



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

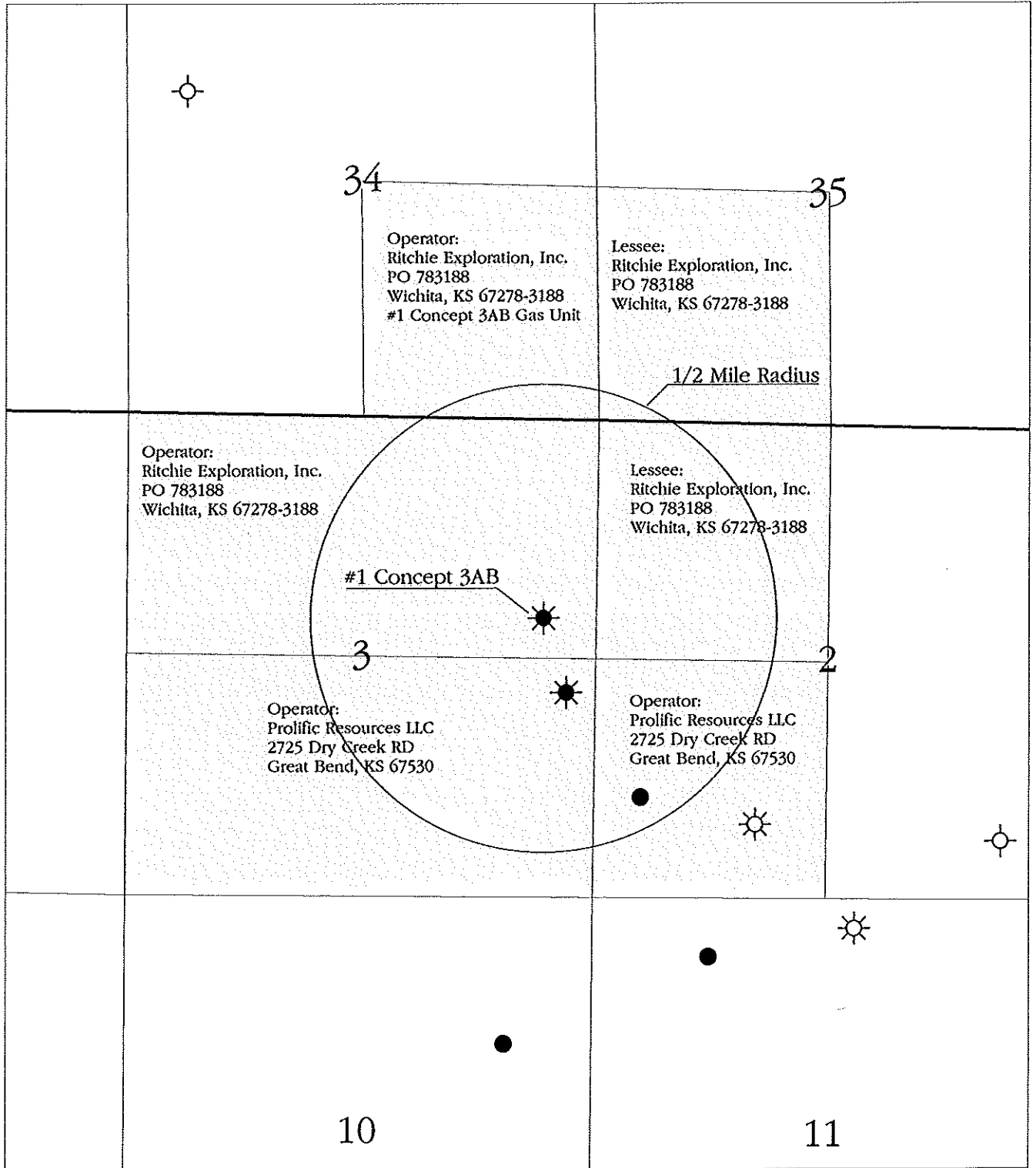
KCC Office Use Only
 Denied Approved
15-Day Periods Ends: _____
Approved By: _____ Date: _____

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 18 W

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- Legend**
- Gas Well
 - Oil and Gas Well
 - Oil Well
 - Dry and Abandoned Well

 RITCHIE EXPLORATION, INC. Wichita, Kansas		Application for Commingling of Production or Fluids
Applicant Well: #1 Concept 3AB All Wells on Offsetting Leases within 1/2 Mile Radius Name and Address of Lessee of Record or Operator On Offsetting Leases		
Pawnee County, Kansas		
Prepared By: Justin Clegg	Scale: 1 : 20,000	Date: 11/18/2016

Application for Commingling of Production or Fluids

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

**#1 Concept 3AB
2242' FNL & 598' FEL
Section 3-22S-18W
Pawnee Co., KS**

Township 21 South, Range 19 West

Sec. 34:	SE/4	Ritchie Exploration, Inc. PO Box 783188 Wichita, KS 67278-3188	Operator: #1 Concept 3AB (Gas Unit)
Sec. 35:	SW/4	Ritchie Exploration, Inc.	Lessee

Township 22 South, Range 18 West

Sec. 2:	NW/4	Ritchie Exploration, Inc.	Lessee
	SW/4	Prolific Resources LLC 2725 Dry Creek RD Great Bend, KS 67530	Operator: Roesler #1, #3
Sec. 3:	N/2	Ritchie Exploration, Inc.	Operator: #1 Concept 3AB
	S/2	Prolific Resources LLC	Operator: Roesler #5

AFFIDAVIT

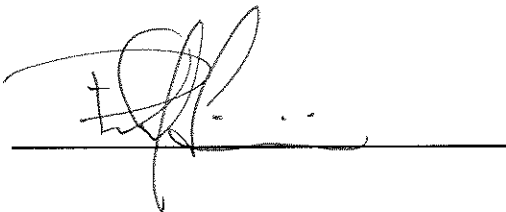
STATE OF KANSAS)
 - SS.
County of Sedgwick)

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 Concept 3AB #1 well located in the County of Pawnee (see attached plat map). This notice included a letter regarding the Commingle Application. All notices were mailed on December 13, 2016.

made as aforesaid on the 13th of

December A.D. 2016

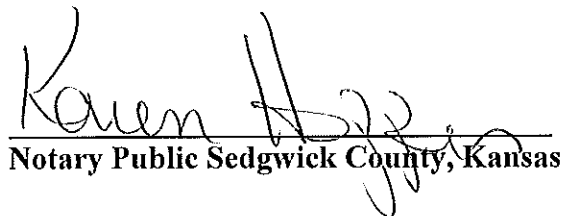
And affiant further says that he has personal knowledge of the statements above set forth and that they are true.



Subscribed and sworn to before me this

13th day of December 2016




Notary Public Sedgwick County, Kansas



LEGAL PROOF OF PUBLICATION

Account #	Ad Number	Identification	PO	Amount	Cols	Lines
453699	0002844407	Published in the Wichita Eagle December 23, 2016		\$135.80	1	37

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: 12/23/2016

Ending issue of: 12/23/2016

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 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 12/23/2016 to 12/23/2016.

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

(Signature of Principal Clerk)

DATED: 12/23/2016

Notary Public Sedgwick County, Kansas

JENNIFER RAE BAILEY
Notary Public - State of Kansas
My Appt. Expires 6/14/2017

LEGAL PUBLICATION

Published in the Wichita Eagle
December 23, 2016 (2844407)

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 Mississippian and Consmongate sand sources of supply for the #1 Concept 2AB well located approx. S/2 SE NE of Section 3-22S-19W, Pawnee 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) 691-5500

Affidavit of Publication

Proof of Publication

STATE OF KANSAS

SS.

PAWNEE COUNTY

JOHN M SETTLE being first duly sworn deposes and says: That he is Publisher of

THE TILLER AND TOILER

A Twice Weekly Newspaper printed in the State of Kansas, and published in and for general circulation in Pawnee County, Kansas with a general paid circulation on a twice-weekly basis in Pawnee County, Kansas, and that said newspaper is not a trade, religious or fraternal publication.

SAID newspaper is a twice weekly published at least weekly 50 times a year; 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 of Larned 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

consecutive ISSUE, the first publication thereof being made as aforesaid on the 23 day of Dec, 2016 with subsequent publications being made on the following dates:

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

SUBSCRIBED and sworn to before me this 23 day of Dec, 2016.

John M. Settle
Patty Smith
Notary Public

My commission expires Jan. 20, 2020
Printer's fee \$ 54.86
Additional copies _____ \$ _____

LEGAL

(First published in The Tiller & Toiler, December 23, 2016) 1t

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 Mississippian and Conglomerate Sand sources of supply for the #1 Concept 3A well located approx. S/2 SE NE of Section 3-22S-18W, Pawnee 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



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224502
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 # 33350

Name: Southwind Drilling, Inc.

Wellsite Geologist: Max Lovely

Purchaser: _____

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 #: _____

<u>06/11/2014</u>	<u>06/25/2014</u>	<u>06/25/2014</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21768-00-00

Spot Description: 68'N & 62'E of

S2 SE NE Sec. 3 Twp. 22 S. R. 18 East West

2242 Feet from North / South Line of Section

598 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: Pawnee

Lease Name: Concept 3AB Well #: 1

Field Name: _____

Producing Formation: Mississippian/Conglomerate Sand

Elevation: Ground: 2043 Kelly Bushing: 2052

Total Vertical Depth: 4860 Plug Back Total Depth: 4399

Amount of Surface Pipe Set and Cemented at: 1112 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: 76000 ppm Fluid volume: 1200 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: 09/24/2014
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 09/25/2014



1224502

Operator Name: Ritchie Exploration, Inc. Lease Name: Concept 3AB Well #: 1
 Sec. 3 Twp. 22 S. R. 18 East West County: Pawnee

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> 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: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum See Attached
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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	24	1112	A-Con Blend & Common	500	2% gel, 3% cc
Production	7.875	4.5	10.5	4424	ASC	200	10% salt, 2% gel, 6% gyp-seal, 54% sack

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	4183-4187 (7/21/14)	250 gals 15% NE	***CBP 4117 (7/29/14)**
4	4113-4123 (7/21/14)	375 gals 7.5% NE/FE	
4	4085-4096 (7/21/14)	375 gals 7.5% NE/FE	
4	4069-4074 (7/29/14)	56,100# sand, 703,378 scf Nitrogen, 1314 barrels water	
	*****WAITING ON GAS MARKET*****		

TUBING RECORD:	Size: <u>2.375</u>	Set At: <u>4056</u>	Packer At: _____	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. _____ Gas Mcf _____ Water Bbls. _____ Gas-Oil Ratio _____ Gravity _____

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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 Concept 3AB

2242' FNL & 598' FEL

68'N & 62'E of S/2 SE NE Section 3-22S-18W

Pawnee County, Kansas

API# 15-145-21768-0000

Elevation: 2043' GL, 2052' KB

Sample Tops			Ref. Well
Anhydrite	1105'	+947	+1
B/Anhydrite	1130'	+922	-2
Heebner	3538'	-1486	+8
Lansing	3620'	-1568	+14
Muncie Shale	3766'	-1714	+12
LKC "J"	3818'	-1766	+20
Stark Shale	3846'	-1794	+16
Hush.	3876'	-1824	+22
BKC	3908'	-1856	+24
Marmaton	3926'	-1874	+26
Altamont	3965'	-1913	+20
Pawnee	4008'	-1956	+20
Fort Scott	4036'	-1984	+20
Cherokee Shale	4050'	-1998	+20
Conglomerate Sand	4072'	-2020	+28
Mississippian	4148'	-2096	+6
Viola	4199'	-2147	+21
Arbuckle	4330'	-2278	+7
RTD	4860'	-2808	

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1242959
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 # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Max Lovely
Purchaser: SemGas/JP Energy

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: Ritchie Exploration

Well Name: Concept 3AB

Original Comp. Date: 06/25/2014 Original Total Depth: 4860

- 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 #: _____

1/12/2015 1/12/2015
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21768-00-01

Spot Description: 68'N & 62'E of

S2 SE NE Sec. 3 Twp. 22 S. R. 18 East West

2242 Feet from North / South Line of Section

598 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: Pawnee

Lease Name: Concept 3AB Well #: 1

Field Name: _____

Producing Formation: Mississippian/Conglomerate Sand

Elevation: Ground: 2043 Kelly Bushing: 52

Total Vertical Depth: 4860 Plug Back Total Depth: 4399

Amount of Surface Pipe Set and Cemented at: 1112 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

- Confidentially Requested
Date: 02/18/2015
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 02/18/2015

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Concept 3AB 1
Doc ID	1242959

Tops

Name	Top	Datum
Anhydrite	1105	+947
B/Anhydrite	1130	+922
Heebner	3538	-1486
Lansing	3620	-1568
Muncie Shale	3766	-1714
LKC "J"	3818	-1766
Stark Shale	3846	-1794
Hush.	3876	-1824
BKC	3908	-1856
Marmaton	3926	-1874
Altamont	3965	-1913
Pawnee	4008	-1956
Fort Scott	4036	-1984
Cherokee Shale	4050	-1988
Conglomerate Sand	4072	-2020
Mississippian	4148	-2096
Viola	4199	-2147
Arbuckle	4330	-2278

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

January 9, 2017

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

RE: Approved Commingling CO011701
Concept 3AB 1
API No. 15-145-21768-00-01

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 Mississippian 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