

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-4  
Form must be typed  
March 2009

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

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: \_\_\_\_\_

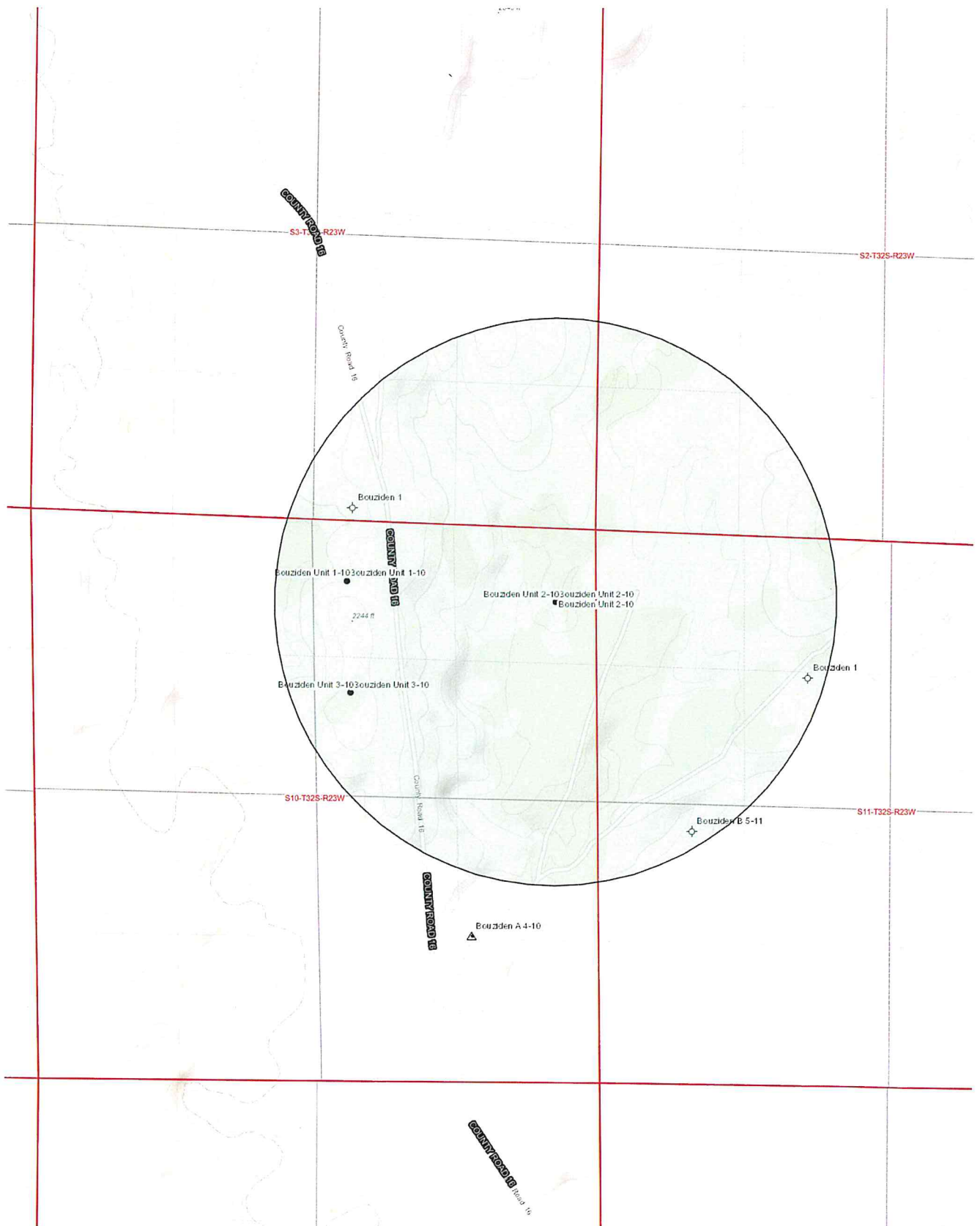
*Protests may be filed by any party having a valid interest in the application. Protests must be in writing and comply with K.A.R. 82-3-135b and must be filed within 15 days of publication of the notice of application.*

[illegible][illegible]

				LKC B Perfs at 4537'-4739'			

[illegible][illegible][illegible]

0'					Cemented with 235 sks 50/50 Pozmix	
----	--	--	--	--	------------------------------------	--





**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.  
Bouziden Unit #2-10  
NE/4 NE/4 Section 10-32S-23W  
Clark County, Kansas  
API No. 15-025-21604-00-02**

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

Section 2: SW/4  
Section 11: NW/4

David Bouziden Trust of 2011  
PO Box 663  
Ashland, KS 67831

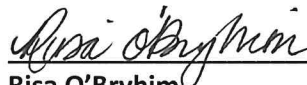
Section 3: S/2  
Section 10: N/2 & SE/4  
Section 11: SW/4

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

Copy of the ACO-4 was mailed to the above listed companies/individuals on April 7, 2022.

Signed this 7th day of April, 2022.

**MULL DRILLING COMPANY, INC.**



Risa O'Bryhim  
Production Technician

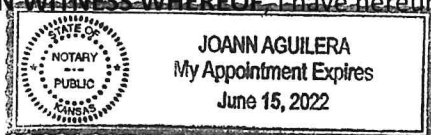
**STATE OF KANSAS**


**ACKNOWLEDGEMENT FOR INDIVIDUAL**

**COUNTY OF SEDGWICK**

Before me, the undersigned, a Notary Public, within and for said county and state, on this 7th day of April, 2022, personally appeared Risa O'Bryhim, 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 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.



  
JoAnn Aguilera, Notary Public

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



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	246075	Print Legal Ad - IPL0068453		\$299.17	1	51 L

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

### **LEGAL PUBLICATION BEFORE THE STATE CORPO- RATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICA- TION**

Re: Mull Drilling Company, Inc. - Ap-  
plication for order to permit commin-  
gling of production of the  
Bouziden Unit #2-10, located in Clark  
County, Kansas.

To: All Oil & Gas Producers, Unleased  
Mineral Interest Owners, Landown-  
ers, and all persons whosoever con-  
cerned.

You, and each of you, are hereby no-  
tified that Mull Drilling Company, Inc.  
has filed an application to commingle  
production of the LKC "B", LKC "F",  
and Pawnee formations on the Bou-  
ziden Unit #2-10, located NE/4 NE/4  
10-32S-23W, Clark 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 pro-  
tests 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 natu-  
ral resources of the state of Kansas.  
If no protests are received, this ap-  
plication 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

IPL0068453

Apr 13 2022

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

No. of Insertions: 1

Beginning Issue of: 04/13/2022

Ending Issue of: 04/13/2022

STATE OF KANSAS)

SS

County of Sedgwick)

Hayley Martin, of lawful age, being first duly sworn,  
deposeeth 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 04/13/2022  
to 04/13/2022.

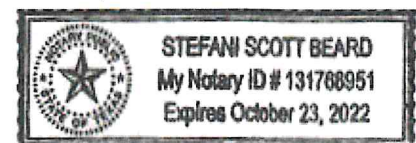
*M. Hayley*

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

DATED: 04/25/2022

*Stefani Beard*

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!

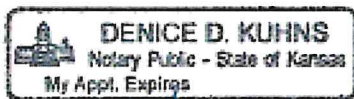


### Affidavit of Publication

State of Kansas, County of Clark, ss: Clint D Kuhns, of lawful age, being first duly sworn on oath says that he is the principal clerk – bookkeeper of Clark County Gazette, a weekly newspaper printed and published at Minneola, KS; that said newspaper has the following qualifications: (a) it has been published at least fifty (50) times a year and has so published at least five (5) years prior to the first publication of the attached notice; (b) it is entered at the post office as periodical mail matter; (c) it has a general paid circulation on a weekly basis in said county and it is not a trade, religious or fraternal publication; and (d) it is published in Clark County, Kansas; and that the attached legal notice being a copy of Legal Notice as per clipping attached, was published in the regular and entire weekly edition of said newspaper and not any supplement thereof for 1 consecutive week(s), the first publication being on the 14th of April, 2022, and the last publication being on the 14th day of April, 2022.



Subscribed and sworn to before me this 14th day of April, 2022.



**My Appointment Expires: 7/16/23**

Publication Fee: 72.00

(First published in the Clark County Gazette on Thursday, April 14, 2022.)

### 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 Bouziden Unit #2-10, located in Clark 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 “B”, LKC “F”, and Pawnee formations on the Bouziden Unit #2-10, located NE/4 NE/4 10-32S-23W, Clark 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



**DownHole SAT®**  
**FORMATION WATER CHEMISTRY INPUT**

Mull Drilling  
Bouziden #2

Pro-Stim Chemicals  
Troy Pelton

Report Date: 12-26-2019      Sampled: 12-19-2019 at 1644  
Sample #: 7256                      Sample ID: WBaten

**CATIONS**

Calcium (as Ca)	11200
Magnesium (as Mg)	1944
Barium (as Ba)	75.00
Strontium (as Sr)	0.00
Sodium (as Na)	81332
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)	15.00
Manganese (as Mn)	0.130
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

**ANIONS**

Chloride (as Cl)	152950
Sulfate (as SO <sub>4</sub> )	250.00
Bromine (as Br)	0.00
Dissolved CO <sub>2</sub> (as CO <sub>2</sub> )	150.00
Bicarbonate (as HCO <sub>3</sub> )	122.00
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)	0.00
Fluoride (as F)	0.00
Nitrate (as NO <sub>3</sub> )	0.00
Boron (as B)	0.00

**PARAMETERS**

Calculated T.D.S.	233108
Molar Conductivity	447666
Resistivity	2.23
Sp.Gr.(g/mL)	1.15
Pressure(psia)	14.70
pCO <sub>2</sub> (psia)	0.0268
pH <sub>2</sub> S(atm)	0.00
Temperature (°F)	66.00
pH	6.24

**CORROSION RATE PREDICTION**

CO <sub>2</sub> - H <sub>2</sub> S Rate(mpy)	0.100
--	-------

**COMMENTS** All anions and cations are in mg/l

**SGB Solutions**  
**5918 S County Road 1273, Midland, TX 79706**



**DownHole SAT®**  
**FORMATION WATER**  
**DEPOSITION POTENTIAL INDICATORS**

Mull Drilling  
Bouziden #2

Pro-Stim Chemicals  
Troy Pelton

Report Date: 12-26-2019  
Sample #: 7256

Sampled: 12-19-2019 at 1644  
Sample ID: WBaten

**SATURATION LEVEL**

Calcite (CaCO <sub>3</sub> )	0.570
Aragonite (CaCO <sub>3</sub> )	0.543
Witherite (BaCO <sub>3</sub> )	< 0.001
Strontianite (SrCO <sub>3</sub> )	0.00
Calcium oxalate (CaC <sub>2</sub> O <sub>4</sub> )	0.00
Magnesite (MgCO <sub>3</sub> )	0.116
Anhydrite (CaSO <sub>4</sub> )	0.160
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	0.202
Barite (BaSO <sub>4</sub> )	26.88
Celestite (SrSO <sub>4</sub> )	0.00
Fluorite (CaF <sub>2</sub> )	0.00
Calcium phosphate	0.00
Hydroxyapatite	0.00
Silica (SiO <sub>2</sub> )	0.00
Brucite (Mg(OH) <sub>2</sub> )	< 0.001
Magnesium silicate	0.00
Iron hydroxide (Fe(OH) <sub>3</sub> )	0.303
Strengite (FePO <sub>4</sub> *2H <sub>2</sub> O)	0.00
Siderite (FeCO <sub>3</sub> )	0.256
Halite (NaCl)	0.302
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	< 0.001
Iron sulfide (FeS)	0.00

**FREE ION MOMENTARY EXCESS (ppm)**

Calcite (CaCO <sub>3</sub> )	-0.00722
Aragonite (CaCO <sub>3</sub> )	-0.00807
Witherite (BaCO <sub>3</sub> )	-42.17
Strontianite (SrCO <sub>3</sub> )	-25.96
Calcium oxalate (CaC <sub>2</sub> O <sub>4</sub> )	-0.00765
Magnesite (MgCO <sub>3</sub> )	-0.0614
Anhydrite (CaSO <sub>4</sub> )	-323.22
Gypsum (CaSO <sub>4</sub> *2H <sub>2</sub> O)	-277.19
Barite (BaSO <sub>4</sub> )	92.39
Celestite (SrSO <sub>4</sub> )	-868.89
Fluorite (CaF <sub>2</sub> )	-4.65
Calcium phosphate	>-0.001
Hydroxyapatite	-663.75
Silica (SiO <sub>2</sub> )	-67.45
Brucite (Mg(OH) <sub>2</sub> )	< 0.001
Magnesium silicate	-225.82
Iron hydroxide (Fe(OH) <sub>3</sub> )	< 0.001
Strengite (FePO <sub>4</sub> *2H <sub>2</sub> O)	>-0.001
Siderite (FeCO <sub>3</sub> )	-0.0321
Halite (NaCl)	-174342
Thenardite (Na <sub>2</sub> SO <sub>4</sub> )	-251514
Iron sulfide (FeS)	-1.33

**SIMPLE INDICES**

Langelier	0.572
Ryznar	5.10
Puckorius	4.03
Larson-Skold Index	2425
Stiff Davis Index	0.541
Odde-Tomson	-0.506

**BOUND IONS**

TOTAL	FREE
Calcium	11200
Barium	75.00
Carbonate	2.71
Phosphate	0.00
Sulfate	250.00

**OPERATING CONDITIONS**

Temperature (°F)	66.00
Time(mins)	3.00



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



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

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

Laura Kelly, Governor

June 1, 2022

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

RE: Approved Commingling CO052202  
Bouziden Unit 2-10  
API No. 15-025-21604-00-02

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 Pawnee 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