

ORIGINAL SIDE ONE

RELEASED 1/90
NP 2-23-91

FEB 28 1991
2-28-91

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)

If **OWMO**: old well info as follows:
Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

8/17/89 8/23/89 9/23/89
Spud Date Date Reached TD Completion Date

API NO. 15- 163-23,053-00-00
County Rooks FROM CONFIDENTIAL

NE NE NE Sec. 19 Twp. 6S Rge. 20 East West

4950 Ft. North from Southeast Corner of Section

330 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

Lease Name Wyrill-19A Well # 1

Field Name Todd NE or Rill (unknown)

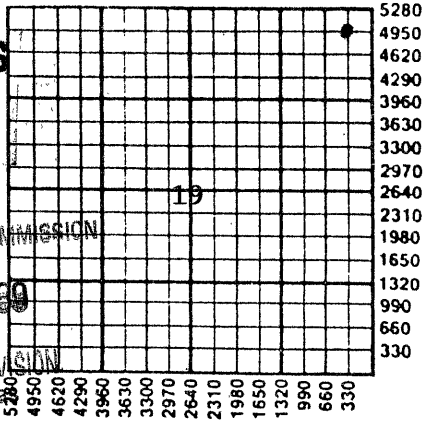
Producing Formation Basal Penn, Marmaton, & Lansing/KC

Elevation: Ground 2253' KB 2258'

Total Depth 3800' PBSD n/a

NOV 13 1989
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STATE CORPORATION COMMISSION
WICHITA, KANSAS
NOV 8 1989
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH
CONSERVATION DIVISION



ALT II
1-15-81

Amount of Surface Pipe Set and Cemented at 218' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1854' Feet

If Alternate II completion, cement circulated from 1854'
feet depth to surface w/ 550 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 Vice President Date 11/02/89

Subscribed and sworn to before me this 2nd day of November, 1989.

Notary Public Linda K. Rice
Date Commission Expires 6/07/92

LINDA K. RICE
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 6-7-92

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)
NP 29016

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Wyrill-19A Well # 1
Sec. 19 Twp. 6S Rge. 20W East West
County Rooks

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.

RELEASED

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

Log Sample

FEB 28 1991

FROM CONFIDENTIAL

Name Top Bottom
Anhydrite 1864' (+ 394)
B/Anhydrite 1897' (+ 361)
Topeka 3260' (-1002)
Heebner 3467' (-1209)
Toronto 3489' (-1231)
Lansing 3505' (-1247)
B/KC 3698' (-1440)
Marmaton 3718' (-1460)
Arbuckle sand 3737' (-1479)
Arbuckle dolo. 3747' (-1489)
LTD 3799' (-1541)

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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"	23#	218'	60/40 poz	160	2% gel, 3% CC
production	7-7/8"	4 1/2"	10.5#	3799'	60/40 poz	125	10% salt, 3% gilsol-nite
						10	salt flush

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 SSB	3737.5'-3740.5'	500 gal. of 15% INS	3737.5'-40.5'
2 SSB	3718'-3721'	600 gal. of 28% acid	3718'-21' & 3693'-96'
2 SSB	3693'-3696'		

TUBING RECORD

Size Set At Packer At

Liner Run Yes No

Date of First Production 9/23/89 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 30 Bbls. Gas 26 Mcf Water 26 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
3737.5'-40.5';
3718'-21'; &
3693'-96'

Ritchie Exploration, Inc.
#4767

#1 Wyrill-19A
NE NE NE
Section 19-6S-20W
Rooks Co., KS

ACO-1
Page 2

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FROM CONFIDENTIAL

DST #1 from 3411' to 3435' (Topeka). Re-
covered 80' of salt water.
IFP:42-42#/30"; ISIP:1110#/45";
FFP:52-52#/30"; FSIP:1089#/45".

DST #2 from 3675' to 3732' (Lansing 200'
& 220' zones & Marmaton). Recovered 90'
of mud cut oil (55% oil & 45% mud).
IFP:52-52#/30"; ISIP:1089#/45";
FFP:74-74#/30"; FSIP:1058#/45".

DST #3 from 3727' to 3749' (Arbuckle sand).
Recovered 140' of gas in pipe, 160' of
free oil, 60' of oil cut mud (50% oil,
50% mud); 120' of oil cut watery mud (10%
oil, 20% water, 70% mud). 340' total fluid.
IFP:52-84#/45"; ISIP:518#/60";
FFP:116-137#/45"; FSIP:508#/60".

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KANSAS GEOLOGICAL SURVEY
WICHITA

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CONSERVATION DIVISION
Wichita, Kansas