

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

9/29/09

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 # 30606  
Name: Murfin Drilling, Co., Inc.  
Wellsite Geologist: Steve Carl  
Purchaser: NCRA

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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.: \_\_\_\_\_  
6/26/09 7/13/09 7/14/09  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 063-21783-00-00  
Spot Description: 50' N & 7' E SW NW SE  
SW    NW    SE    Sec. 20 Twp. 13 S. R. 31  East  West  
1700 Feet from  North /  South Line of Section  
2303 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Gove  
Lease Name: Hess 20D Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: LKC  
Elevation: Ground: 2878 Kelly Bushing: 2888  
Total Depth: 4602 Plug Back Total Depth: 4568  
Amount of Surface Pipe Set and Cemented at: 213 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 2344 Feet  
If Alternate II completion, cement circulated from: surface  
feet depth to: 2344 w/ 300 sx cmt.

Drilling Fluid Management Plan AK II NJ 10-28-09  
(Data must be collected from the Reserve Pit)  
Chloride content: 10000 ppm Fluid volume: 1000 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: 9/29/09  
Subscribed and sworn to before me this 29<sup>th</sup> day of September  
20 09  
Notary Public: Debra K Phillips  
Date Commission Expires: 5-4-11

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

KCC Office Use ONLY  
 Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
RECEIVED  
KANSAS CORPORATION COMMISSION

SEP 30 2009  
CONSERVATION DIVISION  
WICHITA, KS

Operator Name: Ritchie Exploration, Inc. Lease Name: Hess 20D Well #: 1  
 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: <b>Dual Induction Log</b> <b>Compensated Density/Neutron Log</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum  SEE ATTACHED  <div style="text-align: right;"> <b>KCC</b>  <b>SEP 29 2009</b>  <b>CONFIDENTIAL</b> </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
Surface	12-1/4	8-5/8	23	213	common	165	3%cc, 2%gel
Production	7-7/8	5-1/2	15.5	4588	ASC	200	10% salt, 2% gel & 34% 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
4	4087.5' - 4092.5' (7/17/09)		

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**WICHITA, KS**

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4536</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>7/24/09</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>164.64</u>	Gas Mcf _____	Water Bbls. <u>.16</u> Gas-Oil Ratio _____ Gravity <u>40</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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**#1 Hess 20D**

1700' FSL & 2303' FEL  
50' N & 7' E of C SW NW SE Section 20-13S-31W  
Gove County, Kansas  
API# 15-063-21783-0000  
Elevation: 2878' GL: 2888' KB

<u>Sample Tops</u>			<u>Ref.</u>	<u>Well</u>
Anhydrite	2366'	+522	-9	
B/Anhydrite	2390'	+498	-10	
Heebner	3880'	-992	-19	
Lansing	3920'	-1032	-18	
Lansing "C"	3954'	-1066	-19	
Lansing "D"	3972'	-1084	-9	
Lansing "H"	4085'	-1197	-12	
Lansing "I"	4114'	-1226	-12	
Pawnee	4363'	-1475	-16	
Fort Scott	4416'	-1528	-15	
Cherokee Shale	4443'	-1555	-15	
Johnson	4486'	-1598	-15	
Mississippian	4533'	-1645	-22	
RTD	4600'	-1712		

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CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., LLC. 043652

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

SERVICE POINT:  
Oakley

DATE <u>6-26-09</u>	SEC. <u>20</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>2:30 PM</u>	JOB START <u>10:00 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Hess</u>		WELL # <u>1</u>		LOCATION <u>Oakley 11S 3E 4S</u>		COUNTY <u>Gore</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>Yes N into</u>			

CONTRACTOR Martin 14  
TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>216'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>216</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15</u>	
PERFS.	
DISPLACEMENT <u>12.80 BBL</u>	

OWNER Same

CEMENT AMOUNT ORDERED 165 sks com  
3 3/4 cc 290 gel

COMMON <u>165 sks</u>	@ <u>15.45</u>	<u>2549.25</u>
POZMIX	@	
GEL <u>3 sks</u>	@	<u>20.80</u>
CHLORIDE <u>6 sks</u>	@	<u>58.20</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>124 sks</u>	@ <u>2.40</u>	<u>417.60</u>
MILEAGE <u>10 1/2 sk/mile</u>		<u>348.00</u>
		TOTAL <u>3706.45</u>

EQUIPMENT

PUMP TRUCK # <u>423-281</u>	CEMENTER <u>Andrew</u>
BULK TRUCK # <u>347</u>	HELPER <u>Larene</u>
BULK TRUCK #	DRIVER <u>Terry</u>
BULK TRUCK #	DRIVER

REMARKS:

Cement did circulate

Thank you

CHARGE TO: Ritchie Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB <u>216'</u>	
PUMP TRUCK CHARGE	<u>1018.00</u>
EXTRA FOOTAGE	@
MILEAGE <u>20 miles</u>	@ <u>2.00</u>
MANIFOLD	@
	@
	@
TOTAL <u>1158.00</u>	

PLUG & FLOAT EQUIPMENT

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

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 Craig Unruh

SIGNATURE Craig Unruh

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SEP 30 2009  
CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., LLC. 043576

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

SERVICE POINT:  
Oakley Ks

DATE <u>7-7-09</u>	SEC. <u>20</u>	TWP. <u>13<sup>s</sup></u>	RANGE <u>31<sup>w</sup></u>	CALLED OUT	ON LOCATION <u>11:00<sup>am</sup></u>	JOB START <u>Noon</u>	JOB FINISH <u>1:00<sup>pm</sup></u>
LEASE <u>Hess 20-D</u>	WELL # <u>1</u>	LOCATION <u>Oakley 11S-4E-35-46</u>			COUNTY <u>Goave</u>	STATE <u>Ks</u>	

CONTRACTOR Express Well Serv. OWNER Same

TYPE OF JOB <u>Port Collar</u>	CEMENT
HOLE SIZE <u>7 7/8</u>	T.D.
CASING SIZE <u>5 1/2</u>	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL <u>Port Collar</u>	DEPTH <u>2345'</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

EQUIPMENT			
PUMP TRUCK	CEMENTER <u>Walt - Mago</u>		
# <u>431</u>	HELPER <u>Walt</u>		
BULK TRUCK			
# <u>394-28</u>	DRIVER <u>Darrin</u>		
BULK TRUCK			
#	DRIVER		

COMMON	<u>180 - SKs @ 15.45</u>	<u>2,781.00</u>
POZMIX	<u>120 - SKs @ 8.00</u>	<u>960.00</u>
GEL	<u>16 - SKs @ 20.80</u>	<u>332.80</u>
CHLORIDE	@	
ASC	@	
Flr Secl	<u>75# @ 2.50</u>	<u>187.50</u>
	@	
4-Hulls	@ <u>31.85</u>	<u>127.40</u>
	@	
	@	
	@	
HANDLING	<u>531 - SKs @ 2.40</u>	<u>1,274.40</u>
MILEAGE	<u>104 per SK/mile</u>	<u>1,062.00</u>
TOTAL		<u>6,725.70</u>

REMARKS:  
Test casing to 1200# had slow leak, ck Port collar, test again, held open tool, had no cure, mixed 80 SKs mixed, mixed 300 SKs cement cure, Displace 1350L water close tool, test to 1200# held ran 5 Hrs, cure clean Thank you

CHARGE TO: Ritchie's Exploration  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE		
DEPTH OF JOB	<u>2345'</u>	
PUMP TRUCK CHARGE		<u>900.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>20 miles @ 7.00</u>	<u>140.00</u>
MANIFOLD	@	
	@	
TOTAL		<u>4040.00</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 Thomas Atkins  
SIGNATURE Thomas Atkins

PLUG & FLOAT EQUIPMENT	
	@
	@
	@
	@
	@
TOTAL	

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES 6,725.70  
DISCOUNT 0.00 IF PAID IN 30 DAYS

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CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., LLC. 043563

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

SERVICE POINT:  
OAKLEY

DATE <u>7-4-09</u>	SEC. <u>20</u>	TWP. <u>13S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>4:30am</u>	JOB START <u>9:30am</u>	JOB FINISH <u>10:30am</u>
LEASE <u>200</u>	WELL # <u>#1</u>	LOCATION <u>Oakley 115-4C-35</u>			COUNTY <u>GOV</u>	STATE <u>KS</u>	
OLD OR <del>NEW</del> (Circle one)				<u>12 1/2 in</u>			

CONTRACTOR MUNSON #14  
 TYPE OF JOB Production string  
 HOLE SIZE 7 7/8 T.D. 4600'  
 CASING SIZE 5 1/2 15.5 DEPTH 4588'  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL JOINT Collar DEPTH 2345'  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 13'  
 CEMENT LEFT IN CSG. 13'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 108.88 5365

OWNER \_\_\_\_\_  
 CEMENT  
 AMOUNT ORDERED 250 SHS ASC  
109 SHS N, 29 SHS C, 314 SHS C & B-31  
500 gal WFRIT

EQUIPMENT  
 PUMP TRUCK CEMENTER Fuzzy  
 # 431 HELPER Kelly  
 BULK TRUCK  
 # 399 DRIVER Walt  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	@	_____	_____
POZMIX	@	_____	_____
GEL	@	<u>5</u>	<u>20.00</u> <u>N/C</u>
CHLORIDE	@	_____	_____
ASC	@	<u>250</u>	<u>18.00</u> <u>4650.00</u>
Salt	@	<u>23.25</u>	<u>23.25</u> <u>N/C</u>
CD-31	@	<u>176</u>	<u>9.35</u> <u>1645.00</u>
WFRIT	@	<u>500 gal</u>	<u>1.27</u> <u>635.00</u>
HANDLING	@	<u>2.95</u>	<u>2.00</u> <u>708.00</u>
MILEAGE	@	<u>.10254 mile</u>	<u>590.00</u>
TOTAL			<u>8228.00</u>

REMARKS:

Mix pump 500 gal WFRIT mix 20 SHS  
in tank + 30 SHS in BK mix 200 SHS  
down 5 1/2 csg without pump + 1.25  
Displace plug to insert. Plug landed  
Insert did not hold. Shut in  
@ 500 SHS. Lift pipes 1500'  
hand press 1800'  
Job complete @ 10:45 AM  
Thanks Fuzzy & crew

SERVICE

DEPTH OF JOB	<u>4588'</u>	_____
PUMP TRUCK CHARGE	<u>2185.00</u>	_____
EXTRA FOOTAGE	@	_____
MILEAGE	<u>20</u>	@ <u>7.00</u> <u>140.00</u>
MANIFOLD	@	_____
TOTAL	<u>2325.00</u>	_____

CHARGE TO: Ritchie Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

5 1/2

1. Port Collar	(B)	<u>1751.00</u>
1. S. Nose G Shoe	@ (W)	<u>100.00</u>
1. AFU Insert	@ (W)	<u>293.00</u>
1. Basket	@ (W)	<u>186.00</u>
3. Baskets	@ (B)	<u>483.00</u>
4. Turbolizers	@	<u>168.00</u>
1. Rubber plug	W	<u>316.00</u>
TOTAL		<u>3341.00</u>

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PRINTED NAME Thomas Atkins  
 SIGNATURE Thomas Atkins

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

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