

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1160045

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 TwpS.	R East West		
Address 2:			Feet from North /	South Line of Section		
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 co	mmingled:				
	Formation:	•	s):			
	Formation:	•	s):			
	Formation:	,	s):			
	Formation:	(Perfs	;):			
	Formation:	•	s):			
2.	Estimated amount of fluid production to be commingled from each in	nterval:				
	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 well, and for each well the proper and addresses of the latest well and for each well the proper and addresses of the latest well and for each well the proper and addresses of the latest well and for each well the proper and addresses of the latest well and the subject well.	•	•	rithin a 1/2 mile radius of		
	the subject well, and for each well the names and addresses of the I					
4.	Signed certificate showing service of the application and affidavit of	publication as requi	red in K.A.R. 82-3-135a.			
For Cor	nmingling of PRODUCTION ONLY, include the following:					
<u> </u>	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 Cor	mmingling of FLUIDS ONLY, include the following:					
7.	Well construction diagram of subject well.					
8.	Any available water chemistry data demonstrating the compatibility of	of the fluids to be co	ommingled.			
current i mingling	VIT: I am the affiant and hereby certify that to the best of my information, knowledge and personal belief, this request for complist rue and proper and I have no information or knowledge, which is sistent with the information supplied in this application.	\$	Submitted Electronica	lly		

KCC Office Use Only

Denied Approved

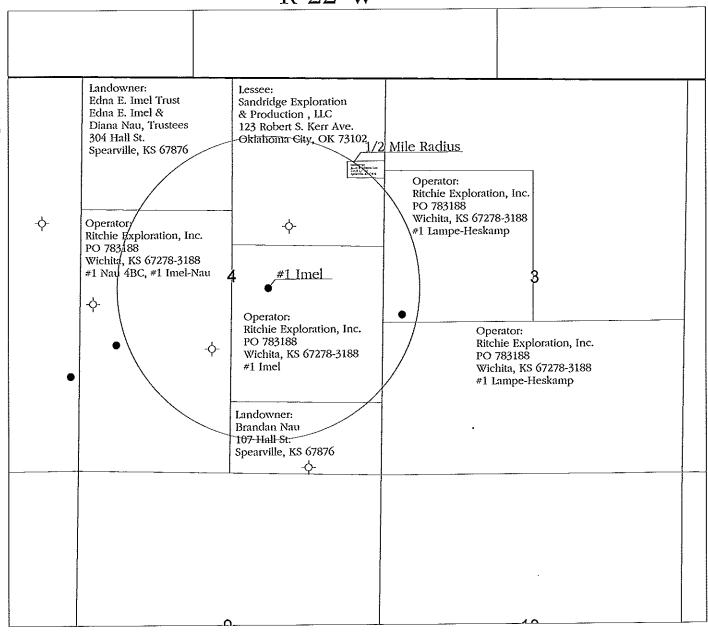
15-Day Periods Ends:

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.

T 26 S





Oil Well

- Dry and Abandoned Well



Application for Commingling of Production or Fluids

Applicant Well: #1 Imel
All Wells on Offsetting Leases within ½ Mile Radius
Name and Address of Lessee of Record or Operator
On Offsetting Leases

Ford County, Kansas						
Prepared By: Justin Clegg	Scale: 1:20,000	Date: August 22, 2013				
 						

APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

Operator, Lessee or Unleased Mineral Owner within a ½ mile radius of Ritchie Exploration, Inc.'s

#1 Imel 3217' FSL & 2000' FEL Section 4-26S-22W Ford Co., KS

Township 26 South, Range 22 West

Operator: #1 Lampe-Heskamp Sec. 3: S. 40 ac. of Lt 3; Ritchie Exploration, Inc.

S. 40 ac. of Lt 4; P.O. Box 783188 S/2NW/4 Wichita, KS 67278-3188

S/2Operator: #1 Lampe-Heskamp Ritchie Exploration, Inc.

Sec. 4: N. 140 ac. of W/2 Edna E. Imel Trust, u/a 5/2/2013 Landowner

Edna E. Imel & Diana Nau, Trustees

304 Hall St.

Spearville, KS 67876

Spearville, KS 67876

S. 280 ac. of W/2 Operator: #1 Nau 4BC, Ritchie Exploration, Inc.

#1 Imel-Nau

Lots 1 & 2, except Sandridge Exploration & Production, LLC Lessee

123 Robert S. Kerr Ave. a 4.1 acre tract in NE/4 Oklahoma City, OK 73102

4.1 ac. tract in Jason & Rebecca Lutz Landowner

NE/4 10625 127 RD

Operator: #1 Imel S/2NE/4; N/2SE/4 Ritchie Exploration, Inc.

S/2SE/4

Landowner Brandan Nau 107 Hall St.

Spearville, KS 67876

AFFIDAVIT

STATE OF KANSAS)

- SS.

County of Sedgwick

)

John Niernberger, of lawful age, being first duly sworn, deposeth and saith: That he is Production Manager of Ritchie Exploration, County of Sedgwick, State of Kansas, and that notice was given to all lessee of record or operator within ½ mile radius of the Imel #1 well located in the County of Ford (see plat map attached). This notice included a letter and a copy of the Commingle Application (ACO-4). All notices were mailed on September 11, 2013.

NAREN HOPPER
RY PUBLIC-STATE OF KANSAS

made as aforesaid on the 11th of

September A.D. 2013

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

Subscribed and sworn to before me this

11th day of September 2013

Notary Public Sedgwick County, Kansa

AFFIDAVIT

STATE OF KANSAS

SS.

County of Sedgwick

Mark Fletchall, 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 for _1_ issues, that the first publication of said notice was

made as aforesaid on the 16th

September A.D. 2013, with

subsequent publications being made on the following dates:

And affiant further says that he has personal knowledge of the statements above set forth and that they are true.

Subscribed and sworn to before me this

16th day of September, 2013

JENNIFER RAE BAILEY Notary Public - State of Kansas My Appt. Explres

Notary Public Sedgwick County, Kansas

Printer's Fee : \$89.20

LEGAL PUBLICATION

PUBLISHED IN THE WICHITA EAGLE SEPTEMBER 16, 2013 (3265632)

LEGAL NOTICE

You, and each of you, are hereby notified that Ritchle Exploration, inc. has filed an application to commence the commingling of production from the Altamont, Cherokee, and Huck sources of supply for the #1 tmet well located approx. YM NW SE of Section 4-26S-22W, Ford 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, vlotate correlative rights or policie the natural resources of the state of Kansas. If no protests are received, this application may be granted through a summary proceeding. If yalid protests are received, this maller will be set for hearing.

valid protests are received, this matter was osel for hearing.

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

RITCHIE EXPLORATION, INC.

P.O. Box 783188 Wichita, KS 67278-3188 (316) 691-9500

Proof of Publication State of Kansas, Fo			
Dodge City Daily	Globe		
Ritchie Exploration PO Box 783188 Wichita, KS 6727			
	0.0716		11 1170
	Reference: 68716		nt: 114170
(Case No. #1 Imel Wel	l	
	ıl age, being duly swo DDGE CITY DAILY C		that he is the Circulation
			cy (50) times a year and publication of the attached
THAT said paper v publication;	vas entered as second-	çlass mail matter at	the post office of its
FORD COUNTY I		a trade, religious or	weekly, or yearly basis in fraternal publication and USAS.
THE ATTACHED	was published on the	following dates in a	regular issue of said paper
(Sign)			
PUBLISHED ON:	09/17/2013		
TOTAL COST:	\$ 33.80		
FILED ON:	09/17/2013		
AD SPACE:	6.5 inches		
Witness my hand t	hisday of	, 20	
SUBSCRIBED and	d Sworn to Before Me	This day of	, 20 .

Notary Public, Ford County, Kansas

(Published in the Dodge City Daily Globe Tuesday, September 17th, 2013) LEGAL NOTICE

You, and each of you, are hereby notified that Ritchie Exploration, Inc. has filed an application to commence the commingling of production from the Altamont, Cherokee, and Huck sources of supply for the #1 Imel well located approx. NW NW SE of Section 4-26S-22W, Ford 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 correla-tive rights or pollute the natural resources of the state of Kansas. If no protests are re-ceived, 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.

paper:

RITCHIE EXPLORATION, INC. P.O. Box 783188 Wichita, KS 67278-3188 (316) 691-9500 1xTues

KANSAS CORPORATION COMMISSION OIL & Gas Conservation Division

Form ACO-1 June 2009 Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License#4767	API No. 15 - 057-20756-00-00		
Name: Ritchle Exploration, Inc.	Spot Description: irregular section		
Address 1: P.O. Box 783188	Sec. 4 Twp. 26 S. R. 22 East W West		
Address 2:	3,217 Feet from North / South Line of Section		
City: Wichita State: KS Zip: 67278 + 3188	2,000 Feet from Fast / West Line of Section		
	Footages Calculated from Nearest Outside Section Corner:		
316 601-0500	□ NE □ NW ☑ SE □ SW		
	County: Ford		
CONTRACTOR: License #_ 30606 Name: Murfin Drilling Co., Inc.	Lease Name: Imel		
Wellsite Geologist: Adam Eldani	Field Name: Marmatan & Pana Paral Lima		
Purchaser: NCRA	Producing Formation: Marmaton & Penn Basal Lime		
Designate Type of Completion:	Elevation: Ground: 2399 Kelly Bushing: 2410		
✓ New Well	Total Depth: 5000 Plug Back Total Depth: 4956		
☑ oil ☐ wsw ☐ swd ☐ slow	Amount of Surface Pipe Set and Cemented at: 347 Feet		
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW	Multiple Stage Cementing Collar Used? ✓ Yes No		
☐ OG ☐ GSW ☐ Temp, Abd.	If yes, show depth set; Feet		
CM (Coal Bed Melhane)	If Alternate II completion, cement circulated from: 1460		
Cathodic Other (Core, Expl., etc.):	feet depth to: surface w/ 300 sx cmt.		
If Workover/Re-entry: Old Well Info as follows:			
Operator:	Dallia a Plaid Managament Dian		
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)		
Original Comp. Date: Original Total Depth:	Chloride content: 24400 ppm Fluid volume: 1000 bbls		
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD	• • • • • • • • • • • • • • • • • • • •		
Conv. to GSW	Dewalering method used: evaporation		
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:		
Commingled Permit#:	Operator Name:		
Dual Completion Permit #:	Lease Name: License #:		
SWD Permit #:	QuarterSec TwpS. R East West		
ENHR Permit #:	-		
GSW Permit #:	County: Permit #:		
10/12/11 10/22/11 10/22/11	•		
Spud Date or Date Reached TD Completion Date or Recompletion Date			
INSTRUCTIONS: An original and two copies of this form shall be filed with Kansas 67202, within 120 days of the spud date, recompletion, workover or confidential for a period of 12 months if requiality in excess of 12 months). One copy of all wireline logs and geologist we BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 for	onversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information uested in writing and submitted with the form (see rule 82-3-107 for confiden- Il report shall be attached with this form. ALL CEMENTING TICKETS MUST		
AFFIDAVIT	KCC Office Use ONLY		
I am the affiant and I hereby certify that all requirements of the statutes, rules and re	egu-		
lations promulgated to regulate the oil and gas industry have been fully complied	WILL		
and the statements herein are complete and correct to the best of my knowledg	Confidential Release Date:		
	☐ Wireline Log Received		
Signature:	Geologist Report Received		
Title: Production Manager Date: 1/30/12	UIC Distribution		

ALT I II III Approved by:____

Operator Name: R	itchie Exploration	, Inc.	Lease	Name:	lmel		Well #:1		
Sec. 4 Twp.26 S. R. 22 East 7 West			County	y: For	d				
time tool open and recovery, and flow r	closed, flowing and sh	and base of formations p aut-in pressures, whether lest, along with finel char al well site report.	r shut-in pres	sure re	ached static leve	i, hydrostatic	pressures, bottom	n hole temper	rafure, fluid
Drill Stem Tests Take	**	√ Yes No	· · · · · · ·		Log Formati	on (Top), Dej	pth and Datum	√ Sa	ımple
Samples Sent to Ge	ological Survey	✓ Yes No		Nan	ne		Тор	Da	itum
Cores Taken Electric Log Run Electric Log Submitt (If no, Submit Co)	-	☐ Yes ☑ No ☑ Yes ☐ No ☑ Yes ☐ No		SEE ATTACHED					
List Alf E. Logs Run: Dual Induction Compensated		ı Log							
		CASING Report all strings set	3 RECORD -conductor, su	√ N rface, Int		ion, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Welg Lbs./	ht	Setting Depth	Type o Cemer			d Percent itives
Surface	12-1/4	8-5/8	23		347	common	250	3%cc, 2%	6 gel
Production	7-7/8	4-1/2	10.5	<u>.</u>	5003	AA-2	200	10% sait, 6% Vi-6	O, Sä'sx gisonila
		ADDITIONA	L CEMENTIN	IG/SQI	JEEZE RECORD			<u> </u>	
Purpose; —— Perforate —— Protect Casing —— Plug Back TD	Depth Top Bottom	Type of Cement	#Sacks	Used		Туре	and Percent Additives	3	
Plug Off Zone									
Shots Per Foot		ON RECORD - Bridge Plug Footage of Each Interval Per			Acid, Frac	dure, Shot, Ce	ement Squeeze Recor	rd	Depth
4	4793'-4801',4837'-4847',483	1'-4834',4821'-4826',4816.5'-4819.	5',4809.5'-4814.5'	(11/18/11)	2500 gállons	15% NE			
4 4675.5' - 4682.5' (11.		(11/18/11)	/18/11)		500 gallons 15% NE				
			 .						
TUBING RECORD:	Size: 2-3/8"	Set At: 4923'	Packer At:		Liner Run:]Yes [✓] No		
Date of First, Resumed 12/5/11	Production, SWD or EN	IR. Producing Meth	nod: ☑ Pumping		Gas Lift 🔲 O	her (Explain)			
Estimated Production Per 24 Hours	OII E 40.25	ibis. Gas	Mcf	Wate 0		is.	Gas-Oil Ratio	30,6	Gravity
DISPOSITIO	ON OF GAS:		ETHOD OF C	OMPLE	TION:		PRODUCTIO	ON INTERVAL:	
Vented				Dually (mingled it ACO-4)			
to totaloù opp		Other (Specify)				1			1



#1 Imel
3217' FSL & 2000' FEL
Irregular Section 4-26S-22W
Ford County, Kansas
API# 15-057-20756-0000
Elevation: GL: 2399', KB: 2410'

Sample Tops		Ref. Well
Anhydrite	1487' +923	-9
B/Anhydrite	1512' +898	-7
Stotler	3480' -1070	-3
Heebner	4101' -1691	-5
Lansing	4207' -1797	+2
Muncie Shale	4378' -1968	+1
Stark Shale	4487' -2077	Flat
Hush. Shale	4544' -2134	+3
BKC	4584' -2174	+1
Marmaton	4586 ' -2176	+1
Altamont	4634' -2224	+3
Pawnee	4716 -2306	-2
Fort Scott	4747' -2337	-2
Cherokee Shale	4766' -2356	-2
Atoka Shale	4845' -2435	-2
Mississippian	4872' -2462	-7
RTD	5000' -2590	

Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



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

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

October 2, 2013

John Niernberger Ritchie Exploration, Inc. P.O. Box 783188 Wichita, KS 67278-3188

RE: Approved Commingling CO091309 Imel 1, Sec.4-T26S-R22W, Ford County API No. 15-057-20756-00-00

Dear Mr. Niernberger:

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. This application, which was received by the KCC on September 26, 2013, concerns approval to simultaneously produce from the following sources of supply through the same tubing string in the same wellbore:

	Estimated Current Production			
Source of Supply	BOPD	MCFPD	BWPD	Perf Depth
Altamont	7.09	0.00	0.00	4675-4682
Cherokee	1.72	0.00	0.00	4799-4834
Huck	1.32	0.00	0.00	4837-4847
Total Estimated Current Production	10.13	0.00	0.00	

Based upon the depth of the Huck formation perforations, total oil production shall not exceed 200 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Commingling ID number CO091309 has been assigned to this approved application. Use this number for well completion reports (ACO-1) and other correspondence that may concern this approved commingling.

Sincerely,

Rick Hestermann Production Department