

SIDE ONE

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

API NO. 15- 135-23,546 - 00-00
County Ness
400' FSL & 400' East
EEL, SW/4 Sec. 26 Twp. 16S Rge. 22 West

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address 125 N. Market, Suite 1000
Wichita, KS 67202

400' Ft. North from Southeast Corner of Section
3040' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Purchaser:
Operator Contact Person: Leah Ann Kasten
Phone (316) 267-4375

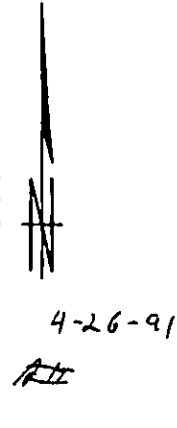
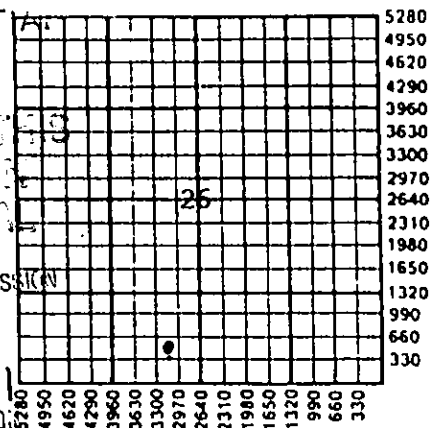
Lease Name F. Ummel Well # 4
Field Name Brownell South
Producing Formation Cherokee

Contractor: Name: Murfin Drilling Co.
License: 30606

Elevation: Ground 2398' KB 2403'
Total Depth 4450' PBTD n/a

Wellsite Geologist: Rocky Milford
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

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APR 25 1991
04-25-1991
KANSAS CONSERVATION DIVISION
Wichita, Kansas



If OWMO: old well info as follows:
Operator:
Well Name:
Comp. Date Old Total Depth

Amount of Surface Pipe Set and Cemented at 254' Feet
Multiple Stage Cementing Collar Used? Yes No

Drilling Method:
 Mud Rotary Air Rotary Cable
2/08/91 2/15/91 2/28/91
Spud Date Date Reached TD Completion Date

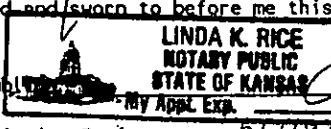
If yes, show depth set 1707' Feet
If Alternate II completion, cement circulated from 1707'
feet depth to surface w/ 325 sx cmt.

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 4/24/91

Subscribed and sworn to before me this 24th day of April, 19 91.
Notary Public [Signature]
Date Commission Expires 6/1/92



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)

PI

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name E. Umme1 Well # 4
 Sec. 26 Twp. 16S Rge. 22W East County Ness
 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
 (See attached page).

(See attached page).

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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used				FROM CONFIDENTIAL			
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#	254'	60/40 poz	160	2%gel, 3%CC
Production	7-7/8"	5 1/2"	15.5#	4443'	AFC	100	
						10bbls	mud flush
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 shots	4306.8' to 4308.8'			600 gal. of 15% demulstion			4306.8'-08.8'
3 shots	4301.5' to 4304'			w/12 gal. acetic, 2 gal. iron sequester, 2 gal. clay stabilizer.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)					
2/28/91							
Estimated Production Per 24 Hours		Oil 40 Bbls.	Gas Mcf	Water 1 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: 4306.8'-08.8'
4301.5'-04'

ORIGINAL

Ritchie Exploration, Inc.
 #4767
 #4 F. Ummel
 400' FSL & 400' FEL, SW/4
 Section 26-16S-22W
 Ness County, Kansas
 API #15-135-23,546
 ACO-1 Form
 Page 2

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MAY 13 1993

FROM CONFIDENTIAL

DRILL STEM TEST

DST #1 from 4302' to 4314' (Upper Cher. sand). Recovered 1,240' of gas in pipe, 315' of clean gassy oil, 62' of slightly muddy oil (90% oil, 10% mud), and 62' of muddy oil (60% oil, 40% mud). 439' of total fluid.

IFP:20-89#/30"; ISIP:295#/30";
 FFP:108-148#/30"; FSIP:285#/30".

ELECTRIC LOG TOPS

Anhydrite	1707' (+ 696)
B/Anhydrite	1745' (+ 658)
Heebner	3787' (-1384)
Lansing	3826' (-1423)
B/KC	4097' (-1694)
Pawnee	4193' (-1790)
Ft. Scott	4287' (-1884)
Cher. shale	4298' (-1895)
Upper Cher. sd.	4301' (-1898)
Miss.	4381' (-1978)
LTD	4444' (-2041)

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 STATE CORPORATION COMMISSION

APR 25 1991

CONSERVATION DIVISION
 Wichita, Kansas

15-135-23546-00-00

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

2003
FEB 91

1003094

TO: Ritchie Exploration Inc.
125 N. Market #1000
Wichita, Kansas 67202

INVOICE NO. 58747

PURCHASE ORDER NO. W-8750004

LEASE NAME F. Ummel #4

DATE Feb. 8, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 96 sks @\$5.25	\$ 504.00	
Pozmix 64 sk @\$2.25	144.00	
Chloride 5 sks @\$21.00	<u>105.00</u>	\$ 753.00
Handling 160 sks @\$1.00	160.00	
Mileage (22) @\$0.04¢ per sk per mi	140.80	
Surface	380.00	
Mi @\$2.00 pmp. trk.	44.00	
1 plug	<u>63.00</u>	<u>787.80</u>
	Total	\$ 1,540.80

Cement circ.

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INFORMATION
COMPLETELY

Total

\$ 1,540.80

Bennie F. Ummel

FEB 19 1991
FEB 17 1991

THANK YOU

6100-0270 = 1540.80
3820/70 = 308.1107

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

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STATE COMMISSION

APR 25 1991

CONSERVATION DIVISION
Wichita, Kansas

15-135-23546-00-00

TELEPHONE:
AREA CODE 913 483 2627

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

02002
FEB 91 1008122

OK/94

TO: Ritchie Exploration Inc.
125 N. Market #1000
Wichita, Kansas 67202

INVOICE NO. 58817
PURCHASE ORDER NO. _____
LEASE NAME F. Ummel #4
DATE Feb. 15, 1991

W-8950004

SERVICE AND MATERIALS AS FOLLOWS:

ASC 115 sks @\$7.25	\$833.75	\$ 833.75
Handling 115 sks @\$1.00	115.00	
Mileage (22) @\$0.04c per sk per mi	101.20	
Production string	880.00	
Mi @\$2.00 pmp. trk.	44.00	
1 plug	45.00	1,185.20
1-5 1/2" g. shoe	125.00	
1 AFU	189.00	
5 cent.	230.00	
1 basket	127.00	
1 p. collar	1785.00	
		<u>2,456.00</u>
	Total	\$ 4,474.95

6700 · 0270 = 2018.95
6500 · 0800 = 2456.00
3820 / 70 = 2894.99

Float held

THANK YOU

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

FEB 21 1991

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STATE CORPORATION COMMISSION

APR 25 1991

CONS. DIVISION
Wichita, Kansas

15-135-2354e-00-00

ORIGINAL

TELEPHONE:
AREA CODE 913 483 2627

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

02003

TO: Ritchie Exploration Inc.

125 N. Market #1000

Wichita, Kansas 67202

W. 8950004

INVOICE NO. 58859

PURCHASE ORDER NO. _____

LEASE NAME Ummel F-4

DATE Feb. 20, 1991

SERVICE AND MATERIALS AS FOLLOWS:

FEB 91

1 0 0 8 1 6 6

Common 150 sks @\$5.25
Pozmix 150 sks @\$2.25
Gel 18 sks @\$6.75
Flo sel 75 @ \$1.00

\$ 787.50
337.50
121.50
75.00

\$ 1,321.50

Handling 375 sks @\$1.00
Mileage (22) @\$0.04¢ per sk per mi
Port collar
Mi @\$2.00 pmp. trk.

375.00
330.00
475.00
44.00

1,224.00

Total \$ 2,545.50

Cement circ.

Bennie Dille

6200 - 0270 = 7545.50 PAID
3820 / 70 = 509.10

THANK YOU

MAR 5 1991

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

2036.46
FEB 28 1991

RECEIVED
STATE GOVERNMENT COMMISSION

APR 25 1991

CONSERVATION DIVISION
Wichita, Kansas