

ORIGINAL

4/3/14

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

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: 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: Bennie Dills  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_

1/27/12	2/5/12	2/5/12
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 135-25329-00-00  
Spot Description: 140' N & 90' E  
W/2 SE NW Sec. 3 Twp. 19 S. R. 21  East  West  
1,840 Feet from  North /  South Line of Section  
1,740 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Ness  
Lease Name: Moore D/P Well #: 4 Twin  
Field Name: \_\_\_\_\_  
Producing Formation: Mississippian Osage  
Elevation: Ground: 2297 Kelly Bushing: 2307  
Total Depth: 4418 Plug Back Total Depth: 4418  
Amount of Surface Pipe Set and Cemented at: 228 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1468 Feet  
If Alternate II completion, cement circulated from: 1468  
feet depth to: surface w/ 220 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 26200 ppm Fluid volume: 900 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: \_\_\_\_\_ Permit #: \_\_\_\_\_

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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 82-3-106 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: 4/3/12

KCC Office Use ONLY  
 Letter of Confidentiality Received  
Date: 4-3-12 to 4-3-14  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 4-11-12

Operator Name: Ritchie Exploration, Inc. Lease Name: Moore D/P Well #: 4 Twin  
 Sec. 3 Twp. 19 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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Attach Additional Sheets)  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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If no, Submit Copy)  List All E. Logs Run: <b>Radiation Guard Log</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum   SEE ATTACHED
--	--

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	12-1/4	8-5/8	23	228	common	165	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	4397	60/40 Poz	150	10% salt, 2% gel, 1/4% CD1-26

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				

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
	4397' - 4418' ***Open Hole***	500 gals 10% RWR-1 + AR-630	

TUBING RECORD: Size: 2-7/8" Set At: 4403' Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. <u>3/2/12</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>9.5</u>	Gas Mcf	Water Bbls. <u>69.5</u>	Gas-Oil Ratio	Gravity <u>38.6</u>		

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**#4 Moore D/P Twin**

1840' FNL & 1740' FWL

140°N & 90°E of W/2 SE NW Section 30-19S-21W

Ness County, Kansas

API# 15-135-25329-0000

Elevation: 2297' GL, 2307' KB

Sample Tops			Ref. Well
Anhydrite	1512'	+795	+7
B/Anhydrite	1542'	+765	+11
Heebner	3766'	-1459	+10
Lansing	3815'	-1508	+10
Muncie Shale	3977'	-1670	+5
Stark Shale	4072'	-1765	+4
Hush.	4100'	-1793	+4
BKC	4128'	-1821	+4
Pawnee	4232'	-1925	+10
Fort Scott	4314'	-2007	+10
Cherokee Shale	4330'	-2023	+12
Mississippian	4394'	-2087	+14
RTD	4401'	-2094	

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# ALLIED CEMENTING CO., LLC. 042370

Federal

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Creat Bunkles

DATE	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1-27-12	30	19	21W			8:00am	8:30am
MOORE O/P LEASE Turn	WELL # 4	LOCATION Bazine KS 5 1/2 South on RR Rd				COUNTY Ness	STATE KS
OLD OR NEW (Circle one)			Enter				

CONTRACTOR Prekrell Prg #1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 233  
 CASING SIZE 8 5/8 23 # DEPTH 233  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15 ft  
 PERFS.  
 DISPLACEMENT Fresh water

OWNER Ritchie Exploration Inc  
 CEMENT  
 AMOUNT ORDERED 165 sz Com 3%cc 2%gel

EQUIPMENT  
 PUMP TRUCK CEMENTER Bob R  
 # 366 HELPER Dustin C.  
 BULK TRUCK  
 # 341 DRIVER Vince P.  
 BULK TRUCK  
 # DRIVER

COMMON	<u>165</u>	@	<u>16.25</u>	<u>2042.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
HANDLING	<u>174</u>	@	<u>2.25</u>	<u>391.50</u>
MILEAGE	<u>174 x 17 x .11</u>		<u>325.50</u>	<u>344.00</u>
TOTAL				<u>3,210.95</u>

REMARKS:

Pipe on bottom boost circulation with org mud  
W/ 165 sz Com 3%cc 2%gel. Shut down.  
Start displacement with 13,886bl of Freshwater  
and shut in.  
Cement and Circulate / Wash up org down

SERVICE

DEPTH OF JOB	<u>233</u>			
PUMP TRUCK CHARGE				<u>1125.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>HUM 34</u>	@	<u>7.00</u>	<u>238.00</u>
MANIFOLD		@		
	<u>HUM 34</u>	@	<u>4.00</u>	<u>136.00</u>
TOTAL				<u>1,499.00</u>

CHARGE TO: Ritchie Exploration Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

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 & Mike Kern  
 SIGNATURE & Mike Kern

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 4,709.95  
70% 208 1,300.99  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
3,408.96

Thank you!

R

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# ALLIED CEMENTING CO., LLC. 042370

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Creat Banks

DATE <u>1-27-12</u>	SEC. <u>30</u>	TWP. <u>19</u>	RANGE <u>21W</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00am</u>	JOB FINISH <u>8:30am</u>
MOORE O/P LEASE <u>Turn</u>	WELL# <u>41</u>	LOCATION <u>Bazine #5 5 1/2 South on RR Rd</u>		COUNTY <u>Neosho</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)		<u>Enter</u>					

CONTRACTOR Prekrell Prg #1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 233  
 CASING SIZE 8 5/8 23# DEPTH 233  
 TUBING SIZE DEPTH  
 DRILL PIPE 4 1/2 DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSG. 15#  
 PERFS.  
 DISPLACEMENT Freshwater  
 EQUIPMENT  
 PUMP TRUCK CEMENTER Bob R  
 # 366 HELPER Dustin C.  
 BULK TRUCK  
 # 341 DRIVER Vance P.  
 BULK TRUCK  
 # DRIVER

OWNER Relative Exploration Inc  
 CEMENT  
 AMOUNT ORDERED 165.52 Com 3% gel 2% gel  
 COMMON 165 @ 16.25 2692.50  
 POZMIX @  
 GEL 3 @ 21.25 63.75  
 CHLORIDE 6 @ 58.20 349.20  
 ASC @  
 @  
 @  
 @  
 @  
 @  
 @  
 @  
 HANDLING 174 @ 2.25 391.50  
 MILEAGE 174 x 17 x .11 325.38 344.00  
 TOTAL 3,210.95

REMARKS:  
Pipe on bottom bore at circulation with org mud.  
Mix 165.52 Com 3% gel 2% gel. Shut down.  
Start displacement with 13,886bl of Freshwater  
and shut in.  
Cement did Circulate / Wash up org down

SERVICE  
 DEPTH OF JOB 233  
 PUMP TRUCK CHARGE 1125.00  
 EXTRA FOOTAGE @  
 MILEAGE Hum 34 @ 7.00 238.00  
 MANIFOLD @  
Hum 37 @ 4.00 136.00  
 @

CHARGE TO: Relative Exploration Inc  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 1,499.00

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 Mike Kern  
 SIGNATURE Mike Kern  
Thank you!

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL \_\_\_\_\_

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 4,709.95  
70% 208 1300.99  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
3408.96

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**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 33798  
LOCATION Odell 45  
FOREMAN Miles Shaw  
Fuzzy McCullick

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-9-12	7173	Moore D/P twin #4	30	19S	21W	Moore Co
CUSTOMER Richie Exploration			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
			DRIVER			

JOB TYPE port collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2" 15 1/2 lb  
CASING DEPTH 4397.09 DRILL PIPE \_\_\_\_\_ TUBING 2 7/8" OTHER port collar @ 1465'  
SLURRY WEIGHT 12.5 SLURRY VOL 1.50 WATER gal/sk 7.8 CEMENT LEFT in CASING None  
DISPLACEMENT 7.5 DISPLACEMENT PSI 300 MIX PSI 500 RATE \_\_\_\_\_

REMARKS: Safety meeting Rig up test closed tool to 800psi down tool established  
Circulation mix 220 sks 60/40 Gel 14# Flo + 100# Cottonseed hulls pumped  
7 1/2 bbls water displacement closed tool pressure tool 300 and held run 7 joints  
reversed tubing clean with 20 bbls water

Thank Miles Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401B	1	PUMP CHARGE	1695.00	1695.00
5460	25	MILEAGE	5.00	125.00
5407	9.5	Item delivery min	1.67	410.00
1131	220 sks	60/40 Poz mix	15.10	3322.00
1118B	1135 #	Bentonite Gel	.125	283.75
1107	55 #	Flo seal	2.82	155.10
1105	100 #	Cotton seed hulls	.55	55.00
			Subtotal	6045.85
			less 10% discount	604.59
			Subtotal	5441.26
			RECEIVED	
			APR 04 2012	
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			SALES TAX	216.37
			ESTIMATED	5763

Ravin 3737

AUTHORIZATION [Signature] TITLE \_\_\_\_\_

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.

DATE APR 03 2012  
KCC



**CONSOLIDATED**  
Oil Well Services, LLC



TICKET NUMBER 33905  
LOCATION Osage  
FOREMAN Fuzzy

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-5-12	717B	Moore D/P twin #4	30	19S	21W	NESS
CUSTOMER <u>Ridchie Exploration</u>			Bazine			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			4125	399	Damon M	
STATE			612	566	Cody R	
ZIP CODE					Kelly G	

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 4401' CASING SIZE & WEIGHT 5 1/2 15.5  
CASING DEPTH 4397 69 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER P-collar 1468'  
SLURRY WEIGHT 14.3 SLURRY VOL 1.29 WATER gal/sk 5.8 CEMENT LEFT in CASING 21 1/2  
DISPLACEMENT 104.1 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on pickrell #1 float equip. Cost 2, 4, 6, 69  
Basket Bottom #70 #86 Port Collar Top #70. Rig up and circulate  
open basket shoe @ 600'. Pump 5 BBL water, 500 gal flush, 5 BBL water  
Mix 30 SKS RH, 20 SKS MH. Mix 150 SKS 60/40 1090 salt, 20 gal  
1140 190 CDI-26. Wash pump and lines. Drop plug and displace 105 1/2  
BBLs LRT press 800' Land press 1500'. float held.

Thanks Fuzzy  
+ crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401c	1	PUMP CHARGE	3025 <sup>00</sup>	3025 <sup>00</sup>
5406	25	MILEAGE	5 <sup>00</sup>	125 <sup>00</sup>
5407	8.6 Ton	Ton Mileage Delivery (min)	167	410 <sup>00</sup>
1131	200	60/40 pos	1510	3020 <sup>00</sup>
1111	960#	Salt	.45	432 <sup>00</sup>
1137	43#	CDI-26	969	416 <sup>67</sup>
4255	1	Basket shoe 5 1/2	1466 <sup>00</sup>	1466 <sup>00</sup>
4454	1	Latchdown Assy 5 1/2	303 <sup>00</sup>	303 <sup>00</sup>
4130	4	Centralizers 5 1/2	58 <sup>00</sup>	232 <sup>00</sup>
4104	2	Baskets 5 1/2	276 <sup>00</sup>	552 <sup>00</sup>
4285	1	Port collar 5 1/2	2075 <sup>00</sup>	2075 <sup>00</sup>
1144G	500 gal	Mud flush	1 <sup>00</sup>	500 <sup>00</sup>
1118B	344#	Bentonite	.25	86 <sup>00</sup>
		sub total		12642 <sup>67</sup>
		less 10% disc		12642 <sup>71</sup>
		RECEIVED		
		247647 APR 04 2012		11378 <sup>40</sup>
		SALES TAX		515 <sup>01</sup>
		ESTIMATED TOTAL		11893 <sup>41</sup>

Ravin 3797

*[Handwritten signature]*

AUTHORIZATION \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

APR 03 2014

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.

KCC

*[Handwritten initials]*