

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

2/20/14

Form ACO-1

June 2009

Form Must Be Typed

Form must be Signed

All blanks must be Filled

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: Max Lovely
Purchaser: _____

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 #: _____

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

API No. 15 - 057-20765-00-00
Spot Description: 66' S & 30' W
NE NW SW Sec. 18 Twp. 27 S. R. 22 East West
2,376 Feet from North / South Line of Section
960 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Henry 18BC Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 2436 Kelly Bushing: 2447
Total Depth: 5315 Plug Back Total Depth: 5280
Amount of Surface Pipe Set and Cemented at: 351 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1445 Feet
If Alternate II completion, cement circulated from: 1445
feet depth to: surface w/ 335 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 21000 ppm Fluid volume: 1800 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: _____

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KCC KCC WICHITA

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2079, 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: WJ Date: 2/24/10

Operator Name: Ritchie Exploration, Inc. Lease Name: Henry 18BC Well #: 1
 Sec. 18 Twp. 27 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	24	351	class A	250	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	5300	AA-2	175	5% W-60, 10% salt, .06% C-15

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
	No Perforation Records yet waiting on gas market		

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: _____ _____
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Henry 18BC

2376' FSL & 960' FWL

66' S & 30' W of NE NW SW Section 18-27S-22W

Ford County, Kansas

API# 15-057-20765-0000

Elevation: 2436' GL: 2447' KB

Sample Tops

Anhydrite	1486'	+961
B/Anhydrite	1517'	+930
Stotler	3539'	-1092
Heebner	4198'	-1751
Lansing	4324'	-1877
Muncie Shale	4520'	-2073
Stark Shale	4652'	-2205
Hush.	4689'	-2242
BKC	4733'	-2286
Marmaton	4788'	-2341
Pawnee	4858'	-2411
Cherokee Shale	4931'	-2484
Huck. LS	4976'	-2529
Atoka Shale	4982'	-2535
Mississippian	5008'	-2561
RTD	5315'	-2868

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BASIC
ENERGY SERVICES
Liberal, Kansas

Cement Report

Customer	Ritchie Exploration	Lease No.		Date	11-21-11
Lease	Henry	Well #	17BC	Service Receipt	02395
Casing	5 1/2" 15.5	Depth	5319'	County	Ford
Job Type	242-5 1/2" Production	Formation		State	KS
				Legal Description	17 27-22

Pipe Data		Perforating Data		Cement Data
Casing size	5 1/2" 15.5#	Tubing Size		Lead
Depth	5319'	Depth		
Volume	Disp- 1260 bbl	Volume		
Max Press	2500#	Max Press		Tail in
Well Connection	TD-5315'	Annulus Vol.		
Plug Depth	51-21' (5294)	Packer Depth	met collar 11115'	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
12:00					on loc. - site assessment
12:10					sort trucks on way
3:30					start csg & port equip.
6:30					con on bit at break die 1 hr.
9:00					safety meeting / JSA
7:30					pressure test 2500#
7:31	700		5	4	dump 5 bbl 1150 smear
7:33	700		12	4	dump 12 bbl mud flush
7:37	700		5	4	dump 5 bbl 1150 smear
7:40	25		135	4	plug rat + mouse holes w/ 20x
					60/110 Poz @ 13.5 min - 1.50434, 7
8:00	150		47	6	mix + dump 175 sk AA2 @ 10/5% W-110
					10% SH, 6% PLS, 4% Admixture, 5% Silica @
					14.7 min, 1.51 43sk, 6.61 gal/sk
8:10					wash dumping lines
8:15	0		0	7	drop down, drop csg
8:25	700		116	2	slow rate last 10 min
8:30	1200		126	0	hand plug start hold
					job complete
					estimated for ± 3800

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Service Units	34726	3811-10910	113511-19575	FEB 20 2014
Driver Names	A. Noveck	R. Martinez	H. Vintzala	KCC

G. Paulk Customer Representative J. Bennett Station Manager A. Noveck Cementer

Taylor Printing, Inc.

ALLIED CEMENTING CO., LLC. 036505

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

SERVICE POINT:
Liberal KS.

DATE <u>11-12-11</u>	SEC <u>18</u>	TWP <u>27s</u>	RANGE <u>22w</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00pm</u>	JOB FINISH <u>4:30pm</u>
Henry 188C LEASE		WELL # <u>1</u>	LOCATION <u>Vca Ford KS. 2 1/2</u>		COUNTY <u>Ford</u>	STATE <u>KS.</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)			<u>N 2 1/2 East 1 1/2 Nact Winto</u>				

CONTRACTOR Murtime #21 OWNER _____

TYPE OF JOB Surface

HOLE SIZE 12 1/2 T.D. 352

CASING SIZE 8 3/8 DEPTH 353.89

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 30.84

CEMENT LEFT IN CSG. 30.84

PERFS. _____

DISPLACEMENT 20.57 BBL H₂O

EQUIPMENT

CEMENT			
AMOUNT ORDERED	<u>250 SK</u>	<u>Clace A</u>	
	<u>3/CC</u>	<u>2.5 gal</u>	
COMMON	<u>250 @ 16.25</u>	<u>4062.50</u>	
POZMIX	@		
GEL	<u>5 @ 21.25</u>	<u>106.25</u>	
CHLORIDE	<u>9 @ 58.20</u>	<u>523.80</u>	
ASC	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	<u>264 @ 2.25</u>	<u>594.00</u>	
MILEAGE		<u>2758.80</u>	
		TOTAL	8045.35

PUMP TRUCK CEMENTER Kenney

#470-484 HELPER Jace

BULK TRUCK

#457-251 DRIVER Kenney

BULK TRUCK

_____ DRIVER _____

REMARKS:

THANK YOU!!!

CHARGE TO: Ritchie Exploration Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		<u>354 ft</u>
PUMP TRUCK CHARGE		<u>1125.00</u>
EXTRA FOOTAGE	<u>54 @ .95</u>	<u>51.30</u>
MILEAGE	<u>190 @ 7.00</u>	<u>1330.00</u>
MANIFOLD	<u>1 @ 200.00</u>	<u>200.00</u>
	<u>190 @ 4.00</u>	<u>762.00</u>
	@	
		TOTAL

TOTAL 3466.30

PLUG & FLOAT EQUIPMENT

Insert Float	<u>1 @ 262.00</u>	<u>262.00</u>
Basket	<u>1 @ 478.00</u>	<u>478.00</u>
Centrifuges	<u>2 @ 64.00</u>	<u>128.00</u>
Rubber Plug	<u>1 @ 79.00</u>	<u>79.00</u>
	@	
		TOTAL

TOTAL 952.00

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 Juan Tinoco

SIGNATURE Juan Tinoco

SALES TAX (If Any) _____

TOTAL CHARGES \$12463.65

DISCOUNT 2492.73 IF PAID IN 30 DAYS

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