



July 13, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT
NOV 01 2017

RECEIVED

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

Attn: Kanicia Castillo

RE: **Dodd Federal Unit 923H** - 30.015 - 44151

Please find enclosed a copy of the survey from 0' to 893' 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.

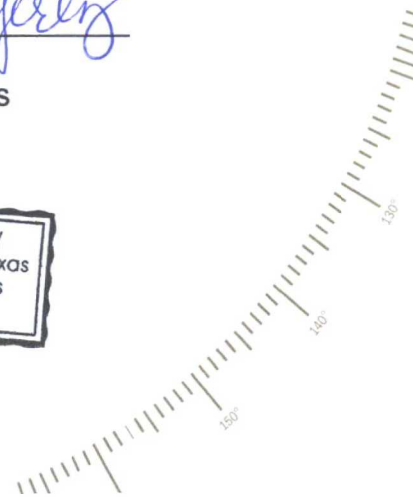
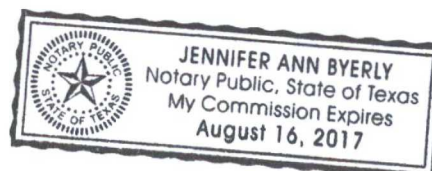
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 13 day of July, A.D., 2017, by Keith Havelka.


Jennifer Byerly
Notary Public, State of Texas



Company: COG OPERATING LLC
Lease/Well: DODD FEDERAL UNIT/923H



Rig Name: SILVEROAK 3
State/County: NEW MEXICO/EDDY
VS-Azi: 0.00 Degrees
Latitude: 32.82855, Longitude: -104.03743
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: 7/13/2017 / 15:13

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 01 2017

VES Survey International
Midland, TX
432-563-5444

RECEIVED

Surveyor: Andrew Meadville
Dodd Federal Unit 923H / API: 30-015-44151

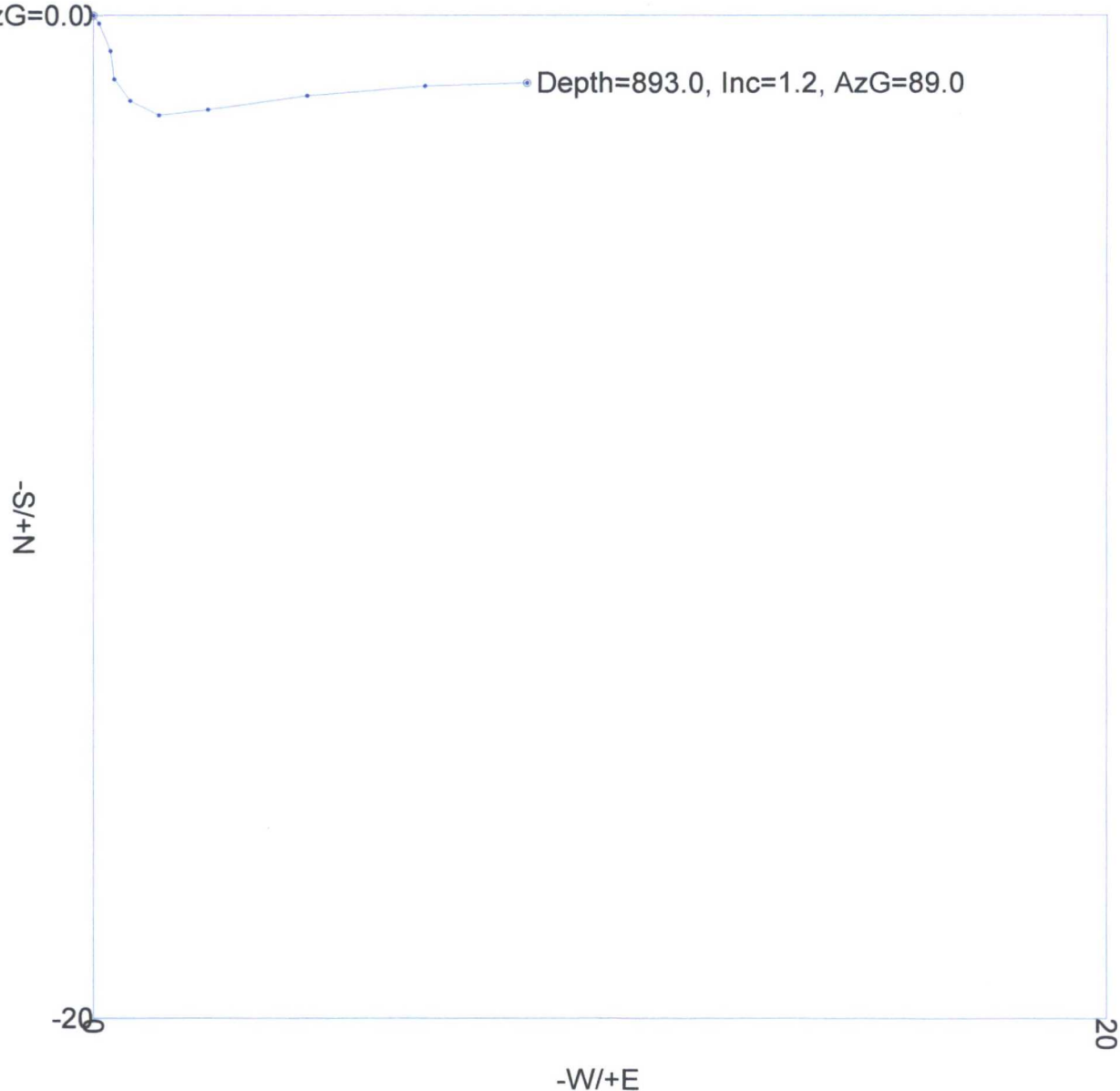
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.22	145.09	100.00	-0.16	0.11	-0.16	0.19	145.09	0.22
200.00	0.48	163.26	200.00	-0.72	0.34	-0.72	0.80	154.55	0.28
300.00	0.19	197.61	300.00	-1.28	0.41	-1.28	1.35	162.10	0.34
400.00	0.53	126.00	399.99	-1.71	0.74	-1.71	1.86	156.71	0.50
500.00	0.23	96.12	499.99	-2.00	1.31	-2.00	2.39	146.82	0.35
600.00	0.90	80.33	599.99	-1.89	2.29	-1.89	2.97	129.55	0.68
700.00	1.38	83.21	699.97	-1.61	4.26	-1.61	4.56	110.74	0.48
800.00	1.29	87.32	799.94	-1.42	6.59	-1.42	6.74	102.15	0.13
893.00	1.19	89.02	892.92	-1.35	8.60	-1.35	8.70	98.94	0.12



VES Survey International
Midland, TX
432-563-5444
Surveyor: Andrew Meadville
Dodd Federal Unit 923H / API: 30-015-44151



Depth=0.0, Inc=0.0, AzG=0.0



V.E.S. Survey Date: 7/9/2017



I Andrew Meadville certify that I am employed by VES Survey International. That I did on the day(s) of 07/09/17 through 07/09/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 893.00 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 LLC for the Dodd Federal Unit Well # 923H API # 30-015-44151 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 "A R M", is written over a horizontal line.

Andrew Meadville
Service Technician
VES Survey International