

ORIGINAL

SIDE ONE

RELEASED 1-16-91
065-22,525-0000 JAN 16 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- 065-22,525-0000 **FROM CONFIDENTIAL**

County Graham
50 S of East
NW NW NE Sec. 18 Twp. 6S Rge. 21W West

Operator: License # 4767

4900 Ft. North from Southeast Corner of Section

Name: Ritchie Exploration, Inc.

2310 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Address 125 N. Market, Suite 1000

Lease Name David Frazey Well # 1

City/State/Zip Wichita, KS 67202

Field Name _____

Purchaser: Koch Oil Co.

Producing Formation Lansing

Operator Contact Person: Jeff Christian

Elevation: Ground 2300' KB 2305'

Phone (316) 267-4375

Total Depth 3846' PBDT n/a

Contractor: Name: Murfin Drilling Co.

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 OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

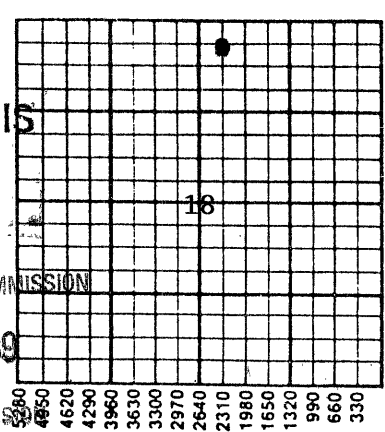
Drilling Method:
 Mud Rotary Air Rotary Cable

7/17/89 7/24/89 8/14/89

Spud Date _____ Date Reached TD _____ Completion Date _____

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH
NOV 1 3 1989

Amount of Surface Pipe Set and Cemented at 266' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1976' Feet

If Alternate II completion, cement circulated from 1976'

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 _____
Title Vice President Date 10/27/89

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

Notary Public Linda K. Rice

Date Commission Expires 6/07/92

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)

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

P1

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name David Frazey Well # 1
 Sec. 18 Twp. 6S Rge. 21W East West
 County Graham

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 page)

Formation Description

Log Sample

Name	Top	Bottom
Anhydrite	1953' (+ 352)	
B/Anhydrite	1985' (+ 320)	
Topeka	3318' (-1013)	
Heebner	3519' (-1214)	
Toronto	3545' (-1240)	
Lansing	3562' (-1257)	
B/KC	3748' (-1443)	
Arbuckle	3812' (-1507)	
LTD	3842' (-1537)	

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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#	266'	60/40 poz	180	2% gel, 3% CC
Production	7-7/8"	4 1/2"	10.5#	3829'	60/40 poz	125	10% salt
						+ 10sx	salt flush

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SSB	3626.5'-3631'; 3621'-3623'; 3608.5'-3611'; 3592.5'-3596'; 3562'-3565'	800 gal. of 28% acid 2,200 gal. of 15% acid	3562'-65' 3592.5'-96'; 3608.5'-11'; 3621'-23'; & 3626.5'-31'

TUBING RECORD Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First Production 8/14/89 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil 8 Bbls.	Gas 0 Mcf	Water 28 Bbls.	Gas-Oil Ratio	Gravity
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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
 3562-65'; 3592 1/2-96';
 3608 1/2-11'; 3621'-23';
 & 3626 1/2-31'.

ORIGINAL

Ritchie Exploration, Inc.
#4767

#1 David Frazey
NW NW NE
Section 18-6S-21W
Graham County, KS

ACO-1
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INFORMATION
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RELEASED

JAN 16 1991
1-16-91
FROM CONFIDENTIAL

DST #1 from 3514' to 3576' (Toronto & Top zone). Recovered 230' of gas in pipe; 1' of clean oil; 125' of gassy, heavy oil cut mud (30% oil, 15% gas, 55% mud); 14' of heavy oil cut mud (33% oil, 67% mud). 140' total fluid.
IFP:56-69#/30"; ISIP:1136#/45";
FFP:80-87#/30"; FSIP:1093#/45".

DST #2 from 3579' to 3622' (35' & 50' zones). Recovered 30' of oil cut mud (22% oil, 78% mud).
IFP:32-34#/30"; ISIP:692#/45";
FFP:37-37#/30"; FSIP:574#/45".

DST #3 from 3616' to 3650' (70', 90' & 100' zones). Recovered 95' of gas in pipe and 55' of mud cut oil (65% oil, 35% mud).
IFP:28-30#/30"; ISIP:820#/45";
FFP:34-34#/30"; FSIP:938#/45".
(Misrun - pressure seals leaked).

DST #4 from 3665' to 3760' (140', 160', 180', 200' & 220' zones). Recovered 25' of very slightly oil cut mud (1% oil, 99% mud).
IFP:76-76#/30"; ISIP:384#/30";
FSIP:78-78#/30"; FSIP:161#/30".

DST #5 from 3778' to 3826' (Conglomerate & Arbuckle). Recovered 25' of watery mud with a few oil spots.
IFP:82-84#/30"; ISIP:549#/30";
FFP:84-84#/30"; FSIP:346#/30".

NOV 3 1989
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

RECEIVED
STATE CORPORATION COMMISSION

NOV - 8 1989
11-8-89
CONSERVATION DIVISION
Wichita, Kansas