



**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.

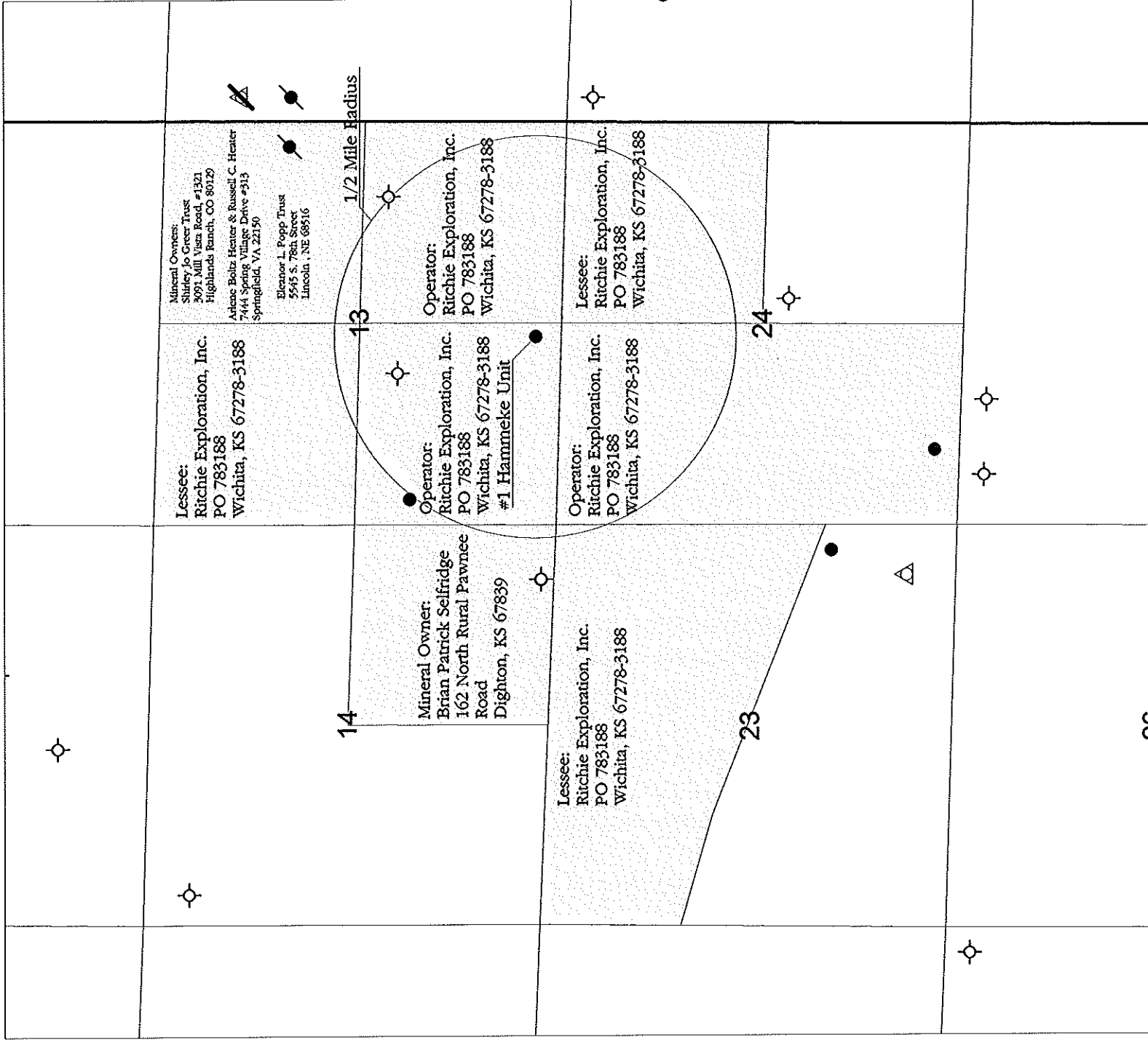
**Submitted Electronically**

**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.*

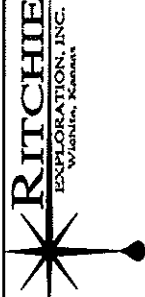
R 28 W

T 18 S



Legend

- Oil Well
- / Abandoned Oil Well
- △ Service Well
- △/ Abandoned Service Well
- / Dry and Abandoned Well



Application for  
Commencing of  
Production of Fluids

Applicant Well: #1 Hammeke Unit  
All Wells on Offsetting Leases within 1/2 Mile Radius  
Name and Address of Lessee of Record or Operator  
On Offsetting Leases

Prepared By: Justin Clegg	Scale: 1 : 22,000	Date: March 9, 2016
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## COMMINGLE APPLICATION

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

**Hammeke Unit #1**  
**335' FSL & 2470' FWL**  
**Section 13-18S-28W**  
**Lane Co., KS**

### Township 18 South, Range 28 West

Sec. 13:	NE/4	Shirley Jo Greer Trust dtd 2/20/97 Shirley Jo Greer and/or Ralph Wayne Greer, Co-Trustees 3091 Mill Vista Road, #1321 Highlands Ranch, CO 80129	surface & 1/3 mineral owner
		Arlene Boltz Heater & Russell C. Heater 7444 Spring Village Drive #313 Springfield, Virginia 22150	1/3 mineral owner
		Eleanor L. Popp Trust dtd 11/14/1996 Eleanor L. Popp, Trustee 5545 S. 78 <sup>th</sup> Street Lincoln, Nebraska 68516	1/3 mineral owner
	NW/4, less a 1.25 ac tract on N. side	Ritchie Exploration, Inc. P.O. Box 783188 Wichita, KS 67278-3188	Lessee
	SW/4	Ritchie Exploration, Inc.	Operator: Hammeke 13C #1 Hammeke Unit #1
	SE/4	Ritchie Exploration, Inc.	Operator: Hammeke Unit #1
Sec. 14:	SE/4	Brian Patrick Selfridge 162 North Rural Pawnee Road Dighton, Kansas 67839	surface & mineral owner
Sec. 23:	All that Part lying N. of the RR	Ritchie Exploration, Inc.	Lessee
Sec. 24:	W/2	Ritchie Exploration, Inc.	Operator: Maughlin B/P #1
	NE/4	Ritchie Exploration, Inc.	Lessee

**AFFIDAVIT**

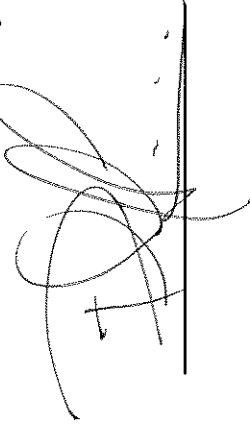
STATE OF KANSAS            )  
  -    SS.  
County of Sedgwick        )

Peter Fiorini, of lawful age, being first duly sworn, deposeseth and saith: That he is Production/Development Geologist 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 Hammeke Unit #1 well located in the County of Lane (see attached plat map). This notice included a letter and a copy of the Commingle Application (ACO-4). All notices were mailed on March 8, 2016.

made as aforesaid on the 8<sup>th</sup> of


March A.D. 2016

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

8<sup>th</sup> day of March 2016

  
Notary Public Sedgwick County, Kansas



# LEGAL PROOF OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Coils	Lines
453699	0002325169	Published in the Wichita Eagle March 14, 2016		\$129.00	1	35

**Attention:** karen hopper

RITCHIE EXPLORATION INC  
P O BOX 783188  
WICHITA, KS 672783188

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

1 Insertions

Beginning issue of: 03/14/2016

Ending issue of: 03/14/2016

STATE OF KANSAS) .SS  
County of Sedgwick)

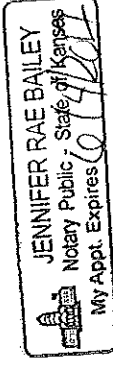
Mark Fletchall, of lawful age, being first duly sworn, deposeth and saith: That he is Record Clerk of The Wichita Eagle, a daily newspaper published in the City of Wichita, County of Sedgwick, State of Kansas, and having a general paid circulation on a daily basis in said County, which said newspaper 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 from 3/14/2016 to 03/14/2016.

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

*Mark Fletchall*

(Signature of Principal Clerk)  
DATED: 3/14/2016

*JRB*  
Notary Public Sedgwick County, Kansas



## LEGAL PUBLICATION

Published in the Wichita Eagle  
March 14, 2016 (2016)  
LEGAL NOTICE  
You, and each of you, are hereby notified that Ritchie Exploration, the first filer in this application to commence the commingling of production from the Lansing/Kansas City, Presbyterian, and Rehabilitation sources of supply for the #1 Admitted Oil well located approx. SE SE SW of Section 10-18-28W, Lane County, Kansas. Any persons who object to their objections or protests shall be required to file with 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 conservation 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 hearings. 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

Wednesday, March 16, 2016

**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 Lansing/Kansas City, Pleasanton, and Marmaton sources of supply for the #1 Hammeke Unit well located approx. SE SE SW of Section 13-18S-28W, Lane 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 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.

R I T C H I E  
EXPLORATION, INC.  
P.O. Box 783188  
Wichita, KS 67278-3188  
(316) 691-9500

*Proof of Publication*

State of Kansas,  
County of Lane, ss:

Mary Hartman

of lawful age, being duly sworn upon oath states that he/she is the editor of **THE DIGHTON HERALD**.

THAT said newspaper has been published at least weekly 50 times a year and has been so published for at least five years prior to the first publication of the attached notice.

THAT said newspaper was entered as second class matter at the post office of its publication;

THAT said newspaper has a general paid circulation on a daily, weekly, monthly, or yearly basis in LANE County, Kansas and is NOT a trade, religious or fraternal publication and has been printed and published in LANE County, Kansas.

THE ATTACHED was published on the following dates in a regular issue of said newspaper:

- 1st Publication was made on the 16 day of March 2016
- 2nd Publication was made on the \_\_\_ day of \_\_\_, 20\_\_
- 3rd Publication was made on the \_\_\_ day of \_\_\_, 20\_\_
- 4th Publication was made on the \_\_\_ day of \_\_\_, 20\_\_
- 5th Publication was made on the \_\_\_ day of \_\_\_, 20\_\_
- 6th Publication was made on the \_\_\_ day of \_\_\_, 20\_\_

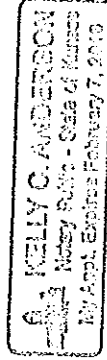
Publication fee \$ 5040  
 Affidavit, Notary's Fees \$ \_\_\_\_\_  
 Additional Copies @ \_\_\_\_\_ \$ \_\_\_\_\_  
 Total Publication Fee \$ 5040

(Signed) Mary Hartman

Witness my hand this 16 day of March, 2016  
SUBSCRIBED and SWORN to before me this 16

day of March, 2016.  
Kelly C Anderson  
(Notary Public)

My commission expires 2-7-2018



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

# CONFIDENTIAL WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767  
Name: Ritchie Exploration, Inc.  
Address 1: 8100 E 22ND ST N # 700  
Address 2: BOX 783188  
City: WICHITA State: KS Zip: 67278 + 3188  
Contact Person: John Niemberger  
Phone: ( 316 ) 691-9500  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Mike Engelbrecht  
Purchaser: JP Marketing

Designate Type of Completion:

New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SIOW  SIOG  
 Gas  D&A  ENHR  SIGW  
 OG  GSW  Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic  Other (Core, Expl., etc.):

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Plug Back  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_  
 Dual Completion Permit #: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  
 GSW Permit #: \_\_\_\_\_

01/14/2014 01/24/2014 01/24/2014  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 15-101-22485-00-00

Spot Description: 5'N & 160'E of

NE SE SW Sec. 13 Twp. 18 S. R. 28  East  West

335 Feet from  North /  South Line of Section

2470 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_ (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: Lane

Lease Name: Hammeke Unit Well #: 1

Field Name: \_\_\_\_\_

Producing Formation: LKC/Pleasanton/Marmaton

Elevation: Ground: 2717 Kelly Bushing: 2722

Total Vertical Depth: 4717 Plug Back Total Depth: 4633

Amount of Surface Pipe Set and Cemented at: 238 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2070 Feet

If Alternate II completion, cement circulated from: 0

feet depth to: 2070 w/ 250 sx cmt.

## Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 5500 ppm Fluid volume: 800 bbls

Dewatering method used: Evaporated

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_ License #: \_\_\_\_\_

Lease Name: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

## AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

## KCC Office Use ONLY

Confidentiality Requested

Date: 04/23/2014

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: NAOMI JAMES Date: 04/24/2014



1200294

Operator Name: Ritchie Exploration, Inc. Lease Name: Hammeke Unit Well #: 1  
 Sec. 13 Twp. 18 S. R.28 East  West  County: Lane

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken  Yes  No  Log Formation (Top), Depth and Datum  Sample  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No Name Top Datum  
 Cores Taken  Yes  No See Attached  
 Electric Log Run  Yes  No

List All E. Logs Run:

Dual Induction Log  
 Compensated Density/Neutron Log

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacks Used	CASING RECORD	
							<input type="checkbox"/> New	<input checked="" type="checkbox"/> Used
Report all strings set-conductor, surface, intermediate, production, etc.								
Surface	12.25	8.625	23	238	Common	170	2% gel, 3% CC	
Production	7.875	5.5	15.5	4709	OWC	170	15% salt, 2% gel, 25% CO-30, 5# per ft.	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No (If No, fill out Page Three of the ACO-1)

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4363.5'-4366.5' & 4344'-4349' (2/26/14)	1000 gals 15% NE	
4	4235' - 4239' (2/26/14)		

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:
2.875	4602			<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or ENHR.	Producing Method:	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
04/01/2014	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				8.32		35
Estimated Production Per 24-Hours							

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4)	





**#1 Hammeke Unit**  
335' FSL & 2470' FWL  
5' N & 160' E of SE SE SW Section 13-18S-28W  
Lane County, Kansas  
API# 15-101-22485-0000  
Elevation: 2717' GL, 2722' KB

Sample Tops	Ref. Well
Anhydrite	2090' +632 +4
B/Anhydrite	2122' +600 +4
Stotler	3538' -816 Flat
Heebner	3947' -1225 -6
Lansing	3984' -1262 -5
Muncie Shale	4158' -1436 -6
Stark Shale	4260' -1538 -8
Hush	4293' -1571 -7
BKC	4335' -1613 -9
Marmaton	4362' -1640 -11
Altamont	4377' -1655 -9
Pawnee	4448' -1726 -8
Myrick	4484' -1762 -10
Fort Scott	4508' -1786 -9
Cherokee Shale	4531' -1809 -9
Johnson	4567' -1845 -8
Mississippian	4597' -1875 -6
RTD	4717' -1995

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



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

Jay Scott Emler, Chairman  
Shari Feist Albrecht, Commissioner  
Pat Apple, Commissioner

Sam Brownback, Governor

March 31, 2016

Peter Fiorini  
Ritchie Exploration, Inc.  
P.O. Box 783188  
Wichita, KS 67278-3188

RE: Approved Commingling CO031604  
Hammeke Unit 1  
API No. 15-101-22485-00-00

Dear Mr. Fiorini:

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 Marmaton 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,

Rick Hestermann  
Production Department