

ORIGINAL

SIDE ONE

RELEASED 11/17/90
1-17-91
MAY 17 1991

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

API NO. 15- 065-22,531-00-00
County Graham ~~FROM CONFIDENTIAL~~

Operator: License # 4767

NE NW NW Sec. 19 Twp. 6S Rge. 22 East West

Name: Ritchie Exploration, Inc.

4950 Ft. North from Southeast Corner of Section

Address 125 N. Market, Suite 1000

4290 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

City/State/Zip Wichita, KS 67202

Lease Name Virgil Jacobs "A" Well # 1

Purchaser: Koch Oil Company

Field Name unknown

Operator Contact Person: Leah Ann Kasten

Producing Formation Lansing

Phone (316) 267-4375

Elevation: Ground 2372' KB 2377'

Contractor: Name: Murfin Drilling Co.

Total Depth 3825' PBDT n/a

License: 6033

Wellsite Geologist: Bob Mathiesen

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

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

Operator: _____

Well Name: _____

Comp. Date _____ Old Test Depth _____

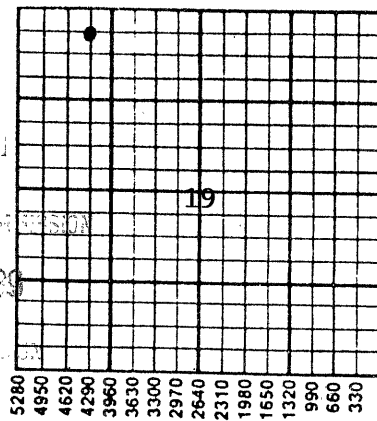
Drilling Method:

Mud Rotary Air Rotary Cable

8/02/89 8/09/89 8/23/89

Spud Date Date Reached TD Completion Date

PLEASE KEEP THIS INFORMATION CONFIDENTIAL



5280
4950
4620
4290
3960
3630
3300
2970
2640
2310
1980
1650
1320
990
660
330

RECEIVED
11-30-89
NOV 30 1989

DEC 1 1 1989
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

Amount of Surface Pipe Set and Cemented at 269' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2018' Feet

If Alternate II completion, cement circulated from 2018'

feet depth to surface w/ 385 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 11/27/89

Subscribed and sworn to before me this 27th day of November, 19 89.

Notary Public Linda K. Rice

Date Commission Expires 6-7-92

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

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received

Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Virgil Jacobs "A" Well # 1
 Sec. 19 Twp. 6S Rge. 22 East County Graham
 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

Log Sample

Name	Top	Bottom
Anhydrite		2029' (+ 348)
B/Anhydrite		2061' (+ 316)
Topeka		3370' (- 993)
Heebner		3568' (-1191)
Toronto		3592' (-1215)
Lansing		3609' (-1232)
B/KC		3797' (-1420)
LTD		3824' (-1447)

SEE ATTACHED PAGE.

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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#	269'	60/40 poz	190	2% gel, 3% CC
Production	7-7/8"	4 1/2"	10.5#	3824'	60/40 poz	125	10% salt
						10	preflush

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

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

2 SSB	3670'-3672'	Acidized w/600 gal. 28%.	3670'-72'

TUBING RECORD

Size Set At Packer At

Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 25 Bbls. Gas Mcf Water 75 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

3670'-72'

ORIGINAL

RITCHIE EXPLORATION, INC.
#1 Virgil Jacobs "A"
NE NW NW
Section 19-6S-22W
Graham County, KS

API# 15-065-22,531

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INFORMATION
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FROM CONFIDENTIAL

Page 2

DST #1 from 3518' to 3558' (Lower Topeka).
Recovered 1,020' of muddy salt water with
a few oil spots.
IFP:116-254#/30"; ISIP:1197#/30";
FFP:402-497#/30"; FSIP:1197#/30".

DST #2 from 3564' to 3625' (Toronto-Top
zone). Recovered 2,730' of salt water.
IFP:623-1093#/30"; ISIP:1229#/30";
FFP:1218-1239#/30"; FSIP:1260#/30".

DST #3 from 3627' to 3668' (35'-50' zones).
Recovered 365' of salt water.
IFP:105-137#/30"; ISIP:1197#/45";
FFP:190-211#/30"; FSIP:1197#/45".

DST #4 from 3665' to 3679' (70' zone).
Recovered 700' gas in pipe; 200' of clean
oil and 60' of gassy oil cut mud (20%
gas, 30% oil, 50% mud).
IFP:74-95#/30"; ISIP:1062#/30";
FFP:116-137#/30"; FSIP:1052#/30".

DST #5 from 3710' to 3774' (140' thru 180' zones). Recovered 35'
of oil specked mud.
IFP:84-84#/30"; ISIP:654#/30";
FFP:95-95#/30"; FSIP:550#/30".

DEC 11 1989
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