KOLAR Document ID: 1542321

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)

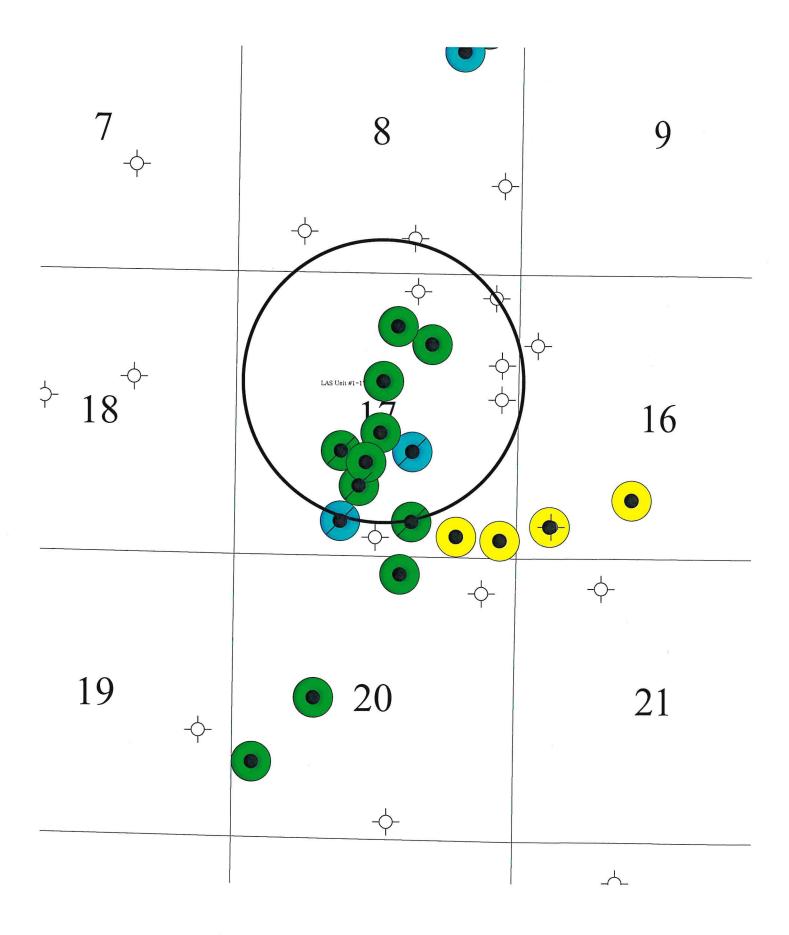
OPERATOR: License #		API No. 15					
		City:		_	Feet from East /	West Line of Section	
Contact	Person:	_ County:					
Phone:	()	Lease Name:	Well #:				
1.	Name and upper and lower limit of each production interval to be	commingled:					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation:	(Perfs):					
	Formation: Formation: Formation: Formation:	BOPD: BOPD:	MCFPD:	BWPD:			
□ 3.	Plat map showing the location of the subject well, all other wells o the subject well, and for each well the names and addresses of th	•	· ·	thin a 1/2 mile radius of			
4.	Signed certificate showing service of the application and affidavit	of publication as required i	n K.A.R. 82-3-135a.				
For Cor	mmingling of PRODUCTION ONLY, include the following:						
<u> </u>	Wireline log of subject well. Previously Filed with ACO-1:	No No					
<u> </u>	Complete Form ACO-1 (Well Completion form) for the subject well	I.					
For Cor	mmingling of FLUIDS ONLY, include the following:						
7.	Well construction diagram of subject well.						
8.	Any available water chemistry data demonstrating the compatibilit	y of the fluids to be commi	ngled.				
AFFIDA	VIT: I am the affiant and hereby certify that to the best of my						

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 wihin 15 days of publication of the notice of application.



LAS UNIT #1-17



ATTACHMENT TO ACO-4 APPLICATION FOR COMMINGLING OF PRODUCTION

Signed Certificate of Notice to Offset Operators and Unleased Mineral Holders

Mull Drilling Company, Inc.

LAS Unit #1-17

SW/4 NE/4 Section 17-17S-23W

Ness County, Kansas

API No. 15-135-24722-00-01

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

Section 8: SW/4 Larry & Melba Snodgrass

21554 State HWY 4 Ransom, KS 67572

Earl Kay Snodgrass 9224 W Westport Street Wichita, KS 67212

Lonnie Lang 133 3rd Street

Wakeeney, KS 67672

Moe Lang 1064 CR 360

Pawnee Rock, KS 67567

Gary D. Lang 420 S Seventh

Wakeeney, KS 67672

Section 8: SW/4 & Section 16: N/2 David L. Albers; Wilber Albers Trust:

Randy Lynn Albers Suplemental Trust

30077 240 Road Brownell, KS 67521

Reni Jo Potter-Wood

13800 Plymouth Crossing Drive

Edmond, OK 73013

Steven L. Albers 14931 E 63rd Street S Derby, KS 67037 Mull Drilling Company, Inc's LAS Unit #1-17 SW/4 NE/4 Section 17-17S-23W Ness County, Kansas Page 2

Section 17: All

Mull Drilling Company, Inc.

Copy of the ACO-4 was mailed to the above listed companies/individuals on January 14, 2021.

Signed this 14th day of January, 2021.

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 14th day of January, 2021, 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.

Tannis L. Tritt, Notary Public

My commission expires:

TANNIS L. TRITT

My Appointment Expires

March 26, 2023

First published in the Ness County News, Thursday, January 21, 2021.

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 LAS Unit #1-17, located in Ness 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 Mississippi formations on the LAS Unit #1-17, located SW/4 NE/4 17-17S-23W, Ness County, Kansas.

Any persons who object to or protest this application shall be required to file theirobjections 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.

Parkway, Building 1200 Wichita, KS 67206 316-264-6366

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.

the first publication thereof by January			
on the following dates:			
	, 20		, 20
	_, 20		, 20
Anti-Million 1971 1971 1971 1971 1971 1971 1971 197	, 20	XII	, 20
	- 17.	FCLL,	Jerry Clarke, editor
Subscribed and sworn to befo	ore me this $^{1}21\mathrm{s}^{1}$	t [∜] day of Janu	ary , 20 21
NOTARY PUBLIC - State JANICE PFANNE! My Appt Expires	NSTIEL 3 3 4	Janice Pfanneh	MMeMitul stiel, Notary Public.
Publication Fee	\$42	2.64	
Additional Copies @10_	\$		
Total Publication Fees	<u> </u>	2.64	
Filed this day of	Mattack Committee of the Committee of th	, 20	
Attached Proof Of Publication	approved this	day of	, 20
		Distric	ct Magistrate Judge
Filed this day of		, 20	
Filed this day of			of the District Court.
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		Clerk o	of the District Court. _, 20

The Wichita Eagle

330 N Mead St | Wichita, KS 67202 | 316-268-6000



AFFIDAVIT OF PUBLICATION

Account #	Ad Number	Identification					
453877	0004057740	255555	EV	Amount	Cols	Dooth	1
403077	0004857712	BEFORE THE STATE CORPORATION COMMIS	LAS Unit #1-17	\$241.80	1	4.00 In	ı
				42.1.00	•	4.00 In	ı

Attention: Risa O'Bryhim

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

BEFORE THE STATE CORPORATION COMMISSION OF THE STATE OF KANSAS NOTICE OF FILING APPLICATION Re: Mult Drilling Company, Inc. — Application for order to permit commingling of production of the LAS Unit #1-17, located in Ness County, Kansas.

To: All Oil & Gas Producers, Unleased Mineral Inleget Dynars, Landowners, and

Mineral Interest Owners, Landowners, and all persons whosoever concerned.

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 Mississippi formations on the LKS Unit #1-17, located SWW NE/4 17-175-23W, 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 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

Building 1200 Wichita, KS 67206 316-264-6366

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

Insertions

Beginning issue of:

01/22/2021

Ending issue of:

01/22/2021

STATE OF KANSAS)

.ss

County of Sedgwick)

VICTORIA RODELA, 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 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 1/22/2021 to 01/22/2021.

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

Signature of Principal Clerk

DATED: 1/22/2021

Notary Public Dallas County

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

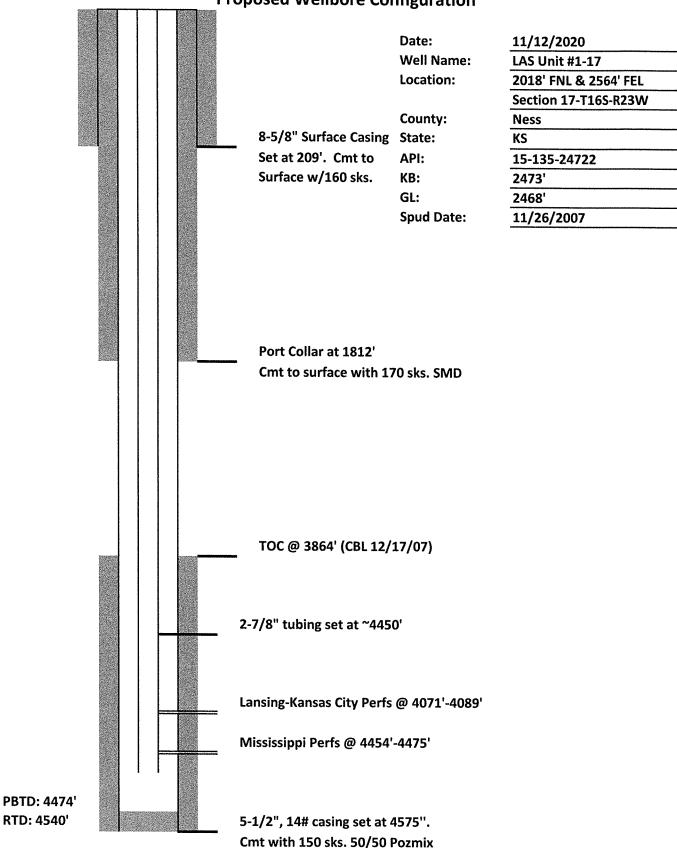




RTD: 4540'

DRILLING COMPANY, INC. WICHITA, KANSAS

Proposed Wellbore Configuration





DownHole SAT Rx

FORMATION WATER CHEMISTRY INPUT

Mull Drilling **Pro-Stim Chemicals**

LAS 1-17 Troy Pelton
Wellhead - Lansing-Kansas City Produced Water

Report Date:

01-24-2017

Sampled:

01-04-2017

Sample #:

1521

at 1644

ANIONS

CATIONS		ANIONS	
Calcium (as Ca)	6960	Chloride (as CI)	93750
Magnesium (as Mg)	1021	Sulfate (as SO ₄)	1200
Barium (as Ba)	0.00	Bromine (as Br)	0.00
Strontium (as Sr)	0.00	Dissolved CO ₂ (as CO ₂)	12.71
Sodium (as Na)	51105	Bicarbonate (as HCO ₃)	360.00
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)	66.00	H ₂ S (as H ₂ S)	20.37
Manganese (as Mn)	0.490	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.	150127
Molar Conductivity	228610
Resistivity	4.37
Sp.Gr.(g/mL)	1.10
Pressure(psia)	0.460
pCO ₂ (psia)	0.102
pH ₂ S(atm)	0.00342
Temperature (^O F)	71.00
рН	6.02

All anions & cations are in mg/l (CO2 in MEq/L)

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



Company: Mull Drilling Source: wellhead Number: 11731			Location: Date Sampled: Salesman: Attention:		L.A.S. #1-17 ~ M July 15, 2009 Randy Rodgers Dennis Pfeifer		ississippi Produced Water	
	ANALYSIS		mg/L		EQ. WT		MEQ/L	
2. 3. 4. 5. 6. 7. 8. 9.	pH Specific Gravity 60/60 Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen Hydroxyl (OH') Carbonate (CO ₃ ⁻²) Bicarbonate (HCO ₃ ⁻¹) Chloride (Cl') Sulfate (SO ₄ ⁻²)) F	6.79 1.027 ND ND ND 0 0 1 21,995 2,016	/ / / /	17.0 30.0 61.1 35.5 48.8 20.1	= = = = = = = = = = = = = = = = = = = =	0.00 0.00 0.02 619.58 41.31 46.81	
13. 14. 15. 16.	Magnesium (Mg ⁺²) Sodium (Na ⁺) Barium (Ba ⁺²) Total Iron (Fe) Manganese Strontium		484 13,212 ND 1.80 0.40 ND	1	12.2 23.0	=	39.65 574.45	
18.	Total Dissolved Solids	8	38,651					
	Resistivity @ 75 °F (c	•	0.21	/cm				
	@ 80 °F @ 100 °F @ 120 °F @ 140 °F @ 160 °F	-2.9639 -2.6139 -2.3639 -2.0239 -1.7139	COMPOUND Ca(HCO ₃) ₂ CaSO ₄		BABLE N . WT. 81.04 68.07	MNERA X	AL COMPOSI MEQ/L 0.02	= mg/L 2
21.	CaSO ₄ Supersaturation @ 70 °F	on Ratio 0.5609	CaCl ₂ Mg(HCO ₃) ₂		55.50 73.17		41.31 5.48 0.00	2,812 304 0

MgSO₄

MgCl₂

NaHCO₃

NaSO₄

NaCl

60.19

47.62

84.00

71.03

58.46

0.00

39.65

0.00

0.00

574.45

0

0

0

0

1,888

33,582

0.5587

0.5589

0.5625

0.5720

Ratio Greater than 1 indicates Scale

Zondra Pointer Analyst:

@ 90 °F

@ 110 °F

@ 130 °F

@ 150 °F

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



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

Laura Kelly, Governor

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

February 9, 2021

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

RE: Approved Commingling CO022101

LAS Unit 2-17

API No. 15-135-24722-0001

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).

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

Sincerely,

Rick Hestermann Production Department