



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 01 2017

RECEIVED

June 7, 2017

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

Attn: Kanicia Castillo

RE: **Burch Keely Unit No. 955H** *30-015-44150*

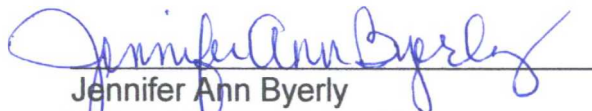
Please find enclosed a copy of the survey from 0' to 1019' ran on the above referenced well.

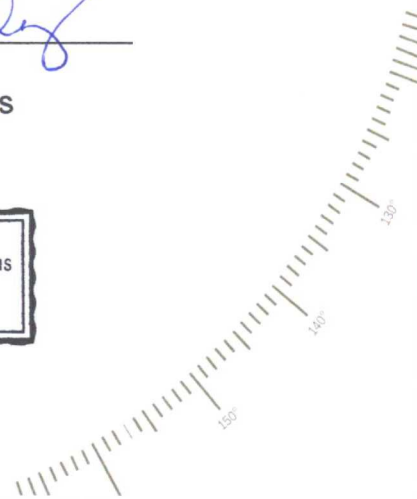
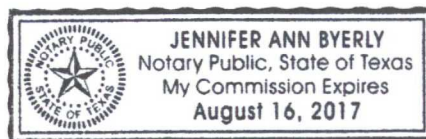
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 7th 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 No./955H

Rig Name: SILVER OAK 3
State/County: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.82433, Longitude: -104.03562
Grid North = True North -0.16 degs (NAD 27)
Grid Correction Applied = -0.16 degs



Depth Reference : RKB 18 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS
Filename: e-line gyro-de_01.ut
Minimum Curvature Method
Report Date/Time: 6/7/2017 / 10:48

VES Survey International
Midland, Texas
432-563-5444

Surveyor: Robert Williams
Burch Keely Unit No. 955H / API 30-015-44150

NM OIL CONSERVATION
ARTESIA DISTRICT

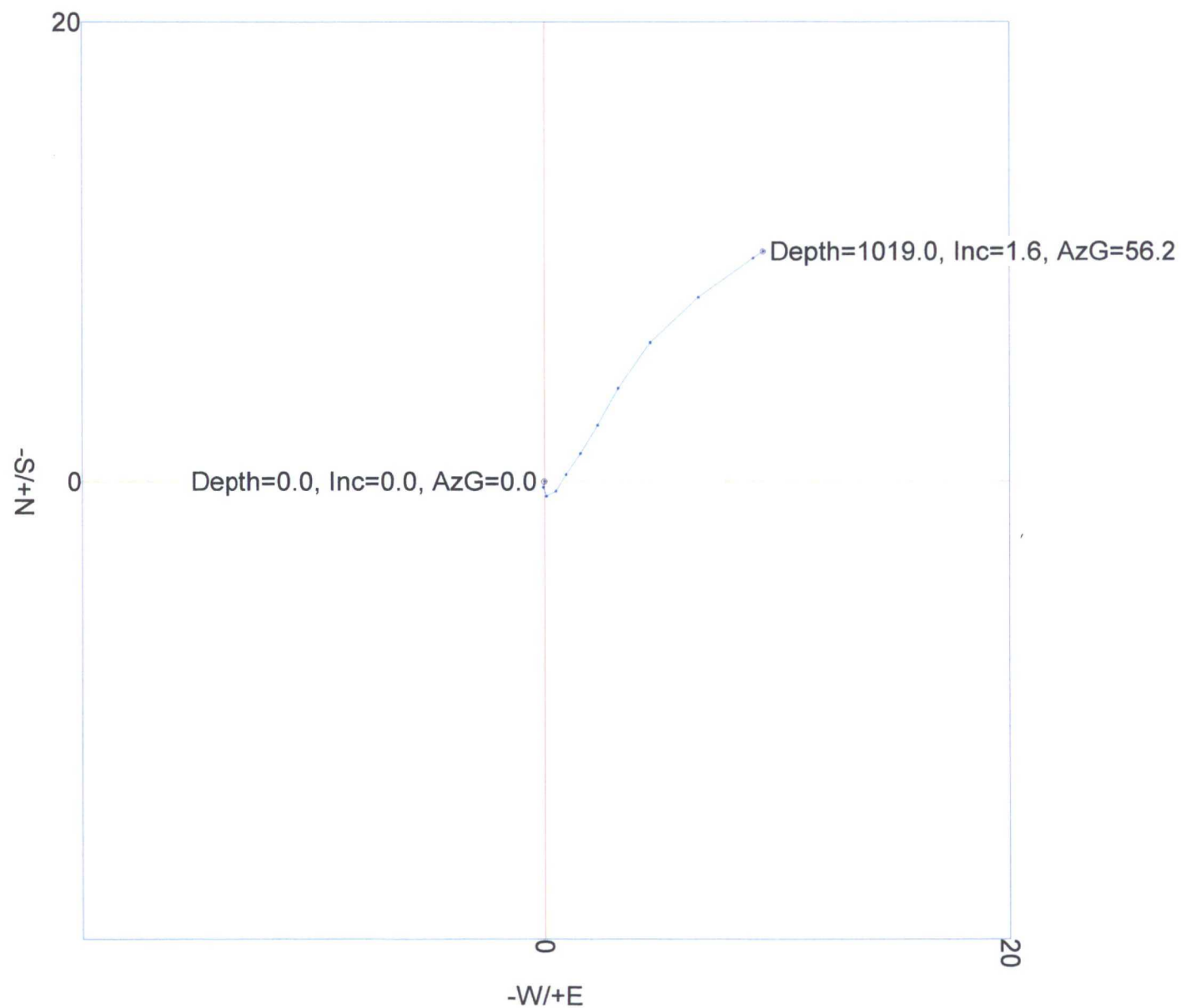
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Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.30	191.17	100.00	-0.26	-0.05	-0.26	0.26	191.17	0.30
200.00	0.26	124.28	200.00	-0.65	0.09	-0.65	0.65	172.46	0.31
300.00	0.46	30.96	300.00	-0.43	0.48	-0.43	0.65	131.80	0.54
400.00	0.52	32.96	399.99	0.29	0.93	0.29	0.98	72.55	0.06
500.00	0.76	34.59	499.99	1.22	1.55	1.22	1.97	51.97	0.24
600.00	0.89	28.01	599.98	2.44	2.29	2.44	3.35	43.18	0.16
700.00	1.21	29.46	699.96	4.05	3.18	4.05	5.15	38.12	0.32
800.00	1.57	38.63	799.93	6.04	4.55	6.04	7.56	37.00	0.42
900.00	1.75	53.17	899.89	8.02	6.63	8.02	10.40	39.56	0.46
1000.00	1.58	55.96	999.85	9.71	8.99	9.71	13.24	42.81	0.18
1019.00	1.60	56.25	1018.84	10.00	9.43	10.00	13.75	43.31	0.08



VES Survey International
Midland, Texas
432-563-5444
Surveyor: Robert Williams
Burch Keely Unit No. 955H / API 30-015-44150



VES Survey Date: 5/29/2017



I Robert Williams certify that I am employed by VES Survey International. That I did on the day(s) of 05/29/17 through 05/29/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,019.00 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 # #955H API # 30-015-44150 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.

A handwritten signature in blue ink, appearing to read "Robert Williams", is written over a horizontal line.

Robert Williams
Service Technician
VES Survey International