

NOV 7

SIDE ONE

ORIGINAL CONFIDENTIAL

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

RELEASED

API NO. 15- 101-21,559-0000

County Lane  
280' N of  
NW NW NW Sec. 36 Twp. 19S Rge. 28  East West

Operator: License # 4767 DEC 0 8 1992

Name: Ritchie Exploration, Inc.

Address 125 N. Market, Suite 1000

City/State/Zip Wichita, KS 67202

Purchaser: Koch Oil Company

Operator Contact Person: Rocky Milford

Phone (316) 267-4375

Contractor: Name: White & Ellis Drilling

License: 5420

Wellsite Geologist: Kitt Noah

Designate Type of Completion

- New Well  Re-Entry  Workover
- Oil  SWD  Temp. Abd.
- Gas  Inj  Delayed Comp.
- Dry  Other (Core, Water Supply, etc.)

If OWWO: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

Drilling Method:

- Mud Rotary  Air Rotary  Cable

8/30/90 9/07/90 9/20/90

Spud Date Date Reached TD Completion Date

5230 Ft. North from Southeast Corner of Section

4950 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

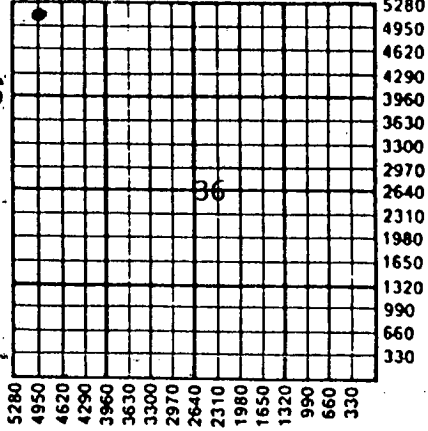
Lease Name Schwartz Well # 4

Field Name Hackberry South

Producing Formation Lansing

Elevation: Ground 2722' KB 2727'

Total Depth 4650' PBDT n/a



11-14-90

Amount of Surface Pipe Set and Cemented at 267 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1995' Feet

If Alternate II completion, cement circulated from 1995'

feet depth to surface w/ 3 1/2 400 sx cmt.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 11-7-90

Subscribed and sworn to before me this 7th day of Nov. 1990

LINDA K. RICE  
NOTARY PUBLIC  
STATE OF KANSAS  
My Appt. Exp. 6/07/92

Notary Public [Signature]

Date Commission Expires 6/07/92

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

RECEIVED

Distribution

KCC COMMISSION  SWD/Rep  NGPA

KGS  Plug  Other

(Specify)

NOV 13 1990

11-13-90

Wichita, Kan. Form ACO-1 (7-89)

P1

SIDE TWO

Operator Name: Ritchie Exploration, Inc.

Lease Name Schwartz

Well # 4

Sec. 36 Twp. 19S Rge. 28W

East  
 West

County Lane

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

(See attached sheet).

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Formation Description

Log  Sample

Name	Top	Bottom
Anhydrite		2038' (+ 689)
B/Anhydrite		2068' (+ 659)
Heebner		3928' (-1201)
Lansing		3968' (-1241)
Stark		4242' (-1515)
B/KC		4326' (-1599)
Marmaton		4358' (-1631)
Pawnee		4460' (-1733)
Ft. Scott		4508' (-1781)
Cherokee		4530' (-1803)
Miss.		4620' (-1893)
LTD		4651' (-1924)

CASING RECORD

New  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#	267'	60/40 poz	160	2%gel, 3% CC
Production	7-7/8"	5 1/2"	15#	4649'	60/40 poz	150	10% salt

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

3 Shots	4243.3' to 4245.3'	No acid used.	

TUBING RECORD

Size 2-7/8" Set At Packer At

Liner Run  Yes  No

Date of First Production 9/20/90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 15 Bbls. Gas Mcf Water 150 Bbls. Gas-Oil Ratio Gravity

Disposition of Gas:

Vented  Sold  Used on Lease  
(If vented, submit ACO-18.)

METHOD OF COMPLETION

Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify)

Production Interval

4243.3'-45.3'

1000

NOV 7

ORIGINAL  
CONFIDENTIAL

Ritchie Exploration, Inc.  
#4767  
#4 Schwartz  
280' N of NW NW NW  
Section 36-19S-28W  
Lane County, KS  
API# 15-101-21,559

RELEASED

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CONFIDENTIAL

ACO-1  
Page 2

DEC 0 8 1992

FROM CONFIDENTIAL

DRILL STEM TESTS

DST #1 from 4210' to 4222' ("J" zone). Recovered 500' of sulfur water.  
IFP:10-133#/30"; ISIP:1063#/30";  
FFP:166-244#/30"; FSIP:1063#/30".

DST #2 from 4240' to 4251' ("K" zone). Recovered 250' of gas in pipe, 270' of clean gassy oil, 100' of oil cut water (20% oil, 80% water), 100' slightly oil cut water (5% oil, 95% water), 900' of water. 1,370' total fluid.  
IFP:422-694#/15"; ISIP:920#/30";  
FFP:798-853#/15"; FSIP:920#/30".

DST #3 from 4277' to 4308' ("L" zone). Recovered 905' of muddy sulfur water.  
IFP:66-244#/30"; ISIP:997#/30";  
FFP:300-422#/30"; FSIP:975#/30".

DST #4 from 4322' to 4474' (Pleasanton, Marmaton, Pawnee).  
Recovered 785' of muddy water.  
IFP:33-211#/30"; ISIP:1085#/30";  
FFP:244-355#/30"; FSIP:1063#/30".

DST #5 from 4475' to 4590' (Myrick Station, Ft. Scott, Cher. & Johnson zone). Recovered 10' of mud, no show of oil.  
IFP:22-22#/30"; ISIP:1063#/30";  
FFP:22-22#/30"; FSIP:975#/30".

RECEIVED  
STATE CORPORATION COMMISSION

NOV 13 1990

**ORIGINAL**  
 00 3 2 NOV 5 7

**CONFIDENTIAL**

FORREST KAMRAT EXCO  
 P. O. BOX 31  
 UNITED CEMENTING COMPANY, INC.

**ALLIED CEMENTING COMPANY, INC.**  
 P. O. BOX 31  
 RUSSELL, KANSAS 67665

02003

100  
 50

AUG 90 1002046

TO: Ritchie Exploration Inc.  
125 N. Market #1000  
Wichita, Kansas 67202

W-7685004

INVOICE NO. 57294  
 PURCHASE ORDER NO. \_\_\_\_\_  
 LEASE NAME Schwartz #4  
 DATE Aug 30, 1990

PLEASE KEEP THIS

SERVICE AND MATERIALS AS FOLLOWS:

**INFORMATION  
 CONFIDENTIAL**

Common 96 sks @\$5.00	\$ 480.00	
Pozmix 64 sks @\$2.25	144.00	
Chloride 6 sks @\$20.00	120.00	\$ 744.00
Handling 160 sks @\$0.90	144.00	
Mileage (33) @\$0.03c per sk per mi	158.40	
Surface	360.00	
M1 @\$2.00 pmp. trk. RELEASED	66.00	
1 plug	40.00	
		<u>768.40</u>
	<b>Total</b>	<b>\$ 1,512.40</b>

DEC 0 8 1992

Cement circ. FROM CONFIDENTIAL

*Bennie*

6100-0270 = 1512.40

38201/10/1-402.487

SEP 05 1990

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2 % Charged Thereafter.

SEP 12 1990

NOV 7  
CONFIDENTIAL ORIGINAL

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31  
RUSSELL, KANSAS 67665

SEP 9 0

1 0 0 2 1 2 5

TELEPHONE  
AREA CODE 913 483-2627

TO: Ritchie Exploration Inc.  
125 N. Market #1000  
Wichita, Kansas 67202

INVOICE NO. 57338  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Schwartz #4  
DATE Sept 9, 1990

*W 7680004*

SERVICE AND MATERIALS AS FOLLOWS:

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INFORMATION  
CONFIDENTIAL

Common 99 sks @\$5.00 495.00  
Pozmix 66 sks @\$2.25 148.50  
WFR II 840 gal @\$0.21 176.40  
Salt 16 sks @\$4.75 76.00

Handling 165 sks @\$0.90 148.50  
Mileage (33) @\$0.03¢ per sk per mi 163.35  
Production string 838.00  
Mi @\$2.00 pmp. trk. 66.00  
1 plug 43.00  
1-5 1/2" g. shoe 119.00  
1 AFU 180.00  
5 cent. 220.00  
1 basket 121.00  
Baker p. collar 1700.00

*6500.0800 = 2340.00*  
*6100.0270 = 2154.75*  
*870/70 = 1,258.85*  
*(898.75)*

\$ 895.90

2,340.00

Total \$ 4,494.75

RELEASED

DEC 0 8 1992

FROM CONFIDENTIAL

Float held

THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter.

SEP 11 1990

NOV 7 1990  
CONFIDENTIAL ORIGINAL

TELEPHONE:  
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC. *8200*

P. O. BOX 31  
RUSSELL, KANSAS 67665

~~SEP 90~~ 100 2099 &

TO: Ritchie Exploration Inc.

INVOICE NO. 57440

125 N. Market #1000

PURCHASE ORDER NO. \_\_\_\_\_

Wichita, Kansas 67202

*w 7685004*

LEASE NAME Schwartz #4

DATE Sept. 15, 1990

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INFORMATION  
CONFIDENTIAL

SERVICE AND MATERIALS AS FOLLOWS:

Lite wt 312 sks @\$4.00	\$ 1,248.00	\$ 1,248.00
Handling 400 sks @\$0.90	360.00	
Mileage (33) @\$0.03c per sk per mi	396.00	
Pmp. trk. chg.	450.00	
Mi @\$2.00 pmp. trk.	66.00	
		<u>1,272.00</u>
<b>Total</b>		<b>\$ 2,520.00</b>

RELEASED

DEC 0 8 1992

FROM CONFIDENTIAL

THANK YOU

*6700 0270 = 2520.00*  
*3820/70 = 504.00*

SEP 19 1990

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.