

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

3/9/12

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 + 3118
Contact Person: John Niemberger
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Mike Engelbrecht
Purchaser: _____

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Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
_____ Oil _____ SWD _____ SIOW _____
 Gas _____ ENHR _____ SIGW _____
_____ CM (Coal Bed Methane) _____ Temp. Abd. _____
_____ Dry _____ Other _____
(Core, WSW, Expl., Cathodic, 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 _____
_____ Plug Back: _____ Plug Back Total Depth _____
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
11/24/09 12/3/09 12/4/09
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 057-20647-0000
Spot Description: 61' S & 120' W
C E/2 NW NW Sec. 21 Twp. 27 S. R. 23 East West
721 Feet from North / South Line of Section
870 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Maverick Well #: 1
Field Name: _____
Producing Formation: _____
Elevation: Ground: 2408 Kelly Bushing: 2420
Total Depth: 5105 Plug Back Total Depth: 5054
Amount of Surface Pipe Set and Cemented at: 437 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1336 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 1336 w/ 225 sx cmt.

Drilling Fluid Management Plan ATTN: 3-16-10
(Data must be collected from the Reserve Pit)
Chloride content: 10500 ppm Fluid volume: 1800 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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: 3/9/10
Subscribed and sworn to before me this 9th day of March
20 10.
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
_____ UIC Distribution

DEBRA K. PHILLIPS
Notary Public - State of Kansas
My Appt. Expires 5-4-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Maverick Well #: 1
 Sec. 21 Twp. 27 S. R. 23 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 copy of all Electric Wireline 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 <i>(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 <div style="text-align: center; font-weight: bold; font-size: 1.2em;"> SEE ATTACHED RECEIVED MAR 1 11 2010 KCC WICHITA </div>
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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
Conductor	32	20	64	80	8 sack grout	9 yards	
Surface	12-1/4	8-5/8	23	437	Class A	300	3% cc, 2% gel
Production	7-7/8	4-1/2	10.5	5097	ASC	200	10% seal, 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 <i>(Amount and Kind of Material Used)</i>	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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 Maverick

721' FNL & 870' FWL
61'S & 120'W of C E/2 NW NW Section 21-27S-23W
Ford County, Kansas
API# 15-057-20647-0000
Elevation: 2408' GL, 2420' KB

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	1400'	+1020	+32
Chase Herrington	2527'	+107	+27
Stotler	N/A		
Heebner	4102'	-1682	+10
Lansing	4224'	-1804	+17
Stark Shale	4550'	-2130	+11
Pawnee	4753'	-2333	+10
Cherokee Shale	4800'	-2380	+13
Atoka Shale	4904'	-2484	+2
Morrow Sand	4937'	-2517	-5
Chert	4975'	-2555	-29
Mississippian	5043'	-2623	-67
RTD	5105'	-2685	

ALLIED CEMENTING CO., LLC. 036260

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

SERVICE POINT:
Med. Lodge

DATE <u>12/4/09</u>	SEC. <u>21</u>	TWP. <u>27S</u>	RANGE <u>23W</u>	CALLED OUT <u>10:00AM</u>	ON LOCATION <u>4:00PM</u>	JOB START <u>11:30AM</u>	JOB FINISH <u>10:30PM</u>
MAVERICK LEASE		WELL # <u>1</u>	LOCATION <u>400 + Will Roads Jct.</u>	COUNTY <u>FORD</u>	STATE <u>KANSAS</u>		
OLD OR (NEW) (Circle one)			<u>1 SOUTH, 2 1/2 EAST, N/S</u>				

CONTRACTOR DUKE DRUG #1

TYPE OF JOB PRODUCTION CASING

HOLE SIZE 7 7/8" I.D. 510.5'

CASING SIZE 4 1/2" 10.5" DEPTH 510.2'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL PORT COLLAR DEPTH _____

PRES. MAX 1600# MINIMUM _____

MEAS. LINE _____ SHOE JOINT 22.70'

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT B1 BBls WATER

EQUIPMENT _____

PUMP TRUCK CEMENTER KEVIN BRUNARDI

352 HELPER DAVID FELTO

BULK TRUCK _____

381-250 DRIVER RON BELLEY

BULK TRUCK _____

_____ DRIVER _____

REMARKS:
PUMP 500 GALLONS ASF
PLUG RAT HOLE / 30 SACKS
PLUG MOUSE HOLE / 20 SACKS
CEMENT CASING WITH 700 SACKS
DISPLACE PLUG TO 5079' B1 BBls
FLOAT DED HOLD.

CHARGE TO: RITCHE EXPLORATION, INC.

STREET P.O. BOX 783188

CITY WICHITA STATE KANSAS ZIP 67278

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 _____

SIGNATURE X Guy Rowe

OWNER RITCHE EXPLORATION, INC.

CEMENT AMOUNT ORDERED 500 CASES ASF

250 SACKS ASC + S# COL-SEAL + S# R-160

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC		<u>250</u>	@ <u>18.60</u> <u>4650.00</u>
COL-SEAL		<u>1250#</u>	@ <u>.89</u> <u>1112.50</u>
R-160		<u>114#</u>	@ <u>13.30</u> <u>1516.20</u>
ASF		<u>500 CASES</u>	@ <u>1.27</u> <u>635.00</u>
HANDLING		<u>250</u>	@ <u>2.40</u> <u>600.00</u>
MILEAGE		<u>250 x 40</u>	@ <u>.10</u> <u>1000.00</u>
			TOTAL <u>9513.70</u>

SERVICE

DEPTH OF JOB		<u>5102'</u>	
PUMP TRUCK CHARGE			<u>2295.00</u>
EXTRA FOOTAGE	@		
MILEAGE		<u>40</u>	@ <u>7.00</u> <u>280.00</u>
MANIFOLD	@		
HEAD RENTAL	@	<u>100.00</u>	<u>N/C</u>
			TOTAL <u>2575.00</u>

PLUG & FLOAT EQUIPMENT

1- 4 1/2" TRP.			<u>62.00</u>
1- GUIDE WOE	@	<u>72.80</u>	<u>72.80</u>
1- AFU INSERT	@	<u>100.00</u>	<u>100.00</u>
1- PORT COLLAR	@	<u>1673.00</u>	<u>1673.00</u>
2- BASKETS	@	<u>147.00</u>	<u>294.00</u>
7- TURBOLIFTERS	@	<u>37.80</u>	<u>264.60</u>
			TOTAL <u>2467.20</u>

SALES TAX (If Any) _____

TOTAL CHARGES [scribble]

DISCOUNT [scribble] IF PAID IN 30 DAYS

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[Signature]

ALLIED CEMENTING CO., LLC. 036931

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

SERVICE POINT:
Medicine Lodge #5

DATE <u>11-25-09</u>	SEC <u>21</u>	TWP <u>27S</u>	RANGE <u>23W</u>	CALLED OUT <u>12:00 PM</u>	ON LOCATION <u>4:00 AM</u>	JOB START <u>9:00 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>mgk/cccc</u>	WELL # <u>1</u>	LOCATION <u>Hwy 400 & W 1/2 Roberts Garden</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)		Loc, 1S, 2 1/2 E, N 6 E / into					

CONTRACTOR Duke #1
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 440
 CASING SIZE 8 5/8 DEPTH 440'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT 26 3/4 bbls of Freshwater

OWNER Richie Exploration
 CEMENT
 AMOUNT ORDERED 300 sk Class A + 8% CC + 2% Gel

COMMON <u>A 300 SK</u>	@	<u>15.45</u>	<u>4635.00</u>
POZMIX _____	@	_____	_____
GEL <u>6 SK</u>	@	<u>20.80</u>	<u>124.80</u>
CHLORIDE <u>10 SK</u>	@	<u>58.00</u>	<u>582.00</u>
ASC _____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
HANDLING <u>300</u>	@	<u>2.40</u>	<u>720.00</u>
MILEAGE <u>300 / 10 / 40</u>			<u>1200.00</u>
TOTAL			<u>7261.80</u>

EQUIPMENT
 PUMP TRUCK CEMENTER Darin E.
 # 352 HELPER David F.
 BULK TRUCK
 # 421-251 DRIVER Matt T.
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Pipe on bottom & Break Circulation
Pump 3 bbls of Fresh Water & start
mix 300sk of Cement, Shut down
Release Plug, Start Displacement,
Pump 26 3/4 bbls & Shut in, Cement
did Circulate

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

SERVICE

DEPTH OF JOB <u>440'</u>			
PUMP TRUCK CHARGE			
EXTRA FOOTAGE <u>N/C</u>	@	<u>N/C</u>	
MILEAGE <u>40</u>	@	<u>7.00</u>	<u>280.00</u>
MANIFOLD _____	@	_____	_____
<u>Reed Renter</u>	@	<u>N/C</u>	_____
_____	@	_____	_____
TOTAL			<u>1298.00</u>

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>			
<u>1-Rubber Plug</u>	@		<u>113.00</u>
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
_____	@	_____	_____
TOTAL			<u>113.00</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.

PRINTED NAME X Mike Coffroy
 SIGNATURE X Mike Coffroy

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

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ALLIED CEMENTING CO., LLC. 036943

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

VICE POINT:
Medicine Lodge, ks

DATE <u>12-11-05</u>	SEC. <u>21</u>	TWP. <u>27S</u>	RANGE <u>23W</u>	CALLED OUT <u>6:00 AM</u>	ON LOCATION <u>11:00 AM</u>	JOB START	JOB FINISH
LEASE <u>Moverick</u> WELL# <u>1</u>		LOCATION <u>4000 W 11 Roads Rd, 1S</u>			COUNTY <u>Forb</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>2 1/2 E, N 2 E 1 in 20</u>					

CONTRACTOR Professional Pulling Service OWNER Ritchie Exploration

TYPE OF JOB Port Collar

HOLE SIZE 7 7/8 T.D. _____ CEMENT _____

CASING SIZE 4 1/2 DEPTH 5102' AMOUNT ORDERED _____

TUBING SIZE 2 7/8 DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port collar DEPTH 1336'

PRES. MAX _____ MINIMUM _____ COMMON _____ @ _____

MEAS. LINE _____ SHOE JOINT _____ POZMIX _____ @ _____

CEMENT LEFT IN CSG. _____ GEL _____ @ _____

PERFS. _____ CHLORIDE _____ @ _____

DISPLACEMENT 60ls of Fresh Water ASC _____ @ _____

EQUIPMENT _____ @ _____

PUMP TRUCK CEMENTER Darin E _____ @ _____

471-302 HELPER Msrk Coley _____ @ _____

BULK TRUCK _____ @ _____

482-281 DRIVER Glen D _____ @ _____

BULK TRUCK _____ @ _____

_____ DRIVER _____ @ _____

HANDLING 225 @ 2.40 540.00

MILEAGE 225/10/40 920.00

TOTAL 1440.00

REMARKS:

Incomplete Service

Pressure up on tool to 5000psi

Tried to open tool

Tubing twisted all

SERVICE

DEPTH OF JOB 5102

PUMP TRUCK CHARGE 118.5.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 40 @ 7.00 280.00

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL 1465.00

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.

PRINTED NAME X BENNIE DILLS

SIGNATURE X Bennie Dills

SALES TAX (If Any) _____

TOTAL CHARGES [scribble]

DISCOUNT [scribble] IF PAID IN 30 DAYS

-TCN-

ALLIED CEMENTING CO. I.C. 043022

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

SERVICE POINT:
Medicine Lodge, KS

DATE <i>2/15/09</i>	SEC. <i>21</i>	RWP. <i>27s</i>	RANGE <i>23w</i>	CALLED OUT <i>7:00 Am</i>	ON LOCATION <i>10:00 Am</i>	JOB START <i>11:00 Am</i>	JOB FINISH <i>12:30 PM</i>
LEASE <i>Maverick</i>	WELL # <i>1</i>	LOCATION <i>400^{us} & Wilbonds, 1s, 2 1/2 E, N of Epim</i>			COUNTY <i>Foard</i>	STATE <i>Ks</i>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR *Professional Pulling Service*

TYPE OF JOB *Foat Collar*

HOLE SIZE *7 7/8* T.D. _____

CASING SIZE *4 1/2* DEPTH *5102*

TUBING SIZE *2 3/8* DEPTH *7336*

DRILL PIPE DEPTH _____

TOOL DEPTH _____

PRES. MAX *1200* MINIMUM _____

MEAS. LINE SHOE JOINT _____

CEMENT LEFT IN CSG. *N/A*

PERFS. _____

DISPLACEMENT *5 Bbls Fresh H₂O*

EQUIPMENT _____

OWNER *Ritchie Explo.*

CEMENT AMOUNT ORDERED *450 sx 60:40:6% gel + 1/4" Flaseal (used 220 sx) 200# Hulls*

COMMON	<i>Class A 135</i>	@	<i>15.45</i>	<i>2085.75</i>
POZMIX	<i>90</i>	@	<i>8.00</i>	<i>720.00</i>
GEL	<i>12</i>	@	<i>20.80</i>	<i>249.60</i>
CHLORIDE		@		
ASC		@		
<i>Hulls</i>	<i>4</i>	@	<i>31.85</i>	<i>127.40</i>
		@		
		@		
		@		
		@		
		@		
HANDLING	<i>225</i>	@	<i>2.40</i>	<i>540.00</i>
MILEAGE	<i>225/40/10</i>	@		<i>900.00</i>
TOTAL				<i>4162.75</i>

PUMP TRUCK CEMENTER *D. Felin*

360-265 HELPER *S. Priddy*

BULK TRUCK

363-214 DRIVER *M. Thimesch*

BULK TRUCK

_____ DRIVER _____

REMARKS:
*tubing at 1336' Press. test, H₂O open Port
Collar, Establish Circ. Mix 225 sx Cement
Disp. w/ 5 Bbls Fresh, Close tool, Press test
H₂O, Run in 5 str, Reverse out w/ 25 Bbls
Fresh H₂O*

SERVICE

DEPTH OF JOB *1336*

PUMP TRUCK CHARGE *1185.00*

EXTRA FOOTAGE @ _____

MILEAGE *40* @ *7.00* *280.00*

MANIFOLD *N/A* @ _____

TOTAL *1465.00*

CHARGE TO: *Ritchie Explo.*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

None

@ _____

@ _____

@ _____

@ _____

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.

PRINTED NAME *Thomas A. Atkins*

SIGNATURE *Thomas A. Atkins*

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

RECEIVED
MAR 10 2010
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AT