

KANSAS CORPORATION COMMISSION
 OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
 WELL HISTORY - DESCRIPTION OF WELL & LEASE

Form ACO-1
 October 2008
 Form Must Be Typed

ORIGINAL

3/9/12

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 # 30606
 Name: Murfin Drilling Co., Inc.
 Wellsite Geologist: Jeff Christian
 Purchaser: NCRA
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other _____
 (Core, WSW, Expl., Cathodic, etc.)

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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.: _____

<u>12/16/09</u>	<u>1/5/10</u>	<u>1/5/10</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 063-21822-0000
 Spot Description: 30' N & 100' W
E/2 E/2 SW Sec. 20 Twp. 13 S. R. 31 East West
1350 Feet from North / South Line of Section
2210 Feet from East / West Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
 County: Gove
 Lease Name: Phillips 20C Well #: 2
 Field Name: _____
 Producing Formation: LKC & Johnson
 Elevation: Ground: 2874 Kelly Bushing: 2879
 Total Depth: 4620 Plug Back Total Depth: 4591
 Amount of Surface Pipe Set and Cemented at: 218 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: 2323 Feet
 If Alternate II completion, cement circulated from: surface
 feet depth to: 2323 w/ 375 sx cmt.

Drilling Fluid Management Plan AH II 203-2270
 (Data must be collected from the Reserve Pit)
 Chloride content: 12000 ppm Fluid volume: 700 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 Appl Expires 5-4-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Phillips 20C Well #: 2
 Sec. 20 Twp. 13 S. R. 31 East West County: Gove

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 SEE ATTACHED <div style="text-align: center; font-size: 24px; font-weight: bold;">RECEIVED</div> <div style="text-align: center; font-size: 24px; font-weight: bold;">MAR 10 2010</div>
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CASING RECORD <small>Use New Sacks</small>							
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	218	common	170	3%cc, 2%gel
Production	7-7/8	5-1/2	17	4616	ASC	200	10% est, 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	4468.5' - 4473 (1/18/10)		
4	4073.5' - 4078' (1/18/10)	500 gals 15% NE	

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4562</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SWD or Entr. <u>1/22/10</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. <u>125.28</u>	Gas Mcf	Water Bbls. <u>18.72</u>	Gas-Oil Ratio	Gravity <u>36.7</u>
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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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#2 Phillips 20C
1350' FSL & 2210' FWL
30' N & 100' W of E/2 E/2 SW Section 20-13S-31W
Gove County, Kansas
API# 15-063-21822-0000
Elevation: 2874' GL, 2879' KB

<u>Sample Tops</u>			<u>Ref.</u>	<u>Well</u>
Anhydrite	2355'	+524	-7	
B/Anhydrite	2378'	+501	-7	
Topeka	3645'	-766	-11	
Heebner	3863'	-984	-11	
Lansing	3906'	-1027	-13	
Lansing "C"	3938'	-1059	-12	
Lansing "D"	3958'	-1079	-4	
Lansing "E"	3986'	-1107	-12	
Muncie Shale	4057'	-1178	-11	
Lansing "H"	4072'	-1193	-8	
Lansing "I"	4101'	-1222	-6	
Lansing "J"	4119'	-1240	-6	
Stark Shale	4140'	-1261	-7	
BKC	4211'	-1332	-5	
Altamont	4264'	-1385	-8	
Pawnee	4340'	-1461	-2	
Myric	4378'	-1499	-5	
Fort Scott	4395'	-1516	-3	
Cherokee Shale	4422'	-1543	-3	
Johnson	4464'	-1588	-2	
B/Johnson	4486'	-1607	-2	
Morrow Sand	4493'	-1614	-3	
Mississippian	4554'	-1675	-52	
RTD	4620'	-1741		

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ALLIED CEMENTING CO., LLC. 043764

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

Phillips 200-2

SERVICE POINT:
Oakley

DATE <u>1-8-10</u>	SEC. <u>20</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00p.m</u>	JOB FINISH <u>4:30pm</u>
LEASE <u>Phillips 620</u>	WELL # <u>2</u>	LOCATION <u>Oakley 113.3E 4S 12E</u>		COUNTY <u>Gove</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>				N into			

CONTRACTOR Express well service OWNER Same
 TYPE OF JOB Port collar
 HOLE SIZE _____ T.D. _____ CEMENT _____
 CASING SIZE 5/8 DEPTH _____ AMOUNT ORDERED 450 sks 6940 628906
 TUBING SIZE 2 7/8 DEPTH 2323' 1/4 Flo-seal 500# hulls
 DRILL PIPE _____ DEPTH _____ used 375 sks cement 350# hulls
 TOOL Port collar DEPTH 2323'
 PRES. MAX _____ MINIMUM _____ COMMON 225 sks @ 15.45 3476.25
 MEAS. LINE _____ SHOE JOINT _____ POZMIX 150 sks @ 8.00 1200.00
 CEMENT LEFT IN CSG. _____ GEL 20 sks @ 20.80 416.00
 PERFS. _____ CHLORIDE _____
 DISPLACEMENT 13.47 cu ft RECEIVED _____

EQUIPMENT
 PUMP TRUCK CEMENTER Andrea Flo-seal 94# @ 2.50 235.00
 # 420-281 HELPER Loren RCC WICHITA 350# 75 sks @ 31.85 222.95
 BULK TRUCK _____ @ _____
 # 396 DRIVER Jerry @ _____
 BULK TRUCK _____ @ _____
 # _____ DRIVER _____ @ _____
 HANDLING 477 sks @ 2.40 1144.80
 MILEAGE 100 sk/mile @ 9.59 959.00
 TOTAL 2699.00

REMARKS:
Pressure system to 1200^{psi} open
Port collar Take Injection rate
400Lm in 400^{psi} mix 325 sks cement
Displace close Port collar pressure
to 1200^{psi} Run 3 joints Reverse clean
Cement did circulate. Used 350#
cottonseed hulls
thank you

SERVICE
 DEPTH OF JOB 2223
 PUMP TRUCK CHARGE 1185.00
 EXTRA FOOTAGE @ _____
 MILEAGE 20 miles @ 7.00 140.00
 MANIFOLD @ _____
 @ _____
 @ _____
 TOTAL 1325.00

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 cement 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 Thomas A. A. A.

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

TR

ALLIED CEMENTING CO., LLC. 039085

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

SERVICE POINT:

Phillips 2002

Oakley KS

DATE <i>1/5/10</i>	SEC. <i>20</i>	TWP. <i>13</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION <i>7:00 AM</i>	JOB START <i>1:00 PM</i>	JOB FINISH <i>2:00 PM</i>
LEASE <i>Phillips C20</i>	WELL # <i>#117</i>	LOCATION <i>Oakley 11.5 E 570 Rd</i>			COUNTY <i>Gove</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>0 1/2 E NINTO</i>			

CONTRACTOR *Martin 8*
 TYPE OF JOB *Production*
 HOLE SIZE *7 7/8* T.D.
 CASING SIZE *5 1/2* 17lb DEPTH *4616'*
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL *Part Collar* DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT *19.19*
 CEMENT LEFT IN CSG. *19.19*
 PERFS.
 DISPLACEMENT *106' 1/2 18 L H₂O*
 EQUIPMENT

PUMP TRUCK CEMENTER *Alan*
 # *423* HELPER *LaRen*
 BULK TRUCK
 # *373* DRIVER *Terry*
 BULK TRUCK
 # DRIVER

OWNER *Same*
 CEMENT
 AMOUNT ORDERED *225 SK AS C 1070 salt*
5# Gilsonite 3/4-170 CD 31,
270 gal 1500 gal WFR II
 COMMON @
 POZMIX @
 GEL *4* @ *20.00* *83.00*
 CHLORIDE @
 ASC *225 SK* @ *18.60* *4185.00*
 @
CD-31 -159 lb @ *9.35* *1486.65*
 @
Gilsonite -1125 lb @ *89* *1001.25*
 @
salt -22 SK @ *23.95* *526.90*
WFR II 500 gal @ *1.27* *635.00*
 @
 HANDLING *272 SK* @ *2.40* *664.80*
 MILEAGE *109 SK/mile* @ *5.54* *554.00*
 TOTAL *9136.80*

REMARKS:

*Mix 500 gal WFR II, Mix salt hole, Mix
 5# Gilsonite, Mix salt hole, Mix
 Displace Plug to Fract in 106 1/2 lbs H₂O
 w/ 900 PSI LIFT, Land Plug @ 1500 PSI
 Fract Held.*

*Thank You
 Alan, LaRen, Terry*

CHARGE TO: *Ritchie Exploration*
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB *4597'*
 PUMP TRUCK CHARGE *2011.00*
 EXTRA FOOTAGE @
 MILEAGE *20* @ *7.00* *140.00*
 MANIFOLD @
 @
 @
 TOTAL *2157.00*

PLUG & FLOAT EQUIPMENT

TR	Part Collar	-1			<i>1750.00</i>
TR	Quality Stop	-1	@	<i>101.00</i>	<i>101.00</i>
TR	Fract	-1	@	<i>112.00</i>	<i>112.00</i>
TR	Turbosizer	-1	@	<i>92.00</i>	<i>92.00</i>
TR	Brackets	-3	@	<i>161.00</i>	<i>483.00</i>
W	Bucket	-1	@	<i>186.00</i>	<i>186.00</i>
TR	Rubber Plug	-1	@	<i>87.00</i>	<i>87.00</i>
					TOTAL <i>3055.00</i>

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 *Carlos Javier Juarez*
 SIGNATURE *Carlos Javier Juarez*

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

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KCC WICHITA

TR

ALLIED CEMENTING CO., LLC. 044438

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

SERVICE POINT:
OKMOKS

DATE <u>12-16-09</u>	SEC. <u>20</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>4:15pm</u>	JOB START <u>8:30am</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>Phillips 20c</u>	WELL # <u>*2</u>	LOCATION <u>Oakley S. Grove Rd 36</u>			COUNTY <u>Gove</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)				<u>45 1126 N 2</u>			

CONTRACTOR Murphy #8 OWNER _____

TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 218'
 CASING SIZE 8 1/2 DEPTH 218'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 12.9

CEMENT AMOUNT ORDERED 170sk Com 3 acc
200cel

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzie
 # 423 HELPER LaRene
 BULK TRUCK
 # 377 DRIVER Darmon
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>170</u>	@ <u>15 45</u>	<u>262650</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>20 00</u>	<u>62 40</u>
CHLORIDE	<u>6</u>	@ <u>58 20</u>	<u>349 20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>179</u>	@ <u>2 40</u>	<u>429 60</u>
MILEAGE	<u>1043 kmile</u>		<u>358 00</u>
TOTAL			<u>3825 20</u>

REMARKS:

Cement did circulate
Job complete @ 8:45
Thanks Fuzzie crew

SERVICE

DEPTH OF JOB	<u>218</u>	<u>00</u>
PUMP TRUCK CHARGE		<u>1019 00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>20</u>	@ <u>7 00</u> <u>140 00</u>
MANIFOLD	@	
	@	
	@	
TOTAL <u>1158 00</u>		

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

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL _____		

RECEIVED
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 KCC WICHITA

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 Kelly Wilson

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