



3001542186

December 30, 2014

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

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 16 2015

RECEIVED

Attn: Kanicia Castillo

RE: **Burch Keely Unit 932H**

Please find enclosed a copy of the survey from 0.00' to 4257.00' 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

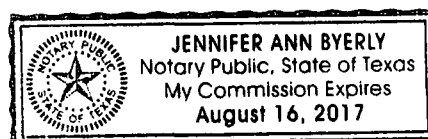
STATE OF TEXAS §

§

COUNTY OF NUECES §

This instrument was acknowledged before me on the 30 day of December A.D., 2014, by Keith Havelka.

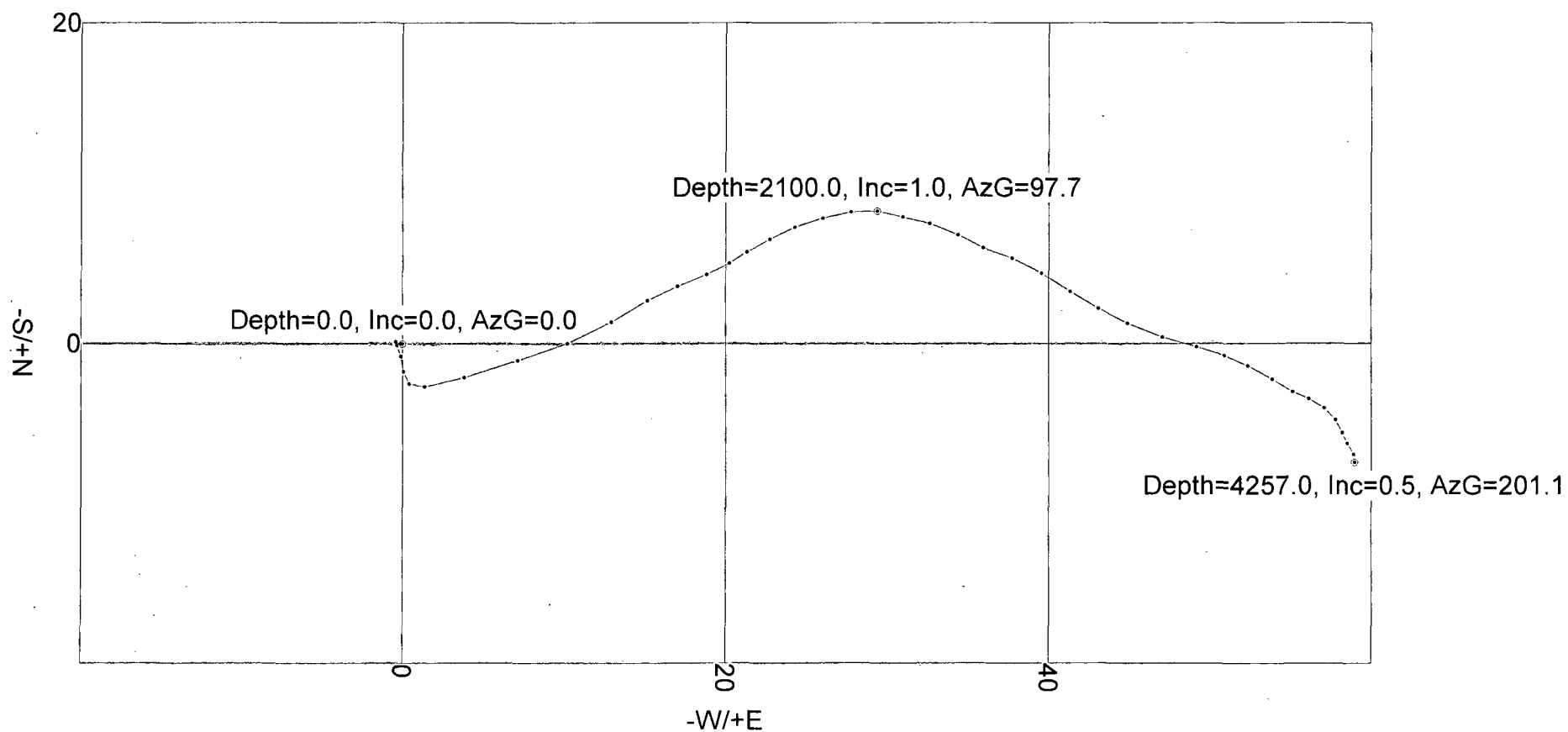
Jennifer Ann Byerly
Notary Public, State of Texas



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	1.15	79.17	1899.65	7.82	26.03	7.82	27.18	73.28	0.36
2000.00	0.88	75.63	1999.63	8.20	27.76	8.20	28.94	73.55	0.28
2100.00	1.02	97.65	2099.62	8.27	29.38	8.27	30.52	74.28	0.39
2200.00	0.86	109.57	2199.61	7.90	30.96	7.90	31.96	75.69	0.25
2300.00	1.12	99.24	2299.59	7.49	32.63	7.49	33.48	77.07	0.31
2400.00	1.10	125.09	2399.57	6.79	34.37	6.79	35.04	78.83	0.50
2500.00	0.92	109.48	2499.56	5.97	35.92	5.97	36.41	80.56	0.32
2600.00	1.24	109.89	2599.54	5.33	37.69	5.33	38.07	81.95	0.32
2700.00	1.16	123.85	2699.52	4.40	39.55	4.40	39.80	83.65	0.30
2800.00	1.28	121.66	2799.50	3.25	41.35	3.25	41.47	85.51	0.12
2900.00	1.04	120.22	2899.48	2.21	43.08	2.21	43.14	87.07	0.24
3000.00	1.29	115.71	2999.45	1.26	44.87	1.26	44.89	88.39	0.26
3100.00	1.38	108.97	3099.43	0.39	47.02	0.39	47.02	89.53	0.18
3200.00	1.15	101.98	3199.40	-0.21	49.14	-0.21	49.14	90.25	0.27
3300.00	0.92	114.57	3299.39	-0.76	50.86	-0.76	50.86	90.85	0.32
3400.00	0.89	113.64	3399.37	-1.40	52.30	-1.40	52.32	91.54	0.03
3500.00	1.09	123.83	3499.36	-2.24	53.80	-2.24	53.85	92.39	0.26
3600.00	0.62	116.85	3599.35	-3.02	55.07	-3.02	55.16	93.14	0.48
3700.00	0.64	110.45	3699.34	-3.46	56.08	-3.46	56.19	93.53	0.07
3800.00	0.66	130.29	3799.34	-4.02	57.05	-4.02	57.19	94.04	0.22
3900.00	0.53	145.72	3899.33	-4.77	57.74	-4.77	57.94	94.73	0.20
4000.00	0.54	158.30	3999.33	-5.59	58.18	-5.59	58.44	95.49	0.12
4100.00	0.29	142.56	4099.32	-6.23	58.51	-6.23	58.84	96.08	0.27
4200.00	0.62	153.67	4199.32	-6.92	58.90	-6.92	59.31	96.70	0.34
4257.00	0.47	201.09	4256.32	-7.42	58.96	-7.42	59.42	97.17	0.81



VES Survey International
West Texas
(432) 563-5444
Surveyor: Cody Johnson
Burch Keely Unit 932H / API 30-015-42186

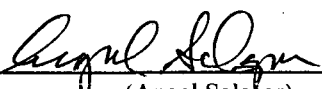


WELL NAME AND NUMBER Burch Keely Unit No. 932H
 LOCATION Section 18, T17S, R30E, Unit 2, 1864 FNL, 323 FWL, Eddy County
 OPERATOR COG Operating LLC
 DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

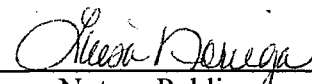
Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
.4° @ 215'	4.9° @ 4456'	80.7° @ 5183'
.3° @ 579'	7.5° @ 4488'	84.0° @ 5214'
1.8° @ 894'	10.0° @ 4519'	92.0° @ 5306'
1.4° @ 1150'	12.8° @ 4551'	91.0° @ 5496'
.8° @ 1518'	16.3° @ 4582'	91.2° @ 5591'
.8° @ 1836'	19.6° @ 4614'	91.3° @ 5685'
1.8° @ 2151'	22.7° @ 4645'	91.0° @ 5780'
1.0° @ 2435'	26.6° @ 4677'	90.7° @ 5874'
.8° @ 2745'	30.9° @ 4709'	91.8° @ 5969'
1.1° @ 3030'	35.1° @ 4740'	91.9° @ 6064'
1.1° @ 3348'	52.3° @ 4898'	91.2° @ 6158'
.9° @ 3632'	55.9° @ 4930'	91.2° @ 6347'
1.6° @ 3886'	59.9° @ 4962'	90.6° @ 6726'
.4° @ 4170'	63.1° @ 4994'	90.0° @ 6821'
.4° @ 4298'	66.2° @ 5025'	90.5° @ 6916'
.8° @ 4330'	71.9° @ 5088'	90.5° @ 7010'
.9° @ 4361'	74.5° @ 5120'	90.2° @ 7104'
2.8° @ 4424'	77.4° @ 5151'	89.8° @ 7198'

Drilling Contractor- UNITED DRILLING, INC.

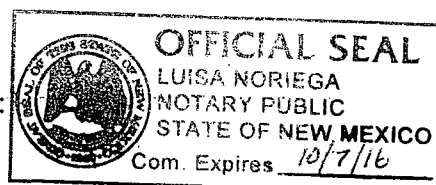
By: 
 (Angel Salazar)

Title: Vice President

Subscribed and sworn to before me this 29th day of December 2014.


 Notary Public

My Commission Expires:



Chaves NM
 County State

WELL NAME AND NUMBER Burch Keely Unit No. 932H
 LOCATION Section 18, T17S, R30E, Unit 2, 1864 FNL, 323 FWL, Eddy County
 OPERATOR COG Operating LLC
 DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
91.1° @ 7293'	90.9° @ 9183'	
91.1° @ 7388'	90.8° @ 9278'	
91.6° @ 7483'	90.8° @ 9373'	
91.6° @ 7577'	90.6° @ 9467'	
91.6° @ 7671'	91.5° @ 9561'	
91.9° @ 7766'	91.7° @ 9655'	
90.2° @ 7860'	91.8° @ 9750'	
90.1° @ 7950'		
90.8° @ 8145'		
90.9° @ 8239'		
90.9° @ 8334'		
90.8° @ 8428'		
90.7° @ 8523'		
91.0° @ 8618'		
91.3° @ 8712'		
91.3° @ 8807'		
91.1° @ 8900'		
90.8° @ 9089'		

Drilling Contractor- UNITED DRILLING, INC.

By: Angel Salazar
 (Angel Salazar)

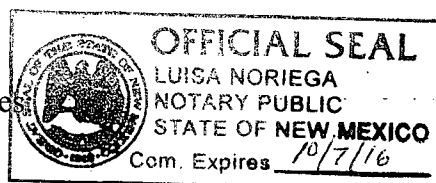
Title: Vice President

Subscribed and sworn to before me this 29th day of December 2014.

Luisa Noriega
 Notary Public

Chaves NM
 County State

My Commission Expires





COG Operating LLC

Eddy County, NM

Burch Keely Unit #932H

Surface: 1864' FNL, 323' FWL, Sec 18, T17S, R30E, Lot #2

BHL: 1650' FNL, 330' FWL, Sec 13, T17S, R29E, Unit E

Survey: MWD #1

Standard Survey Report

21 December, 2014



Wellplanning Survey Report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Surface: 1864' FNL, 323' FWL, Sec 18, T17S, R30E, Lot #2
Project:	Eddy County, NM	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Burch Keely Unit #932H	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Surface: 1864' FNL, 323' FWL, Sec 18, T17S, R30E, Lot #2	North Reference:	Grid
Wellbore:	BHL: 1650' FNL, 330' FWL, Sec 13, T17S, R29E, Unit E	Survey Calculation Method:	Minimum Curvature
Design:	BHL: 1650' FNL, 330' FWL, Sec 13, T17S, R29E, Unit E	Database:	EDM5000.1 Single User Db

Project	Eddy County, NM		
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	Burch Keely Unit #932H		
Site Position:		Northing:	668,192.20 usft
From:	Map	Easting:	596,823.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 11.577 N
		Longitude:	104° 1' 5.156 W
		Grid Convergence:	0.17 °

Well	Surface: 1864' FNL, 323' FWL, Sec 18, T17S, R30E, Lot #2		
Well Position	+N/-S	0.0 usft	Northing: 668,192.20 usft
	+E/-W	0.0 usft	Easting: 596,823.60 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 50' 11.577 N
		Longitude:	104° 1' 5.156 W
		Ground Level:	3,639.0 usft

Wellbore	BHL: 1650' FNL, 330' FWL, Sec 13, T17S, R29E, Unit E		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	12/2/2014	7.41
			Dip Angle (°)
			60.59
			Field Strength (nT)
			48,587

Design	BHL: 1650' FNL, 330' FWL, Sec 13, T17S, R29E, Unit E		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			271.96

Survey Program	Date: 12/21/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	4,257.0	GYRO (BHL: 1650' FNL, 330' FWL, Sec 1	NS-GYRO-SS
4,285.8	10,048.0	MWD #1 (BHL: 1650' FNL, 330' FWL, Sec	MWD
			Description
			NS Gyro single shots
			MWD - Standard

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)	
4,257.0	0.47	201.09	4,256.3	-7.4	59.0	-59.2	0.00	0.00	0.00	
4,285.8	0.60	192.60	4,285.1	-7.7	58.9	-59.1	0.53	0.45	-29.50	
4,298.0	0.40	189.30	4,297.3	-7.8	58.9	-59.1	1.65	-1.64	-27.00	
4,330.0	0.80	182.50	4,329.3	-8.1	58.9	-59.1	1.27	1.25	-21.25	
4,361.0	0.90	193.60	4,360.3	-8.6	58.8	-59.0	0.62	0.32	35.81	
4,393.0	1.10	203.80	4,392.3	-9.1	58.6	-58.9	0.83	0.63	31.88	
4,424.0	2.80	243.70	4,423.3	-9.7	57.8	-58.1	6.71	5.48	128.71	



Wellplanning Survey Report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Surface 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2
Project:	Eddy County NM	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Burch Keely Unit #932H	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Surface 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2	North Reference:	Grid
Wellbore:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Survey Calculation Method:	Minimum Curvature
Design:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Database:	EDM 5000.1 Single User Db

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)
4,456.0	4.90	261.20	4,455.2	-10.3	55.8	-56.1	7.45	6.56	54.69
4,488.0	7.50	267.60	4,487.0	-10.6	52.3	-52.6	8.39	8.13	20.00
4,519.0	10.00	274.30	4,517.7	-10.4	47.6	-47.9	8.70	8.06	21.61
4,551.0	12.80	277.90	4,549.0	-9.7	41.3	-41.6	9.02	8.75	11.25
4,582.0	16.30	280.60	4,579.0	-8.5	33.6	-33.9	11.50	11.29	8.71
4,614.0	19.60	280.60	4,609.5	-6.7	24.0	-24.2	10.31	10.31	0.00
4,645.0	22.70	279.30	4,638.4	-4.7	12.9	-13.1	10.11	10.00	-4.19
4,677.0	26.60	278.00	4,667.5	-2.7	-0.3	0.2	12.30	12.19	-4.06
4,709.0	30.90	277.20	4,695.5	-0.7	-15.5	15.5	13.49	13.44	-2.50
4,740.0	35.10	277.10	4,721.5	1.4	-32.3	32.3	13.55	13.55	-0.32
4,772.0	38.30	277.10	4,747.2	3.8	-51.2	51.3	10.00	10.00	0.00
4,803.0	41.70	276.40	4,770.9	6.1	-71.0	71.2	11.06	10.97	-2.26
4,835.0	45.40	275.10	4,794.1	8.3	-93.0	93.2	11.90	11.56	-4.06
4,867.0	48.70	273.00	4,815.9	9.9	-116.3	116.6	11.38	10.31	-6.56
4,898.0	52.30	272.00	4,835.6	11.0	-140.2	140.5	11.88	11.61	-3.23
4,930.0	55.90	271.00	4,854.4	11.6	-166.1	166.4	11.53	11.25	-3.13
4,962.0	59.90	270.90	4,871.4	12.1	-193.2	193.5	12.50	12.50	-0.31
4,994.0	63.10	271.00	4,886.6	12.6	-221.3	221.6	10.00	10.00	0.31
5,025.0	66.20	269.70	4,899.9	12.7	-249.3	249.6	10.69	10.00	-4.19
5,057.0	69.30	271.00	4,912.0	12.9	-278.9	279.2	10.39	9.69	4.06
5,088.0	71.90	271.50	4,922.3	13.5	-308.2	308.5	8.52	8.39	1.61
5,120.0	74.50	271.90	4,931.6	14.5	-338.8	339.1	8.21	8.13	1.25
5,151.0	77.40	271.00	4,939.1	15.2	-368.9	369.2	9.77	9.35	-2.90
5,183.0	80.70	271.30	4,945.2	15.8	-400.3	400.6	10.35	10.31	0.94
5,214.0	84.00	271.20	4,949.3	16.5	-431.0	431.3	10.65	10.65	-0.32
5,306.0	92.00	269.20	4,952.5	16.8	-522.8	523.1	8.96	8.70	-2.17
Keely C #45									
5,401.0	91.80	269.70	4,949.3	15.9	-617.8	618.0	0.57	-0.21	0.53
5,496.0	91.00	271.10	4,947.0	16.6	-712.7	712.9	1.70	-0.84	1.47
5,591.0	91.20	270.80	4,945.2	18.2	-807.7	807.9	0.38	0.21	-0.32
5,685.0	91.30	270.40	4,943.2	19.1	-901.7	901.8	0.44	0.11	-0.43
5,780.0	91.00	271.50	4,941.2	20.7	-996.7	996.8	1.20	-0.32	1.16
5,874.0	90.70	271.10	4,939.9	22.9	-1,090.6	1,090.8	0.53	-0.32	-0.43
5,969.0	91.80	273.10	4,937.8	26.3	-1,185.5	1,185.7	2.40	1.16	2.11
6,064.0	91.90	272.70	4,934.7	31.1	-1,280.4	1,280.7	0.43	0.11	-0.42
6,158.0	91.20	272.70	4,932.2	35.6	-1,374.2	1,374.6	0.74	-0.74	0.00
6,253.0	91.20	272.20	4,930.2	39.6	-1,469.1	1,469.6	0.53	0.00	-0.53
6,347.0	91.20	272.50	4,928.2	43.5	-1,563.0	1,563.6	0.32	0.00	0.32
6,442.0	91.30	272.50	4,926.1	47.6	-1,657.9	1,658.6	0.11	0.11	0.00
6,537.0	91.30	272.50	4,924.0	51.8	-1,752.8	1,753.5	0.00	0.00	0.00
6,631.0	90.80	273.00	4,922.3	56.3	-1,846.7	1,847.5	0.75	-0.53	0.53



Wellplanning Survey Report

Company:	COG Operating, LLC	Local Co-ordinate Reference:	Well Surface 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2
Project:	Eddy County NM	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Burch Keely Unit #932H	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Surface 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2	North Reference:	Grid
Wellbore:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Survey Calculation Method:	Minimum Curvature
Design:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Database:	EDM 5000.1 Single User Db

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)
6,726.0	90.60	273.50	4,921.1	61.7	-1,941.5	1,942.5	0.57	-0.21	0.53
6,821.0	90.00	273.50	4,920.6	67.5	-2,036.3	2,037.4	0.63	-0.63	0.00
6,916.0	90.50	272.40	4,920.2	72.3	-2,131.2	2,132.4	1.27	0.53	-1.16
7,010.0	90.50	272.80	4,919.4	76.6	-2,225.1	2,226.4	0.43	0.00	0.43
7,104.0	90.20	272.70	4,918.8	81.1	-2,319.0	2,320.4	0.34	-0.32	-0.11
7,198.0	89.80	272.90	4,918.8	85.7	-2,412.9	2,414.4	0.48	-0.43	0.21
7,293.0	91.10	272.30	4,918.0	90.0	-2,507.8	2,509.4	1.51	1.37	-0.63
7,388.0	91.10	272.00	4,916.2	93.6	-2,602.7	2,604.4	0.32	0.00	-0.32
7,483.0	91.60	272.00	4,914.0	96.9	-2,697.6	2,699.3	0.53	0.53	0.00
7,577.0	91.60	272.00	4,911.4	100.2	-2,791.5	2,793.3	0.00	0.00	0.00
7,671.0	91.60	271.40	4,908.7	103.0	-2,885.4	2,887.3	0.64	0.00	-0.64
7,766.0	91.90	270.90	4,905.8	104.9	-2,980.4	2,982.2	0.61	0.32	-0.53
7,860.0	90.20	272.40	4,904.1	107.6	-3,074.3	3,076.2	2.41	-1.81	1.60
7,955.0	90.10	271.80	4,903.9	111.1	-3,169.2	3,171.2	0.64	-0.11	-0.63
8,050.0	90.50	272.50	4,903.4	114.6	-3,264.2	3,266.2	0.85	0.42	0.74
8,145.0	90.80	272.70	4,902.3	118.9	-3,359.1	3,361.2	0.38	0.32	0.21
8,239.0	90.90	272.30	4,900.9	123.0	-3,453.0	3,455.1	0.44	0.11	-0.43
8,334.0	90.90	272.30	4,899.4	126.8	-3,547.9	3,550.1	0.00	0.00	0.00
8,428.0	90.80	272.10	4,898.0	130.4	-3,641.8	3,644.1	0.24	-0.11	-0.21
8,523.0	90.70	272.30	4,896.8	134.1	-3,736.7	3,739.1	0.24	-0.11	0.21
8,618.0	91.00	272.60	4,895.4	138.2	-3,831.6	3,834.1	0.45	0.32	0.32
8,712.0	91.30	272.80	4,893.5	142.6	-3,925.5	3,928.1	0.38	0.32	0.21
8,807.0	91.30	273.20	4,891.3	147.6	-4,020.3	4,023.0	0.42	0.00	0.42
8,900.0	91.10	272.90	4,889.4	152.5	-4,113.2	4,116.0	0.39	-0.22	-0.32
8,994.0	91.00	272.80	4,887.6	157.2	-4,207.1	4,210.0	0.15	-0.11	-0.11
9,089.0	90.80	274.20	4,886.2	163.0	-4,301.9	4,304.9	1.49	-0.21	1.47
9,183.0	90.90	274.00	4,884.8	169.7	-4,395.6	4,398.8	0.24	0.11	-0.21
9,278.0	90.80	273.50	4,883.3	175.9	-4,490.4	4,493.8	0.54	-0.11	-0.53
9,373.0	90.80	272.90	4,882.0	181.2	-4,585.2	4,588.8	0.63	0.00	-0.63
9,467.0	90.60	272.10	4,880.9	185.3	-4,679.1	4,682.7	0.88	-0.21	-0.85
9,561.0	91.50	271.90	4,879.2	188.6	-4,773.1	4,776.7	0.98	0.96	-0.21
9,655.0	91.70	271.90	4,876.5	191.7	-4,867.0	4,870.7	0.21	0.21	0.00
9,750.0	91.80	271.50	4,873.6	194.5	-4,961.9	4,965.6	0.43	0.11	-0.42
9,844.0	92.00	271.30	4,870.5	196.8	-5,055.8	5,059.6	0.30	0.21	-0.21
9,939.0	91.80	270.60	4,867.4	198.4	-5,150.7	5,154.5	0.77	-0.21	-0.74
9,987.0	91.70	270.40	4,865.9	198.8	-5,198.7	5,202.5	0.47	-0.21	-0.42
10,048.0	91.70	270.40	4,864.1	199.2	-5,259.7	5,263.4	0.00	0.00	0.00
PBHL(BKU#932) Burch Keely Unit #564									



Wellplanning
Survey Report

Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Surface: 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2
Project:	Eddy County NM	TVD Reference:	WELL @ 3652.0usft (Original Well Elev)
Site:	Burch Keely Unit #932H	MD Reference:	WELL @ 3652.0usft (Original Well Elev)
Well:	Surface: 1864 FNL 323 FWL Sec 18 T17S R30E Lot #2	North Reference:	Grid
Wellbore:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Survey Calculation Method:	Minimum Curvature
Design:	BHL 1650 FNL 330 FWL Sec 13 T17S R29E Unit E	Database:	EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____



RECEIVED
MAR 16 2015
NM OIL CONSERVATION
ARTESIA DISTRICT

Company: COG Operating
Lease/Well: Burch Keely Unit/932H
Location: S13 - T17/S - R30/E
Rig Name: United #43
State/County: New Mexico/Eddy
Latitude: 32.84, Longitude: -104.02
GRID North is 0.17 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB = 12.5 FT

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 12/30/2014 / 14:09

VES Survey International
West Texas
(432) 563-5444
Surveyor: Cody Johnson
Burch Keely Unit 932H / API 30-015-42186

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	0.14	272.58	100.00	0.01	-0.12	0.01	0.12	272.58	0.14
200.00	0.24	297.44	200.00	0.11	-0.43	0.11	0.45	284.00	0.13
300.00	0.47	142.54	300.00	-0.12	-0.37	-0.12	0.39	252.09	0.69
400.00	0.39	178.42	400.00	-0.79	-0.11	-0.79	0.80	188.13	0.28
500.00	0.73	165.28	499.99	-1.75	0.06	-1.75	1.75	178.09	0.36
600.00	0.31	128.13	599.99	-2.53	0.43	-2.53	2.56	170.27	0.51
700.00	0.89	90.47	699.98	-2.70	1.42	-2.70	3.05	152.25	0.67
800.00	2.01	70.55	799.95	-2.12	3.85	-2.12	4.40	118.90	1.21
900.00	1.98	73.91	899.89	-1.06	7.16	-1.06	7.24	98.42	0.12
1000.00	1.71	67.44	999.84	-0.01	10.21	-0.01	10.21	90.04	0.34
1100.00	1.77	60.08	1099.79	1.34	12.93	1.34	12.99	84.10	0.23
1200.00	1.22	57.65	1199.76	2.68	15.16	2.68	15.40	79.99	0.55
1300.00	1.18	71.94	1299.73	3.56	17.04	3.56	17.41	78.19	0.30
1400.00	1.06	62.75	1399.71	4.30	18.84	4.30	19.32	77.13	0.21
1500.00	0.70	62.39	1499.70	5.01	20.20	5.01	20.81	76.07	0.35
1600.00	0.81	54.54	1599.69	5.71	21.32	5.71	22.07	75.01	0.15
1700.00	1.05	65.22	1699.68	6.50	22.73	6.50	23.64	74.03	0.29
1800.00	0.95	63.30	1799.67	7.26	24.30	7.26	25.36	73.37	0.11