

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

4/3/14
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 Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin 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 #: _____

<u>12/26/11</u>	<u>1/7/12</u>	<u>1/7/12</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 109-21061-00-00
Spot Description: 50' N & 130' E
E/2 - NE - Sec. 24 Twp. 13 S. R. 32 East West
1,270 Feet from North / South Line of Section
530 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: Eaton Trust Well #: 1
Field Name: _____
Producing Formation: LKC
Elevation: Ground: 29 Kelly Bushing: 2913
Total Depth: 4707 Plug Back Total Depth: 4659
Amount of Surface Pipe Set and Cemented at: 234 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2375 Feet
If Alternate II completion, cement circulated from: 2375
feet depth to: surface w/ 400 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 14400 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 82-3-130, 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: 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: WJ Date: 4-11-12

Operator Name: Ritchie Exploration, Inc. Lease Name: Eaton Trust Well #: 1
 Sec. 24 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: Compensated Density/Neutron Log Dual Induction Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum <p style="text-align: center;">SEE ATTACHED</p>
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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	234	common	175	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	4694	ASC	200	10% salt, 2% gel, 5#/sx gilsonite

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	4197-4200 (2/15/12)	500 gals 15% NE	RECEIVED APR 04 2012 KCC WICHITA
4	4120.5-4124.5 (2/15/12)	500 gals 15% NE	
4	4032-4035, 4039-4042 (2/15/12)		

TUBING RECORD: Size: <u>2-3/8"</u> Set At: <u>4598'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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>20.10</u>	Gas Mcf <u>12.10</u>	Water Bbls. Gas-Oil Ratio Gravity <u>39.5</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 type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <p style="text-align: center; font-weight: bold; font-size: 1.2em;">CONFIDENTIAL</p>
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RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Eaton Trust

1270' FNL & 530' FEL
50' N & 130' E of E/2 NE
Section 24-13S-32W
Logan County, Kansas
API# 15-109-21061-0000
Elevation: 2903' GL: 2913' KB

Sample Tops			Ref. Well
Anhydrite	2415'	+498	-9
B/Anhydrite	2436'	+477	-5
Heebner	3908'	-995	-5
Lansing	3952'	-1039	-3
LKC "C"	3986'	-1073	-3
Muncie Shale	4104'	-1191	-5
LKC "H"	4117'	-1204	-4
Stark Shale	4188'	-1275	-2
LKC "K"	4198'	-1285	-3
Hush.	4223'	-1310	-3
BKC	4260'	-1347	-4
Marmaton	4279'	-1366	-3
Altamont	4299'	-1386	-6
Pawnee	4382'	-1469	+3
Myrick	4418'	-1505	+3
Fort Scott	4434'	-1521	+4
Cherokee Shale	4464'	-1551	+4
Johnson	4510'	-1597	+3
B/Johnson	4536'	-1623	+5
Morrow Sand	4554'	-1641	-3
Mississippian	4577'	-1664	+6
RTD	4707'	-1794	

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P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 2004
Wichita, Kansas 67226-2328

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ALLIED CEMENTING CO., LLC. 036068

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

SERVICE POINT:

Eaton Twist 1

Oakley/Ky

DATE <i>1/16/12</i>	SEC <i>24</i>	TWP <i>13</i>	RANGE <i>32</i>	CALLED OUT	ON LOCATION <i>12:00 noon</i>	JOB START <i>2:30 p</i>	JOB FINISH <i>3:30 p</i>
LEASE <i>Eaton Twist</i> WELL # <i>2</i>		LOCATION <i>Oakley 135 E 151E Streets</i>			COUNTY <i>Wagon</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *Mitance*
 TYPE OF JOB *port collar*
 HOLE SIZE _____ T.D. _____
 CASING SIZE *5 1/2* DEPTH *4694'*
 TUBING SIZE *2 3/8* DEPTH *237*
 DRILL PIPE _____ DEPTH _____
 TOOL *port collar* DEPTH *2373*
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER *Some*

CEMENT
 AMOUNT ORDERED *490 yds 60/40 670 yds*
14 Flt
500 lb hulls on side
 used 400 SKS
 COMMON *240* @ *16.25* *3900.00*
 POZMIX *180* @ *8.30* *1500.00*
 GEL *2.3* @ *21.25* *446.25*
 CHLORIDE @ _____
 ASC @ _____
Flo Seal 1 @ 16 @ *22.00* *220.00*
 @ _____
 @ _____
 @ _____
 @ _____
 HANDLING *488 yds* @ *2.25* *1098.00*
 MILEAGE *14.516/mile* @ _____ *858.88*

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*
 # *284* HELPER *Wayne John-G.B*
 BULK TRUCK
 # *394* DRIVER *ETH*
 BULK TRUCK
 # _____ DRIVER _____

TOTAL *8251.63*

REMARKS:

*Run 700 port collar @ 2373 FT
 Test tool to 800 - field, Tank Rate - NO
 Circulation a Mix 20 yds, Tail w/ 380 yds cut
 500 lb hulls, get circulation w/ 50 SKS mixed
 w/ 1000 PZMIX, Circulate Cement, Displace Cement
 w/ 8 1/2 BBL. H.D. Base Test Tool to 1200 - field
 Run SPTs & Reverse Clean.
 Cement bed
 Circulate*

SERVICE

DEPTH OF JOB *237*
 PUMP TRUCK CHARGE *2125.00*
 EXTRA FOOTAGE @ _____
 MILEAGE *16 miles* @ *7.00* *112.00*
 MANIFOLD @ _____
16 miles @ *4.00* *64.00*
 @ _____

TOTAL *2301.00*

CHARGE TO: *Ritchie Exploration*
 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.

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS _____

PRINTED NAME _____
 SIGNATURE *Thomas A. A.*

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ALLIED CEMENTING CO., LLC. 035942

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

SERVICE POINT:

DARLEY

DATE <u>12-26-11</u>	SEC <u>24</u>	TWP <u>135</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>5:00 AM</u>	JOB START <u>6:30 PM</u>	JOB FINISH <u>7:00 PM</u>
EATON TRUST LEASE				WELL# <u>1</u>	LOCATION <u>DARLEY 13S-1E-1S-1E-5 INTD</u>	COUNTY <u>LOGAN</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>MURFIN DRG. REG # 14</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4"</u> T.D. <u>237'</u>	CEMENT AMOUNT ORDERED <u>175 SKS COM 3% CC 2% GEL</u>
CASING SIZE <u>8 7/8"</u> DEPTH <u>237'</u>	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>175 SKS @ 16 25 2843 75</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GEL <u>3 SKS @ 21 25 63 25</u>
PERFS.	CHLORIDE <u>6 SKS @ 58 20 349 20</u>
DISPLACEMENT <u>14.14 BBLs</u>	ASC @

EQUIPMENT

PUMP TRUCK CEMENTER <u>TERRY</u>
<u>431</u> HELPER <u>JERRY</u>
BULK TRUCK
<u>347</u> DRIVER <u>TYLER</u>
BULK TRUCK
DRIVER

REMARKS:

Pump 5 bbls water, mix 175 SKS
COM 3% CC 2% GEL. Displace with
14.14 BBLs WATER

CEMENT did circulate

THANK YOU

CHARGE TO: RETCHER EXPLORATION

STREET _____

CITY _____ STATE _____ ZIP _____

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 Greg March

SIGNATURE Greg March

HANDLING <u>184 SKS @ 2 25 414 25</u>
MILEAGE <u>114 PER SK / MILE @ 3 25 323 25</u>
TOTAL <u>3994 54</u>

SERVICE

DEPTH OF JOB <u>237'</u>
PUMP TRUCK CHARGE <u>1125 00</u>
EXTRA FOOTAGE @
MILEAGE <u>16 MZ @ 7 00 112 00</u>
MANIFOLD @
<u>Light Vehicle 16 MZ @ 4 00 64 00</u>
TOTAL <u>1301 00</u>

PLUG & FLOAT EQUIPMENT

@
@
@
@
TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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ALLIED CEMENTING CO., LLC. 036065

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

SERVICE POINT: Oakley, KS

DATE <u>1/7/12</u>	SEC. <u>24</u>	TWP. <u>13S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>4:00AM</u>	JOB START <u>12:00PM</u>	JOB FINISH <u>12:00PM</u>
LEASE <u>Estow Trust</u>	WELL# <u>1</u>	LOCATION <u>Oakley 13S 1E 15 1E Sinto</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR <u>MarFin 14</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Production</u>	
HOLE SIZE <u>7 1/2"</u>	T.D.
CASING SIZE <u>5 1/2"</u>	DEPTH <u>4707</u>
TUBING SIZE	DEPTH <u>4694</u>
DRILL PIPE	DEPTH
TOOL <u>Port Collar</u>	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

EQUIPMENT				
PUMP TRUCK	CEMENTER <u>Alan</u>			
# <u>422</u>	HELPER <u>Wayne</u>			
BULK TRUCK				
# <u>396</u>	DRIVER <u>Tyler, Billy</u>			
BULK TRUCK				
#	DRIVER			

CEMENT			
AMOUNT ORDERED	<u>250 SKS ASC 1070 salt</u>		
	<u>5# Gilsomite 270 gal 14-170 CD31</u>		
	<u>500 gal WFR II</u>		
COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	<u>250 SKS</u>	@ <u>19.00</u>	<u>4750.00</u>
	<u>Salt - 23 SKS</u>	@ <u>23.25</u>	<u>550.25</u>
	<u>Gilsomite 1250 lb</u>	@ <u>0.89</u>	<u>1112.50</u>
	<u>CD 31 58 lb</u>	@ <u>9.35</u>	<u>542.30</u>
	<u>WFR II 500 gal</u>	@ <u>1.22</u>	<u>635.00</u>
HANDLING	<u>300</u>	@ <u>2.25</u>	<u>675.00</u>
MILBAGE	<u>11.9 SK/mile</u>		<u>588.94</u>
TOTAL			<u>8869.89</u>

REMARKS:

Ann Cas, Circulate Min WFR II, Mix 20SKS in Hole
30SKS R. Hole, Mix 200 SKS Annov 5 1/2"
Cas, Wash Tank & Open, Display Plan to
Insert w/ 113 ROL to R w/ 1000 PSI
Land Pump 2200 PSI
Flood did Hand

SERVICE

DEPTH OF JOB	<u>4694'</u>		
PUMP TRUCK CHARGE			<u>2405.00</u>
EXTRA FOOTAGE	@		
MILEAGE	<u>16</u>	@ <u>7.00</u>	<u>112.00</u>
MANIFOLD	<u>Head</u>	@	<u>200.00</u>
Lite Vehicle	<u>16</u>	@	<u>64.00</u>
		@	

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2781.00

PLUG & FLOAT EQUIPMENT

<u>IR-Port collar - 1</u>		<u>2600.00</u>
<u>Guide shoe - 1</u>	@	<u>240.00</u>
<u>Turbolizers - 8</u>	@ <u>80.00</u>	<u>640.00</u>
<u>AFU Insert - 1</u>	@	<u>286.00</u>
<u>Baskets - 4</u>	@ <u>337.00</u>	<u>1348.00</u>
<u>Rubber Plug - 1</u>	@	<u>73.00</u>
TOTAL		<u>5787.00</u>

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PRINTED NAME _____
 SIGNATURE Thomas A. A...

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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