

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-4
Form must be typed
March 2009

APPLICATION FOR COMMINGLING OF PRODUCTION (K.A.R. 82-3-123) OR FLUIDS (K.A.R. 82-3-123a) *Commingling ID #* _____

OPERATOR: License # _____ API No. 15 - _____
Name: _____ Spot Description: _____
Address 1: _____ - - - - - Sec. _____ Twp. _____ S. R. _____ East West
Address 2: _____ Feet from North / South Line of Section
City: _____ State: _____ Zip: _____ + _____ Feet from East / West Line of Section
Contact Person: _____ County: _____
Phone: (_____) _____ Lease Name: _____ Well #: _____

1. Name and upper and lower limit of each production interval to be commingled:
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____
Formation: _____ (Perfs): _____

2. Estimated amount of fluid production to be commingled from each interval:
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____
Formation: _____ BOPD: _____ MCFPD: _____ BWPD: _____

3. Plat map showing the location of the subject well, all other wells on the subject lease, and all wells on offsetting leases within a 1/2 mile radius of the subject well, and for each well the names and addresses of the lessee of record or operator.

4. Signed certificate showing service of the application and affidavit of publication as required in K.A.R. 82-3-135a.

For Commingling of PRODUCTION ONLY, include the following:

- 5. Wireline log of subject well. Previously Filed with ACO-1: Yes No
- 6. Complete Form ACO-1 (*Well Completion form*) for the subject well.

For Commingling of FLUIDS ONLY, include the following:

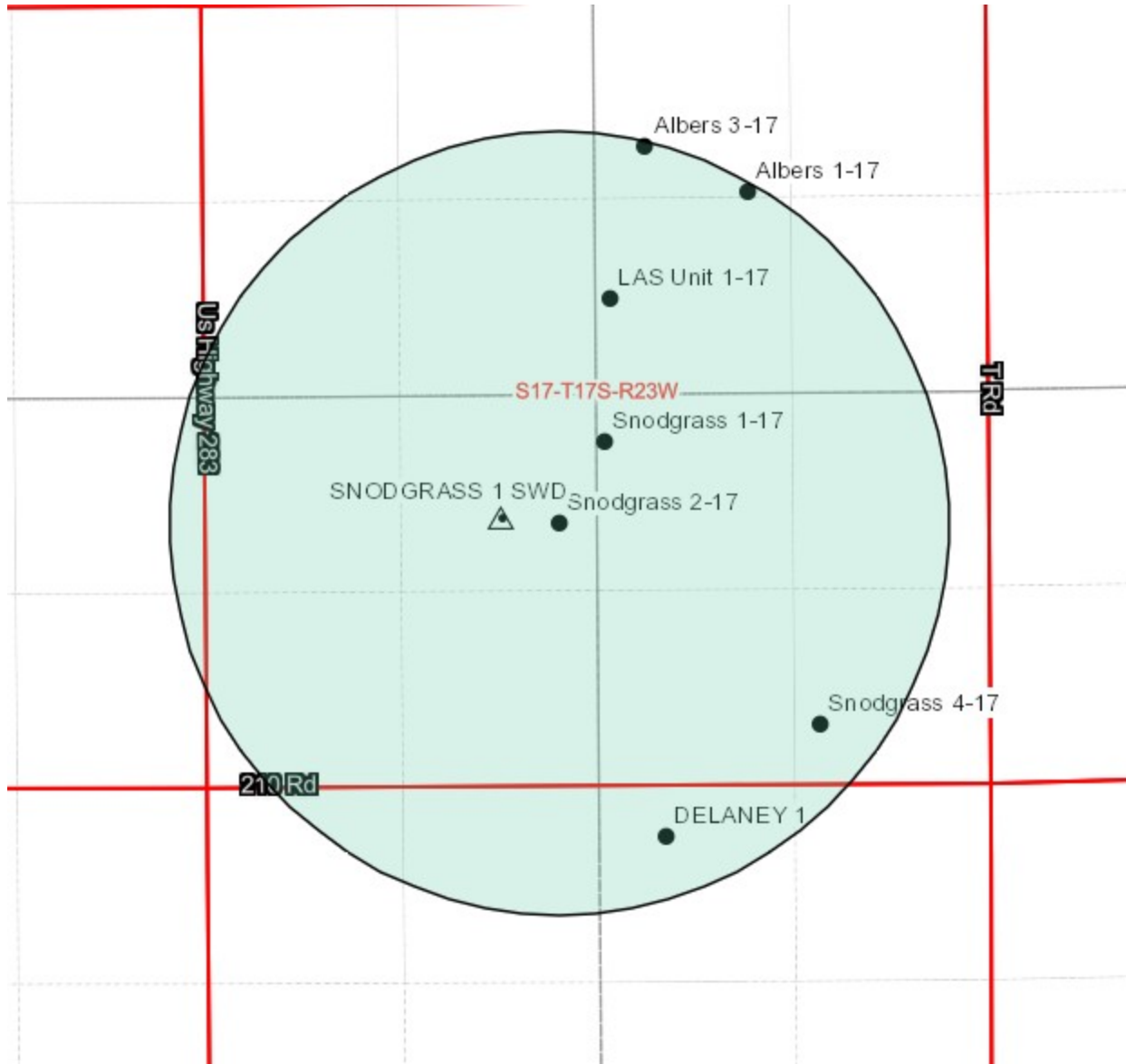
- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

AFFIDAVIT: I am the affiant and hereby certify that to the best of my current information, knowledge and personal belief, this request for commingling is true and proper and I have no information or knowledge, which is inconsistent with the information supplied in this application.

Submitted Electronically

KCC Office Use Only
 Denied Approved
15-Day Periods Ends: _____
Approved By: _____ Date: _____

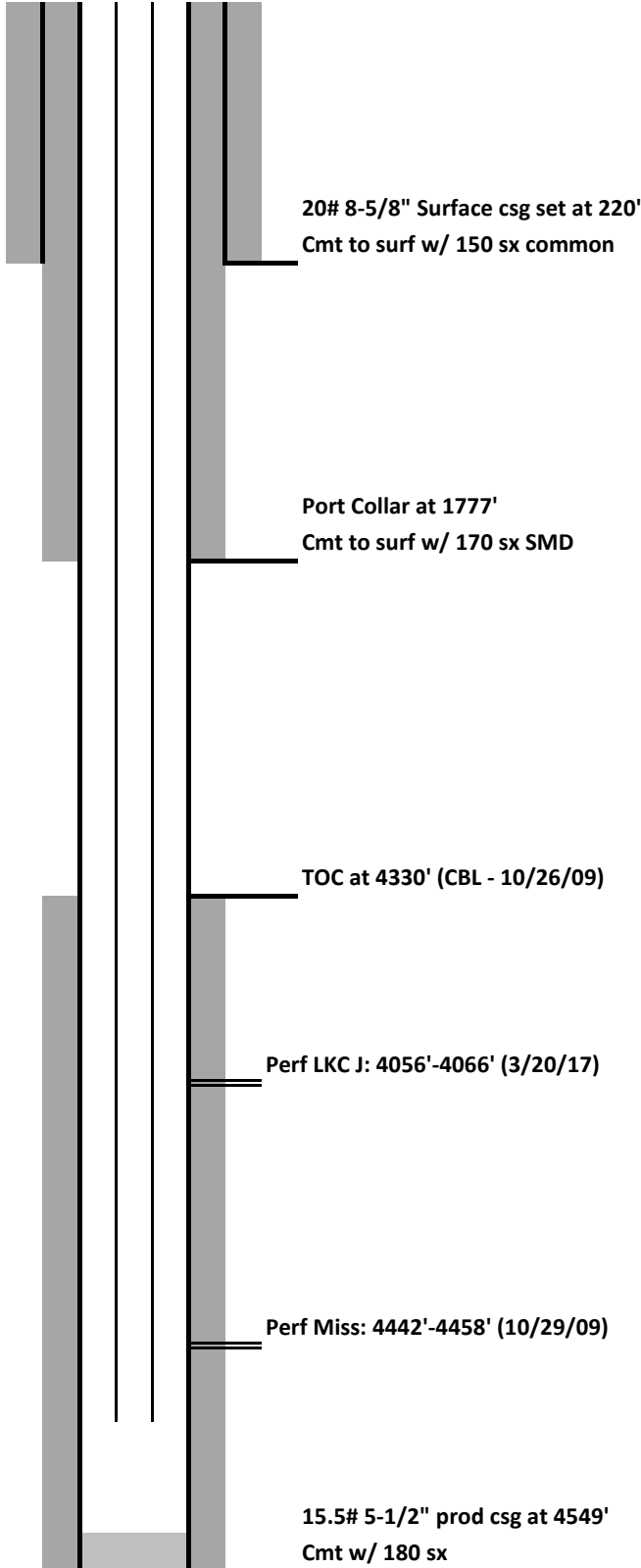
Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.





DRILLING COMPANY, INC.
WICHITA, KANSAS

Proposed Wellbore Configuration



Date:	11/10/2022
Well Name:	Snodgrass #2-17
Location:	1758' FSL & 2439' FWL
	17-17S-28W
County:	Ness
State:	Kansas
API:	15-135-24984-00-00
KB:	2454'
GL:	2449'
Spud Date:	10/10/2009

<u>Formation</u>	<u>Depth</u>
Anhydrite	1758
B/ Anhydrite	1792
Heebner Shale	3816
Lansing	3850
B/ KC	4135
Marmaton	4202
Pawnee	4242
Fort Scott	4340
Cherokee Shale	4362
Mississippi	4439
Gilmore City	4553
Viola	4657
Arbuckle	4769

PBTD: 4779'
 RTD: 4830'

15.5# 5-1/2" prod csg at 4549'
 Cmt w/ 180 sx



DownHole SAT(tm)

FORMATION WATER CHEMISTRY INPUT

Mull Drilling
Snodgrass 2-17
Wellhead

Pro-Stim Chemicals
Troy Pelton

Report Date: 06-14-2018 Sampled: 06-07-2018 at 1644
Sample #: 4253 Sample ID: WBaden

CATIONS

Calcium (as Ca)	5280
Magnesium (as Mg)	1580
Barium (as Ba)	0.00
Strontium (as Sr)	0.00
Sodium (as Na)	60756
Potassium (as K)	0.00
Lithium (as Li)	0.00
Ammonia (as NH ₃)	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	45.00
Manganese (as Mn)	0.500
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

ANIONS

Chloride (as Cl)	107000
Sulfate (as SO ₄)	1900
Bromine (as Br)	0.00
Dissolved CO ₂ (as CO ₂)	130.00
Bicarbonate (as HCO ₃)	140.00
Carbonate (as CO ₃)	0.00
Oxalic acid (as C ₂ O ₄)	0.00
Silica (as SiO ₂)	0.00
Phosphate(as PO ₄)	0.00
H ₂ S (as H ₂ S)	0.00
Fluoride (as F)	0.00
Nitrate (as NO ₃)	0.00
Boron (as B)	0.00

PARAMETERS

Calculated T.D.S.	170414
Molar Conductivity	276953
Resistivity	3.61
Sp.Gr.(g/mL)	1.10
Pressure(psia)	14.70
pCO ₂ (psia)	0.0178
pH ₂ S(atm)	0.00
Temperature (°F)	71.00
pH	6.62

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.00710
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COMMENTS All anions & cations are in mg/l

FRENCH CREEK SOFTWARE, INC.
1220 VALLEY FORGE ROAD, SUITE 21, VALLEY FORGE, PA 19460



DownHole SAT(tm)
FORMATION WATER
DEPOSITION POTENTIAL INDICATORS

Mull Drilling
Snodgrass 2-17
Wellhead

Pro-Stim Chemicals
Troy Pelton

Report Date: 06-14-2018 Sampled: 06-07-2018 at 1644
Sample #: 4253 Sample ID: WBaten

SATURATION LEVEL

Calcite (CaCO ₃)	0.978
Aragonite (CaCO ₃)	0.917
Witherite (BaCO ₃)	0.00
Strontianite (SrCO ₃)	0.00
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	0.313
Anhydrite (CaSO ₄)	0.740
Gypsum (CaSO ₄ *2H ₂ O)	1.01
Barite (BaSO ₄)	0.00
Celestite (SrSO ₄)	0.00
Fluorite (CaF ₂)	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO ₂)	0.00
Brucite (Mg(OH) ₂)	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) ₃)	7.14
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	5.13
Halite (NaCl)	0.124
Thenardite (Na ₂ SO ₄)	< 0.001
Iron sulfide (FeS)	0.00

FREE ION MOMENTARY EXCESS (ppm)

Calcite (CaCO ₃)	-0.00123
Aragonite (CaCO ₃)	-0.00489
Witherite (BaCO ₃)	-75.69
Strontianite (SrCO ₃)	-24.51
Calcium oxalate (CaC ₂ O ₄)	-0.0264
Magnesite (MgCO ₃)	-0.0994
Anhydrite (CaSO ₄)	-278.04
Gypsum (CaSO ₄ *2H ₂ O)	8.40
Barite (BaSO ₄)	-0.300
Celestite (SrSO ₄)	-408.84
Fluorite (CaF ₂)	-8.83
Calcium phosphate	>-0.001
Hydroxyapatite	-828.61
Silica (SiO ₂)	-81.74
Brucite (Mg(OH) ₂)	0.00288
Magnesium silicate	-260.82
Iron hydroxide (Fe(OH) ₃)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	0.0502
Halite (NaCl)	-291423
Thenardite (Na ₂ SO ₄)	-239961
Iron sulfide (FeS)	-0.225

SIMPLE INDICES

Langelier	0.541
Ryznar	5.54
Puckorius	4.70
Larson-Skold Index	1410
Stiff Davis Index	0.179
Oddo-Tomson	-0.615

BOUND IONS

Calcium	5280
Barium	0.00
Carbonate	4.80
Phosphate	0.00
Sulfate	1900

TOTAL

FREE

5020
0.00
0.0323
0.00
595.35

OPERATING CONDITIONS

Temperature (°F)	71.00
Time(mins)	3.00



DRILLING COMPANY, INC.
WICHITA, KANSAS

ATTACHMENT TO ACO-4
APPLICATION FOR COMMINGLING OF PRODUCTION

Signed Certificate of Notice to Offset Operators and Unleased Mineral Holders
Mull Drilling Company, Inc.
Snodgrass #2-17
NE/4 SW/4 Section 17-17S-23W
Ness County, Kansas
API No. 15-135-24984-00-01

Names and addresses of each operator or lessee of record and each unleased mineral owner within one half mile of the subject well:

Section 17: All

Mull Drilling Company, Inc.
1700 N Waterfront Pkwy, Bldg. 1200
Wichita, KS 67206

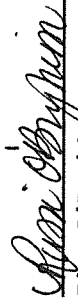
Section 18: E/2 & Section 20: N/2

The Neal and Dianne Delaney Living Trust
211 W Ash
Ness City, KS 67560

Copy of the ACO-4 was mailed to the above listed companies/individuals on June 6, 2023.

Signed this 6th day of June, 2023.

MULL DRILLING COMPANY, INC.


Risa O'Bryhim
Production Specialist

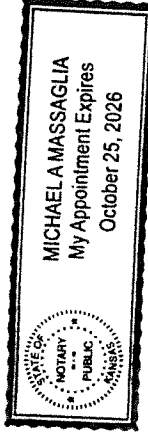
STATE OF KANSAS

COUNTY OF SEDGWICK

ACKNOWLEDGEMENT FOR INDIVIDUAL

Before me, the undersigned, a Notary Public, within and for said county and state, on this 6th day of June, 2023, personally appeared Risa O'Bryhim, Production Specialist of Mull Drilling Company, Inc., to me personally known to be the identical person who executed the within and foregoing Certificate of Service Form and acknowledged to me that she executed the same as her free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.





Michael A. Massaglia, Notary Public

My commission expires: 10/25/26



Beaufort Gazette
 Belleville News-Democrat
 Bellingham Herald
 Bradenton Herald
 Centre Daily Times
 Charlotte Observer
 Columbus Ledger-Enquirer
 Fresno Bee

The Herald - Rock Hill
 Herald Sun - Durham
 Idaho Statesman
 Island Packet
 Kansas City Star
 Lexington Herald-Leader
 Merced Sun-Star
 Miami Herald

el Nuevo Herald - Miami
 Modesto Bee
 Raleigh News & Observer
 The Olympian
 Sacramento Bee
 Fort Worth Star-Telegram
 The State - Columbia
 Sun Herald - Biloxi

Sun News - Myrtle Beach
 The News Tribune Tacoma
 The Telegraph - Macon
 San Luis Obispo Tribune
 Tri-City Herald
 Wichita Eagle

AFFIDAVIT OF PUBLICATION

Account #	Order Number	Identification	Order PO	Amount	Cols	Depth
38629	430486	Print Legal Ad-IPL01261620 - IPL0126162		\$331.18	1	54 L

Attention: Risa O'Bryhim
 MULL DRILLING COMPANY, INC.
 1700 N. WATERFRONT PKWY, BUILDING 1200
 WICHITA, KS 67206

LEGAL PUBLICATION
BEFORE THE STATE
CORPORATION COMMISSION
OF THE STATE OF KANSAS
NOTICE OF FILING
APPLICATION

Re: Mull Drilling Company, Inc. – Application for order to permit commingling of production of the Snodgrass #2-17 and Snodgrass #4-17, located in Ness County, Kansas.

To: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whosever concerned.

You, and each of you, are hereby notified that Mull Drilling Company, Inc. has filed an application to commingle production of the LKC "J" and Mississippi formations on the Snodgrass #2-17, located NE/4 SW/4 17-17S-23W, as well as the LKC "G", LKC "J", and Cherokee formations on the Snodgrass #4-17, located SE/4 SE/4 17-17S-23W, Ness County, Kansas.

Any persons who object to or protest this application shall be required to file their objections or protests with the Conservation Division of the State Corporation Commission of the State of Kansas within fifteen (15) days from the date of the publication. These protests shall be filed pursuant to Commission regulations and must state specific reasons why the grant of the application may cause waste, violate correlative rights or pollute the natural resources of the state of Kansas. If no protests are received, this application may be granted through a summary proceeding. If valid protests are received, this matter will be set for hearing.

All persons interested or concerned shall take notice of the foregoing and shall govern themselves accordingly.

Mull Drilling Company, Inc.
 1700 N. Waterfront Parkway,
 Building 1200
 Wichita, KS 67206
 316-264-6366
 IPL0126162
 Jun 8 2023

In The STATE OF KANSAS
 In and for the County of Sedgwick

1 insertion(s) published on:
 06/08/23

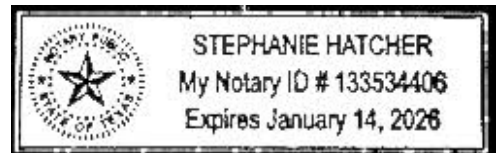
STATE OF KANSAS)
 SS
 County of Sedgwick)

Hayley Martin, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterrupted published in said County for more than one year prior to the first publication of the notice hereinafter mentioned, and which said newspaper has been entered as second class mail matter at the United States Post Office in Wichita, Kansas, and which said newspaper is not a trade, religious or fraternal publication and that a notice of a true copy is hereto attached was published in the regular and entire Morning issue of said The Wichita Eagle from 06/08/2023 to 06/08/2023.

I certify (or declare) under penalty of perjury that the foregoing is true and correct.
 DATED: 06/20/2023

Stephanie Hatcher

Notary Public in and for the state of Texas, residing in Dallas County



Extra charge for lost or duplicate affidavits.
 Legal document please do not destroy!

AFFIDAVIT OF PUBLICATION: ---Ness County News

STATE OF KANSAS, COUNTY OF NESS, ss:

First published in the
Ness County News,
Thursday, June 15,
2023. -3t

**BEFORE THE STATE
CORPORATION
COMMISSION OF
THE STATE OF
KANSAS
NOTICE OF FILING
APPLICATION**

Re: Mull Drilling Com-
pany, Inc. - Application
for order to permit com-
mingling of production
of the Snodgrass #2-17
and Snodgrass #4-17,
located in Ness Coun-
ty, Kansas.

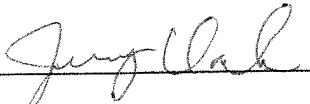
To: All Oil & Gas Pro-
ducers, Unleased Min-
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Landowners and all
persons whosoever
concerned.

You, and each of you,
are hereby notified
that Mull Drilling Com-
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application to com-
mingle production of
the LKC "J" and Mis-
sissippi formations on
the Snodgrass #2-17,
located NE/4 SW/4
17-17S-23W, as well as
the LKC "G", LKC "J",
and Cherokee forma-
tions on the Snodgrass
#4-17, located SE/4
SE/4 17-17S-23W,
Ness County, Kansas.

Jerry Clarke, being first duly sworn, Deposes and says: that he is Publisher of
Ness County News, a weekly newspaper, published and printed in Ness City, State
of Kansas, and published in and of general circulation in Ness County, Kansas, with
a general paid circulation on a weekly basis in Ness County, Kansas, and that said
newspaper is not a trade, religious or fraternal publication.

Said newspaper is a weekly published at least 50 times a year; has been so pub-
lished continuously and uninterruptedly in said county and state for a period of more
than five years prior to the first publication of said notice; and has been admitted at
the post office of Ness City, in said County as second class mail matter.

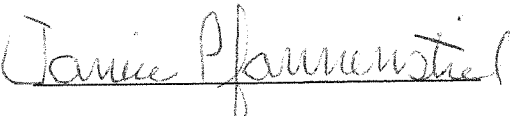
That the attached notice is a true copy thereof and was published in the
regular and entire issue of said newspaper for **1** consecutive weeks,
the first publication thereof being made as aforesaid on the **15th** day of
June 2023, with subsequent publications being made on the following dates:



Jerry Clarke, editor.

Subscribed and sworn to before me this **15th day of June, 2023.**





Janice Pfannenstiel, Notary Public.

Publication Fee **\$49.40**
Total Publication Fees **\$49.40**

Any persons who ob-
ject to or protest this
application shall be
required to file their
objections or protests
with the Conservation
Division of the State
Corporation Commis-
sion of the State of
Kansas within fifteen
(15) days from the
date of the publication.

These protests shall be
filed pursuant to Com-
mission regulations
and must state specific
reasons why the grant
of the application may
cause waste, violate
correlative rights or
pollute the natural re-
sources of the state of
Kansas. If no protests
are received, this appli-
cation may be granted
through a summary
proceeding. If valid
protests are received,
this matter will be set
for hearing.

All persons interested
or concerned shall take
notice of the foregoing
and shall govern them-
selves accordingly.

Mull Drilling Company,
Inc.
1700 N. Waterfront
Parkway
Building 1200
Wichita, KS 67206
316-264-6366

Filed this _____ day of _____, 20____.

Attached Proof Of Publication approved this _____ day of _____, 20____

District Magistrate Judge.

Filed this _____ day of _____, 20____.

Clerk of the District Court.

and Proof Of Publication approved this _____ day of _____, 20____

Judge Twenty-fourth Judicial District.

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Susan K. Duffy, Chair
Dwight D. Keen, Commissioner
Andrew J. French, Commissioner

Laura Kelly, Governor

July 11, 2023

Bryan Neuhaus
Mull Drilling Co., Inc.
1700 N Waterfront Pkwy, Bldg 1200
Wichita, KS 67206

RE: Approved Commingling CO072301
Snodgrass 2-17
API No. 15-135-24984-00-01

Dear Mr. Neuhaus:

Your Application for Commingling (ACO-4) for the above described well has been reviewed and approved by the Kansas Corporation Commission (KCC) per K.A.R. 82-3-123. Notice was examined and found to be proper per K.A.R. 82-3-135a. No protest had been filed within the 15-day protest period.

Based upon the depth of the Mississippi formation perforations, total oil production shall not exceed 200 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Sincerely,

Production Department Supervisor