

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

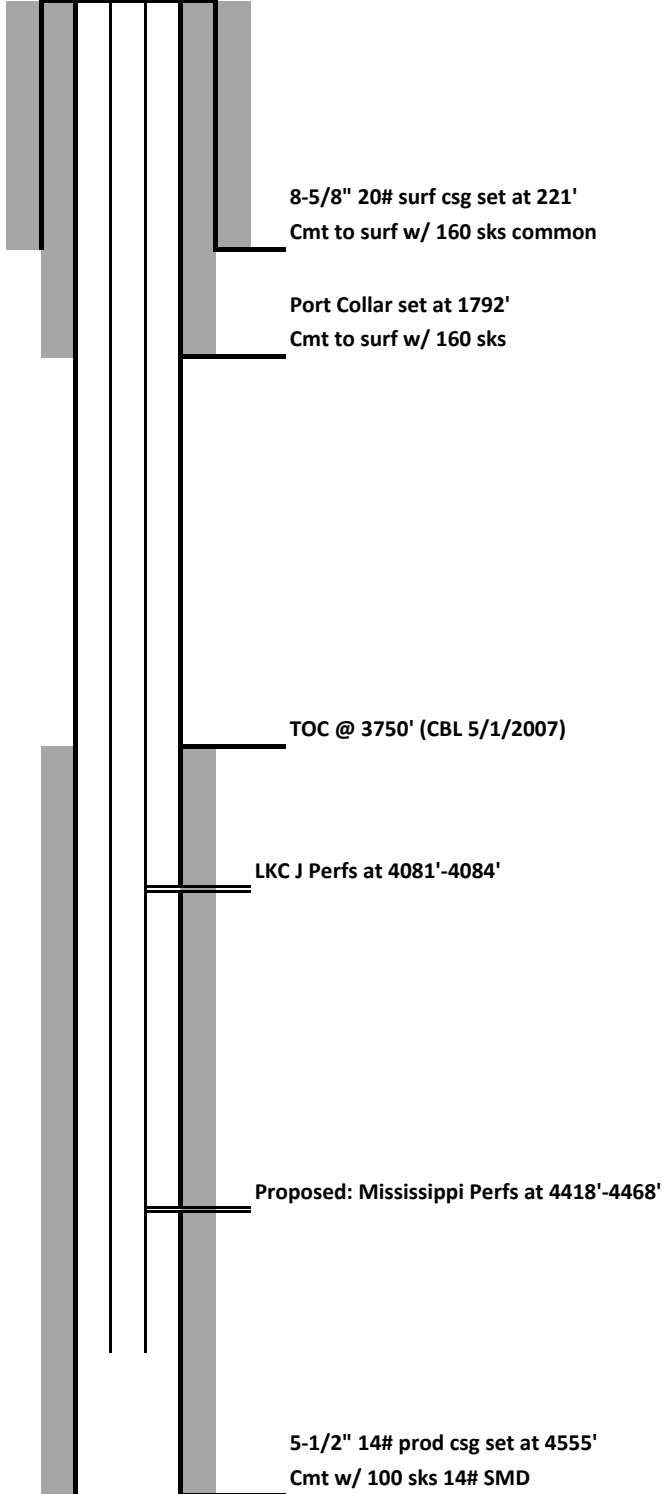
KCC Office Use Only
 Denied Approved
15-Day Periods Ends: _____
Approved By: _____ Date: _____

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.

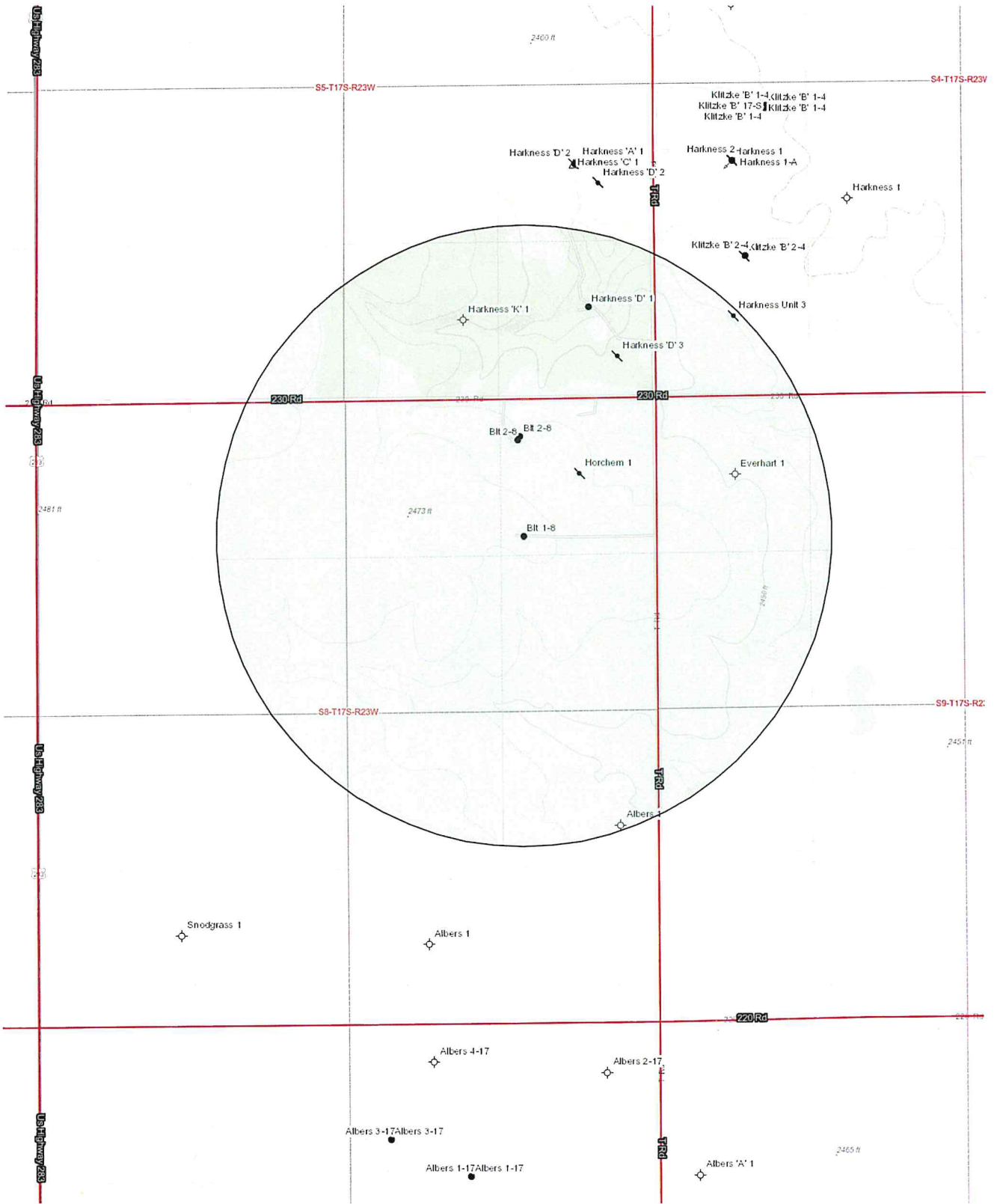


DRILLING COMPANY, INC.
WICHITA, KANSAS

Proposed Wellbore Configuration



Date:	<u>3/30/2022</u>
Well Name:	<u>BLT #1-8</u>
Location:	<u>1168' FNL & 1125' FEL</u>
	<u>Section 8-T17S-R23W</u>
County:	<u>Ness</u>
State:	<u>Kansas</u>
API:	<u>15-135-24611</u>
KB:	<u>2473</u>
GL:	<u>2468</u>
Spud Date:	<u>4/16/2007</u>





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.
BLT #1-8
NE/4 NE/4 Section 8-17S-23W
Ness County, Kansas
API No. 15-135-24611-00**

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

Section 4: SW/4	Gwendolyn Klitzke 514 W 33 rd Street Hays, KS 67601
Section 5: SE/4	Murfin Drilling Co., Inc. 250 N Water Street, STE 300 Wichita, KS 67202
Section 5: SE/4 Section 8: NW/4	LaVonne Kay Horchem Revocable Living Trust 506 Borth Street Ness City, KS 67560
Section 8: NE/4	Mull Drilling Company, Inc. 1700 N Waterfront Pkwy, Bldg. 1200 Wichita, KS 67206
Section 8: SW/4	Mike & Ginger Fritzler 11497 R Road Ness City, KS 67560
Section 8: SE/4 Section 9: W/2	David Lyl Albers 30077 240 Road Brownell, KS 67521 Randy Albers Supplemental Needs Trust 301 Avila CT Winter Springs, FL 32705 Reni-Jo Potter-Woods 301 Avila CT Winter Springs, FL 32705 Steven Lane Albers 14931 E 63 rd Street S Derby, KS 67037

Mull Drilling Company, Inc's BLT #1-8
NE/4 NE/4 Section 8-17S-23W
Ness County, Kansas
Page 2

A copy of the ACO-4 was mailed to the above listed companies/individuals on April 20, 2022.

Signed this 20th day of April, 2022.

MULL DRILLING COMPANY, INC.



Risa O'Bryhim
Production Technician

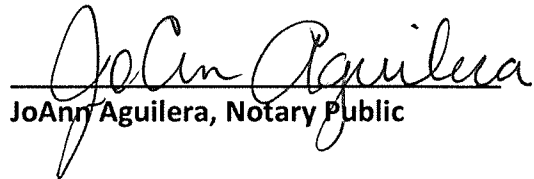
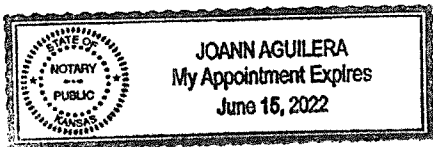
STATE OF KANSAS

ACKNOWLEDGEMENT FOR INDIVIDUAL

COUNTY OF SEDGWICK

Before me, the undersigned, a Notary Public, within and for said county and state, on this 20th 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	251641	Print Legal Ad - IPL0069877		\$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
 BLT #1-8, located in Ness 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 "J" and Mis-
 sissippi formations on the BLT #1-8,
 located NE/4 NE/4 8-17S-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 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
 316-264-8366
 IPL0069877
 Apr 22 2022

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

No. of Insertions: 1
 Beginning Issue of: 04/22/2022
 Ending Issue of: 04/22/2022

STATE OF KANSAS)

SS

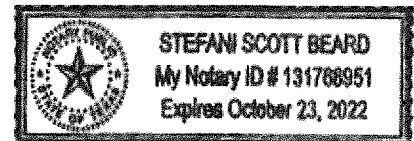
County of Sedgwick)

Hayley Martin, of lawful age, being first duly sworn,
 depose 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 04/22/2022
 to 04/22/2022.

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

DATED: 04/22/2022

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!



DownHole SAT®
FORMATION WATER CHEMISTRY INPUT

Mull Drilling
BLT 1-8
Wellhead

Pro-Stim Chemicals
Troy Pelton

Report Date: 09-14-2019 Sampled: 09-04-2019 at 1604
Sample #: 6694 Sample ID: WBaten

CATIONS

Calcium (as Ca)	3120
Magnesium (as Mg)	2721
Barium (as Ba)	2.00
Strontium (as Sr)	0.00
Sodium (as Na)	52368
Potassium (as K)	0.00
Lithium (as Li)	0.00
Ammonia (as NH ₃)	0.00
Aluminum (as Al)	0.00
Iron (as Fe)	32.00
Manganese (as Mn)	0.800
Zinc (as Zn)	0.00
Lead (as Pb)	0.00

ANIONS

Chloride (as Cl)	94100
Sulfate (as SO ₄)	910.00
Bromine (as Br)	0.00
Dissolved CO ₂ (as CO ₂)	95.00
Bicarbonate (as HCO ₃)	128.00
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.	148910
Molar Conductivity	232520
Resistivity	4.30
Sp.Gr.(g/mL)	1.09
Pressure(psia)	14.70
pCO ₂ (psia)	0.0197
pH ₂ S(atm)	0.00
Temperature (°F)	73.00
pH	6.50

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.00797
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COMMENTS All anions & cations are in mg/l

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



DownHole SAT®
FORMATION WATER
DEPOSITION POTENTIAL INDICATORS

Mull Drilling
 BLT 1-8
 Wellhead

Pro-Stim Chemicals
 Troy Pelton

Report Date: 09-14-2019 Sampled: 09-04-2019 at 1604
 Sample #: 6694 Sample ID: WBatn

SATURATION LEVEL

Calcite (CaCO ₃)	0.404
Aragonite (CaCO ₃)	0.377
Witherite (BaCO ₃)	< 0.001
Strontianite (SrCO ₃)	0.00
Calcium oxalate (CaC ₂ O ₄)	0.00
Magnesite (MgCO ₃)	0.373
Anhydrite (CaSO ₄)	0.207
Gypsum (CaSO ₄ *2H ₂ O)	0.289
Barite (BaSO ₄)	5.84
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)	3.28
Strengite (FePO ₄ *2H ₂ O)	0.00
Siderite (FeCO ₃)	2.96
Halite (NaCl)	0.0862
Thenardite (Na ₂ SO ₄)	< 0.001
Iron sulfide (FeS)	0.00

FREE ION MOMENTARY EXCESS (ppm)

Calcite (CaCO ₃)	-0.0606
Aragonite (CaCO ₃)	-0.0679
Witherite (BaCO ₃)	-73.48
Strontianite (SrCO ₃)	-24.19
Calcium oxalate (CaC ₂ O ₄)	-0.0498
Magnesite (MgCO ₃)	-0.0583
Anhydrite (CaSO ₄)	-1379
Gypsum (CaSO ₄ *2H ₂ O)	-1042
Barite (BaSO ₄)	2.81
Celestite (SrSO ₄)	-532.83
Fluorite (CaF ₂)	-12.30
Calcium phosphate	>-0.001
Hydroxyapatite	-889.48
Silica (SiO ₂)	-88.41
Brucite (Mg(OH) ₂)	0.00243
Magnesium silicate	-274.36
Iron hydroxide (Fe(OH) ₃)	< 0.001
Strengite (FePO ₄ *2H ₂ O)	>-0.001
Siderite (FeCO ₃)	0.0315
Halite (NaCl)	-334613
Thenardite (Na ₂ SO ₄)	-238155
Iron sulfide (FeS)	-0.392

SIMPLE INDICES

Langelier	0.0984
Ryznar	6.30
Puckorius	5.40
Larson-Skold Index	1363
Stiff Davis Index	-0.358
Oddo-Tomson	-1.05

BOUND IONS

Calcium	3120
Barium	2.00
Carbonate	2.42
Phosphate	0.00
Sulfate	910.00

TOTAL

FREE

3041
2.00
0.0247
0.00
298.05

OPERATING CONDITIONS

Temperature (°F)	73.00
Time(mins)	3.00

First published in the Ness County News, Thursday, April 28, 2022. -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 BLT #1-8, 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 BLT #1-8, located NE/4 NE/4 8-17S-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.

STATE OF KANSAS, COUNTY OF NESS, ss:

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 published 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 28th day of April, 2022, with subsequent publications being made on the following dates:

_____, 20____, _____, 20____
_____, 20____, _____, 20____

Jerry Clarke, Jerry Clarke, editor

Subscribed and sworn to before me this 28th day of April, 2022



Janice Pfanenstiel
Janice Pfanenstiel, Notary Public.

Publication Fee _____ \$ 44.20
Additional Copies @ ____10____ \$ _____
Total Publication Fees _____ \$ 44.20

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.

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

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

Judge Twenty-fourth Judicial District.

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

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 CO052205
BLT 1-8
API No. 15-135-24611-00-00

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 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