KOLAR Document ID: 1636898

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)

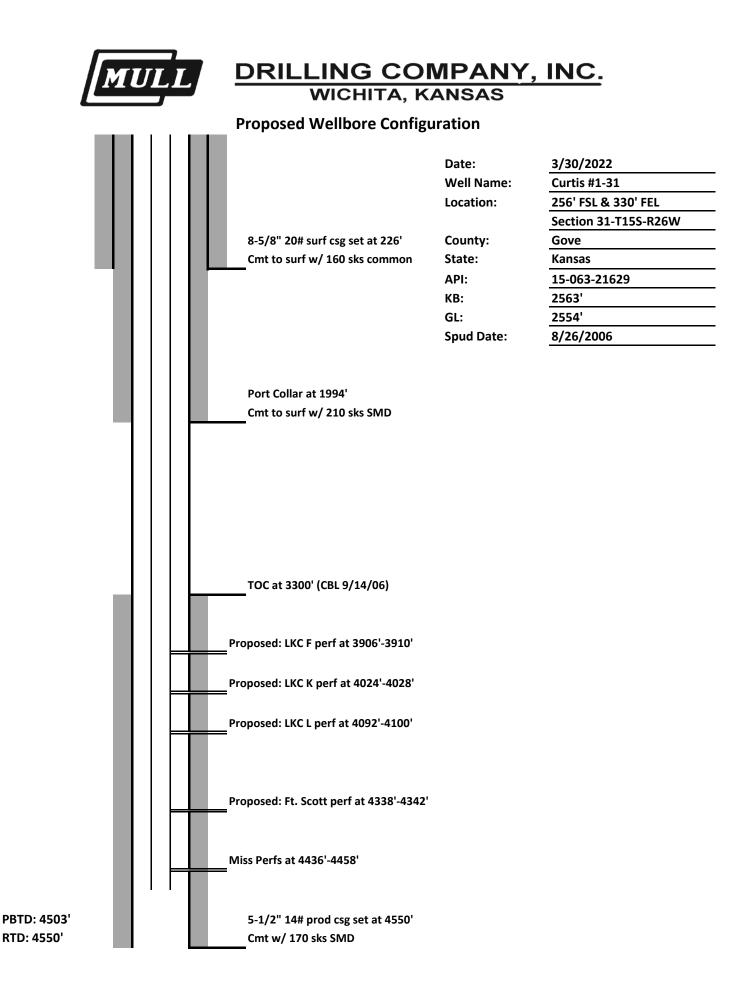
OPERATOR: License #		API No. 15			
Name:_					
Address	1:		_ Sec Twp	S. R East West	
Address	2:		Feet from No	rth / South Line of Section	
City:	State: Zip:+		Feet from 🗌 Ea	st / West Line of Section	
	Person:				
Phone:	()	-		l #:	
1.	Name and upper and lower limit of each production interval to	be commingled.			
L	Formation:	0			
	Formation:				
	Formation:	(, , , , , , , , , , , , , , , , , , ,			
	Formation:				
	Formation:	(Pens).			
2.	Estimated amount of fluid production to be commingled from e	each interval:			
	Formation:	BOPD:	MCFPD:	BWPD:	
	Formation:	BOPD:	MCFPD:	BWPD:	
	Formation:	BOPD:	MCFPD:	BWPD:	
	Formation:	BOPD:	MCFPD:	BWPD:	
	Formation:	BOPD:	MCFPD:	BWPD:	
3.4.	Plat map showing the location of the subject well, all other we the subject well, and for each well the names and addresses of Signed certificate showing service of the application and affide	of the lessee of record or ope	erator.	ses within a 1/2 mile radius of	
For Con	nmingling 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	t well.			
For Con	nmingling of FLUIDS ONLY, include the following:				
7.	Well construction diagram of subject well.				
8.	Any available water chemistry data demonstrating the compat	tibility of the fluids to be com	mingled.		
current in mingling	/IT: I am the affiant and hereby certify that to the best of my nformation, knowledge and personal belief, this request for comis true and proper and I have no information or knowledge, which istent with the information supplied in this application.	. Si	ubmitted Electron	ically	
ксс	Coffice Use Only	Protests may be filed by an	y party having a valid interest	t in the application. Protests must be	

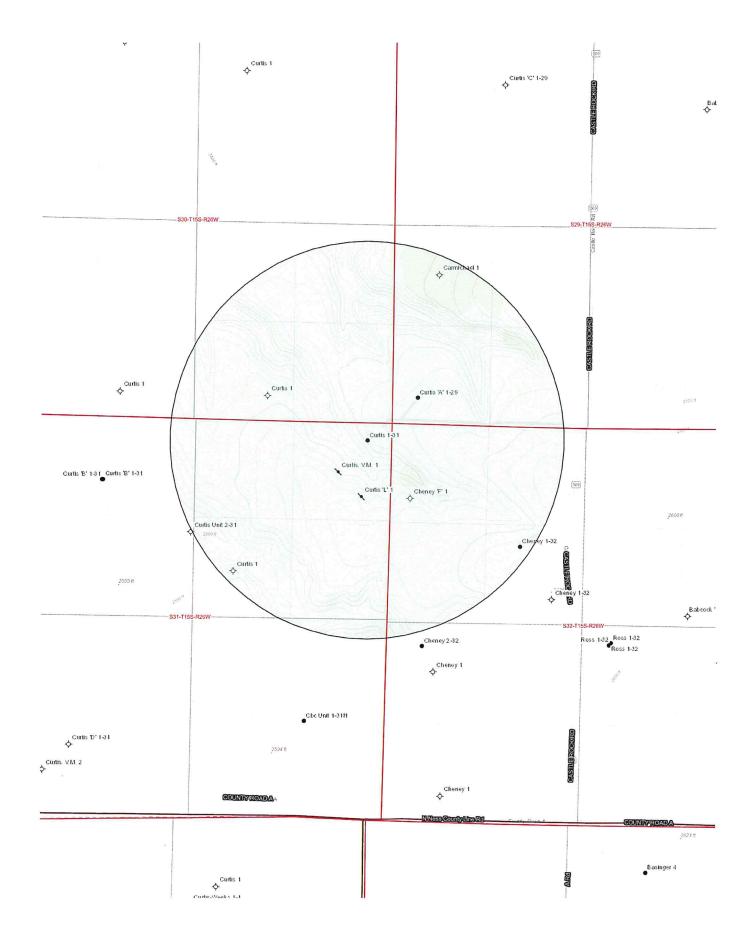
Date: _

Denied Approved 15-Day Periods Ends:

Approved By:

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 wihin 15 days of publication of the notice of application.





DRILLING COMPANY	WICHITA, KANSAS

NC.

APPLICATION FOR COMMINGLING OF PRODUCTION ATTACHMENT TO ACO-4

Signed Certificate of Notice to Offset Operators and Unleased Mineral Holders Mull Drilling Company, Inc. Curtis #1-31

NE/4 NE/4 Section 31-15S-26W API No. 15-063-21629-00-00 Gove County, Kansas

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

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

Wichita, KS 67206

Section 31: N/2 & SE/4 Section 29: SW/4 Section 30: SE/4 Section 32: W/2

Section 30: SW/4

Robert & Karilyn Kay Curtis 228 S Kansas Avenue Ransom, KS 67572

Lisa M. & Randy L. Jacobs Scott City, KS 67871 108 Inca Lane

Steffens Family 2013 Trust 555 W Belford Road Imperial, CA 92251 Copy of the ACO-4 was mailed to the above listed companies/individuals on April 25, 2022.

Signed this 25th day of April, 2022.

MULL DRILLING COMPANY, INC.

MNNM Olle Risa O'Bryhim 10U

Production Technician

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 25th day of Inc., to me personally known to be the identical person who executed the within and foregoing 2022, personally appeared Risa O'Bryhim, Production Technician of Mull Drilling Company, 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. April,

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



My commission expires:

mt Public) loAnn Aguilera, Notary)



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	253639	Print Legal Ad - IPL0070482		\$293.50	1	50 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. – Ap-plication for order to permit commingling of production of the Curtis #1-31, located in Gove 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 com-mingle production of the LKC, Ft. Scott, and Mississippi formations on the Curtis #1-31, located NE/4 NE/4 31-15S-26W, Gove 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 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 IPL0070482 Apr 27 2022

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

SS

No. of Insertions: 1

Beginning Issue of: 04/27/2022

Ending Issue of: 04/27/2022

STATE OF KANSAS)

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 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 04/27/2022 to 04/27/2022.

M. Hayley

I certify (or declare) under penalty of perjury that the foregoing is true and correct. DATED: 04/27/2022

Stefani Beard

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



STEFANI SCOTT BEARD My Notary ID # 131768951 Expires October 23, 2022

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

AFFIDAVIT OF PUBLICATION State of Kansas, Gove County, ss: Frank Mercer

being first duly sworn, deposes and says: That <u>he</u> is **Publisher** of

Gove County Advocate, a weekly newspaper printed in the State of Kansas, and published in and of general circulation in Gove County, Kansas, with a general paid circulation on a weekly basis in Gove 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; and 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 in Quinter in said county as periodical 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 <u> fim_{π} </u> consecutive week(s), the first publication thereof being made as aforesaid on the <u>2744</u> day of <u>14271</u> day

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Printer's Fee\$ 39.0	<u>.</u> D
Additional Copies\$	
•	
Affidavit Fees\$ 223)
Tota Publication Fees .\$ 4/1.2	<u>15</u>
Subscribed and sworn to before	
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Kuhell Men	Kelle WEN
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My commission expires	
(Ulg 3-2011	-My Annt Exp.
	\$320ZY
	A A CONTRACTOR
***	FOF KAN SHIN
	ADD CONTRACTOR

(Published in the Gove County Advocate, Quinter, KS, Wed., April 27, 2022 - 1t) Mull Drilling Company, Inc.

Wichita, KS BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICATION

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Mull Drilling Company, Inc. 1700 N. Waterfront Parkway, Building 1200

Wichita, KS 67206 316-264-6366



DownHole SAT(tm)

FORMATION WATER CHEMISTRY INPUT

	Mull Drilling Curtis 1-31 Wellhead		Pro-Stim Chemicals Troy Pelton	
	Report Date: Sample #:	06-07-2018 4202	Sampled: 05-16-2018 at 1644 Sample ID: WBaten	
CATIONS			ANIONS	
Calcium (as Ca)		1680	Chloride (as Cl)	20400
Magnesium (as Mg)		267.00	Sulfate (as SO ₄)	2600
Barium (as Ba)		0.00	Bromine (as Br)	0.00
Strontium (as Sr)		0.00	Dissolved CO ₂ (as CO ₂)	210.00
Sodium (as Na)		11888	Bicarbonate (as HCO ₃)	420.00
Potassium (as K)		0.00	Carbonate (as CO ₃)	0.00
Lithium (as Li)		0.00	Oxalic acid (as C ₂ O ₄)	0.00
Ammonia (as NH ₃)		0.00	Silica (as SiO ₂)	0.00
Aluminum (as Al)		0.00	Phosphate(as PO ₄)	0.00
Iron (as Fe)		35.00	H_2S (as H_2S)	50.00
Manganese (as Mn)		0.280	Fluoride (as F)	0.00
Zinc (as Zn)		0.00	Nitrate (as NO ₃)	0.00
Lead (as Pb)		0.00	Boron (as B)	0.00

PARAMETERS

Calculated T.D.S.	37125
Molar Conductivity	47813
Resistivity	20.91
Sp.Gr.(g/mL)	1.02
Pressure(psia)	14.70
pCO ₂ (psia)	0.0291
pH ₂ S(atm)	0.00851
Temperature (^O F)	70.00
pН	6.99

CORROSION RATE PREDICTION

CO ₂ - H ₂ S Rate(mpy)	0.00568
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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 Curtis 1-31 Wellhead		Pro-Stim Ch Troy Pelton	emicals		
	Report Date: Sample #:	06-07-2018 4202	Sampled: Sample ID:	05-16-2018 a WBaten	at 1644	
SATURATION LEVEL			FREE ION M	OMENTARY	EXCESS (pp	m)
Calcite (CaCO ₃)		3.00	Calcite (CaCO		A FF	0.477
Aragonite (CaCO ₃)		2.82	Aragonite (Ca	U .		0.462
Witherite (BaCO ₃)		0.00	Witherite (Ba	-		-49.46
Strontianite (SrCO ₃)		0.00	Strontianite (S			-15.98
Calcium oxalate (CaC ₂ O	4)	0.00	Calcium oxala	•		-0.113
Magnesite (MgCO ₃)	י ר	0.392	Magnesite (M			-0.935
Anhydrite (CaSO ₄)		0.645	Anhydrite (Ca			-787.80
Gypsum (CaSO ₄ *2H ₂ O)		1.06	Gypsum (CaS	•		103.59
Barite (BaSO ₄)		0.00	Barite (BaSO4	• • •		-0.0344
Celestite (SrSO ₄)		0.00	Celestite (SrS			-65.73
Fluorite (CaF ₂)		0.00	Fluorite (CaF			-19.40
Calcium phosphate		0.00	Calcium phos	-		>-0.001
Hydroxyapatite		0.00	Hydroxyapatit			-926.02
Silica (SiO ₂)		0.00	Silica (SiO ₂)			-103.56
Brucite (Mg(OH) ₂)		< 0.001	Brucite (Mg(O	H)2)		0.00623
Magnesium silicate		0.00	Magnesium si			-286.62
Iron hydroxide (Fe(OH)	3)	< 0.001	Iron hydroxid	e (Fe(OH)3)		< 0.001
Strengite (FePO ₄ *2H ₂ O)	0.00	Strengite (FeF	-		>-0.001
Siderite (FeCO ₃)		96.47	Siderite (FeCC)3)		0.820
Halite (NaCl)		0.00355	Halite (NaCl)			-498426
Thenardite (Na2SO ₄)		< 0.001	Thenardite (N	a2SO4)		-186537
Iron sulfide (FeS)		498.03	Iron sulfide (F	eS)		11.32
SIMPLE INDICES			BOUND ION	s	TOTAL	FREE
Langelier		0.661	Calcium		1680	1431
Ryznar		5.67	Barium		0.00	0.00
Puckorius		4.43	Carbonate		3.14	0.429
Larson-Skold Index		92.98	Phosphate		0.00	0.00
Stiff Davis Index		0.109	Sulfate		2600	1659
Oddo-Tomson		-0.0168				
		OPERATING	CONDITIONS			
	Temperatu	ıre (⁰ F)		70.00		
	/ ·	`		0.00		

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

3.00

Time(mins)

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

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



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

Laura Kelly, Governor

June 1, 2022

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

RE: Approved Commingling CO052203 Curtis 1-31 API No. 15-063-21629-00-00

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