



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.



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204427
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 Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 34082
Name: Alliance Well Service Inc.
Wellsite Geologist: Peter Florini
Purchaser: NCRA

Designate Type of Completion:

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

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

Operator: Ritchie Exploration, Inc.

Well Name: Stout P

Original Comp. Date: 3/27/2013 Original Total Depth: 3225

- Deepening
- Plug Back
- Commingled
- Dual Completion
- SWD
- ENHR
- GSW
- Re-perf.
- Conv. to ENHR
- Conv. to GSW
- Conv. to SWD
- Conv. to Producer
- Permit #: _____
- Permit #: _____
- Permit #: _____
- Permit #: _____
- Permit #: _____

<u>03/24/2014</u>	<u>03/24/2014</u>	<u>4/17/2014</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-159-22734-00-01

Spot Description: 150'E & 90'S of E2NWNE

NE SE NW NE Sec. 6 Twp. 18 S. R. 10 East West

4573 Feet from North / South Line of Section

1515 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) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: Rice

Lease Name: Stout P Well #: 8

Field Name: _____

Producing Formation: LKC/Arbuckle

Elevation: Ground: 1790 Kelly Bushing: 1798

Total Vertical Depth: 3225 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 328 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: 05/14/2014

1204427



Operator Name: Ritchie Exploration, Inc. Lease Name: Stout P Well #: 8
 Sec. 6 Twp. 18 S. R. 10 East West County: Rice

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Attached Top Attached Datum Attached
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CASING RECORD <input type="checkbox"/> New <input checked="" 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	24	328	common	250	3% cc, 2% gel
Production	7.875	5.5	15.5	3226	ASC	160	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 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
	3227-3229	3000 gal 28% NE/DSFe Acid+3% Mu-SOLV+Cla-Sta+Para-Solv	
		900 bbls waterblock-247 Polymer gel	

TUBING RECORD: Size: 2.875 Set At: 3202 Packer At: Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. <u>04/17/2014</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>12.91</u>	Gas Mcf	Water Bbls. <u>102.30</u>	Gas-Oil Ratio	Gravity <u>38</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 checked="" type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Stout P 8
Doc ID	1204427

Tops

Name	Top	Datum
Stotler	2271	-6
Tarkio	2333	-1
Topeka	2561	-6
Queen Hill Shale	2732	-6
Heebner	2815	-6
Toronto	2835	-8
Douglas	2859	-5
Lansing	2946	-8
LKC "G"	3038	-12
Muncie Shale	3084	-4
Stark Shale	3157	-4
Hush. Shale	3195	-4
BKC	3217	
Arbuckle	3223	

AFFIDAVIT

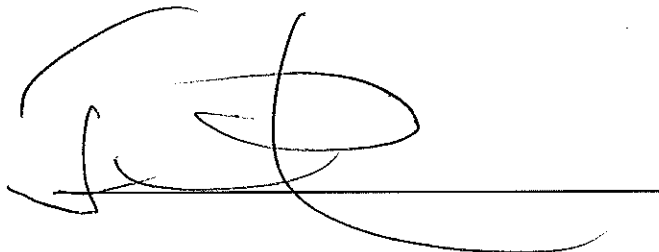
STATE OF KANSAS)
 - SS.
County of Sedgwick)

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 Stout P #8 well located in the County of Rice (see attached plat map). This notice included a letter and a copy of the Commingle Application (ACO-4). All notices were mailed on February 11, 2015.

made as aforesaid on the 11th of

February A.D. 2015


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 February 2015



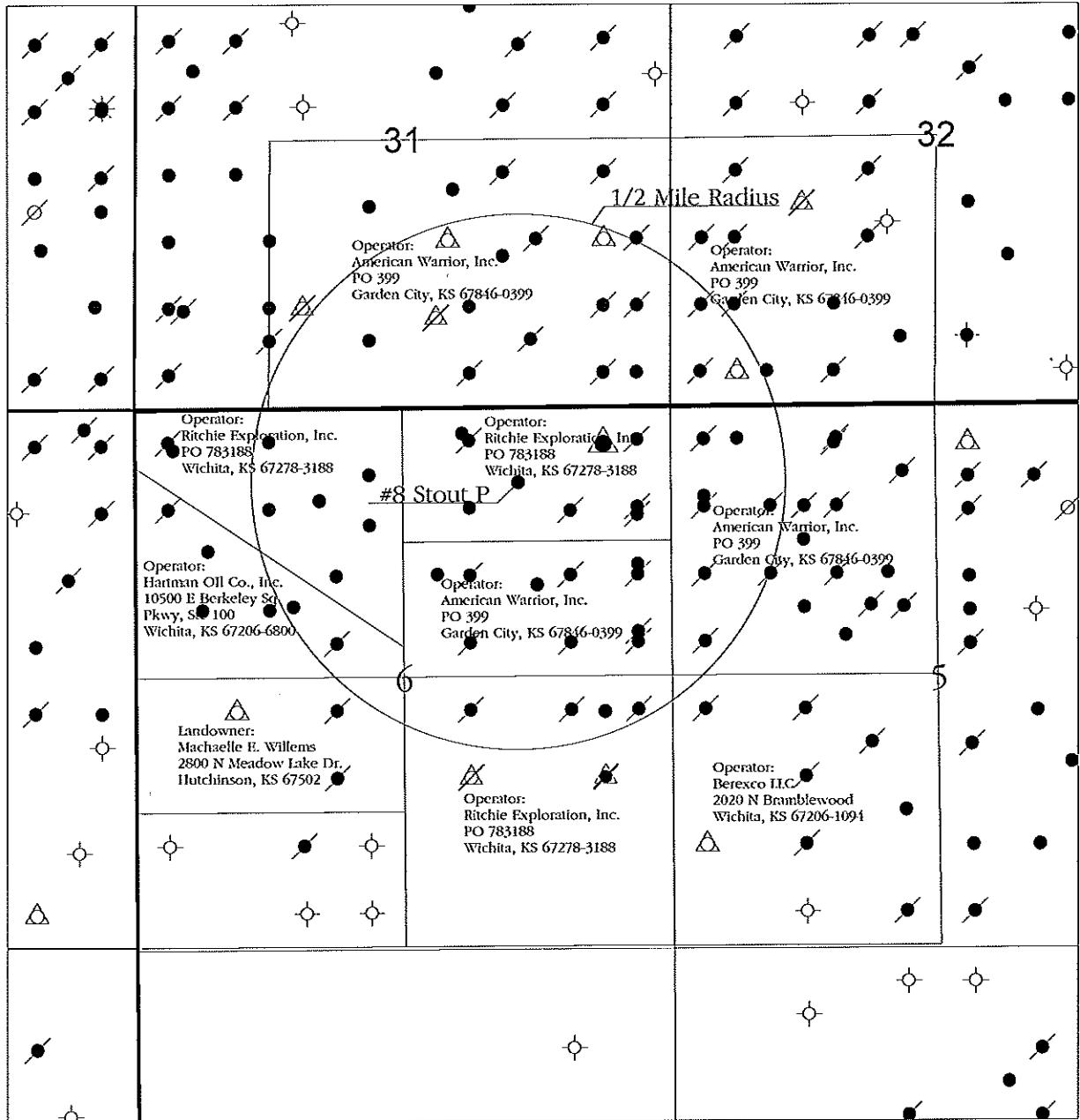


Notary Public Sedgwick County, Kansas

R 10 W


T 17 S

T 18 S



Legend

- Oil Well
- / Abandoned Oil Well
- ⊗ Abandoned Gas Well
- △ Service Well
- ▲ Service Well / Was Oil Well
- Dry and Abandoned Well

 RITCHIE EXPLORATION, INC. Wichita, Kansas		Application for Commingling of Production or Fluids
Applicant Well: #8 Stout P All Wells on Offsetting Leases within 1/2 Mile Radius Name and Address of Lessee of Record or Operator on Offsetting Leases		
Rice County, Kansas		
Prepared By: Justin Clegg	Scale: 1 : 20,000	Date: January 29, 2015

APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

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

**#8 Stout P
750' FNL & 1500' FEL
Section 6-18S-10W
Rice Co., KS**

Township 17 South, Range 10 West
Ellsworth Co., KS

Sec. 31:	E/2SW/4, SE/4	American Warrior Inc. PO Box 399 Garden City, KS 67846-0399	Operator
Sec. 32:	SW/4	American Warrior Inc.	Operator

Township 18 South, Range 10 West
Rice Co., KS

Sec. 5:	NW/4	American Warrior Inc.	Operator
	SW/4	Berexco LLC 2020 N Bramblewood Wichita, KS 67206-1094	Operator
Sec. 6:	N/2NE/4	Ritchie Exploration, Inc. PO Box 783188 Wichita, KS 67278-3188	Operator: #8 Stout P
	S/2NE/4	American Warrior Inc.	Operator
	SE/4	Ritchie Exploration, Inc.	Operator
	N/2SW/4	Machelle E. Willems 2800 N Meadow Lake Dr. Hutchinson, KS 67502	Landowner
	NW/4 lying S of RR	Hartman Oil Co. Inc. 10500 E Berkeley Sq Pkwy, Ste 100 Wichita, KS 67206-6800	Operator
	NW/4 lying N of RR	Ritchie Exploration, Inc.	Operator

Affidavit of Publication

David Settle, being first duly sworn, deposes and says: That he is the publisher of the Lyons News, a twice weekly newspaper printed in the State of Kansas, and published in and of general circulation on a twice weekly basis in Rice County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

Said newspaper is published Tuesdays and Fridays and has been published continuously and 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 Lyons, Kansas, in said county as second class matter.

That the attached notice is a true copy thereof and was published in the regular and entire issue of said newspaper for 1 consecutive week, the first publication thereof being made as aforesaid on the 17th day of February 20 15, with subsequent publications being made on the following dates:

- _____, 20____
- _____, 20____
- _____, 20____
- _____, 20____
- _____, 20____
- _____, 20____

Signed: David Settle

Subscribed and sworn to before me this 17th day of February, 20 15.

Anita Settle
Notary Public's Signature

My commission expires: June 23, 2015

Publication Fee: \$ 45.00

Total Publication Fee: \$ 45.00

(Published in the Lyons News
February 17, 2015.)

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 and Ar buckle sources of supply for the #8 Stout P well located approx. E/2 NW NE of Section 6-18S-10W, Rice 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

 ANITA SETTLE
Notary Public - State of Kansas
My Appt. Expires 6/23/15

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 19th of

February A.D. 2015, 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.

Mark Fletchall

Subscribed and sworn to before me this

19th day of February, 2015



Rachel M. Wilson

Notary Public Sedgwick County, Kansas

Printers Fee: \$122.20

LEGAL PUBLICATION

Published In The Wichita Eagle
February 19, 2015 (3338075)

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 and Arbuckle sources of supply for the #8 Stout P. well located approx. E/2 NW NE of Section 6-18S-10W, Rice 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 783189
Wichita, KS 67278-3189
(316) 691-9900

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



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

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

Sam Brownback, Governor

March 9, 2015

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

RE: Approved Commingling CO021505
Stout P 8
API No. 15-159-22734-00-01

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.

Based upon the depth of the Arbuckle formation perforations, total oil production shall not exceed 100 BOPD and total gas production shall not exceed 50% of the absolute open flow (AOF).

Sincerely,

Rick Hestermann
Production Department