



**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.

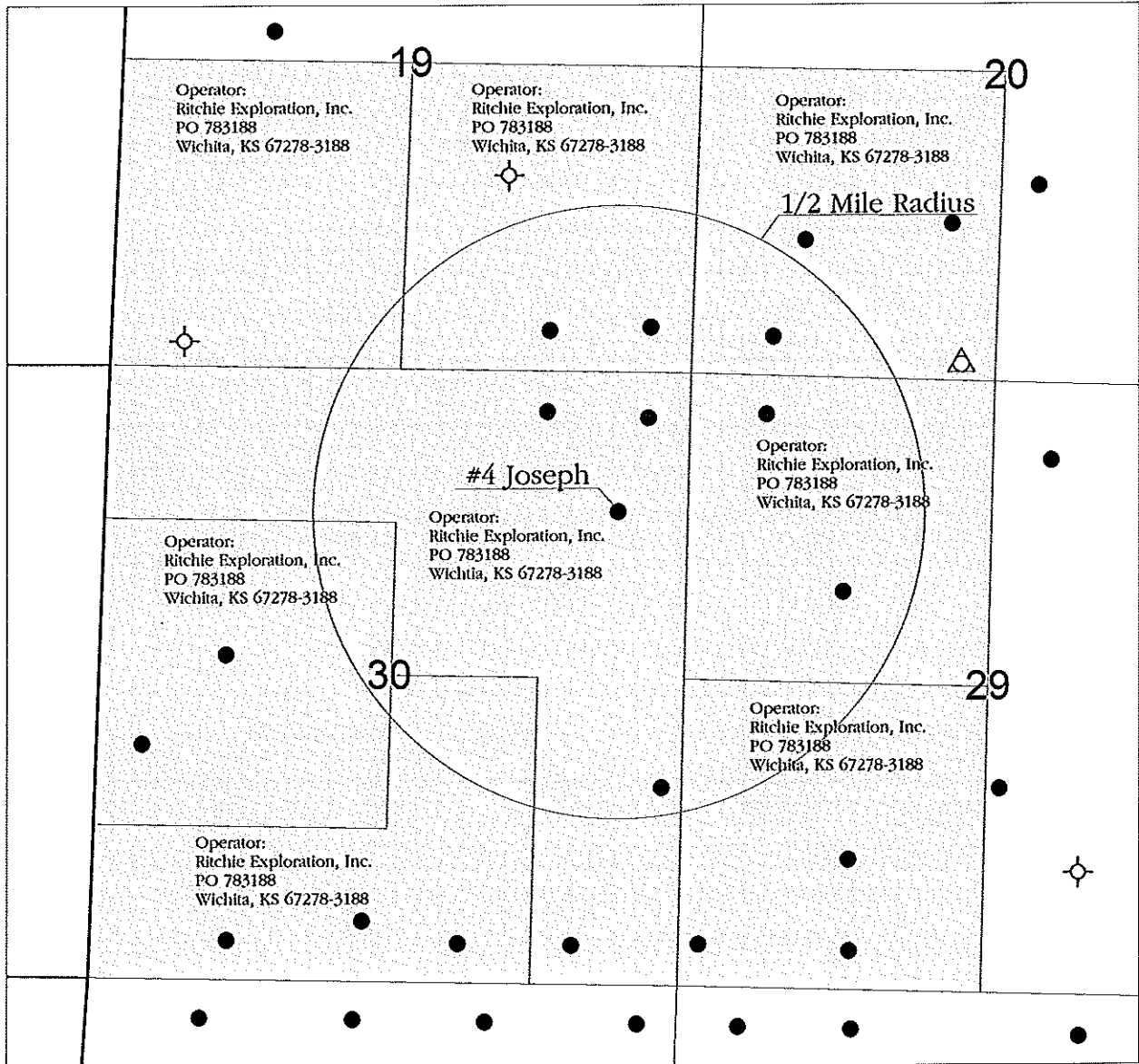
**Submitted Electronically**

**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 31 W

T  
13  
S



- Legend**
- Oil Well
  - △ Service Well
  - ⊕ Dry and Abandoned Well

 <b> Ritchie</b> EXPLORATION, INC. Wichita, Kansas		Application for Commingling of Production or Fluids
Applicant Well: #4 Joseph All Wells on Offsetting Leases within 1/2 Mile Radius Name and Addresses of Offsetting Operator, Lessee, or Mineral Owner within 1/2 Mile Radius		
Gove County, Kansas		
Prepared By: Justin Clegg	Scale: 1 : 18,000	Date: March 4, 2016

# APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

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

**#4 Joseph  
1200' FNL & 600' FEL  
Section 30-13S-31W  
Gove Co., KS**

## Township 13 South, Range 31 West

Sec. 19: SW/4	Ritchie Exploration, Inc. PO 783188 Wichita, KS 67278-3188	Operator: #1 Campbell 19ABC
SE/4	Ritchie Exploration, Inc.	Operator: #1 Phillips 19D, #3 Phillips 19D
Sec. 20: SW/4	Ritchie Exploration, Inc.	Operator: #1 Phillips 20C, #2 Phillips 20C, #3 Phillips 20C, #1 Phillips SWD
Sec. 29: NW/4	Ritchie Exploration, Inc.	Operator: #1 Hess 29B, #2 Hess 29B
SW/4	Ritchie Exploration, Inc.	Operator: #1 Hess 29C, #2 Hess 29C, #1 Hess-Joseph, #1 Joseph-Hess, #1 Hess 29CD Unit
Sec. 30: NE/4; N/2NW/4; E/2SE/4	Ritchie Exploration, Inc.	Operator: #1 Joseph, #2 Joseph, #3 Joseph, #4 Joseph, #1 Joseph-Hess, #1 Hess-Joseph
S/2NW/4; N/2SW/4	Ritchie Exploration, Inc.	Operator: #1 Stieben 30BC, #2 Stieben 30BC
W/2SE/4; S/2SW/4	Ritchie Exploration, Inc.	Operator: #1 Joseph 30CD, #2 Joseph 30CD, #3 Joseph 30CD

**AFFIDAVIT**

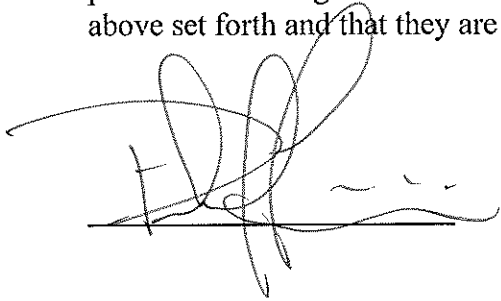
STATE OF KANSAS            )  
  - SS.  
County of Sedgwick         )

Peter Fiorini, of lawful age, being first duly sworn, deposeth 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 Joseph #4 well located in the County of Gove (see attached plat map). This notice included a letter and a copy of the Commingle Application (ACO-4). All notices were mailed on March 4, 2016.

made as aforesaid on the 4<sup>th</sup> of

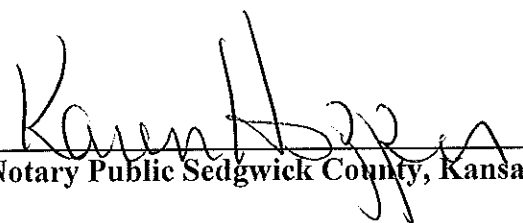
March A.D. 2016

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

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

  
Notary Public Sedgwick County, Kansas



**AFFIDAVIT OF PUBLICATION**  
State of Kansas,  
Gove County, ss:

Roxanne Broeckelman,  
being first duly sworn, deposes and  
says: That she is  
co-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 one  
consecutive week(s), the first  
publication thereof being made as  
aforesaid on the 16th day  
of March, 2016,  
with subsequent publications being  
made on the following dates:

\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_  
\_\_\_\_\_, \_\_\_\_\_

Printer's Fee ..... \$ 18.60  
Additional Copies ..... \$ \_\_\_\_\_  
Affidavit Fees ..... \$ 2.00  
Total Publication Fees \$ 20.60

Roxanne Broeckelman

Subscribed and sworn to before me  
this 16th day of  
March, 2016

Linda L. Zerr  
Notary Public

My commission expires:  
January 8, 2017

**LEGAL ADVERTISING**  
(Published in the Gove County Advocate, Quinter,  
KS, Wed., March 16, 2016 - 11)  
**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 Huck and Altamont B sources of supply for the  
#4 Joseph well located approx. SW SE NE NE of  
Section 30-13S-31W, Gove County, Kansas.  
Any persons who object to or protest this ap-  
plication 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 pur-  
suant to Commission regulations and must state  
specific reasons why the grant of the application  
may cause waste, violate correlative rights or pol-  
lute 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 them-  
selves accordingly.  
**RITCHIE EXPLORATION, INC.**  
P.O. Box 783188  
Wichita, KS 67278-3188  
(316) 691-9500

LINDA L. ZERR  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appl. Exp. 1-8-2017



# LEGAL PROOF OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Cols	Lines
453699	0002323754	Published in the Wichita Eagle March 12, 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: 03/12/2016

Ending issue of: 03/12/2016

STATE OF KANSAS)

.SS

County of Sedgwick)

## LEGAL PUBLICATION

Published in the Wichita Eagle  
March 12, 2016 (2323754)

### 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 Myrick, Fort Scott and Johnson sources of supply for the #4 Joseph well located approx. SW SE NE NE of Section 50-135-31W, 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 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.

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

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 3/12/2016 to 03/12/2016.

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

Notary Public Sedgwick County, Kansas

JENNIFER RAE BAILEY  
Notary Public - State of Kansas  
My Appt. Expires 04/14/2017



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

204585

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: Peter Fiorini  
Phone: ( 316 ) 691-9500  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Bob Peterson  
Purchaser: NCRA

Designate Type of Completion:

- New Well  Re-Entry  Workover
- Oil  WSW  SWD  SIOW  
 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 #: \_\_\_\_\_

03/05/2014 03/16/2014 03/17/2014  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

API No. 15 - 15-063-22185-00-00

Spot Description: 120'N & 60'E of

SW SE NE NE Sec. 30 Twp. 13 S. R. 31  East  West

1200 Feet from  North /  South Line of Section

600 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_

(e.g. xx.xxxxx)

(e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: Gove

Lease Name: Joseph Well #: 4

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

Producing Formation: Myrick, Fort Scott & Johnson

Elevation: Ground: 2868 Kelly Bushing: 2876

Total Vertical Depth: 4675 Plug Back Total Depth: 4598

Amount of Surface Pipe Set and Cemented at: 223 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2323 Feet

If Alternate II completion, cement circulated from: 2323

feet depth to: 0 w/ 350 sx cmt.

### Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 10000 ppm Fluid volume: 750 bbls

Dewatering method used: Evaporated

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

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

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: 05/14/2014

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

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: NAOMI JAMES Date: 05/15/2014



204585

Operator Name: Ritchie Exploration, Inc. Lease Name: Joseph Well #: 4  
 Sec. 30 Twp. 13 S. R. 31  East  West County: Gove

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum  See Attached
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
List All E. Logs Run:		
Compensated Density/Neutron Log Dual Induction Log		

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./ Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	223	Common	165	2% gel, 3% cc
Production	7.875	5.5	15.5	4662	OWC	200	10% salt, 2% gel

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 checked="" type="checkbox"/> Plug Off Zone	4197-4214	common	100	8% salt, 3/4% CD31

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	4478-4480,4467-4472 (3/31/14)	650 gals 15% NE	
4	4395.5-4398.5,4376-4380 (3/31/14)	750 gals 15% NE	
4	4211-4214,4206-4209,4197-4201 (3/31/14)	750 gals 15% NE	

TUBING RECORD:	Size: <u>2.875</u>	Set At: <u>4576</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>04/22/2014</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>51.34</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u>31</u>

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

1200' FNL & 600' FEL

120' N & 60' E of E/2 NE Section 30-13S-31W

Gove County, Kansas

API# 15-063-22185-0000

Elevation: 2868' GL, 2876' KB

Sample Tops			Ref. Well
Anhydrite	2356'	+520	-6
B/Anhydrite	2377'	+499	-5
Heebner	3863'	-987	-3
Toronto	3890'	-1014	-7
Lansing	3913'	-1037	-9
Muncie Shale	4057'	-1181	-4
Stark Shale	4141'	-1265	-2
Hush	4179'	-1303	Flat
BKC	4213'	-1337	+3
Marmaton	4235'	-1359	+1
Altamont	4251'	-1375	+2
Pawnee	4337'	-1461	+2
Myrick	4371'	-1495	+5
Fort Scott	4393'	-1517	Flat
Cherokee Shale	4422'	-1546	+1
Johnson	4464'	-1588	+1
Morrow	4495'	-1619	Flat
Mississippian	4516'	-1640	-13
RTD	4675'	-1799	

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 CO031605  
Joseph #4  
API No. 15-063-22185-00-00

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 Johnson 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