



July 26, 2017

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 06 2017

RECEIVED

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

Attn: Kanicia Castillo

RE: **Dodd Federal Unit No. 908H**

30-015-44274

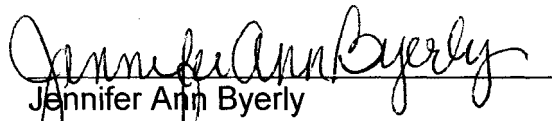
Please find enclosed a copy of the survey from 0' to 1243' ran on the above referenced well.

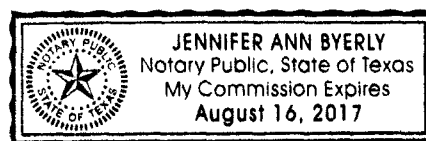
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 26th day of July,
A.D., 2017, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas



Company: COG OPERATING

Lease/Well: DODD FEDERAL UNIT No./908H

Rig Name: SILVER OAK 3

State/County: NEW MEXICO/EDDY

VS-Azi: 0.00 Degrees

Latitude: 32.85511, Longitude: -104.05400

Grid North = True North -0.15 degs (NAD 27)

Grid Correction Applied = -0.15 degs



VES SURVEY

Depth Reference : RKB = 18 FEET

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: e-line gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 7/26/2017 / 15:08

VES Survey International

Midland, TX

432-563-5444

Surveyor: Christopher Hair

Dodd Federal Unit No. 908H / API 30-015-44274

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 06 2017

RECEIVED

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	0.26	355.97	100.00	0.23	-0.02	0.23	0.23	355.97	0.26
200.00	0.41	23.76	200.00	0.79	0.11	0.79	0.80	8.17	0.22
300.00	0.36	48.34	300.00	1.33	0.49	1.33	1.42	20.35	0.17
400.00	0.61	56.95	399.99	1.83	1.17	1.83	2.17	32.69	0.26
500.00	0.68	57.88	499.99	2.43	2.12	2.43	3.23	41.07	0.07
600.00	0.93	70.32	599.98	3.02	3.38	3.02	4.54	48.24	0.30
700.00	1.12	71.05	699.96	3.61	5.07	3.61	6.22	54.53	0.19
800.00	1.31	50.53	799.94	4.65	6.87	4.65	8.29	55.89	0.47
900.00	1.55	23.87	899.91	6.62	8.30	6.62	10.61	51.43	0.70
1000.00	1.09	57.98	999.88	8.36	9.65	8.36	12.77	49.10	0.89
1100.00	1.29	55.92	1099.86	9.49	11.39	9.49	14.83	50.18	0.20
1200.00	0.82	46.00	1199.84	10.62	12.84	10.62	16.66	50.39	0.50
1243.00	0.76	39.22	1242.84	11.06	13.24	11.06	17.25	50.13	0.27



VES Survey International/
Midland, TX

432-563-5444

Surveyor: Christopher Hair

Dodd Federal Unit No. 908H / API 30-015-44274

VES

SURVEY

20

-S/+N

Depth=1243.0, Inc=0.8, AzG=39.2

0

Depth=0.0, Inc=0.0, AzG=0.0

-W/+E

20

NM OIL CONSERVATION

ARTESIA DISTRICT

NOV 06 2017

RECEIVED

VES SURVEY

I Christopher Hair certify that I am employed by VES Survey International. That I did on the day(s) of 07/22/17 through 07/22/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,243.00 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 Dodd Federal Unit Well # 908H API # 30-015-44274 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.



Christopher Hair
Service Technician
VES Survey International