

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:**

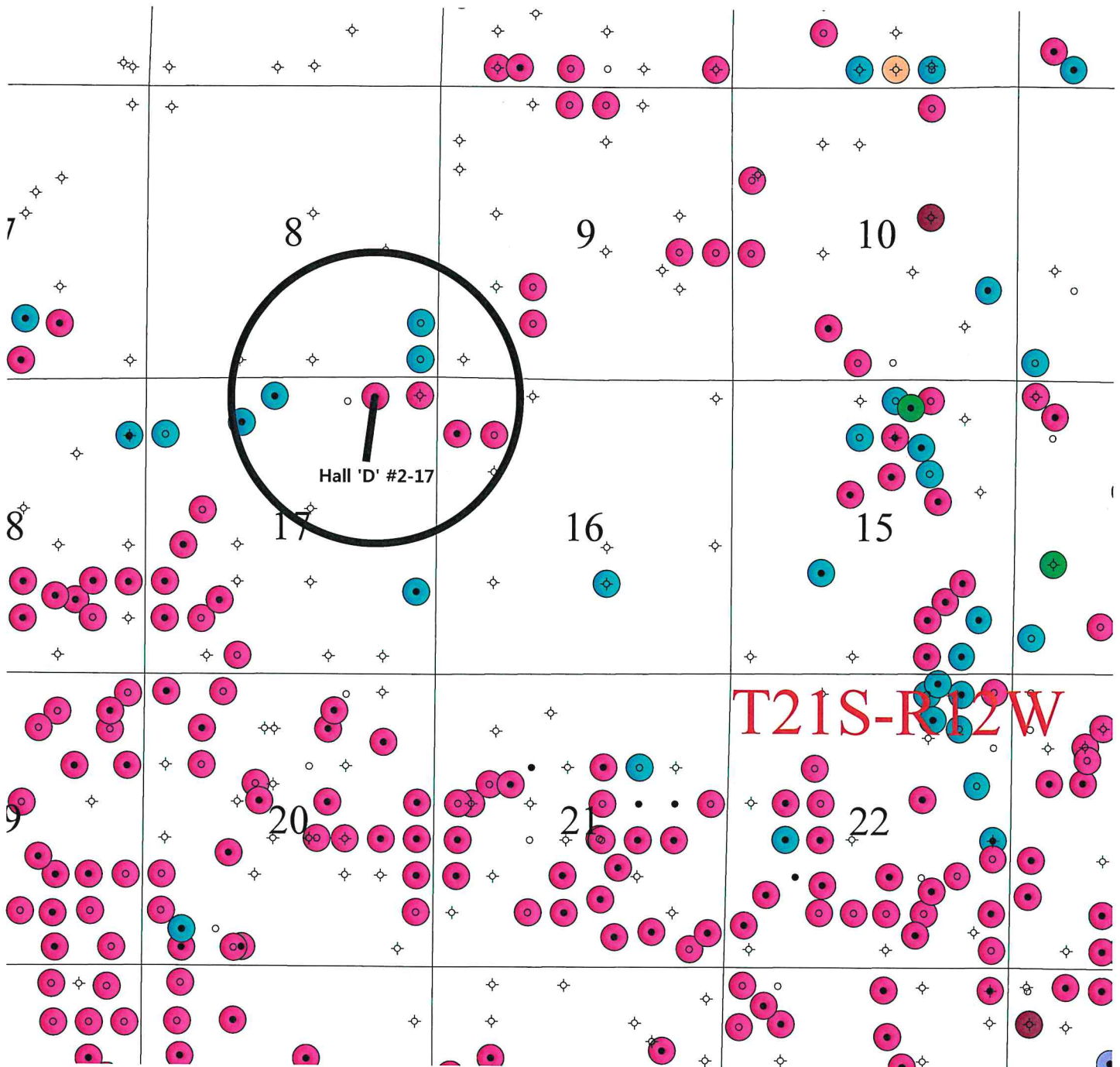
- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**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.*



<b>Mull Drilling Company</b>		
Application for Commingling of Production Section 3 Hall 'D' #2-17 Stafford County, KS 17-21S-12W		
Author: MDCM	Scale: 1"=100'	Date: 7 March, 2019



**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.  
Hall D #2-17  
NE/4 NE/4 Section 17-21S-12W  
Stafford County, Kansas  
API No. 15-185-23629-00-00**

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

Sec 8: S/2

Scott D. Salem and Sarah J. Salem  
2025 NE 40<sup>th</sup> Ave.  
Ellinwood, Kansas 67526

Virgil D. Salem Revocable Trust, dated May 3, 2013  
2095 NE 80<sup>th</sup> Ave.  
Ellinwood, Kansas 67526

Sec 9: SW/4

John DeWerff Revocable Trust, dated February 2, 2001  
941 SE 50 Road  
Ellinwood, Kansas 67526

Katherine L. DeWerff Revocable Trust, dated February 2, 2001  
941 SE 50 Road  
Ellinwood, Kansas 67526

Sec. 16: N/2SW/4

Steckel Farms, a partnership  
P.O. Box 19392  
Boulder, Colorado 80308

Sec. 16: S/2SW/4

Davidson Cattle, LLC  
1707 S. Ramon Road  
Salina, Kansas 67581

Virginia E. Anderson Trust  
P.O. Box 3699  
Wichita, Kansas 67201

Estate of J. Edgar Hallman, deceased  
6925 Santa Fe Drive  
Overland Park, Kansas 66204

Sec. 17: S/2NW/4

Mast Drilling Inc.  
8411 Preston Road, Suite 800  
Dallas, Texas 75225

Mull Drilling Company, Inc's Hall D #2-17  
NE/4 NE/4 Section 17-21S-12W  
Stafford County, Kansas  
Page 2

Copy of the ACO-4 was mailed to the above listed companies/individuals on April 8, 2019.

Signed this 8th day of April, 2019.

MULL DRILLING COMPANY, INC.



Risa Carter  
Production Technician


STATE OF KANSAS

ACKNOWLEDGEMENT FOR INDIVIDUAL

COUNTY OF SEDGWICK

Before me, the undersigned, a Notary Public, within and for said county and state, on this 8th day of April, 2019, personally appeared Risa Carter, Production Technician 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 he executed the same as his 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.



Tannis L. Tritt, Notary Public

My commission expires: 3.26.2023



## LEGAL PROOF OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Cols	Lines
453877	0004167938	Published in The Wichita Eagle on April 11, 2019		\$173.20	1	48

**Attention:** Risa Carter

MULL DRILLING COMPANY, INC.  
1700 N. WATERFRONT PKWY, BUILDING 1200  
WICHITA, KS 67206

### LEGAL PUBLICATION

Published in The Wichita Eagle  
on April 11, 2019 (4167938)

**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  
Hall D #2-17, located in Stafford County, Kansas.

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

You, and each of you, are hereby notified  
that Mull Drilling Company, Inc. has filed an  
application to commingle production of the LKC  
and Arbuckle formation on the  
Hall D #2-17, located NE 1/4 17-21S-12W,  
Stafford 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

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

1 Insertions

Beginning issue of: 04/11/2019

Ending issue of: 04/11/2019

STATE OF KANSAS)

.SS

County of Sedgwick)

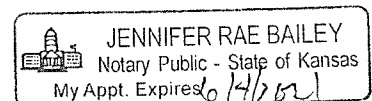
Dale Seiwert, of lawful age, being first duly sworn, deposeseth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper has been continuously and uninterruptedly 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 4/11/2019 to 04/11/2019.

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

(Signature of Principal Clerk)

DATED: 4/11/2019

Notary Public Sedgwick County, Kansas



PROOF OF PUBLICATION

COURT NO. \_\_\_\_\_

STATE OF KANSAS, STAFFORD COUNTY, S.S.

David Green, of lawful age, being duly sworn upon oath states that he is the publisher of

THE STAFFORD COURIER

THAT said newspaper has been published at least weekly fifty (50) times a year and has been so published for at least five years prior to the first publication of the attached notice:

THAT said paper was entered as second class mail matter at the post office of its publication;

THAT said paper has a general circulation on a daily, or weekly, or monthly, or yearly basis in

STAFFORD County, Kansas, and is

NOT a trade, religious or fraternal publication and has been published in STAFFORD County, Kansas THE ATTACHED was published on the following dates in a regular issue of said newspaper:

First Publication... April 17, 2019
Second Publication... 20
Third Publication... 20
Fourth Publication... 20
Fifth Publication... 20
Sixth Publication... 20

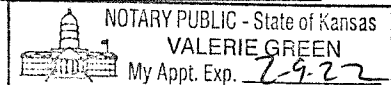
Publication Fee \$
Affidavit, Notary's Fee \$
Additional Copies @ \$
Total Publication Fee \$

Witness my hand this 16 day of April, 2019
(Sign) [Signature]

SUBSCRIBED AND SWORN TO before this 16 day of April, 2019

[Signature]
(Notary Public)

My commission expires \_\_\_\_\_

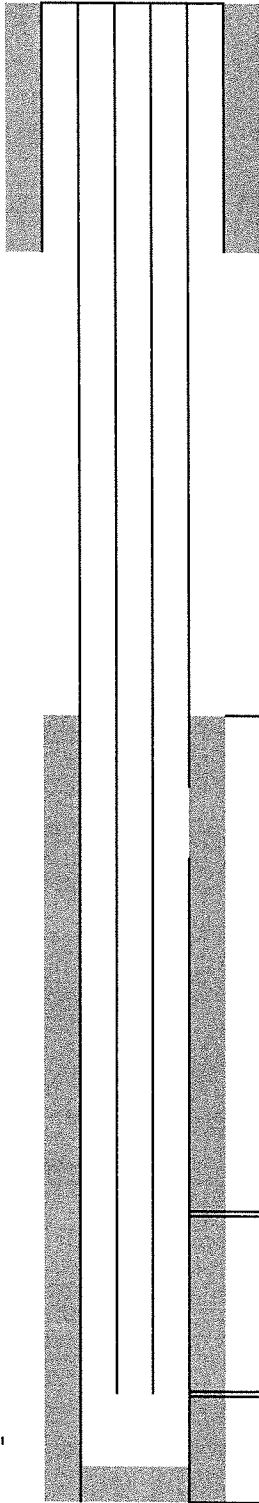


(Published In The Stafford Courier, Wednesday, April 17, 2019)1t
BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS
NOTICE OF FILING APPLICATION
Re: Mull Drilling Company, Inc. - Application for order to permit commingling of production of the Hall D #2-17, located in Stafford County, Kansas.
To: All Oil & Gas Producers, Unleased Mineral Interest Owners, Landowners, and all persons whosoever concerned.
You, and each of you, are hereby notified that Mull Drilling Company, Inc. has filed an application to commingle production of the LKC and Arbuckle formation on the Hall D #2-17, located NE/4 NE/4 17-21S-12W, Stafford 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 files 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



**DRILLING COMPANY, INC.**  
**WICHITA, KANSAS**

**Proposed Wellbore Configuration**



8-5/8", 22# set at 287'  
Cmt to surf w/325 sx.

Top of cement at 2720' (CBL 7/22/10)

Proposed Lansing-Kansas City I zone perms at 3362'-3457'

Existing Arbuckle perms at 3468'-3508'

PBTD 3522'  
RTD 3580'

5-1/2", 14 # csg set at 3571'. Cmt w/125 sx. 50/50 Pozmix.

Date:	4/9/2019
Well Name:	Hall D #2-17
Location:	345' FNL & 1147' FEL
	17-21S-12W
County:	Stafford
State:	KS
API:	15-185-
KB:	1868'
GL:	1857'
Spud Date:	7/1/2010



# DownHole SAT Rx

## FORMATION WATER CHEMISTRY INPUT

Mull Drilling  
Steckel Farms B 1-16

Pro-Stim Chemicals  
Troy Pelton

*Nearest Arbuckle  
Water Analysis  
available to  
the Hall D #2-17*

Report Date: 06-10-2017  
Sample #: 1964

Sampled: 05-29-2017  
at 1644

### CATIONS

Calcium (as Ca)	1640
Magnesium (as Mg)	146.00
Barium (as Ba)	4.00
Strontium (as Sr)	0.00
Sodium (as Na)	12661
Potassium (as K)	0.00
Lithium (as Li)	0.00
Ammonia (as NH <sub>3</sub> )	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	124.00
Manganese (as Mn)	0.270
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

### ANIONS

Chloride (as Cl)	23000
Sulfate (as SO <sub>4</sub> )	150.00
Bromine (as Br)	0.00
Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	3.69
Bicarbonate (as HCO <sub>3</sub> )	500.00
Carbonate (as CO <sub>3</sub> )	0.00
Oxalic acid (as C <sub>2</sub> O <sub>4</sub> )	0.00
Silica (as SiO <sub>2</sub> )	0.00
Phosphate(as PO <sub>4</sub> )	0.00
H <sub>2</sub> S (as H <sub>2</sub> S)	30.00
Fluoride (as F)	0.00
Nitrate (as NO <sub>3</sub> )	0.00
Boron (as B)	0.00

### PARAMETERS

Calculated T.D.S.	37977
Molar Conductivity	52249
Resistivity	19.14
Sp.Gr.(g/mL)	1.02
Pressure(psia)	14.70
pCO <sub>2</sub> (psia)	0.0263
pH <sub>2</sub> S(atm)	0.00511
Temperature (°F)	74.00
pH	7.13

All anions and cations are in mg/l (CO<sub>2</sub> in MEq/L)

**FRENCH CREEK SOFTWARE, INC.**

**1220 VALLEY FORGE ROAD, BUILDING 21, VALLEY FORGE, PA 19460**





# DownHole SAT Rx

## FORMATION WATER CHEMISTRY INPUT

Mull Drilling  
Hall 1-23

Pro-Stim Chemicals  
Troy Pelton

*Nearest Landfill  
Kansas City Waste  
Analysis available  
to the Hall D#1-17*

Report Date: 06-12-2017  
Sample #: 1969

Sampled: 05-29-2017  
at 1644

### CATIONS

Calcium (as Ca)	2600
Magnesium (as Mg)	413.00
Barium (as Ba)	0.00
Strontium (as Sr)	0.00
Sodium (as Na)	16744
Potassium (as K)	0.00
Lithium (as Li)	0.00
Ammonia (as NH <sub>3</sub> )	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	8.00
Manganese (as Mn)	0.110
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

### ANIONS

Chloride (as Cl)	30000
Sulfate (as SO <sub>4</sub> )	2950
Bromine (as Br)	0.00
Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	6.22
Bicarbonate (as HCO <sub>3</sub> )	400.00
Carbonate (as CO <sub>3</sub> )	0.00
Oxalic acid (as C <sub>2</sub> O <sub>4</sub> )	0.00
Silica (as SiO <sub>2</sub> )	0.00
Phosphate(as PO <sub>4</sub> )	0.00
H <sub>2</sub> S (as H <sub>2</sub> S)	60.00
Fluoride (as F)	0.00
Nitrate (as NO <sub>3</sub> )	0.00
Boron (as B)	0.00

### PARAMETERS

Calculated T.D.S.	52725
Molar Conductivity	68252
Resistivity	14.65
Sp.Gr.(g/mL)	1.03
Pressure(PSIA)	14.70
pCO <sub>2</sub> (PSIA)	0.0451
pH <sub>2</sub> S(atm)	0.0103
Temperature (°F)	73.00
pH	6.72

All anions & cations are in mg/l (CO<sub>2</sub> in MEq/L)

**FRENCH CREEK SOFTWARE, INC.**

**1220 VALLEY FORGE ROAD, BUILDING 21, VALLEY FORGE, PA 19460**

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



Phone: 316-337-6200  
Fax: 346-337-6211  
<http://kcc.ks.gov/>

Dwight D. Keen, Chair  
Shari Feist Albrecht, Commissioner  
Jay Scott Emler, Commissioner

Laura Kelly, Governor

May 2, 2019

Mark Shreve  
Mull Drilling Co., Inc.  
1700 N Waterfront Pkwy, Bldg 1200  
Wichita, KS 67206

RE: Approved Commingling CO041901  
Hall 'D' 2-17  
API No. 15-185-23629-00-00

Dear Mr. Shreve:

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 Arbuckle formation perforations, total oil production shall not exceed 100 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

**File form ACO-1 upon re-completion of the well to commingle.**

Sincerely,

Rick Hestermann  
Production Department