

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

2/20/14  
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 Niemberger  
Phone: ( 316 ) 691-9500  
CONTRACTOR: License # 30606  
Name: Murfin Drilling Co., Inc.  
Wellsite Geologist: Dave Williams  
Purchaser: \_\_\_\_\_

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 (Corr, 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 #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
11/2/11	11/10/11	11/10/11

API No. 15 - 057-20759-00-00  
Spot Description: 20' S & 90' W  
W/2 SE SW Sec. 20 Twp. 28 S. R. 22  East  West  
640 Feet from  North /  South Line of Section  
1,560 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ford  
Lease Name: Copeland Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2471' Kelly Bushing: 2482'  
Total Depth: 5303' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 356' 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: 16200 ppm Fluid volume: 700 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 82-3-130, 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: 2/20/12

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: 2/20/12 - 2/20/14  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 2-24-12

Operator Name: Ritchie Exploration, Inc. Lease Name: Copeland Well #: 1  
 Sec. 20 Twp. 28 S. R. 22  East  West County: Ford

**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 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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Dual Induction Log</b> <b>Compensated Density/Neutron Log</b>	<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	12-1/4	8-5/8	24	356	common	225	3% cc, 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				

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

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TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <b>CONFIDENTIAL</b> FEB 20 2014
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**#1 Copeland**

640' FSL & 1560' FWL  
20'S & 90'W of W/2 SE SW  
Section 20-28S-22W  
Ford County, Kansas  
API# 15-057-20759-0000  
Elevation: 2471' GL: 2482' KB

Sample Tops			Ref. Well
Anhydrite	1475'	+1007	-15
B/Anhydrite	1516'	+966	-16
Stotler	3649'	-1167	-7
Heebner	4303'	-1821	-3
Lansing	4457'	-1975	-3
Muncie Shale	4634'	-2152	+4
Stark Shale	4794'	-2312	+2
Hush.	4834'	-2352	+2
BKC	4866'	-2384	Flat
Marmaton	4924'	-2442	+3
Altamont	4950'	-2468	+8
Pawnee	4991'	-2509	+9
Cherokee Shale	5031'	-2549	+15
Atoka Shale	5120'	-2638	+23
Mississippian	5153'	-2671	+30
RTD	5303'	-2821	

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# ALLIED CEMENTING CO., LLC. 037754

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

SERVICE POINT: Med. Lodge

DATE <u>11-3-11</u>	SEC. <u>20</u>	TWP. <u>28S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>3:30am</u>	JOB FINISH <u>4:30am</u>
LEASE <u>Lopeland</u>	WELL # <u>1</u>	LOCATION <u>Kingsdown W, 4 N, 1/4 E, N into</u>			COUNTY <u>Fuchs</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Merlin Rollins  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4" T.D. 356  
 CASING SIZE 8 3/8" DEPTH 356  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX 1000 psi MINIMUM  
 MEAS. LINE SHOE JOINT 32'  
 CEMENT LEFT IN CSG. 32'  
 PERFS.  
 DISPLACEMENT 20 1/2 bbls / 120

OWNER Ritchie Exploration  
 CEMENT  
 AMOUNT ORDERED 225sx A + 3 1/2 cut 2 1/2 gel

**EQUIPMENT**

PUMP TRUCK CEMENTER Mr. Thomsch  
 # 471/302 HELPER Ron Gilley  
 BULK TRUCK  
 # 363/290 DRIVER Darren Franklin  
 BULK TRUCK  
 # DRIVER

COMMON <u>225 sx</u>	@ <u>16.25</u>	<u>3656.25</u>
POZMIX	@	
GEL <u>5 sx</u>	@ <u>21.25</u>	<u>106.25</u>
CHLORIDE <u>8 sx</u>	@ <u>58.20</u>	<u>465.60</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>238</u>	@ <u>2.25</u>	<u>535.50</u>
MILEAGE <u>238/50/-11</u>		<u>1309.00</u>
<b>TOTAL</b>		<b><u>6072.60</u></b>

**REMARKS:**  
Back on pump 3 bbls / 120  
mix 225sx cement slotted Release plug  
dr 20 1/2 bbls / 120  
Temp plug 500 psi to 1000 psi  
Shut in. Cement did circulate

**SERVICE**

DEPTH OF JOB <u>356'</u>		
PUMP TRUCK CHARGE	<u>1125.00</u>	
EXTRA FOOTAGE <u>56</u>	@ <u>-95</u>	<u>53.20</u>
MILEAGE <u>100</u>	@ <u>7.00</u>	<u>700.00</u>
MANIFOLD <u>Hard Rental</u>	@	<u>200.00</u>
<u>Light Vehicle 100</u>	@ <u>4.00</u>	<u>400.00</u>
	@	

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

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**8 5/8 PLUG & FLOAT EQUIPMENT**

<u>1- Basket</u>	@	<u>478.00</u>
<u>2- Centralizers</u>	@ <u>64.00</u>	<u>128.00</u>
<u>1- cattle plate</u>	@	<u>112.00</u>
<u>1- Rubber plug</u>	@	<u>112.00</u>
	@	

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.

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 TOTAL 930.00  
 FEB 20 2012

PRINTED NAME JUAN TINOCO  
 SIGNATURE Juan Tinoco

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 9380.80 **KCC**  
 DISCOUNT 20% IF PAID IN 30 DAYS  
**Net 7504.64**

*[Handwritten Signature]*