

#### 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 #Name:						
Address	s 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	o be commingled:				
	Formation:	(Perfs): _				
	Formation:	(Perfs): _				
	Formation:	(Perfs): _				
	Formation:	(Perfs): _				
	Formation:	(Perfs): _				
	Formation:  Formation:  Formation:  Formation:	BOPD: BOPD:	MCFPD:  MCFPD:  MCFPD:	BWPD:		
□ 3.	Plat map showing the location of the subject well, all other we the subject well, and for each well the names and addresses		· ·	within a 1/2 mile radius of		
<u> </u>	Signed certificate showing service of the application and affic	davit of publication as required	in 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:	Yes No				
6.	Complete Form ACO-1 (Well Completion form) for the subject	t 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 compa	tibility of the fluids to be comm	ningled.			
AFFIDA	VIT: I am the affiant and hereby certify that to the best of my	V				

**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

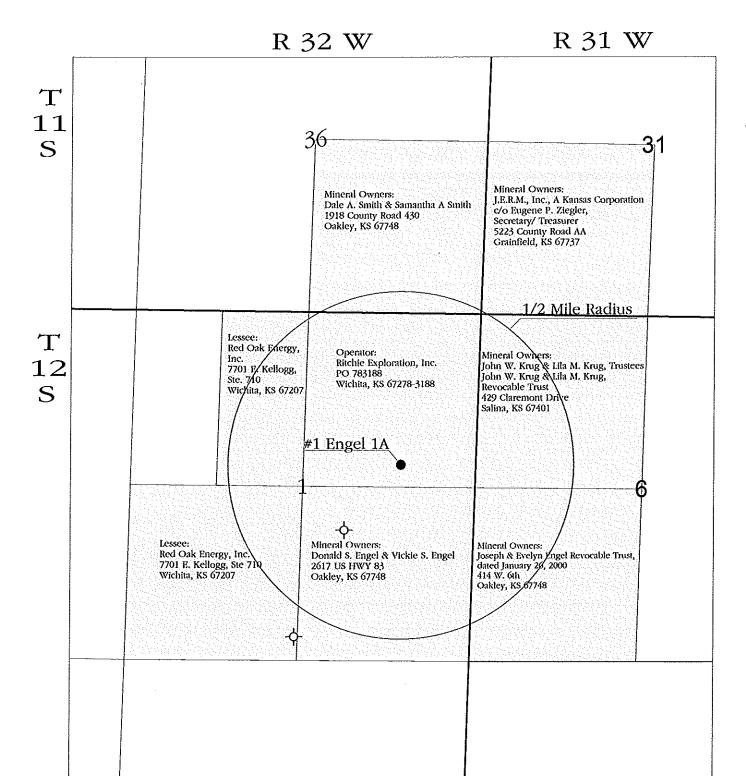
Denied Approved

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.



Legend

Oil Well

- Dry and Abandoned Well



Application for Commingling of Production or Fluids

Applicant Well: #1 Engel 1A Ail Wells on Offsetting Leases within ½ Mile Radius Name and Address of Lease of Record or Operator On Offsetting Leases

Lo	gan/Gove County, K	ansas
Scale:		Date:
1:17,500		November 29, 2016

#### APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

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

#1 Engel 1A 2298' FNL & 1140' FEL Section 1-12S-32W Logan Co., KS

#### Township 11 South, Range 32 West

Logan County

Sec. 36: SE/4

Dale A. Smith & Samantha A. Smith

Mineral Owners

1918 County Road 430 Oakley, KS 67748

#### Township 12 South, Range 32 West

Logan County

Sec. 1:

NE/4

Ritchie Exploration, Inc.

P.O. Box 783188

Wichita, KS 67278-3188

E/2NW/4,

Red Oak Energy, Inc. 7701 E. Kellogg, Ste. 710

Wichita, KS 67207

SE/4

SW/4

Donald S. Engel & Vickie S. Engel

2617 US HWY 83 Oakley, KS 67748 Mineral Owners

Lessee

Operator: #1 Engel 1A

#### Township 11 South, Range 31 West

Gove County

Sec. 31: SW/4

J.E.R.M., Inc., a Kansas Corporation

on Mineral Owners

c/o Eugene P. Ziegler, Secretary/Treasurer

5223 County Road AA Grainfield, KS 67737

### Township 12 South, Range 31 West

Gove County

Sec. 6: NW/4 John W. Krug & Lila M. Krug, Trustees Mineral Owners

John W. Krug & Lila M. Krug Revocable Trust

429 Claremont Drive Salina, KS 67401

SW/4 Joseph & Evelyn Engel Revocable Trust, Mineral Owners

dated January 26, 2000

414 W. 6th

Oakley, KS 67748

#### **AFFIDAVIT**

STATE OF KANSAS ) - SS.
County of Sedgwick )

Peter Fiorini, 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 Engel 1A #1 well located in the County of Logan (see attached plat map). This notice included a letter regarding the Commingle Application. All notices were mailed on December 13, 2016.

KAREN HOPPER Notary Public, State of Kansas

made as aforesaid on the 13th of

December A.D. <u>2016</u>

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

13th day of December 2016

Notary Public Sedgwick County, Kansas

Proof of Public

Published in the Oakley Graphic Mar. 22, 2017 LEGAL NOTICE

You, and each of you, are hereby notified that

State of Kansas, County of Logan, ss:

of lawful age, being duly sworn upon oath states that he/she is the editor of THE OAKLEY GRAPHIC.

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 LOGAN County, Kansas and is NOT a trade, religious or fraternal publication and has been printed and published in LOGAN County, Kansas.

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

1st Publication was made on the <u>AA</u>	day of Wirth 20 17
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	\$ <u>52,20</u>
Affidavit, Notary's Fees	\$
Additional Copies@	\$
Total Publication Fee	\$ <u>5A.AO</u>
Same of the	rd-el
(Signed)	NCF-C 1
Witness my hand this 🚵 day of	March, 20 17
SUBSCRIBED and SWORN to before me	e this
day of	1.
Kelly C. / (Notary Public)	Lauron
My commission expires 3 · 7	· 9018

Ritchie Exploration, Inc. has filed an application to commence the commingling of production from the Lansing/Kansas City and Johnson sources of supply for the #1 Engel 1A well located approx. SW SE NE of Section 1-12S-32W, Logan County, Kansas.

persons who Anv object to or protest this shall application 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 correlativerightsorpollute 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





#### LEGAL PROOF OF PUBLICATION

Account #	Ad Number	Identification	P0	Amount	Cols	Lines
453699	0002842269	Published in the Wichita Eagle December 22, 201		\$139.20	1	38

Attention: karen hopper

RITCHIE EXPLORATION INC

LEGAL PUBLICATION

Published Inthe Wichala Eagle
December 77, 2016 (124/205)
LEGAL NOTICE
You, and each of you are hereby notified that Richale
Exploration, inc. has freed an application to commence
the commingsing of production from the Lawsing!
Kansas City and Johnson sources of supply for the #1
Engel 1A well located approx. SY SE NE of Section
1-18-37W, Logan County, Kansas
Any persons who object to or protest his application
shall be reoured to file their objections or protests
with the Conservation Division of the State
Corporation Commission the State of Kansas within
fileen (15) days from the date of the publication.
These protests shall be filed pursuant to Commission
freeductions and must state specific reasons why the

reculations and must state secolor enables why the orant of the application may cause waste, violate correlative rights or popule the natural resources of the state of Karassa. If no protests are received, this application may be granted through a summary proceeding. If valid protests are received, this matter with best for hearing.

will be sel for hearing.
All persons interested or concerned shall take notice of the foregoing and shall govern themselves

P.O. Box 783183 Vikhita, KS 67278-3158 (316) 691-9500

RITCHIE EXPLORATION, INC.

accordinate.

P O BOX 783188

WICHITA, KS 672783188

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

Insertions

Beginning issue of:

12/22/2016

Ending issue of:

<u>12/2</u>2/2016

STATE OF KANSAS)

.SS

County of Sedgwick)

Dale Seiwert, 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 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 12/22/2016 to 12/22/2016.

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

(Signature of Principal Clerk)

DATED: 12/22/2016

Notary Public Sedgwick County, Kansas

JENNIFER RAE BAILEY Notary Publiq - State of Kansas My Appt. Expires



Confidentiality Requested:

✓ Yes ☐ No

Kansas Corporation Commission Oil & Gas Conservation Division 1239719

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	API No. 15 - 15-109-21047-00-01
Name: Ritchie Exploration, Inc.	Spot Description: 12'N & 150'W of SWSENE
Address 1: 8100 E 22ND ST N # 700	SW_SE_NE_Sec. 1 Twp. 12 S. R. 32 East West
Address 2: BOX 783188	2298 Feet from V North / South Line of Section
City: WICHITA State: KS Zip: 67278 + 3188	1140 Feet from 🗸 East / West Line of Section
Contact Person: Pete Fiorini  Phone: (_316) 691-9500  CONTRACTOR: License #_34082  Name: Alliance Well Service Inc.  Wellsite Geologist: Pete Fiorini  Purchaser: NCRA	Footages Calculated from Nearest Outside Section Corner:    NE
Designate Type of Completion:	Field Name:
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.):     Workover/Re-entry: Old Well Info as follows:     Operator: Ritchie Exploration, Inc.     Well Name: Engel 1A     Original Comp. Date: 12/5/2011 Original Total Depth: 4770	Producing Formation: LKC & Johnson  Elevation: Ground; 2989 Kelly Bushing: 2999  Total Vertical Depth: 4770 Plug Back Total Depth: 4736  Amount of Surface Pipe Set and Cemented at: 228 Feet  Multiple Stage Cementing Collar Used? ✓ Yes No  If yes, show depth set: 2523 Feet  If Alternate II completion, cement circulated from: 376  feet depth to: 2523 w/ 550 sx cmf.
☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD ☐ Plug Back ☐ Conv. to GSW ☐ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
ENHR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
11/21/2014 11/21/2014 12/1/2014	QuarterSecTwpS. R East West
Spud Date or Date Reached TD Completion Date or Recompletion Date	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: 01/19/2015				
Confidential Release Date:				
Wireline Log Received				
Geologist Report Received				
UIC Distribution  ALT 1 1 III Approved by: NAOMI JAMES Date: 01/21/2015				

Page Two



1239719

Operator Name: Ritc	hie Exploration, I	nc.	Lea	se Name: _	Engel 1A		Well #:1	
Sec. 1 Twp.12			est Cou	<sub>ınly:</sub> Loga	n			
and flow rates if gas to	ing and shut-in press o surface test, along v g, Final Logs run to o	sures, whether sho with final chart(s). obtain Geophysica	ut-in pressure re Attach extra sl I Data and Fina	eached stat heet if more al Electric Lo	ic level, hydrost space is need	atic pressures ed.	, bottom hole tem	erval tested, time tool perature, fluid recovery, ov. Digital electronic lo
Drill Stem Tests Taken	1		] No		.og Format	ion (Top), Dep	th and Datum	✓ Sample
(Attach Additional S Samples Sent to Geol	·	☐ Yes 🔽	] No	Nam Altache	ie ed		Top Attached	Datum Attached
Cores Taken Electric Log Run	og.out our roy	☐ Yes 🗹	] No ] No	***************************************				
List All E. Logs Run:								
			ASING RECOR			tion of		
Purpose of String	Size Hole	Size Casing	) V	Velght	ermediate, produc	Type of		Type and Percent
-	Drilled	Set (In O.D.		bs. / Ft.	Depth	Cement		Additives
Surfaace	12.25	8.625	23		228	common	175	3%cc,2%gel
Production	7.875	4.5	10.5		4763	ASC	225	10%salt,2%gel,5#sx gissonite
Purpose:	Depth				JEEZE RECORE		and Parcont Additive	
Perforate	Top Bottom	Type of Ceme	ent # Sa	# Sacks Used Type and Percent Additives			,	
Protect Casing Plug Back TD	-			•				
Plug Off Zone	-							
Did you perform a hydrau Does the volume of the to Was the hydraulic fracturi	tal base fluid of the hyd	raulic fracturing trea			? Tes	No (If N	o, skip questions 2 a o, skip question 3) o, fill out Page Three	
Shots Per Foot		ON RECORD - Brid		ре			ment Squeeze Reco of Material Used)	rd Depth
4	4302-4304, 4271-4		rvai Perioraleu		750 Gals,15		or maional Oseoy	Бориг
TUBING RECORD:	Size: 75 4	Set At: 4698	Packe	r At:	Liner Run:	Yes ✓	] No	
Date of First, Resumed F		1	ing Method: wing 📝 Pum	ping 🔲	Gas Lift 🔲	Other (Explain)		
Estimated Production Per 24 Hours	Oil 6 5.01	Bbls. Ga	s Mcf	Wate	er E 13	Bbls.	Gas-Oil Ratio	Gravity 22
DISPOSITIO	ON OF GAS:		METHOD	OF COMPLE	ETION:		PRODUCTI	ON INTERVAL:
Vented Sold	Used on Lease	Open Hol	e 🔽 Perf.	Dually (Submit )		mmingled		
(If venled, Submit ACO-18.) Other (Specify)			ecify)	(Commit r				

Form	ACO1 - Well Completion	
Operator	Ritchie Exploration, Inc.	
Well Name	Engel 1A 1	
Doc ID	1239719	

Tops

Name	Тору	Dalum
Anhydrite	2530	+469
B/Anhydrite	2554	+445
Heebner	4021	-1022
Toronto	4049	-1050
Lansing	4068	-1069
Muncie Shale	4201	-1202
Stark Shale	4288	-1289
Hush.	4324	-1325
ВКС	4356	-1357
Marmaton	4380	-1381
Altamont	4403	-1404
Pawnee	4479	-1480
Myrick	4518	-1519
Fort Scott	4536	-1537
Cherokee Shale	4563	-1564
Johnson	4608	-1609
Morrow Sand	4626	-1627
Mississippian	4650	-1651

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



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

Sam Brownback, Governor

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

April 6, 2017

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

RE: Approved Commingling CO031705 Engel 1A 1 API No. 15-109-21047-00-01

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