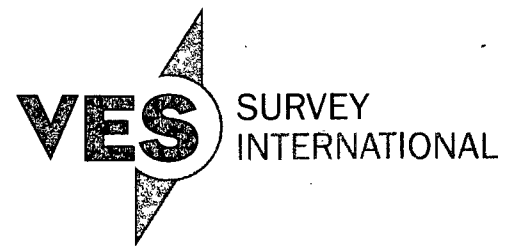
VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Stonewall 9 Fee 5H / API 30-015-42641

RECEIVED
MAY 26 2015
ARTESIA DISTRICT
N.M. OIL CONSERVATION

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	353.05	100.00	0.25	-0.03	0.25	0.25	353.05	0.29
200.00	0.84	292.78	199.99	0.78	-0.74	0.78	1.08	316.63	0.75
300.00	1.49	296.38	299.97	1.65	-2.59	1.65	3.07	302.50	0.65
400.00	2.47	291.66	399.91	3.02	-5.76	3.02	6.50	297.70	0.99
500.00	2.26	270.96	499.83	3.85	-9.73	3.85	10.47	291.59	0.87
600.00	1.98	267.75	599.76	3.82	-13.43	3.82	13.96	285.86	0.31
700.00	1.56	254.28	699.71	3.38	-16.47	3.38	16.81	281.60	0.59
800.00	1.42	254.29	799.68	2.68	-18.97	2.68	19.16	278.03	0.14
900.00	1.32	256.14	899.65	2.07	-21.27	2.07	21.37	275.55	0.11
1000.00	1.09	264.25	999.63	1.70	-23.33	1.70	23.39	274.16	0.29
1100.00	1.00	270.70	1099.61	1.61	-25.15	1.61	25.20	273.67	0.15
1200.00	0.73	274.59	1199.60	1.67	-26.66	1.67	26.71	273.59	0.27
1300.00	0.38	303.30	1299.60	1.91	-27.57	1.91	27.64	273.95	0.44
1400.00	0.31	256.08	1399.59	2.02	-28.11	2.02	28.18	274.12	0.28
1500.00	0.36	253.28	1499.59	1.87	-28.67	1.87	28.73	273.73	0.06
1600.00	0.36	255.38	1599.59	1.70	-29.28	1.70	29.33	273.31	0.01
1700.00	0.24	250.11	1699.59	1.54	-29.78	1.54	29.82	272.97	0.12
1800.00	0.11	235.41	1799.59	1.42	-30.06	1.42	30.10	272.70	0.13



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Adam Askew
Stonewall 9 Fee 5H / API 30-015-42641



VES Survey Date: 3/25/2015



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

April 2, 2015

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

RE: Stonewall 9 Fee 5H
150' FSL & 990' FWL
Sec. 9, T19S, R26E
Eddy County, New Mexico

Dear Sir,

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

Very truly yours,

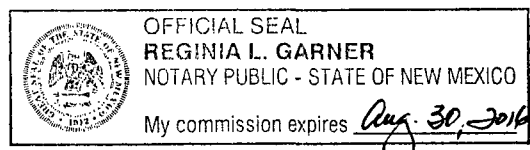
A handwritten signature in cursive script that reads "Chris Graham".

Chris Graham
Drilling Superintendent

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 2nd day of April, 2015.

A handwritten signature in cursive script that reads "Regina L. Garner".

Notary Public

STONEWALL 9 FEE 5H

Date	Depth	Deviation	Direction
3/23/2015	171	0.80	0.00
3/23/2015	445	2.40	0.00
3/23/2015	475	2.30	0.00
3/23/2015	534	1.80	0.00
3/23/2015	624	2.00	0.00
3/23/2015	747	1.40	0.00
3/23/2015	873	0.90	0.00
3/24/2015	1160	0.90	0.00
3/25/2015	1438	0.40	0.00
3/25/2015	1913	0.50	0.00
3/25/2015	2165	0.60	0.00
3/26/2015	2454	41.00	1.00
3/26/2015	2481	0.30	312.50
3/26/2015	2512	2.30	2.60
3/26/2015	2543	5.50	7.70
3/26/2015	2575	8.40	3.30
3/26/2015	2606	11.30	356.90
3/26/2015	2637	13.60	352.80
3/26/2015	2669	16.00	352.20
3/26/2015	2732	21.20	355.30
3/26/2015	2764	22.90	357.60
3/26/2015	2796	24.60	0.10
3/26/2015	2827	27.40	1.20
3/26/2015	2855	31.40	1.20
3/26/2015	2891	35.40	0.70
3/26/2015	2922	38.10	0.50
3/27/2015	3079	51.90	0.30
3/27/2015	3111	55.10	0.30
3/27/2015	3142	59.30	359.70
3/27/2015	3174	62.90	359.50
3/27/2015	3206	66.20	359.90
3/27/2015	3238	70.50	0.10
3/27/2015	3363	84.90	359.60
3/27/2015	3381	86.65	359.60
3/27/2015	3413	88.20	359.50
3/27/2015	3445	88.80	359.40
3/27/2015	3476	89.20	359.10
3/27/2015	3508	89.50	358.90
3/27/2015	3602	90.40	359.00
3/28/2015	3698	91.00	358.90
3/28/2015	3793	91.90	358.80
3/28/2015	4077	89.40	358.30

Date	Depth	Deviation	Direction
3/28/2015	4171	90.40	357.90
3/28/2015	4265	90.40	359.60
3/28/2015	4360	88.80	0.40
3/28/2015	4454	88.90	358.50
3/28/2015	4548	90.20	358.50
3/29/2015	4926	90.20	358.90
3/29/2015	5021	91.30	358.80
3/29/2015	5116	88.90	358.90
3/29/2015	5210	89.70	358.80
3/29/2015	5306	90.90	358.60
3/29/2015	5400	90.30	358.80
3/29/2015	5494	91.70	358.50
3/29/2015	5589	90.00	358.90
3/29/2015	5684	90.40	358.50
3/29/2015	5779	90.50	358.40
3/30/2015	6062	90.60	358.50
3/30/2015	6157	91.70	358.30
3/30/2015	6252	89.80	358.80
3/30/2015	6347	90.20	358.60
3/30/2015	6536	89.90	359.00
3/30/2015	6631	91.00	358.70
3/30/2015	6727	90.10	359.00
3/30/2015	7011	88.80	358.80
3/31/2015	7200	90.70	358.50
3/31/2015	7295	91.80	357.60
3/31/2015	7390	90.30	358.60
3/31/2015	7485	88.40	359.30
3/31/2015	7620	89.80	358.70

EOF



COG Operating LLC

Eddy County, NM (NAD27 NME)

Stonewall 9 Fee

#5H

WB1 / Job #1513226

Design: Surveys (Silver Oak 3)

Standard Survey Report

31 March, 2015





Survey Report



Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27, NME)	TVD Reference:	KB @ 3380.00usft (Silver Oak 3)
Site:	Stonewall 9 Fee	MD Reference:	KB @ 3380.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	WB1 / Job #1513226	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:	Stonewall 9 Fee		
Site Position:		Northing:	611,835.50 usft
From:	Map	Easting:	482,702.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 40' 55.28160 N
		Longitude:	104° 23' 22.39586 W
		Grid Convergence:	-0.03 °

Well:	#5H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 40' 5.29639 N
		Longitude:	104° 23' 29.43059 W
		Ground Level:	3,362.00 usft

Wellbore:	WB1 / Job #1513226				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/10/2015	7.61	60.36	48,347

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

Survey Program	Date: 3/31/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	2,420.00	VES Gyro Survey (WB1 / Job #1513226)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,420.00	7,680.00	Phoenix MWD Survey (WB1 / Job #15132)	PHX+MWD+IGRF	PHX+MWD+IGRF v3: standard declination

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.29	353.05	100.00	0.25	-0.03	0.25	0.29	0.29	0.00
200.00	0.84	292.78	199.99	0.79	-0.74	0.81	0.74	0.55	-60.27
300.00	1.49	296.38	299.97	1.65	-2.58	1.72	0.65	0.65	3.60
400.00	2.47	291.66	399.91	3.02	-5.75	3.17	0.99	0.98	-4.72
500.00	2.26	270.96	499.83	3.85	-9.72	4.11	0.87	-0.21	-20.70
600.00	1.98	267.75	599.76	3.81	-13.42	4.17	0.30	-0.28	-3.21
700.00	1.56	254.28	699.71	3.38	-16.45	3.81	0.59	-0.42	-13.47
800.00	1.42	254.29	799.68	2.67	-18.96	3.18	0.14	-0.14	0.01
900.00	1.32	256.14	899.65	2.06	-21.27	2.63	0.11	-0.10	1.85



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3380.00usft (Silver Oak 3)
Site:	Stonewall 9 Fee	MD Reference:	KB @ 3380.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	WB1 / Job #1513226	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)
1,000.00	1.09	264.25	999.63	1.69	-23.33	2.31	0.29	-0.23	8.11
1,100.00	1.00	270.70	1,099.61	1.61	-25.15	2.27	0.15	-0.09	6.45
1,200.00	0.73	274.59	1,199.60	1.67	-26.66	2.37	0.28	-0.27	3.89
1,300.00	0.38	303.30	1,299.60	1.90	-27.57	2.63	0.44	-0.35	28.71
1,400.00	0.31	256.08	1,399.59	2.02	-28.11	2.76	0.28	-0.07	-47.22
1,500.00	0.36	253.28	1,499.59	1.86	-28.67	2.62	0.05	0.05	-2.80
1,600.00	0.36	255.38	1,599.59	1.69	-29.28	2.47	0.01	0.00	2.10
1,700.00	0.24	250.11	1,699.59	1.54	-29.78	2.33	0.12	-0.12	-5.27
1,800.00	0.11	235.41	1,799.59	1.42	-30.06	2.21	0.14	-0.13	-14.70
1,900.00	0.26	236.36	1,899.59	1.24	-30.32	2.04	0.15	0.15	0.95
2,000.00	0.23	228.85	1,999.59	0.98	-30.66	1.79	0.04	-0.03	-7.51
2,100.00	0.20	222.26	2,099.59	0.72	-30.93	1.54	0.04	-0.03	-6.59
2,200.00	0.18	321.95	2,199.59	0.71	-31.15	1.54	0.29	-0.02	99.69
2,300.00	0.14	301.82	2,299.59	0.90	-31.35	1.73	0.07	-0.04	-20.13
2,420.00	0.28	324.30	2,419.59	1.22	-31.64	2.05	0.13	0.12	18.73
Tie-on to VES Gyro Survey									
2,449.00	0.50	316.10	2,448.58	1.36	-31.77	2.21	0.78	0.76	-28.28
First Phoenix MWD Survey									
2,481.00	0.30	312.50	2,480.58	1.52	-31.93	2.37	0.63	-0.63	-11.25
2,512.00	2.30	2.60	2,511.57	2.20	-31.96	3.04	6.84	6.45	161.61
2,543.00	5.50	7.70	2,542.50	4.29	-31.73	5.13	10.37	10.32	16.45
2,575.00	8.40	3.30	2,574.26	8.15	-31.39	8.98	9.21	9.06	-13.75
2,606.00	11.30	356.90	2,604.80	13.44	-31.43	14.27	9.99	9.35	-20.65
2,637.00	13.60	352.80	2,635.07	20.09	-32.05	20.93	7.94	7.42	-13.23
2,669.00	16.00	350.20	2,666.01	28.17	-33.27	29.04	7.78	7.50	-8.13
2,700.00	18.50	352.60	2,695.61	37.26	-34.63	38.16	8.38	8.06	7.74
2,732.00	21.20	355.30	2,725.71	48.06	-35.76	48.99	8.91	8.44	8.44
2,764.00	22.90	357.60	2,755.37	60.05	-36.50	61.00	5.96	5.31	7.19
2,796.00	24.60	0.10	2,784.66	72.93	-36.75	73.88	6.17	5.31	7.81
2,827.00	27.40	1.20	2,812.52	86.52	-36.58	87.46	9.16	9.03	3.55
2,859.00	31.40	1.20	2,840.39	102.22	-36.26	103.15	12.50	12.50	0.00
2,891.00	35.40	0.70	2,867.10	119.83	-35.97	120.74	12.53	12.50	-1.56
2,922.00	38.10	0.50	2,891.94	138.38	-35.77	139.28	8.72	8.71	-0.65
2,954.00	41.00	1.00	2,916.61	158.75	-35.51	159.63	9.12	9.06	1.56
2,985.00	44.30	1.30	2,939.40	179.74	-35.08	180.61	10.67	10.65	0.97
3,016.00	47.80	1.00	2,960.92	202.05	-34.64	202.90	11.31	11.29	-0.97
3,048.00	49.80	0.40	2,981.99	226.13	-34.34	226.96	6.41	6.25	-1.88
3,079.00	51.90	0.30	3,001.56	250.17	-34.20	250.99	6.78	6.77	-0.32
3,111.00	55.10	0.30	3,020.60	275.89	-34.06	276.69	10.00	10.00	0.00
3,142.00	59.30	359.70	3,037.39	301.94	-34.07	302.74	13.65	13.55	-1.94
3,174.00	62.90	359.50	3,052.85	329.95	-34.26	330.74	11.26	11.25	-0.63
3,206.00	66.20	359.90	3,066.60	358.84	-34.41	359.62	10.37	10.31	1.25
3,238.00	70.50	0.10	3,078.40	388.57	-34.41	389.35	13.45	13.44	0.63



Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3380.00usft (Silver Oak 3)
Site:	Stonewall 9 Fee	MD Reference:	KB @ 3380.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	WB1 / Job #1513226	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)
3,269.00	74.20	0.50	3,087.80	418.11	-34.26	418.87	12.00	11.94	1.29
3,300.00	77.20	0.50	3,095.45	448.14	-33.99	448.89	9.68	9.68	0.00
3,331.00	80.80	0.30	3,101.37	478.57	-33.78	479.30	11.63	11.61	-0.65
3,363.00	84.90	359.60	3,105.35	510.31	-33.81	511.03	12.99	12.81	-2.19
3,381.00	86.50	359.60	3,106.70	528.26	-33.94	528.97	8.89	8.89	0.00
3,413.00	88.20	359.50	3,108.18	560.22	-34.19	560.93	5.32	5.31	-0.31
3,445.00	88.80	359.40	3,109.02	592.21	-34.49	592.92	1.90	1.88	-0.31
3,476.00	89.20	359.10	3,109.56	623.20	-34.90	623.91	1.61	1.29	-0.97
3,508.00	89.50	358.90	3,109.92	655.20	-35.46	655.91	1.13	0.94	-0.63
3,602.00	90.40	359.00	3,110.00	749.18	-37.18	749.90	0.96	0.96	0.11
3,698.00	91.00	358.90	3,108.83	845.16	-38.94	845.89	0.63	0.63	-0.10
3,793.00	91.90	358.50	3,106.43	940.10	-41.09	940.86	1.04	0.95	-0.42
3,887.00	91.80	357.90	3,103.39	1,034.00	-44.04	1,034.81	0.65	-0.11	-0.64
3,981.00	91.40	357.60	3,100.77	1,127.90	-47.73	1,128.76	0.53	-0.43	-0.32
4,077.00	89.40	358.30	3,100.10	1,223.83	-51.17	1,224.75	2.21	-2.08	0.73
4,171.00	90.40	357.90	3,100.26	1,317.77	-54.28	1,318.75	1.15	1.06	-0.43
4,265.00	90.40	359.60	3,099.60	1,411.74	-56.33	1,412.74	1.81	0.00	1.81
4,360.00	88.80	0.40	3,100.27	1,506.74	-56.33	1,507.70	1.88	-1.68	0.84
4,454.00	88.90	358.50	3,102.15	1,600.71	-57.24	1,601.67	2.02	0.11	-2.02
4,548.00	90.20	358.50	3,102.89	1,694.67	-59.70	1,695.66	1.38	1.38	0.00
4,642.00	89.10	358.80	3,103.47	1,788.64	-61.91	1,789.66	1.21	-1.17	0.32
4,736.00	90.20	358.60	3,104.04	1,882.62	-64.04	1,883.65	1.19	1.17	-0.21
4,832.00	88.80	358.60	3,104.88	1,978.58	-66.39	1,979.65	1.46	-1.46	0.00
4,926.00	90.20	358.90	3,105.70	2,072.55	-68.44	2,073.64	1.52	1.49	0.32
5,021.00	91.30	358.80	3,104.46	2,167.53	-70.35	2,168.63	1.16	1.16	-0.11
5,116.00	88.90	358.90	3,104.29	2,262.50	-72.25	2,263.62	2.53	-2.53	0.11
5,210.00	89.70	358.80	3,105.44	2,356.47	-74.14	2,357.61	0.86	0.85	-0.11
5,306.00	90.90	358.60	3,104.94	2,452.44	-76.32	2,453.61	1.27	1.25	-0.21
5,400.00	90.30	358.80	3,103.95	2,546.41	-78.45	2,547.60	0.67	-0.64	0.21
5,495.00	91.70	358.50	3,102.29	2,641.37	-80.69	2,642.58	1.51	1.47	-0.32
5,589.00	90.00	358.90	3,100.90	2,735.33	-82.82	2,736.57	1.86	-1.81	0.43
5,684.00	90.40	358.50	3,100.57	2,830.31	-84.97	2,831.57	0.60	0.42	-0.42
5,779.00	90.50	358.40	3,099.82	2,925.27	-87.54	2,926.56	0.15	0.11	-0.11
5,873.00	91.70	358.10	3,098.02	3,019.21	-90.41	3,020.54	1.32	1.28	-0.32
5,968.00	89.80	358.20	3,096.77	3,114.15	-93.48	3,115.53	2.00	-2.00	0.11
6,062.00	90.60	358.50	3,096.45	3,208.10	-96.19	3,209.53	0.91	0.85	0.32
6,157.00	91.70	358.30	3,094.54	3,303.05	-98.84	3,304.51	1.18	1.16	-0.21
6,252.00	89.80	358.80	3,093.30	3,398.00	-101.24	3,399.49	2.07	-2.00	0.53
6,347.00	90.20	358.60	3,093.30	3,492.98	-103.40	3,494.49	0.47	0.42	-0.21
6,442.00	91.30	358.10	3,092.05	3,587.93	-106.13	3,589.48	1.27	1.16	-0.53
6,536.00	89.90	359.00	3,091.07	3,681.89	-108.51	3,683.47	1.77	-1.49	0.96
6,631.00	91.00	358.70	3,090.32	3,776.87	-110.42	3,778.47	1.20	1.16	-0.32
6,726.00	90.10	359.00	3,089.41	3,871.84	-112.32	3,873.46	1.00	-0.95	0.32
6,822.00	91.30	359.00	3,088.24	3,967.82	-114.00	3,969.45	1.25	1.25	0.00

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well #5H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	KB @ 3380.00usft (Silver Oak 3)
Site:	Stonewall 9 Fee	MD Reference:	KB @ 3380.00usft (Silver Oak 3)
Well:	#5H	North Reference:	Grid
Wellbore:	WB1 / Job #1513226	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 3)	Database:	Compass 5000 GCR

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)
6,916.00	90.00	359.40	3,087.17	4,061.80	-115.31	4,063.43	1.45	-1.38	0.43
7,011.00	88.80	358.80	3,088.17	4,156.78	-116.80	4,158.42	1.41	-1.26	-0.63
7,105.00	89.60	358.70	3,089.48	4,250.75	-118.85	4,252.41	0.86	0.85	-0.11
7,200.00	90.70	358.50	3,089.23	4,345.72	-121.18	4,347.41	1.18	1.16	-0.21
7,295.00	91.80	357.60	3,087.16	4,440.64	-124.41	4,442.38	1.50	1.16	-0.95
7,390.00	90.30	358.60	3,085.42	4,535.57	-127.56	4,537.36	1.90	-1.58	1.05
7,485.00	88.40	359.30	3,086.49	4,630.54	-129.30	4,632.34	2.13	-2.00	0.74
7,579.00	89.20	359.00	3,088.46	4,724.51	-130.69	4,726.31	0.91	0.85	-0.32
7,620.00	89.80	358.70	3,088.82	4,765.50	-131.51	4,767.31	1.64	1.46	-0.73
Last Phoenix MWD Survey									
7,680.00	89.80	358.70	3,089.03	4,825.48	-132.88	4,827.31	0.00	0.00	0.00
Projection to TD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,420.00	2,419.59	1.22	-31.64	Tie-on to VES Gyro Survey
2,449.00	2,448.58	1.36	-31.77	First Phoenix MWD Survey
7,620.00	3,088.82	4,765.50	-131.51	Last Phoenix MWD Survey
7,680.00	3,089.03	4,825.48	-132.88	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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