

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

3/21/14

Form ACO-1

June 2009

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: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3188
Contact Person: John Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 5123
Name: Pickrell Drilling Co., Inc.
Wellsite Geologist: Adam Eldani
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
☐ Conv. to GSW
☐ Plug Back: _____ Plug Back Total Depth: _____
☐ Commingled Permit #: _____
☐ Dual Completion Permit #: _____
☐ SWD Permit #: _____
☐ ENHR Permit #: _____
☐ GSW Permit #: _____

11/28/11 12/7/11 12/7/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 135-25320-00-00
Spot Description: 90' S & 90' E
NW NW SW Sec. 7 Twp. 20 S. R. 21 ☐ East ☒ West
2,220 Feet from ☐ North / ☒ South Line of Section
420 Feet from ☐ East / ☒ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☒ SW
County: Ness
Lease Name: O'Brien B/P Twin Well #: 1
Field Name: _____
Producing Formation: Mississippian Osage
Elevation: Ground: 2209 Kelly Bushing: 2216
Total Depth: 4347 Plug Back Total Depth: 4347
Amount of Surface Pipe Set and Cemented at: 215 Feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set: 1397 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 1397 w/ 290 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 11900 ppm Fluid volume: 800 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ ☐ East ☐ West
County: CONFIDENTIAL Permit #: _____

MAR 22 2012

KCC

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: _____
Title: Production Manager Date: 3/21/12

KCC Office Use ONLY

☒ Letter of Confidentiality Received

Date: 3/21/12 - 3/21/14

☐ Confidential Release Date: _____

☒ Wireline Log Received

☒ Geologist Report Received

☐ UIC Distribution

ALT ☐ I ☒ II ☐ III Approved by: _____

RECEIVED

MAR 22 2012

KCC WICHITA

Operator Name: Ritchie Exploration, Inc. Lease Name: O'Brien B/P Twin Well #: 1
 Sec. 7 Twp. 20 S. R. 21 ☐ East ☒ West County: Ness

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 ☒ Yes ☐ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☒ Yes ☐ No

Electric Log Submitted Electronically ☒ Yes ☐ No

(If no, Submit Copy)

List All E. Logs Run:

Radiation Guard Log

☐ Log Formation (Top), Depth and Datum ☒ Sample

Name Top Datum

SEE ATTACHED

CASING RECORD ☒ New ☐ 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	12-1/4"	8-5/8"	23#	215'	common	150	3%cc, 2% gel
Production	7-7/8"	5-1/2"	15.5#	4336'	60/40 Poz	150	10% salt, 2% gel, 3/4% CDI-26

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	4335' - 4338' (1/2/12)	250 gals 10% FE	
	4338' - 4347' open hole (12/31/11)	250 gals 10% FE	

CONFIDENTIAL

MAR 21 2014

TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>4337'</u>	Packer At:	Liner Run: ☐ Yes ☒ No	KCC
Date of First, Resumed Production, SWD or ENHR. <u>1/10/12</u>	Producing Method: ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain) _____				
Estimated Production Per 24 Hours	Oil Bbls. <u>7.71</u>	Gas Mcf	Water Bbls. <u>90.89</u>	Gas-Oil Ratio	Gravity <u>37.6</u>

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: ☒ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled (Submit ACO-5) (Submit ACO-4) ☐ Other (Specify) _____	PRODUCTION INTERVAL: RECEIVED
--	---	---

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

MAR 22 2012

KCC WICHITA



#1 O'Brien B/P Twin

2220' FSL & 420' FWL

90' S & 90' E of NW NW SW Section 7-20S-21W

Ness County, Kansas

API# 15-135-25320-0000

Elevation: 2209' GL: 2216' KB

Sample Tops			Ref. Well
Anhydrite	1425'	+791	+1
B/Anhydrite	1459'	+757	flat
Heebner	3712'	-1496	+1
Toronto	3734'	-1518	+1
Lansing	3760'	-1544	+1
Muncie Shale	3915'	-1699	flat
Stark Shale	4006'	-1790	flat
Hush.	4039'	-1823	-1
BKC	4067'	-1851	flat
Marmaton	4101'	-1885	flat
Altamont	4128'	-1912	-1
Pawnee	4180'	-1964	flat
Fort Scott	4257'	-2041	+1
Cherokee Shale	4278'	-2062	+2
Mississippian	4334'	-2118	+6
RTD	4338'	-2122	

CONFIDENTIAL

MAR 2 1 2014

KCC

RECEIVED

MAR 2 2 2012

KCC WICHITA



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER **33712**
LOCATION Oakley
FOREMAN Kelly Gabel

FIELD TICKET & TREATMENT REPORT

CEMENT						
DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-9-11	7173	O'Brien R-P Twin #1	7	20S	21W	KS Ness
CUSTOMER Ritchie Expl.			BENTONITE 75 SINO			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
			399	Damon M		
			528+T127	Miles S		
CITY	STATE	ZIP CODE				

JOB TYPE Post-collapse HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2 15.5
CASING DEPTH 4336 DRILL PIPE _____ TUBING _____ OTHER PC @ 1397
SLURRY WEIGHT 125 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 7 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting, Rigged up on well, Pressured tool to 600#,
Tool held, opened tool mix 290 SKS 65/35 600 gal 1/4" Flo-seal,
displaced with 7 bbl H2O. Closed tool & pressured to 600#,
Ran 400 ft tubing & reversed clean, washed out pump & s
lines. Rigged down & left location

Handwritten signature: Kelly Gabel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401B	1	PUMP CHARGE	12.50 ⁰⁰	12.50 ⁰⁰
5406	25	MILEAGE	5.00	125.00
1127A	290 SKS	65/35 Poz	15.20	4408.00
5407A	12.6	Tool Mileage delivery	1.58	497.20
1118B	1514#	Bentonite	.25	378.50
1107	73#	Flo-seal	2.82	205.86
CONFIDENTIAL				
MAR 21 2012				
KCC				
RECEIVED				
MAR 22 2012				
KCC WICHITA				
Lead in disc				
				686.50
				686.51
				6178.55
SALES TAX				
ESTIMATED				
TOTAL				

Ravin 3737

4:00 PM
AUTHORIZATION *[Signature]*

TITLE _____

DATE 12-9-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



CONSOLIDATED
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 33710
LOCATION Oakley
FOREMAN Walt Dinkel

FIELD TICKET & TREATMENT REPORT

CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-2-11	7173	O'Brien #1	7	20S	21W	NESS
CUSTOMER Ritchie Expl.			Bazine 75 E: 1140			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
			399	Dennis Miles Shaw		
			566	Cory Davis		
CITY			STATE			
ZIP CODE						

JOB TYPE Longstring HOLE SIZE 7 1/4 HOLE DEPTH 4338 CASING SIZE & WEIGHT 5 1/2 15.5 #
CASING DEPTH 4336 DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 21'
DISPLACEMENT 102 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: A safety Meeting, rigged up on pickeral Drilling. Ran Float Equip. Centralizers on Joints 1, 3, 5, 6, 9. Baskets on #1's 704 & 86 Packer shoe on bottom of #1. Insert on top of #1.

Casing on bottom, circ, Drop Ball + set Basket shoe, circ 30min
Pump 500 gal Mud Flush, mix 15 sks in R H, mix 150 sks 6940 porz, 10% salt
2% cel, 3/4 of 1% CDI-26, clear Pump lines, release Plug + displace 104 1/4
TBI 2' 800#, Landad Plug 2' 1500#, release Pressure, Float Held

Thank You
Walt Dinkel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	2850.00	2850.00
5407	25	MILEAGE	5.00	125.00
1131	165 sks	6940 porz	14.35	2367.75
1137	788 #	Salt	.42	330.96
1137	141 #	CDI-26	9.14	1,288.74
5407	7.10	Ton Mileage Delivery	1.58	410.00
4255	1	Basket Shoe	1,466.00	1,466.00
4454	1	Latchdown Assembly	303.00	303.00
4130	4	Centralizers	58.00	232.00
4104	2	Baskets	276.00	552.00
4285	1	Port Collar	2,075.00	2,075.00
	500 gal	Mud Flush	1.00	500.00
CONFIDENTIAL				
		MAR 21 2012		12,500.45
		Less 10% Disc	-	1,250.05
		KCC RECEIVED		11,250.40
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737

AUTHORIZATION

TITLE

MAR 22 2012

ESTIMATED TOTAL

KCC WICHITA

DATE 12-07-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

ALLIED CEMENTING CO., LLC. 042303

REMITTO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

RUSSELL, KANSAS 67663				Great Bend 11/15				
DATE <u>11-30-11</u>		SEC <u>7</u>	TWP <u>20S</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00am</u>	JOB FINISH <u>7:30am</u>
O'Brien & P LEASE <u>Turn</u>		WELL # <u>1</u>	LOCATION <u>Barine sec 8 South East corner</u>				COUNTY <u>Neos</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)								

CONTRACTOR <u>Robert H. Procell Drilling Co</u>		OWNER <u>Ritchie Exploration, Inc</u>	
TYPE OF JOB <u>one well backside</u>		CEMENT	
HOLE SIZE <u>12 1/4</u>	TD	AMOUNT ORDERED <u>100 cu. Con 394 cc 2 1/2 gal</u>	
CASING SIZE <u>8 3/8</u>	DEPTH		
TUBING SIZE <u>1 inch</u>	DEPTH <u>15 ft</u>		
DRILL PIPE	DEPTH		
TOOL	DEPTH		
PRES. MAX	MINIMUM	COMMON <u>100</u>	@ <u>14.25</u> <u>1625.00</u>
MEAS. LINE	SHOE JOINT	POZMIX	@
CEMENT LEFT IN CSG		GEL <u>2</u>	@ <u>21.25</u> <u>42.50</u>
PERFS.		CHLORIDE <u>4</u>	@ <u>58.20</u> <u>232.80</u>
DISPLACEMENT <u>Freshwater</u>		ASC	@

EQUIPMENT				
PUMP TRUCK	CEMENTER <i>Bob A.</i>			
#:	<i>398</i>	HELPER	<i>Jan P.</i>	
BULK TRUCK				
#:	<i>482-188</i>	DRIVER	<i>Jacob Jr.</i>	
BULK TRUCK				
#:		DRIVER		
HANDLING		<i>106</i>	② <i>2.25</i>	<i>238.50</i>
MILEAGE		<i>106 x 19 x .11</i>		<i>221.59</i>
REMARKS:			TOTAL	<i>236.09</i>

REMARKS:
Hook up to 1 inch line pump 100 ft. com.
396cc 2 gal abm backside at 8 1/2"
casing. Cement all circulate.

CHARGE TO: Petroleum Exploration, Inc.

DEPTH OF JOB	<u>15ct</u>	SERVICE
PUMP TRUCK CHARGE		<u>- 1125.00</u>
EXTRA FOOTAGE	()	
MILEAGE	<u>HUM 28</u>	() <u>7.00</u> <u>266.00</u>
MANIFOLD		()
	<u>HUM 38</u>	() <u>4.00</u> <u>152.00</u>
		()
		TOTAL <u>1543.00</u>

CHARGE TO: Relative Explanation, Inc.
STREET _____
CITY _____ STATE _____ ZIP _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____

To Allied Cementing Co., LLC:

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or _____

TOTAL _____

To Allied Cementing Co., LLC:
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Bill Skeen
SIGNATURE Bill Skeen

CONFIDENTIAL
MAR 21 2014

RECEIVED
MAR 22 2012
KCC WICHITA

KCC



ALLIED CEMENTING CO., LLC. 042375

 REMIT TO P.O. BOX 31
 RUSSELL, KANSAS 67663.

SERVICE POINT:

Great Bend, KS

DATE 11-29-11	SEC 7	TWP 20N	RANGE 21W	CALLED OUT	ON LOCATION	JOB START 12/1/11	JOB FINISH 12/01
LEASE BP	WELL# T-111	LOCATION Bazine, KS	7 south	NEES	STATE KS		
OLD OR NEW (Circle one)		East side					

 CONTRACTOR Pickrell #2
 TYPE OF JOB Surf
 HOLE SIZE 12 1/4 T.D. 222
 CASING SIZE 8 1/8 DEPTH 222
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX. MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

 OWNER Ritchie Exploration
 CEMENT
 AMOUNT ORDERED 150 sks Class A
290 cc 2 1/2 gal

 EQUIPMENT
 PUMP TRUCK CEMENTER Greg L
 # 366 HELPER Dustin C
 BULK TRUCK
 # 475-188 DRIVER Kevin W. Vince
 BULK TRUCK
 # DRIVER

COMMON	150	@ 16.25	2,437.50
POZMIX		@	
GEL	7	@ 2.25	15.75
CHLORIDE	5	@ 54.20	271.00
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	159	@ 2.25	357.75
MILEAGE	159 x 192.01	332.31	344.00
		TOTAL	3,515.30

REMARKS:

Pipe on bottom break circulation
 with rig mud. Hook up and
 mix 150 sks Class A 2 1/2 cc 2 1/2 gal
 Displace with 12 1/4 bbl fresh
 water. Shut in.
 Cement class circulate
 Rig down.

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		1125.00
EXTRA FOOTAGE	@	
MILEAGE HUM	38	@ 7.00 266.00
MANIFOLD	@	
hum	38	@ 4.00 152.00
	@	

 CHARGE TO: Ritchie Exploration
 STREET
 CITY STATE ZIP

TOTAL 1543.00

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or
 contractor to do work as is listed. The above work was
 done to satisfaction and supervision of owner agent or
 contractor. I have read and understand the "GENERAL
 TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME X Mike KernSIGNATURE X Mike Kern

Thank You

SALES TAX (if Any)

TOTAL CHARGES 5,058.3570% 20% 1,342.65DISCOUNT 3,665.65

PAID IN 30 DAYS

CONFIDENTIAL

MAR 21 2014

KCC

RECEIVED

MAR 22 2012

KCC WICHITA

AR