



May 10, 2017

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

Attn: Kanicia Castillo

RE: **Burch Keely Unit No. 940H** - 30-015-44080

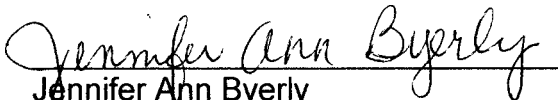
Please find enclosed a copy of the survey from 0' to 1116' ran on the above referenced well.

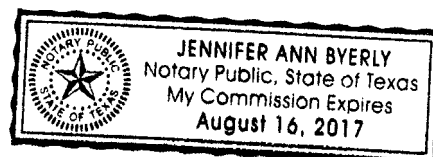
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 10th day of May, A.D., 2017, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





VES SURVEY

Company: COG OPERATING
Lease/Well: BURCH KEELY UNIT No./940H

Rig Name: SILVER OAK 3
State/County: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.83714, Longitude: -104.01978
Grid North = True North -0.17 degs (NAD 27)
Grid Correction Applied = -0.17 degs

Depth Reference : RKB 18 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: eline-de_01.ut
Minimum Curvature Method
Report Date/Time: 5/10/2017 / 16:23

VES Survey International
West Texas
432-563-5444
Surveyor: Dustin Byers
Burch Keely Unit No. 940H / API 30-015-44080

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	0.39	164.92	100.00	-0.33	0.09	-0.33	0.34	164.92	0.39
200.00	0.32	168.27	200.00	-0.93	0.23	-0.93	0.96	165.90	0.07
300.00	0.36	166.68	300.00	-1.51	0.36	-1.51	1.55	166.49	0.04
400.00	0.37	174.42	399.99	-2.14	0.47	-2.14	2.19	167.68	0.05
500.00	0.08	177.05	499.99	-2.53	0.50	-2.53	2.58	168.77	0.29
600.00	0.07	115.31	599.99	-2.62	0.56	-2.62	2.68	167.96	0.08
700.00	0.44	56.02	699.99	-2.43	0.93	-2.43	2.61	159.05	0.41
800.00	0.64	61.99	799.99	-1.96	1.74	-1.96	2.62	138.25	0.21
900.00	0.80	53.87	899.98	-1.28	2.80	-1.28	3.08	114.58	0.19
1000.00	0.88	52.94	999.97	-0.41	3.98	-0.41	4.00	95.87	0.08
1100.00	0.75	49.94	1099.96	0.48	5.09	0.48	5.12	84.64	0.13
1116.00	0.70	53.46	1115.96	0.60	5.25	0.60	5.29	83.44	0.44



VES Survey International

West Texas

432-563-5444

Surveyor: Dustin Byers

Burch Keely Unit No. 940H / API 30-015-44080

SURVEY

VES

20

Depth=0.0, Inc=0.0, AzG=0.0¹ⁿ
Z

Depth=1116.0, Inc=0.7, AzG=53.5

0

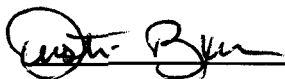
20

-W/+E

VES Survey Date: 5/3/2017

VES SURVEY

I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 05/03/17 through 05/03/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,116.00 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Vaughn Energy Services, that I am authorized and qualified to make this report; that this survey was conducted at the request of COG Operating for the Burch Keely Unit Well # 940H API # 30-015-44080 in Eddy County / Parish New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by VES Survey International.



Dustin Byers
Service Technician
VES Survey International