

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

1/26/14
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: 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 #: _____

10/12/11	10/22/11	10/22/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 057-20756-00-00
Spot Description: irregular section
_____ Sec. 4 Twp. 26 S. R. 22 East West
3,217 Feet from North / South Line of Section
2,000 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Imel Well #: 1
Field Name: _____
Producing Formation: Marmaton & Penn Basal Lime
Elevation: Ground: 2399 Kelly Bushing: 2410
Total Depth: 5000 Plug Back Total Depth: 4956
Amount of Surface Pipe Set and Cemented at: 347 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1460 Feet
If Alternate II completion, cement circulated from: 1460
feet depth to: surface w/ 300 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 24400 ppm Fluid volume: 1000 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 #: _____

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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: 1/30/12

KCC Office Use ONLY
 Letter of Confidentiality Received
Date: 1/26/12 - 1/26/14
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 2-7-12

Operator Name: Ritchie Exploration, Inc. Lease Name: Imel Well #: 1
 Sec. 4 Twp. 26 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: Dual Induction Log Compensated Density/Neutron 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	347	common	250	3%cc, 2% gel
Production	7-7/8	4-1/2	10.5	5003	AA-2	200	10% sat. 5% W-60, 50%x 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 <i>(Amount and Kind of Material Used)</i>	Depth
4	4799'-4801', 4837'-4847', 4831'-4834', 4821'-4826', 4816.5'-4819.5', 4809.5'-4814.5' (11/18/11)	2500 gallons 15% NE	
4	4675.5' - 4682.5' (11/18/11)	500 gallons 15% NE	

TUBING RECORD: Size: <u>2-3/8"</u> Set At: <u>4923'</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		RECEIVED JAN 31 2012 KCC WICHITA
Date of First, Resumed Production, SWD or ENHR. <u>12/5/11</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>	
Estimated Production Per 24 Hours	Oil Bbls. <u>40.25</u> Gas Mcf <u> </u> Water Bbls. <u>0</u> Gas-Oil Ratio <u> </u> Gravity <u>30.0</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) <u> </u>	PRODUCTION INTERVAL: <p style="text-align: center; font-size: 1.2em;">CONFIDENTIAL</p>
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#1 Imel

3217' FSL & 2000' FEL

Irregular Section 4-26S-22W

Ford County, Kansas

API# 15-057-20756-0000

Elevation: GL: 2399', KB: 2410'

Sample Tops			Ref. Well
Anhydrite	1487'	+923	-9
B/Anhydrite	1512'	+898	-7
Stotler	3480'	-1070	-3
Heebner	4101'	-1691	-5
Lansing	4207'	-1797	+2
Muncie Shale	4378'	-1968	+1
Stark Shale	4487'	-2077	Flat
Hush. Shale	4544'	-2134	+3
BKC	4584'	-2174	+1
Marmaton	4586'	-2176	+1
Altamont	4634'	-2224	+3
Pawnee	4716	-2306	-2
Fort Scott	4747'	-2337	-2
Cherokee Shale	4766'	-2356	-2
Atoka Shale	4845'	-2435	-2
Mississippian	4872'	-2462	-7
RTD	5000'	-2590	

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Cement Report

Customer <i>Ritchie Exploration</i>	Lease No.	Date <i>11-25-11</i>
Lease <i>Truc 1</i>	Well # <i>1</i>	Service Receipt <i>1412 07090</i>
Casing <i>4 1/2</i>	Depth <i>1490</i>	County <i>Ford</i> State <i>Ks</i>
Job Type <i>744 KILL/REPAIR</i>	Formation	Legal Description <i>11 26 22</i>

Pipe Data		Perforating Data		Cement Data
Casing size	Tubing Size	Shots/Ft		Lead
Depth	Depth	From	To	Tail in <i>300-# 11/140</i> <i>412 11/140 11/140</i> <i>153 11/140 11/140</i> <i>@ 13.5 #/ft</i>
Volume	Volume	From	To	
Max Press	Max Press	From	To	
Well Connection	Annulus Vol.	From	To	
Plug Depth	Packer Depth	From	To	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:45</i>					<i>cu loc. / Hold Safety Meeting</i>
<i>11:55</i>					<i>Spot + Rig up Equip.</i>
<i>12:14</i>	<i>1200</i>	<i>140</i>			<i>Test Lines + Csg</i>
<i>12:58</i>					<i>Open Tool</i>
<i>12:58</i>		<i>200</i>	<i>5</i>	<i>1-3</i>	<i>Start Free to H₂O</i>
<i>12:23</i>		<i>300</i>	<i>82</i>	<i>3</i>	<i>Start Cut 300-# @ 13.5 #</i>
<i>12:43</i>		<i>400</i>	<i>8</i>	<i>3</i>	<i>Start Disp. w/ Press to H₂O</i>
<i>12:46</i>		<i>500</i>	<i>85</i>	<i>3</i>	<i>Shut down + Close Tool</i>
<i>12:47</i>	<i>1200</i>	<i>1200</i>			<i>Test Csg.</i>
<i>12:52</i>					<i>Release</i>
<i>12:54</i>					<i>Pic Round in w/ 3 JTs</i>
<i>12:54</i>					<i>Wash up</i>
					<i>Re Hook up to well</i>
<i>14:02</i>		<i>300</i>	<i>10</i>	<i>2.5</i>	<i>Reverse well</i>
<i>14:02</i>		<i>350</i>	<i>9</i>	<i>2.5</i>	<i>Well Clean</i>
<i>14:09</i>		<i>4</i>	<i>10</i>	<i>4</i>	<i>Shut down</i>
<i>14:15</i>					<i>End Job</i>

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Service Units	<i>71755</i>	<i>29462</i>	<i>4447808</i>	<i>14755 14780</i>	
Driver Names	<i>Mike-y</i>	<i>Ed</i>	<i>Victor</i>	<i>Eddie</i>	

 G. R. LUK
 Customer Representative

 J. Bennett
 Station Manager

 M.C. ...
 Cementer

Cement Report

Lease: Ritchie Exploration Lease No. _____ Date: 10/21/11
 Lease: Imel Well # 1 Service Receipt _____
 Casing: 4 1/2 Depth: 5000' Rtd County: Ford State: KS
 Job Type: Logging Formation: _____ Legal Description: 4-26-22

Pipe Data		Perforating-Data		Cement Data
Casing size: <u>4 1/2</u>	Tubing Size: _____	Shots/Ft		Lead <u>200 SK AA-2</u> <u>214.8# 5% W-60 10% S</u> <u>6% C-15, 1/4# Dragnet</u> <u>50G, 150m, 16</u> <u>1.5111</u> <u>6.66 gal</u> Tail-in: <u>R+M 50s x 60% K</u> <u>100 @ 13.5#</u> <u>1.504</u> <u>7.50 gal</u>
Depth: _____	Depth: _____	From: _____	To: _____	
Volume: _____	Volume: _____	From: _____	To: _____	
Max Press: _____	Max Press: _____	From: _____	To: _____	
Well Connection: <u>P.C.</u>	Annulus Vol: _____	From: _____	To: _____	
Plug Depth: _____	Packer Depth: _____	From: _____	To: _____	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<u>20:30</u>					<u>on loc, spot trucks, Rig up, sat</u>
<u>10/22/11 21:45</u>					<u>Run F.E</u>
<u>01:39</u>					<u>Break Circ. 12' in air</u>
<u>01:40</u>	<u>100</u>		<u>12</u>	<u>2</u>	<u>Pump mud flush</u>
<u>01:46</u>	<u>100</u>		<u>5</u>	<u>2</u>	<u>H2O spacer</u>
<u>02:07</u>					<u>Plug R+M</u>
<u>02:17</u>	<u>150</u>		<u>0</u>	<u>5</u>	<u>St mix AA-2 @ 14.8#</u>
<u>02:41</u>	<u>0</u>		<u>54</u>	<u>-</u>	<u>Finished Mix</u>
<u>02:42</u>					<u>Wash up, Drop Plug</u>
<u>02:49</u>	<u>0</u>		<u>0</u>	<u>4-6</u>	<u>Start Diso</u>
<u>02:58</u>	<u>700</u>		<u>69</u>	<u>3</u>	<u>slow R+M</u>
<u>03:00</u>	<u>800-1400</u>				<u>PLUG DOWN</u>
					<u>Release Psi. float held</u>
					<u>Thank you</u>
					<u>Charl H (rew)</u>

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Service Units	<u>194846</u>	<u>3046319643</u>	<u>19482719566</u>		
Driver Names	<u>C. Hinz</u>	<u>R. Olds</u>	<u>S. Chavez</u>		

Gary Rowe Customer Representative Sorry Bennett Station Manager Charl H Cementer

ALLIED CEMENTING CO., LLC. 037290

110 BOX 31
RUSSELL, KANSAS 67665

IMEL#1

SERVICE POINT: Great Bendes

SEC <u>4</u>	TWP <u>20</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 am</u>	JOB FINISH <u>4:00 am</u>
BASE <u>1</u>	WELL # <u>1</u>	LOCATION <u>Jopasville 25 1/2 East 2 1/2 South</u>	COUNTY <u>Ford</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)		<u>1/2 East 1/2 South Oil into</u>				

CONTRACTOR Merlin Drilling Ryzzi
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 347
 CASING SIZE 8 7/8 24# DEPTH 347
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 347
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 30#
 PERFS. _____
 DISPLACEMENT Freshwater

OWNER Ritchie Exploration, Inc
 CEMENT
 AMOUNT ORDERED 250 sz Common 390cc 290gal

EQUIPMENT
 PUMP TRUCK CEMENTER Bob R.
 # 306 HELPER Dustin C.
 BULK TRUCK
 # 341 DRIVER Kevin W / Sonathan P.
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>250</u>	@	<u>16.25</u>	<u>4062.50</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>21.25</u>	<u>106.25</u>
CHLORIDE	<u>9</u>	@	<u>58.20</u>	<u>523.80</u>
ASC		@		
HANDLING	<u>264</u>	@	<u>2.25</u>	<u>594.00</u>
MILEAGE	<u>264 x 56 x 11</u>			<u>1626.24</u>
TOTAL				<u>6912.79</u>

REMARKS:
Pipe on bottom break circulation with 500 mud mix 250 sz Common 390cc 290gal shut down release plug and displace 200# freshwater lead plug and shut in. Cement did circulate

SERVICE

DEPTH OF JOB	<u>347</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>HUM</u>	<u>112</u>	@	<u>7.00</u> <u>784.00</u>
MANIFOLD		@	
<u>LUM</u>	<u>112</u>	@	<u>4.00</u> <u>448.00</u>
TOTAL <u>2357.00</u>			

CHARGE TO: Ritchie 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.

PLUG & FLOAT EQUIPMENT

<u>3- 3 1/2" Control Lines</u>	@	<u>64.00</u>	<u>192.00</u>
<u>1- 8 1/2" Baffle Plate</u>	@	<u>112.00</u>	<u>112.00</u>
<u>1- 8 1/2" rubber plug</u>	@	<u>112.00</u>	<u>112.00</u>
<u>1- 8 1/2" Basket</u>	@	<u>478.00</u>	<u>478.00</u>
TOTAL <u>894.00</u>			

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PRINTED NAME Juan Tinoco
 SIGNATURE Juan Tinoco
Thank you!

SALES TAX (If Any) _____
 TOTAL CHARGES 10,163.79
 DISCOUNT 70.00 3461.87
 TOTAL 6,701.92
 IF PAID IN 30 DAYS
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[Signature]