



KANSAS CORPORATION COMMISSION 1248770  
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 # \_\_\_\_\_ 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:**

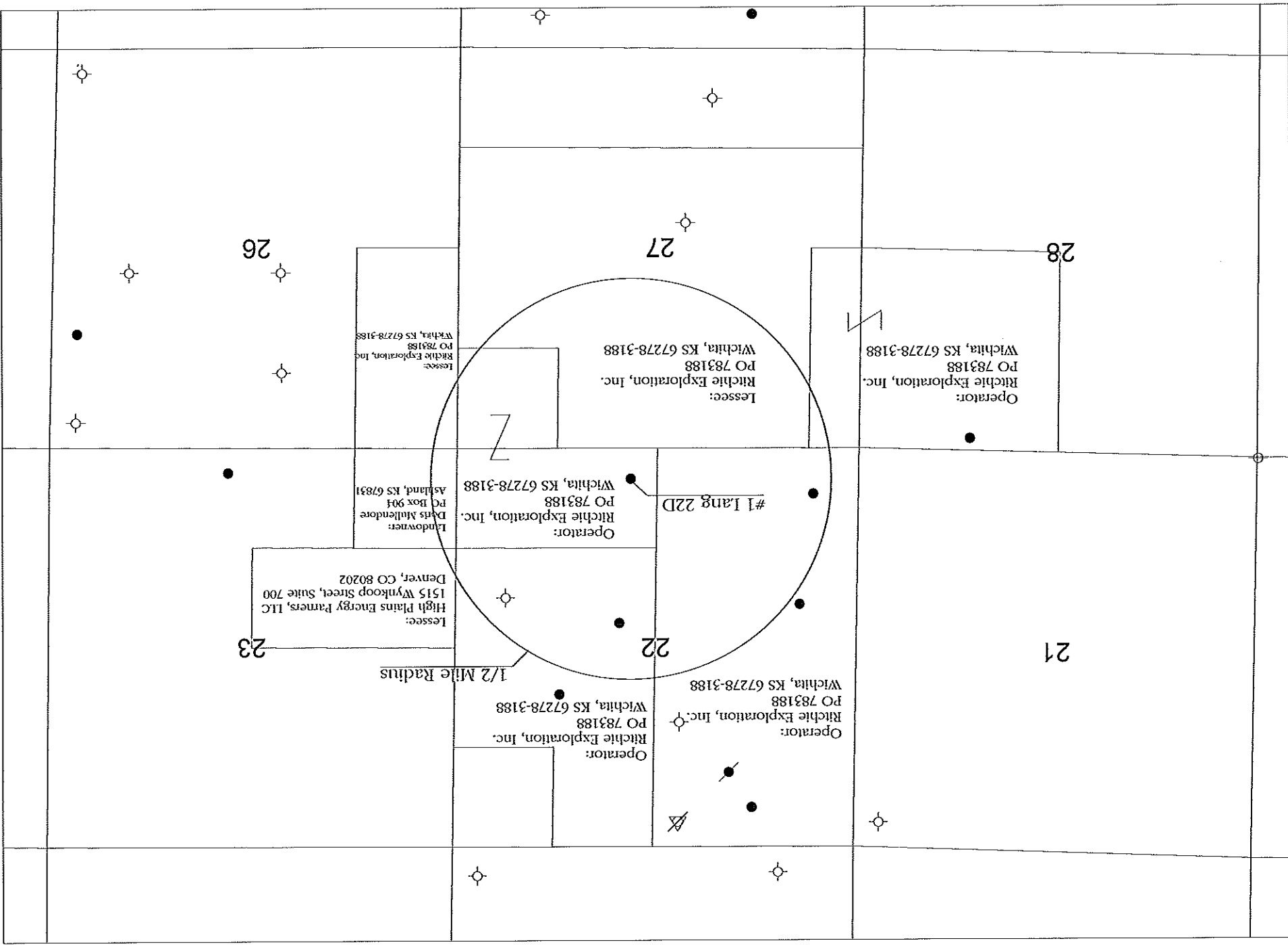
- 7. Well construction diagram of subject well.
- 8. Any available water chemistry data demonstrating the compatibility of the fluids to be commingled.

**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.*



**Application for Commingling of Production or Fluids**

**RTCHIE EXPLORATION, INC.**  
Wichita, Kansas

Applicant Well: #1 Lang 22D  
All Wells on Offsetting Leases within 1/2 Mile Radius  
Name and Address of Lessee of Record or Operator on Offsetting Leases

Scale: 1 : 20,500  
Date: December 15, 2014  
Notion County, Kansas

- Legend**
- Oil Well
  - ◐ Abandoned Oil Well
  - ◑ Abandoned Service Well
  - ◒ Dry and Abandoned Well

# APPLICATION FOR COMMINGLING OF PRODUCTION OR FLUIDS

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

#1 Lang 22D  
399' FSL & 2299' FEL  
Section 22-5S-23W  
Norton Co., KS

## Township 5 South, Range 23 West

Sec. 22:	W/2NE, SENE, N/2SE	Ritchie Exploration, Inc. 8100 E 22 <sup>nd</sup> ST N, Bldg 700 Wichita, KS 67226	Operator: #1 Schaben 22AD, #2 Schaben 22AD
	S/2SE	Ritchie Exploration, Inc.	Operator: #1 Lang 22D
	W/2	Ritchie Exploration, Inc.	Operator: #1 Schaben 22BC, #2 Schaben 22BC, #3 Schaben 22BC
Sec. 23:	N/2SW	High Plains Energy Partners, LLC 1515 Wynkoop Street, Suite 700 Denver, CO 80202	Lessee
	SWSW	Doris Mullendore PO Box 904 Ashland, KS 67831	Landowner
Sec. 26:	W/2NW	Ritchie Exploration, Inc.	Lessee
Sec. 27:	NENE	Ritchie Exploration, Inc.	Operator: #1 Lang 22D
	W/2NE, SENE, E/2NW, E/2W/2NW & the E. 10 ac of the W/2W/2NW less tr	Ritchie Exploration, Inc.	Lessee
	W. 30 ac of the W/2W/2NW	Ritchie Exploration, Inc.	Operator: #1 Tien Unit
Sec. 28:	NE	Ritchie Exploration, Inc.	Operator: #1 Tien Unit

**AFFIDAVIT**

STATE OF KANSAS            )  
                                      -    SS.  
County of Sedgwick        )

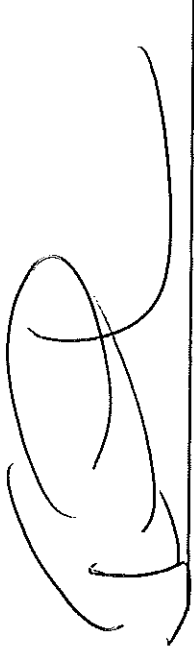
John Niemberger, of lawful age, being first duly sworn, deposeth and saith: That he is Production Manager of Ritchie Exploration, County of Sedgwick, State of Kansas, and that notice was given to all lessee of record or operator within ½ mile radius of the Lang 22D #1 well located in the County of Norton (see attached plat map). This notice included a letter and a copy of the Commingle Application (ACO-4). All notices were mailed on December 22, 2014.

made as aforesaid on the 22<sup>nd</sup> of

**December A.D. 2014**

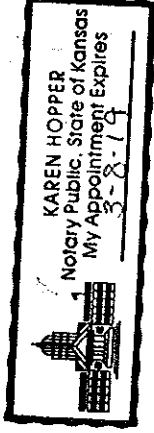
\_\_\_\_\_

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

22<sup>nd</sup> day of December 2014



Karen Hopper  
Notary Public Sedgwick County, Kansas

**AFFIDAVIT**

STATE OF KANSAS \  
- SS.  
County of Sedgwick /

Mark Fletchall, of lawful age, being first duly sworn, deposedeth 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 5<sup>th</sup> of

January A.D. 2015, with

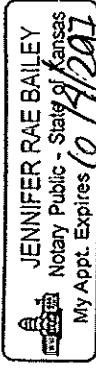
subsequent publications being made on the following dates:

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

5<sup>th</sup> January, 2015



*JRB*  
Notary Public Sedgwick County, Kansas

Printer's Fee : \$122.20

**LEGAL PUBLICATION**

Published in The Wichita Eagle  
January 5, 2015 (3332351)  
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 Toronto sources of supply for the #1 Land 22d well located approx. SW SW 1/4 SE of Section 22-55-23W, Norton 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 water, 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.

RTICHELIE EXPLORATION, INC.  
P.O. Box 783788  
Wichita, KS 67278-3788  
(316) 691-9500

**Proof of Publication**

State of Kansas, Norton County

Dana M. Pester

of lawful age, being duly sworn upon oath, states that he/she is the designated representative of the Norton Telegram.

That said newspaper has been published at least one hundred (100) times a year and has been so published for at least on year prior to the first publication of the attached notice:

That said paper has a general paid circulation in Norton County, Kansas, and is not a trade, religious or fraternal publication and has been published in Norton County, Kansas.

The attached was published on the following dates in a regular issue of the said newspaper:

- First publications was made on the 24<sup>th</sup> day of MARCH, 2015
- Second publication was made on the \_\_\_ day of \_\_\_, 2015
- Third publication was made on the \_\_\_ day of \_\_\_, 2015

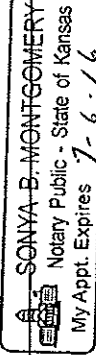
Publication fee \$ 39.30  
 Affidavit, Notary's fees \$ \_\_\_\_\_  
 Additional copies \$ \_\_\_\_\_  
 TOTAL publication fees \$ 39.30

(Sign) Dana M. Pester

Witness my hand this 24<sup>th</sup> day of March, 2015

Subscribed and Sworn to before me this 24<sup>th</sup> day of March, 2015. State of Kansas, County of Norton.

Sonya B Montgomery



**LEGAL NOTICE**

Published in The Norton Telegram on Tuesday, March 24, 2015 (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 Lansing-Kansas City and Toronto sources of supply for the #1 Lang 22D well located approx. SW SW SE of Section 22-5S-23W, Norton 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, Kansas 67278-3188  
 (313) 691-9500

# CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION



1116016

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

## 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 Fiorini  
Purchaser: NCRA

API No. 15 - 15-137-20442-00-01  
Spot Description: 20' N & 60' E OF SWSWSE  
NE SW SE Sec. 22 Twp. 5 S. R. 23  East  West  
350 Feet from  North /  South Line of Section  
2200 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW

County: Norton  
Lease Name: LANG 22D Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: Toronto, LKC  
Elevation: Ground: 2210 Kelly Bushing: 2223  
Total Depth: 3765 Plug Back Total Depth: 3715 Feet  
Amount of Surface Pipe Set and Cemented at: 221 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1823 Feet  
If Alternate II completion, cement circulated from: 1823  
feet depth to: 0 w/ 290 sx crnt.

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, Inc.  
Well Name: Lang 22D  
Original Comp. Date: 10/8/2005 Original Total Depth: 3765  
 Deepening  Re-perf.  Conv. to ENHR  Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled Permit #: \_\_\_\_\_  
 Dual Completion Permit #: \_\_\_\_\_  
 SWD Permit #: \_\_\_\_\_  
 ENHR Permit #: \_\_\_\_\_  
 GSW Permit #: \_\_\_\_\_

1/16/2013 1/16/2013 1/18/2013  
Spud Date or Date Reached TD Completion Date or  
Recompletion Date Recompletion Date

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

Letter of Confidentiality Received  
Date: 02/14/2013  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NAOMI JAMES Date: 02/18/2013



1116016

Operator Name: Ritchie Exploration, Inc.Lease Name: LANG 22DWell #: 1Sec. 22 Twp. 5 S. R. 23  East  WestCounty: Norton

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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

Samples Sent to Geological Survey

 Yes  No

Name Attached

Top Attached

Datum Attached

Cores Taken

 Yes  No

Electric Log Run

 Yes  No

Electric Log Submitted Electronically

 Yes  No

(If no, Submit Copy)

List All E. Logs Run:

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	CASING RECORD			Type of Cement	# Sacks Used	Type and Percent Additives
			Report all strings set-conductor, surface, intermediate, production, etc.	<input type="checkbox"/> New	<input checked="" type="checkbox"/> Used			
Surface	12.25	8.625	23	221	common	160	3%cc,2%gel	
Production	7.875	4.5	10.5	3758	common	140	3%cc,2%gel	

## ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom:	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate				
Protect Casing	-			
Plug Back TD				
Plug Off Zone				

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	3401'-3403'	375 gals acid 15% NE	
4	3384.5' - 3388'	375 gal acid 15% NE	

TUBING RECORD: Size: 2.375 Set At: 3688 Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR.

Producing Method:

 Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours

Oil Bbls. 8.35

Gas Mcf

Water

Bbls.

Gas-Oil Ratio

Gravity

30

DISPOSITION OF GAS:

 Vented  Sold  Used on Lease

(If vented, Submit ACC-18.)

METHOD OF COMPLETION:

 Open Hole  Perf.  Dually Comp.  Commingled (Submit ACC-5)

(Submit ACC-5)

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202



Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	LANG 22D 1
Doc ID	1116016

Tops

Name	Top	Datum
Anhydrite	1837	+386
B/Anhydrite	1868	+355
Heebner	3358	-1135
Toronto	3384	-1161
Lansing	3400	-1177
Lansing "C"	3430	-1207
Lansing "D"	3446	-1223
Lansing "H"	3514	-1291
Lansing "J"	3547	-1324
Stark Shale	3554	-1331
Lansing "K"	3563	-1340
B/KC	3589	-1366
Arbuckle	3726	-1503

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

April 8, 2015

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

RE: Approved Commingling CO041504  
Lang 22D 1  
API No. 15-137-20442-00-01

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 LKC 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