

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

DEC 1 8

00-00
ORIGINAL

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address 125 N. Market, Suite 1000
City/State/Zip Wichita, KS 67202

Purchaser: Koch
Operator Contact Person: A. Scott Ritchie III
Phone (316) 267-4375

Contractor: Name: Murfin Drilling Co.
License: 30606
Wellsite Geologist: K. Noah

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
_____ Deepening _____ Re-perf. _____ Form. Inj/SWD
_____ Plug Back _____ PSTD
_____ Commingled _____ Docket No. _____
_____ Dual Completion _____ Docket No. _____
_____ Other (SWD or Inj?) _____ Docket No. _____
9-19-92 9-25-92 10-13-92
Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,211
County Rooks
SE - NW - NW Sec. 28 Twp. 6 Rge. 20W

4290 Feet from S/W (circle one) Line of Section
4290 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Nanette Hilgers Well # 2
Field Name Todd East

Producing Formation Arbuckle
Elevation: Ground 2218' KB 2223

Total Depth 3701' PSTD 3700
Amount of Surface Pipe Set and Cemented at 205 Feet
Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1786' Feet
If Alternate II completion, cement circulated from 1786'
feet depth to 250 w/ 390 sx cat.

Drilling Fluid Management Plan SLT 2 12-91-12
(Data must be collected from the Reserve Pit)
Chloride content 1350 ppm Fluid volume 598 bbls

Dewatering method used evaporation
Location of fluid disposal if not used for _____

Operator Name _____
Lease Name _____ License No. _____
Quarter Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____

RELEASED

FEB 14 1995

CONFIDENTIAL

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 on 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 [Signature]
Title President Date 12-18-92
Subscribed and sworn to before me this 18th day of December, 19 92.
Notary Public Lisa Thimmesch
Date Commission Expires _____

LISA THIMMESCH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 8-29-95

RECEIVED
KANSAS CORPORATION COMMISSION
12-18-92
DEC 18 1992
K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Well Completion Report Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

P1

Operator Name Ritchie Exploration, Inc. Lease Name Nanette Hilgers Well # 2
 Sec. 28 Twp. 6 Rge. 20W East County Rooks
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Attached Sheet		
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
List All E.Logs Run: R.A. Guard Log				

CASING RECORD <input type="checkbox"/> New <input checked="" 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	28#	205	60/40 poz	160	2% gel 3%
production	7 7/8	5 1/2	14#	3695'	60/40 poz	110	10% salt 3% 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 (Amount and Kind of Material Used)	Depth
		100 gal 15% INS	3699'- 3701

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	3697'			
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)				
10-13-92					
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	14.26	0.00	0.14		

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval _____

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000
Wichita, Kansas 67202-1775
316-267-4375 FAX 316-267-3026

ORIGINAL

#2 Nanette Hilgers
SE NW NW
Section 28-6S-20W
Rooks County, Kansas
API# 15-163-23,211

DEC 18
CONFIDENTIAL

ELECTRIC LOG TOPS

Anhydrite	1813'(+ 410)
B/Anhydrite	1846'(+ 377)
Topeka	3213'(- 990)
Heebner	3414'(-1191)
Toronto	3438'(-1215)
Lansing	3451'(-1228)
B/KC	3643'(-1420)
Ero. Arb.	Absent
Arbuckle	3678'(-1455)
LTD	3697'(-1474)

PLEASE KEEP THIS
INFORMATION
CONFIDENTIAL

DST #1 from 3414' to 3470' (Toronto and Top Zone). Recovered 5' mud, no show of oil.

IFP:67-67#/30";ISIP:76#/30";
FFP:67-67#/30";FSIP:67#/30".

DST #2 from 3563' to 3650' (140' - 220' zones). Recovered 10' oil and water cut mud (25% oil, 25% water, 50% mud) and 60' oil cut watery mud (30% oil, 15% water, 55% mud).

IFP:86-86#/45";ISIP:884#/45";
FFP:96-105#/45";FSIP:884#/45".

DST #3 from 3680' to 3694' (Erosional Arbuckle/Arbuckle). Recovered 600' gas in pipe and 900' clean gassy oil.

IFP:67-221#/30";ISIP:836#/45";
FFP:307-346#/30";FSIP:788#/45".

DST #4 from 3694' to 3701' (Arbuckle). Recovered 430' clean gassy oil.

IFP:48-105#/45";ISIP:894#/45";
FFP:134-163#/45";FSIP:846#/45".

RECEIVED
KANSAS CORPORATION COMMISSION

RELEASED

DEC 18 1992

FEB 14 1995

CONSERVATION DIVISION
WICHITA, KS

FROM CONFIDENTIAL

27, Russell, Kansas
 5-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

New ORIGINAL

ALLIED CEMENTING CO., INC.

3352

Home Office P. O. Box 31

Russell, Kansas 67665

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
9-19-92	28	6 ^S	20 ^W	3:15 P.M.	5:30 P.M.	6:00 P.M.	6:30 P.M.
Client: <u>Nanette Hilgers</u>	Well No. <u>2</u>	Location <u>Logan 10 S 1/8 E</u>			County <u>Rooks</u>	State <u>Ks.</u>	
Contractor <u>Murkin Dalg. Co.</u>				Rig # <u>8</u>		Owner <u>Same</u>	
Type Job <u>Set Surface Pipe</u>							
Hole Size <u>12 1/4"</u>		T.D. <u>206'</u>		To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Csg. <u>8 7/8"</u>		Depth <u>205'</u>		Charge To <u>Ritchie Exploration, Inc.</u>			
Tbg. Size		Depth		Street <u>125 N. Market, Suite 1000</u>			
Drill Pipe		Depth		City <u>Wichita</u> , State <u>Ks. 67202</u>			
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg. <u>12'</u>		Shoe Joint		Purchase Order No.			
Press Max.		Minimum		X <u>[Signature]</u>			
Meas Line <u>X</u>		Displace <u>X</u>		CEMENT			
Perf.		DEC 18					

EQUIPMENT		CONFIDENTIAL
Pumptrk	No. <u>177</u>	Cementer <u>Gary H.</u> Helper <u>Marlyn K.</u>
Pumptrk	No.	Cementer <u>RELEASED</u> Helper <u>RELEASED</u>
Bulktrk	<u>#212</u>	Driver <u>Paul D.</u>
Bulktrk		Driver <u>FROM CONFIDENTIAL</u>

DEPTH of Job		Reference	Amount
#1 Pumptruck-surface			\$380.00
#13 mileage @ 2.00/mi.			68.00
1-8 7/8" rubber plug			73.00
Sub Total			\$521.00
Tax			
Total			

Amount Ordered	<u>180 sks 60/40 per 2 bags, 3% c.c.</u>	
Consisting of	<u>108</u>	
Common	<u>70 sks @ 5.50/sk</u>	<u>\$594.00</u>
Poz. Mix	<u>12 sks @ 2.50/sk</u>	<u>30.00</u>
Gel.	<u>3 sks</u>	<u>N/C</u>
Chloride	<u>5 sks @ 21.00/sk</u>	<u>105.00</u>
Quickset		
Sales Tax		
Handling	<u>@ 1.00/sk (180 sks)</u>	<u>180.00</u>
Mileage	<u>@ 0.44/sk/mi (34 mi)</u>	<u>244.80</u>
Sub Total		<u>\$1170.60</u>
Total		<u>1,303.80</u>
Floating Equipment	<u>Thanks</u>	

Remarks: Cement Circulated

DEC 18 1992

SEP 24 1992

CONSERVATION DIVISION
WICHITA, KS

Copy 11/10
9-28-92

RECEIVED
KANSAS CORPORATION COMMISSION

ORIGINAL

Phone 913-483-2627, Russell, Kansas

Phone Plainville 913-434-2812

Phone 316-793-5861, Great Bend, Kansas

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

2134

Home Office P. O. Box 31

DEC 18 1992 Russell, Kansas 67665

CONFIDENTIAL

9-26-92

Date	9-25-92	Sec.	28	Twp.	6 ^S	Range	20 ^W	Call On	4:00 P.M.	On Location	8:30 P.M.	Job Start	12:05 A.M.	Finish	1:15 A.M.
Lease	Nanette Hilgans	Well No.	2	Location	Logan 10S 1/4 SE			County	Rooks	State	Ks.				

Contractor	Martin Drilling Co.	Rig #	8
Type Job	Production String		
Hole Size	7 7/8"	T.D.	3701'
Csg.	5 1/2"	Depth	3699'
Csg. Size	8 7/8"	Depth	205'
Drill Pipe		Depth	
Tool		Depth	
Cement Left in Csg.	18'	Shoe Joint	18.29'
Press Max.	800 #	Minimum	
Meas Line	X	Displace	
Perf.	DEC 18 1992		

Owner	Same
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Charge To	Ritchie Exploration, Inc.
Street	125 N. Market, Suite 1000
City	Wichita, State Ks. 67202-1775
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	<i>[Signature]</i>

EQUIPMENT CONSERVATION DIVISION

No.	Cementer	WICHITA, KS
Pumptrk 191	Helper	Gary H. Marilyn K.
No.	Cementer	
Pumptrk	Helper	RELEASED
Bulktrk #212	Driver	Joe S.
Bulktrk	Driver	DEC 14 1995

CEMENT	
Amount Ordered	125 sks 6 7/8" per 10% salt
Consisting of 3 bags/sonite + 500 gal WFR II	
Common	75 sks @ 5.50/sk = 412.50
Poz. Mix	50 sks @ 2.50/sk = 125.00
Chloride Salt	324 # @ 33¢/lb. = 106.92
Quickset	12 sks @ 4.75/sk = 57.00
WFR II	500 gal. @ 50¢/gal. = 250.00
Sales Tax	
Handling	¢1.00/sk (125 sks) = 125.00
Mileage	¢0.47/sk/mi. (34 mi.) = 170.00
Sub Total	\$1246.42
Total	

FROM CONFIDENTIAL

DEPTH of Job	1-5 1/2" rubber plug	# 45.00
Reference: #1	Pumptruck-long string	880.00
#13	mileage @ 2.00/mi.	68.00
#12	notating swivel (5 1/2")	100.00
Sub Total		1093.00
Tax		99.30
Total		1192.30

Remarks: Float Held
Plugged rat hole w/15 sks.

copy of this
10-12-92
SK

Thanks

Floating Equipment	5 1/2"
1-regular guide shoe	- 125.00
1-AFU insert (Flapper-type)	- 189.00
1-cementing basket	- 127.00
4-centralizers @ 46.00 ea	- 184.00
1-port collar (Baker)	- 175.00
Total	\$2410.00

OCT 5 1992

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

5307

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	10-9-92	Sec.	28	Twp.	6 S	Range	20 W	Called Out	9:00 AM	On Location	1:00 PM	Job Start	1:45 PM	Finish	6:45 PM
No. Lease	HILGERS	Well No.	# 2	Location	OLD 24 & LOGAN RD.			County	ROOK'S	State	KANSAS				
Contractor	LEON'S DRILLING SERVICE														
Type Job	PORT COLLAR (CIRC. CEMENT)														
Hole Size	5 1/2														
Csg.	2"														
Tbg. Size	2"														
Drill Pipe	X-PERT (DICK)														
Tool	1786														
Cement Left in Csg.	1,000 #														
Press Max.	600 #														
Meas Line	Displace														
Perf.															

Owner 5 N 1/4 E

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Att: John Niernberger

Charge To RITCHIE EXPLORATION

Street 1705 Anthony Drive

City Hays State Kan 67601

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. [Signature]

X [Signature]

Amount Ordered	390 SK	50/40 P2	8% GEL																														
Consisting of	<table border="1"> <tr> <td>Common</td> <td>195</td> <td>SKs @</td> <td>5.50</td> <td>1,072.50</td> </tr> <tr> <td>Poz. Mix</td> <td>195</td> <td>SKs @</td> <td>2.50</td> <td>487.50</td> </tr> <tr> <td>Gel.</td> <td>20</td> <td>SKs @</td> <td>6.75</td> <td>135.00</td> </tr> <tr> <td>Chloride</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Quickset</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Sand</td> <td>1 SK</td> <td>@</td> <td>4.75</td> <td>4.75</td> </tr> </table>			Common	195	SKs @	5.50	1,072.50	Poz. Mix	195	SKs @	2.50	487.50	Gel.	20	SKs @	6.75	135.00	Chloride					Quickset					Sand	1 SK	@	4.75	4.75
Common	195	SKs @	5.50	1,072.50																													
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Gel.	20	SKs @	6.75	135.00																													
Chloride																																	
Quickset																																	
Sand	1 SK	@	4.75	4.75																													
Handling	1.00	per SK		390.00																													
Mileage	44	per SK/mile		483.60																													
31 mils																																	

EQUIPMENT RELEASED

Pumptrk #177	No. Cementer	Helper	1 FEB 14 1995	[Signature]
Pumptrk #212	No. Cementer	Helper		[Signature]
Bulktrk #218	Driver			[Signature]
Bulktrk #218	Driver			[Signature]

FROM CONFIDENTIAL

DEPTH of Job

Reference:	Pump Truck CHRG	475.00
	2.00 per mile	62.00
	Sub Total	
	Tax	
	Total	537.00

Sub Total	2,573.35
Total	2,573.35

RECEIVED
 KANSAS CORPORATION COMMISSION

DEC 18 1992

CONSERVATION DIVISION
 WICHITA, KS

Remarks: LOAD HOLE & TEST BRIDGE Plug To 1,200 # & HELD. SPOT SAND @ 1825
 Came up & Opened PORT COLLAR (1786) MIXED SK CEMENT. HAD
 GOOD CIRCULATION, DISPLACED 6 88% & CLOSED PORT COLLAR. WASHED TUBING
 CLEAN. WENT DOWN TO 3160' & WASHED SAND OFF BRIDGE Plug,
 CAME OUT w/ TUBING, & LOADED HOLE.

OCT 22 1992