



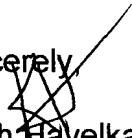
April 10, 2017

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

Attn: Kanicia Castillo

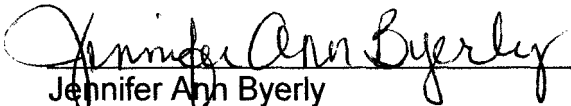
RE: **Burch Keely Unit No. 942H** - *30-015-44081*

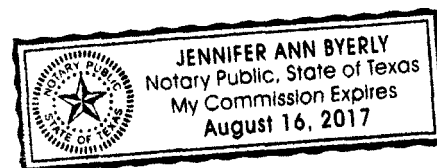
Please find enclosed a copy of the survey from 0' to 1114' ran on the above referenced well.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

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


Jennifer Ann Byerly
Notary Public, State of Texas





Company: COG OPERATING
Lease/Well: BURCH KEELY UNIT No./942H

Rig Name: SILVER OAK 3
State/County: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.83391, Longitude: -104.01983
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: 4/10/2017 / 15:48

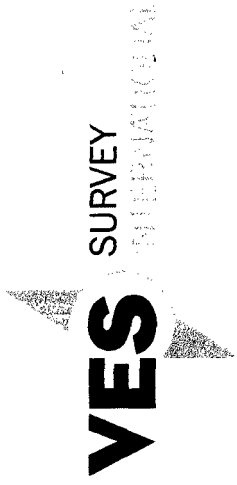
VES Survey International
West Texas
432-563-5444

Surveyor: Dustin Byers

Burch Keely Unit No. 942H / API 30-015-44081

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	0.16	128.00	100.00	-0.09	0.11	-0.09	0.14	128.00	0.16
200.00	0.19	225.06	200.00	-0.29	0.11	-0.29	0.31	159.17	0.26
300.00	0.18	285.85	300.00	-0.36	-0.16	-0.36	0.40	203.45	0.19
400.00	0.65	315.95	400.00	0.09	-0.71	0.09	0.71	277.08	0.50
500.00	0.63	311.60	499.99	0.86	-1.51	0.86	1.74	299.63	0.05
600.00	0.72	328.92	599.98	1.76	-2.24	1.76	2.85	308.15	0.23
700.00	0.78	8.31	699.98	2.98	-2.47	2.98	3.87	320.30	0.51
800.00	0.84	24.19	799.97	4.32	-2.07	4.32	4.79	334.34	0.23
900.00	0.87	46.17	899.95	5.51	-1.23	5.51	5.65	347.45	0.33
1000.00	0.99	45.89	999.94	6.64	-0.06	6.64	6.64	359.52	0.12
1100.00	0.73	50.26	1099.93	7.65	1.06	7.65	7.72	7.87	0.27
1114.00	0.80	58.84	1113.93	7.76	1.21	7.76	7.85	8.86	0.95

VES Survey International
West Texas
432-563-5444
Surveyor: Dustin Byers
Burch Keely Unit No. 942H / API 30-015-44081



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Depth=1114.0, Inc=0.8, AzG=58.8

0
-S/+N

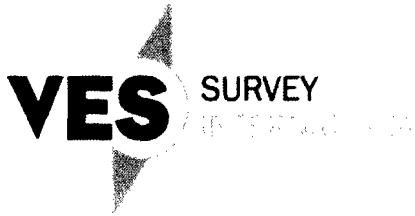
Depth=0.0, Inc=0.0, AzG=0.0

0

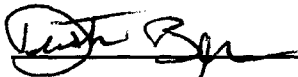
-W/+E

VES Survey Date: 4/4/2017

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I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 04/04/17 through 04/04/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,114.00 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 # 942H API # 30-015-44081 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