

ORIGINAL

SIDE ONE

RELEASED

3-5-92

MAR 05 1992

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

API NO. 15- 065-22,597-00-00

County Graham **FROM CONFIDENTIAL**
100' S OF S/2 NW Sec. 7 Twp. 6S Rge. 21 West

Operator: License # 4767

3200 Ft. North from Southeast Corner of Section

Name: Ritchie Exploration, Inc.

3960 Ft. West from Southeast Corner of Section

Address 125 N. Market, Suite 1000

(NOTE: Locate well in section plat below.)

City/State/Zip Wichita, KS 67202

Lease Name Nola Frazey Well # 4

Field Name Boys West

Purchaser: Koch Oil Co.

Producing Formation Toronto

Operator Contact Person: Jeff Christian

Elevation: Ground 2202' KB 2207'

Phone (316) 267-4375

Total Depth 3760' PBDT n/a

Contractor: Name: Murfin Drilling Co.

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

License: 30606

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.)

FEB 19 1991

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

Operator: _____

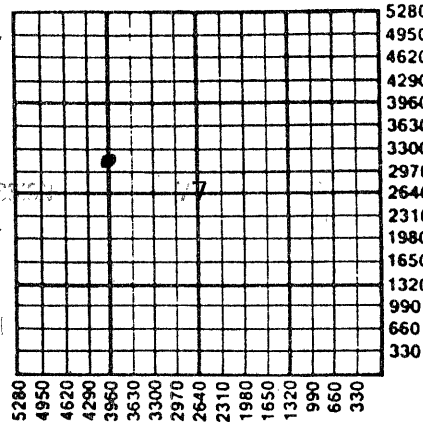
Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method: Mud Rotary Air Rotary Cable

10/13/90 10/20/90 11/16/90

Spud Date Date Reached TD Completion Date



2-19-91

Amount of Surface Pipe Set and Cemented at 254' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1849' Feet

If Alternate II completion, cement circulated from 1849'

feet depth to surface w/ 250 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.

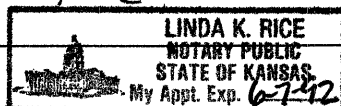
Signature [Handwritten Signature]

Title President Date 2/11/91

Subscribed and sworn to before me this 11th day of February, 19 91.

Notary Public [Handwritten 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

Distribution

KCC SWD/Rep NGPA

KGS Plug Other (Specify)

ORIGINAL

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Nola Frazey Well # 4

Sec. 7 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).

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Formation Description		
Name	Top	Bottom
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
Anhydrite		1855' (+ 352)
B/Anhydrite		1888' (+ 319)
Topeka		3225' (-1018)
Heebner		3415' (-1208)
Toronto		3441' (-1234)
Lansing		3459' (-1252)
B/KC		3647' (-1440)
Cgl. sand		3695' (-1488)
Arbuckle		3715' (-1508)
LTD		3756' (-1549)

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 1/2"	8-5/8"	28#	254'	60/40 poz	185	2%gel, 3%CC
Production	7-7/8"	5 1/2"	14#	3757'	60/40 poz	115	10% salt & 3% gilsonite

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
3 SSB	3441'-3444.5'	750 gal. of 15% NE	3441'-44.5'

TUBING RECORD Size 2-3/8" Set At 7' off bottom Packer At _____ Liner Run Yes No

Date of First Production 11/16/90 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	20 Bbls.	Mcf	5 Bbls.		

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 3441'-44.5'

ORIGINAL

RITCHIE EXPLORATION, INC.

125 N. Market - Suite 1000
Wichita, Kansas 67202-1775
316-267-4375 FAX 316-267-3026

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FROM CONFIDENTIAL

#4767
#4 Nola Frazey
100' S of S/2 NW
Section 7-6S-21W
Graham County, Kansas
API# 15-065-22,597

ACO-1 form
Page 2

DRILL STEM TESTS:

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DST #1 from 3383' to 3406' (Oread "B").
Recovered 193' of muddy water w/trace of
oil.

IFP:53-64#/30"; ISIP:277#/45";
FFP:85-106#/30"; FSIP:277#/45".

DST #2 from 3413' to 3455' (Toronto).
Recovered 91' of clean gassy oil and 92'
of slightly gas cut muddy oil.

IFP:64-77#/30"; ISIP:319#/45";
FFP:85-85#/30"; FSIP:319#/45".

DST #3 from 3479' to 3514' (35' & 50'
zones). Recovered 10' of oil cut mud
(30% oil, 70% mud); 61' of slightly oil
cut mud (10% oil, 90% mud); and 20' of
water.

IFP:53-53#/30"; ISIP:117#/45";
FFP:53-53#/30"; FSIP:106#/45".

DST #4 from 3592' to 3620' (160'-180'
zones). Recovered 2' of mud.

IFP:21-21#/30"; ISIP:32#/30";
FFP:21-21#/30"; FSIP:32#/30".

DST #5 from 3648' to 3710' (Cgl. sand).
Recovered 15' of mud with good show of
oil in tool.

IFP:64-64#/30"; ISIP:595#/30";
FFP:64-64#/30"; FSIP:489#/30".

RECORDED
INDEXED

FEB 19 1991

KEY CODE 813 913 2933

TELEPHONE: AREA CODE 913 483-2627

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

100-51009

FROM CONFIDENTIAL

OCT 90 1002328

TO: Ritchie Exploration Inc.
Att: J. Niernberger
1705 Anthony Drive
Hays, Kansas 67601

INVOICE NO. 57744

PURCHASE ORDER NO. 100-51009

LEASE NAME Nota Frazey #4

DATE Oct. 20, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 84 sks @\$5.25	\$ 441.00
Pozmix 56 sks @\$2.25	126.00
WFR II 500 gal @\$0.50	250.00
Salt 14 sks @\$4.75	66.50
Gilsonite 363#@\$0.33	<u>119.79</u>
Handling 140 sks @\$1.00	140.00
Mileage (42) @\$0.03c per sk per mi	176.40
Production string	880.00
Mi @\$2.00 pmp trk.	84.00
1 plug	<u>45.00</u>
1-5 1/2" g. shoe	125.00
1 AFU	189.00
1 basket	127.00
6 cent.	319.50
1 p. collar	<u>1785.00</u>

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\$ 1,003.29

1,325.40

2,545.50

\$ 4,874.19

6200.0770 = 2328.49
4500.0700 = 2515.50
3820.1710 = (974.87)
Total

Float held

THANK YOU

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

NOV 01 1990

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FEB 1 9 1991

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MAR 05 1992

ORIGINAL

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY INC.

P. O. BOX 31
RUSSELL, KANSAS 67665 2003

OCT 90

1 0 0 2 3 8 3 FROM CONFIDENTIAL

TO: Ritchie Exploration Inc.
Att: J. Niernberger
1705 Anthon Drive
Hays, Kansas 67601

INVOICE NO. 57832
PURCHASE ORDER NO. CEMENT TOP STAIR
LEASE NAME J. Niernberger W. 28142004 Nela Frazey #4
DATE Oct. 29, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 140 sks @\$5.25	\$ 735.00	
Pozmix 140 sks @\$2.25	315.00	
Gel 9 sks @\$6.75	<u>60.75</u>	\$ 1,110.75
Handling 280 sks @\$1.00	280.00	
Mileage (42) @\$0.03¢ per sk per mi	352.80	
Port collar	<u>475.00</u>	<u>1,107.80</u>
	Total	\$ 2,218.55

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Cement circ.

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

THANK YOU

W200.0270 = 2218.55
2nd stage cementing
(fresh water gone)
3820170 - 443.717

NOV 12 1990

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

FEB 25 1991

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10 5 1992

FROM CONFIDENTIAL

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC. 02003

P. O. BOX 31
RUSSELL, KANSAS 67665

OCT 90

1 0 0 2 2 5 8

TO: Ritchie Exploration, Inc.
Att: J. Nienberger
1705 Anthony Drive
Hays, Kansas 67601

W-2814001

INVOICE NO. 57673

PURCHASE ORDER NO.

LEASE NAME Nola Frazey #4

DATE Oct. 13, 1990

SERVICE AND MATERIALS AS FOLLOWS:

Common 111 sks @\$5.25	\$ 582.75
Pozmix 74 sks @\$2.25	166.50
Chloride 5 sks @\$21.00	<u>105.00</u>
	\$ 854.25

Cement surplus (reason #4)

Handling 185 sks @\$1.00	185.00
Mileage (42) @\$0.03¢ per sk per mi	233.10
Surface	380.00
Mi @\$2.00 pmp. trk.	84.00
1 plug	<u>63.00</u>
	945.10

Total \$ 1,799.35

Cement circ.

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FEB 19 1991

THANK YOU

6100-02740 = 1799.35
3520/10 = 352.00

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

OCT 25 1990