

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

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: \_\_\_\_\_  
City: Wichita State: KS Zip: 67278 + 3188  
Contact Person: John Niernberger  
Phone: (316) 691-9500  
CONTRACTOR: License # \_\_\_\_\_  
Name: \_\_\_\_\_  
Wellsite Geologist: \_\_\_\_\_  
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: Ritchie Exploration  
Well Name: Stucky 36D #2  
Original Comp. Date: 11/16/09 Original Total Depth: 4655'  
 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 #: \_\_\_\_\_

2/22/11	2/22/11	2/25/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 109-20869-00-01  
Spot Description: 9' S & 1' W of  
E/2 SE/4 SE/4 Sec. 36 Twp. 13 S. R. 32  East  West  
651 Feet from  North /  South Line of Section  
331 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Logan  
Lease Name: Stucky 36D Well #: 2  
Field Name: \_\_\_\_\_  
Producing Formation: LKC/Myric/Fort Scott/Johnson  
Elevation: Ground: 2928' Kelly Bushing: 4591'  
Total Depth: 4655' Plug Back Total Depth: 4591'  
Amount of Surface Pipe Set and Cemented at: 219 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2445' Feet  
If Alternate II completion, cement circulated from: surface  
feet depth to: 2445' w/ 345 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. \_\_\_\_\_ East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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JUN 14 2013

**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: 06-14-11

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: 6/14/11 - 6/14/13  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 6-20-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Stucky 36D Well #: 2  
 Sec. 36 Twp. 13 S. R. 32  East  West County: Logan

**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	23#	219'	common	165	3%cc,2% gel
Production	7-7/8	5-1/2	15.5#	4644'	ASC	200	10% salt,2% gel, & 3/4" CD-31

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
4	4532' - 4536.5' (11/23/09)	800 GALS 15% NE	<b>RECEIVED</b> <b>JUN 15 2011</b> <b>KCC WICHITA</b>
4	4471.5'-4474',4459.5'-4462.5',4442.5'-4446' (11/23/09)	1000 GALS 15% NE	
4	4186' - 4191.5', 4164' - 4168' (11/23/09)	550 GALS 15% NE	
4	4130.5'-4135.5' (2/22/11)	550 GALS 15% NE	
4	4034.5'-4037.5' (2/22/11)	450 GALS 15% NE	

TUBING RECORD: Size: <u>2 7/8"</u> Set At: <u>4591'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CONFIDENTIAL
Date of First, Resumed Production, SWD or ENHR. <u>2/25/11</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		JUN 14 2013
Estimated Production Per 24 Hours	Oil Bbls. <u>96.34</u>	Gas Mcf <u>22.16</u>	Water Bbls. <u>22.16</u> Gas-Oil Ratio <b>KCC</b> Gravity <u>34.9</u>

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 checked="" type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**#2 Stucky 36D**  
651' FSL & 331' FEL  
9' S & 1' W of E/2 SE/4 SE/4 Section 36-13S-32W  
Logan County, Kansas  
API# 15-109-20869-0000  
Elevation: GL: 2928', KB: 2938'

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	2413'	+525	+9
B/Anhydrite	2433'	+505	+9
Heebner	3909'	-971	+11
Lansing	3951'	-1013	+10
Lansing "C"	3991'	-1053	+10
Lansing "D"	4005'	-1067	+10
Lansing "E"	4035'	-1097	+13
Lansing "H"	4126'	-1188	+10
Lansing "I"	4158'	-1220	+11
Lansing "J"	4182'	-1244	+12
Stark Shale	4202'	-1264	+8
Lansing "K"	4213'	-1275	+9
Lansing "L"	4251'	-1313	+7
BKC	4276'	-1338	+11
Pawnee	4400'	-1462	+9
Myric	4439'	-1501	+7
Fort Scott	4458'	-1520	+4
Cherokee Shale	4488'	-1550	+2
Johnson	4530'	-1592	+3
Morrow Sand	4589'	-1651	-13
Mississippian	4600'	-1662	-8
RTD	4655'	-1717	

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