

June 16, 2017

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

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 16 2017

RECEIVED

Attn: Kanicia Castillo

RE: **Burch Keely Unit No. 962H** 30-015-44101

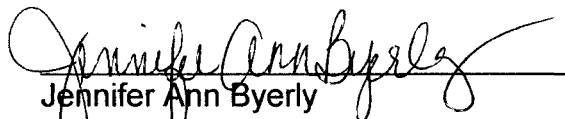
Please find enclosed a copy of the survey from 0' to 1054' ran on the above referenced well.

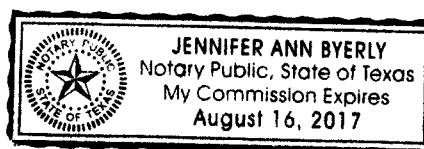
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 16th day of June, A.D., 2017, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





Company: COG OPERATING
Lease/Well: BURCH KEELY UNIT/962H

Rig Name: SILVER OAK 3
State/County: TEXAS/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.82635, Longitude: -104.01966
Grid North = True North -0.17 degs (NAD 27)
Grid Correction Applied = -0.17 degs

Depth Reference : RKB 18

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: eline-de_01.ut
Minimum Curvature Method
Report Date/Time: 6/16/2017 / 14:05

VES Survey International
West Texas
432-563-5444

Surveyor: Dustin Byers
Burch Keely Unit No. 962H / API 30-015-44101

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	0.50	114.96	100.00	-0.18	0.39	-0.18	0.44	114.96	0.50
200.00	0.51	114.93	199.99	-0.56	1.20	-0.56	1.32	114.95	0.02
300.00	0.68	113.05	299.99	-0.98	2.15	-0.98	2.36	114.47	0.16
400.00	0.44	141.86	399.98	-1.51	2.93	-1.51	3.29	117.26	0.36
500.00	0.56	146.49	499.98	-2.22	3.43	-2.22	4.09	122.85	0.13
600.00	0.74	156.51	599.97	-3.22	3.96	-3.22	5.10	129.08	0.21
700.00	0.75	88.78	699.97	-3.79	4.87	-3.79	6.17	127.92	0.83
800.00	1.36	63.88	799.95	-3.26	6.59	-3.26	7.35	116.33	0.75
900.00	1.49	69.61	899.92	-2.28	8.87	-2.28	9.16	104.44	0.20
1000.00	1.34	68.46	999.89	-1.40	11.18	-1.40	11.27	97.14	0.15
1054.00	1.13	63.68	1053.88	-0.93	12.25	-0.93	12.28	94.35	0.43



VES Survey International

West Texas

432-563-5444

Surveyor: Dustin Byers

Burch Keely Unit No. 962H / API 30-015-44101

VES SURVEY

Depth=0.0, Inc=0.0, AzG=0.0
0

Depth=1054.0, Inc=1.1, AzG=63.7

-S/+N

-20

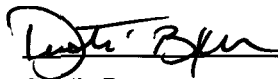
20

-W/+E

VES Survey Date: 6/12/2017

VES SURVEY

I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 06/13/17 through 06/13/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,054.00 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 # 962H API # 30-015-44101 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