



NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 03 2017

RECEIVED

April 6, 2017

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

Attn: Kanicia Castillo

RE: McIntyre DK Federal Com No. 028H

30-015-41273


Please find enclosed a copy of the survey from 0' to 1030' ran on the above referenced well.

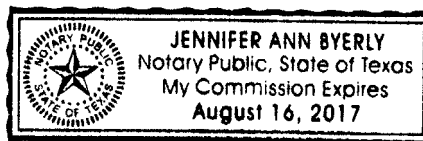
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 6th day of April,
A.D., 2017, by Keith Havelka.


Jennifer Ann Byerly
Notary Public, State of Texas





VES SURVEY

Company: COG OPERATING
 Lease/Well: MCINTYRE DK FEDERAL COM No./028H
 Rig Name: PATRIOT 6
 State/County: NEW MEXICO/EDDY
 VS-Azi: 0.00 Degrees
 Latitude: 32.82845, Longitude: -104.00131
 Grid North = True North -0.18 degs (NAD 27)
 Grid Correction Applied = -0.18 degs

Depth Reference : RKB 18 FEET
 DRILLOG HA GYRO SURVEY CALCULATIONS
 Filename: eline-de_01.ut
 Minimum Curvature Method
 Report Date/Time: 4/6/2017 / 10:42
 VES Survey International
 West Texas
 432-563-5444
 Surveyor: Dustin Byers
 McIntyre DK Federal Com No. 028H / API 30-015-41273

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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	0.14	141.00	100.00	-0.09	0.08	-0.09	0.12	141.00	0.14
200.00	0.23	157.35	200.00	-0.37	0.23	-0.37	0.43	148.36	0.10
300.00	0.37	92.98	300.00	-0.57	0.63	-0.57	0.85	132.07	0.34
400.00	0.91	69.80	399.99	-0.31	1.70	-0.31	1.73	100.32	0.59
500.00	1.24	86.65	499.97	0.03	3.53	0.03	3.53	89.54	0.45
600.00	1.51	94.75	599.95	-0.02	5.93	-0.02	5.93	90.17	0.33
700.00	1.68	93.50	699.91	-0.22	8.70	-0.22	8.70	91.42	0.18
800.00	1.82	88.10	799.86	-0.25	11.75	-0.25	11.75	91.23	0.21
900.00	2.24	89.86	899.80	-0.19	15.28	-0.19	15.29	90.73	0.42
1000.00	2.38	89.02	999.72	-0.15	19.31	-0.15	19.31	90.46	0.15
1030.00	2.50	87.47	1029.69	-0.12	20.59	-0.12	20.59	90.32	0.46



VES Survey International
West Texas
432-563-5444

Surveyor: Dustin Byers
McIntyre DK Federal Com No. 028H / API 30-015-41273

VES SURVEY
INTERNATIONAL

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Depth=0.0, Inc=0.0, AzG=0.0
±N

Depth=1030.0, Inc=2.5, AzG=87.5

20

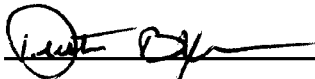
-W/+E

VES Survey Date: 3/30/2017

40

VES SURVEY

I Dustin Byers certify that I am employed by VES Survey International. That I did on the day(s) of 03/30/17 through 03/30/17 conduct or supervise the taking of a Rate Gyro survey from a depth of 0.00 feet to a depth of 1,030.00 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 McIntyre DK Fed Well # 28H API # 30-015-41273 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