

ORIGINAL  
SIDE ONE

RELEASED  
12-13-91  
DEC 13 1991

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

Operator: License # 4767  
Name: Ritchie Exploration, Inc.  
Address 125 N. Market, Suite 1000  
  
City/State/Zip Wichita, Ks. 67202  
Purchaser: Koch Oil Co.  
Operator Contact Person: Jeff Christian  
Phone ( 316 ) 267-4375

Contractor: Name: Murfin Drilling Co.  
License: 6033  
Wellsite Geologist: Jeff Christian

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  
9/23/90 10/02/90 10/22/90  
Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,110-00-00  
County 110 E OF Rooks **FROM CONFIDENTIAL**  
NW SW SE Sec. 22 Twp. 6S Rge. 20W  East  West

990'  Ft. North from Southeast Corner of Section  
2200'  Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

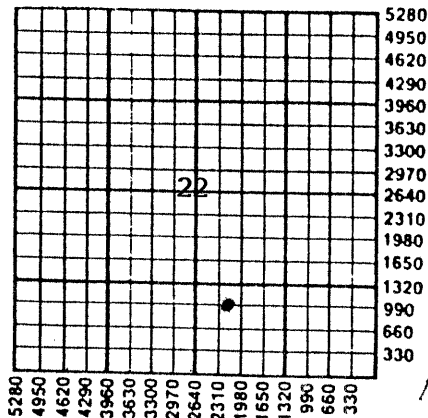
Lease Name Chapman  Well # 4

Field Name Loclela No

Producing Formation Arbuckle

Elevation: Ground 2148' KB 2153'

Total Depth 3700' PBDT n/a



Amount of Surface Pipe Set and Cemented at 246' Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set 1742' Feet

If Alternate II completion, cement circulated from 1742'  
feet depth to surface w/ 200 sx cmt.

**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 11/07/90

Subscribed and sworn to before me this 7th day of November, 19 90.

Notary Public Linda K. Rice  
Date Commission Expires 10/7/92

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Drillers Timelog Received  
Distribution  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
KGS \_\_\_\_\_ Plug \_\_\_\_\_ Other \_\_\_\_\_ (Specify)  
NOV 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas  
Form ACO-1 (7-89)

11-13-90

ORIGINAL

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Chapman Well # 4  
County Rooks  
Sec. 22 Twp. 6S Rge. 20W  
 East  
 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  Yes  No  
(Attach Additional Sheets.)  
Samples Sent to Geological Survey  Yes  No  
Cores Taken  Yes  No  
Electric Log Run  Yes  No  
(Submit Copy.)

Formation Description		
Name	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample	
	Top	Bottom
Anhy	1746'	(+ 407)
B/Anhydrite	1778'	(+ 375)
Topeka	3143'	(- 990)
Heebner	3343'	(-1190)
Toronto	3365'	(-1212)
Lansing	3380'	(-1227)
B/KC	3583'	(-1430)
Cgl. sand	3618'	(-1465)
Arbuckle	3640'	(-1487)
LTD	3700'	(-1547)

(See attached page).

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

CASING RECORD <input checked="" 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#	246'	60/40 poz	180	2% gel, 3% CC
production	7-7/8"	5 1/2"	14#	3696'	60/40 poz	115	10% salt, 3% gilsonite

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
3 SSB	from 3652.5'-54'	250 gal. of 15% NE	3652.5'-54'
3 SSB	from 3641'-43'		

TUBING RECORD			Liner Run
Size	Set At	Packer At	<input type="checkbox"/> Yes <input type="checkbox"/> No
2-3/8"	3672'		

Date of First Production 10/22/90	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 11 Bbls.	Gas Mcf	Water 168 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: 3652.5'-54'  
3641'-43'

Ritchie Exploration, Inc.  
#4767  
#4 Chapman  
110' E of NW SW SE  
Section 22-6S-20W  
Rooks County, KS  
API# 15-163-23,110  
ACO-1 form  
Page 2

ORIGINAL

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DEC 13 1991

FROM CONFIDENTIAL

DRILL STEM TESTS

DST #1 from 3287' to 3306' (Oread "A" zone).  
Recovered 95' of muddy water, no show of  
oil.

IFP:67-67#/30";ISIP:1143#/45";  
FFP:86-86#/30";FSIP:1143#/45".

DST #2 from 3339' to 3380' (Toronto). Re-  
covered 30' of slightly oil cut mud (5%  
oil, 95% mud).

IFP:38-38#/30";ISIP:846#/30";  
FFP:48-48#/30";FSIP:567#/30".

DST #3 from 3408' to 3450' (L/KC 35'-50'  
zones). Recovered 25' of oil cut mud (15%  
oil, 85% mud).

IFP:57-67#/45";ISIP:750#/60";  
FFP:76-76#/45";FSIP:605#/60".

DST #4 from 3446' to 3459' (L/KC 70' zone).  
Recovered 85' of water.

IFP:67-67#/30";ISIP:1124#/45";  
FFP:86-96#/30";FSIP:1095#/45".

DST #5 from 3523' to 3560' (L/KC 160' & 180' zones). Recovered 420' of  
gas in pipe; 180' of free oil, and 60' of heavy oil cut mud (45% oil, 55%  
mud). 240' of total fluid.

IFP:67-76#/30";ISIP:298#/45";  
FFP:96-115#/30";FSIP:298#/45".

DST #6 from 3584' to 3635' (Cgl. sand). Recovered 20' of oil spotted mud.

IFP:86-86#/30";ISIP:586#/30";  
FFP:86-86#/30";FSIP:480#/30".

DST #7 from 3636' to 3644' (Arbuckle). Recovered 50' of free oil and 30'  
of oil cut mud. 80' of total fluid.

IFP:67-67#/30";ISIP:1028#/45";  
FFP:76-76#/30";FSIP:990#/45".

DST #8 from 3644' to 3660' (Arbuckle). Packer failure.

DST #9 from 3646' to 3660' (Arbuckle). Recovered 32' of mud cut oil (55%  
oil, 45% mud); & 30' of slightly oil cut mud (5% oil, 95% mud). 62' of  
total fluid.

IFP:48-48#/45";ISIP:1009#/45";  
FFP:57-57#/45";FSIP:951#/45".

DST #10 from 3373' to 3395' (L/KC Top zone). Straddle test.  
Recovered 10' of mud.

IFP:38-38#/30";ISIP:1152#/30";  
FFP:57-57#/30";FSIP:1124#/30".

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RECEIVED  
STATE CORPORATION COMMISSION

NOV 13 1990

CONSERVATION DIVISION  
Wichita, Kansas

TELEPHONE:  
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 311  
RUSSELL, KANSAS 67665

02003 DEC 13 1991

OCT 9 0 FROM CONFIDENTIAL

TO: Ritchie Exploration  
1705 Anthony Drive  
Hays, Kansas 67601

INVOICE NO. 57703  
PURCHASE ORDER NO. ICN  
LEASE NAME Chapman #4  
DATE Oct. 11, 1990

W. 1520004

SERVICE AND MATERIALS AS FOLLOWS:

Common 100 sks @\$5.25	\$ 525.00	
Pozmix 100 sks @\$2.25	225.00	
Gel 7 sks @\$6.75	<u>47.25</u>	\$ 797.25
<i>Cement port collar, #4</i>		
Handling 200 sks @\$1.00	200.00	
Mileage (32) @\$0.03c per sk per mi	192.00	
Port collar	475.00	
Mi @\$2.00 pmp. trk.	<u>64.00</u>	<u>931.00</u>

Total \$ 1,728.25

Cement circ. If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

ALTERNATE II CMTING

THANK YOU (port collar)

6200 · 0270 = 1253.25  
6500 · 0800 = 475.00  
3820170 = {0345.65}

OCT 25 1990

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

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RECEIVED STATE OF KANSAS COMMISSION

NOV 13 1990

CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL

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DEC 13 1991

TELEPHONE:  
AREA CODE 773 483-2627

SEP 90. 100  
ALLIED CEMENTING COMPANY, INC.  
P. O. BOX 31  
RUSSELL, KANSAS 67665

02003

FROM CONFIDENTIAL

TO: Ritchie Exploration, Inc.  
125 N. Market Suite 1000  
Wichita, KS 67202

W 1520004

INVOICE NO. 57484  
PURCHASE ORDER NO. \_\_\_\_\_  
LEASE NAME Chapman #4  
DATE Sept. 23, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 108 sks @ \$5.00	\$ 540.00	
Poz Mix 72 sks @ \$2.25	162.00	
Xhloeisw 5 sks @ \$20.00	100.00	
	<u>802.00</u>	
Handling 180 sks @ \$.90	162.00	
Mileage (33) @ \$.03 per sk per mi	178.20	
Surface	360.00	
Mi @ \$2.00 Pmp Trk	66.00	
Plug	71.00	
	<u>837.20</u>	

\$ 802.00

Total

\$ 1,639.20

SRS

Cement w/ice

Cement Circ.

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INFORMATION  
CONFIDENTIAL

THANK YOU

3820/70 = (327.84)  
6100-72 SEP 28 1990

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

RECEIVED  
COMMISSION  
NOV 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas

TELEPHONE:  
AREA CODE 913 483-2627

**ALLIED CEMENTING COMPANY, INC.**  
P.O. BOX 912003  
RUSSELL, KANSAS 67665

RELEASED

DEC 13 1991

OCT 9 0

1002112  
FROM CONFIDENTIAL

TO: Ritchie Exploration Att: John Niernberger

INVOICE NO. 57565

1705 Anthony Drive

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

Hays, KS 67601

LEASE NAME W-1520009 Chapman #4

DATE Oct. 3, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 75 sks @ \$5.25	\$ 393.75
Poz Mix 50 sks @ \$2.25	112.50
Salt 11 sks @ \$4.75	52.25
Gil. 321 # @ \$.33	105.93
WFR-2 500 gal @ \$.50	<u>250.00</u>

\$ 914.43

Handling 125 sks @ \$1.00	125.00
Mileage (34) @ \$.03 per sk per mi	127.50
Prod. Strg.	880.00
Mi @ \$2.00 Pmp Trk	68.00
Plug	<u>45.00</u>

1,245.50

1—Guide Shoe	205.00
1—Basket	127.00
1—AFU Insert	189.00
1—Port Collar	1,785.00
8—Cent.	<u>368.00</u>

If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

2,674.00

*2674.00 = 6500 · 0800 pt collar*

*2159.93 = 6200 · 0270*

Total \$ 4,833.93

*3800/70 (946.79)*

Float Held

OCT 16 1990

OCT 3867-14  
8 1990

Thank you

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

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

RECEIVED  
STATE COMMISSION

NOV 13 1990

CONSERVATION DIVISION  
Wichita, Kansas

*Cement Production casing #4*

*capaint*

*TEN*