

ORIGINAL

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5-24-91
MAY 24 1991

SIDE ONE

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: n/a
Operator Contact Person: Jeff Christian
Phone (316): 267-4375

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.)

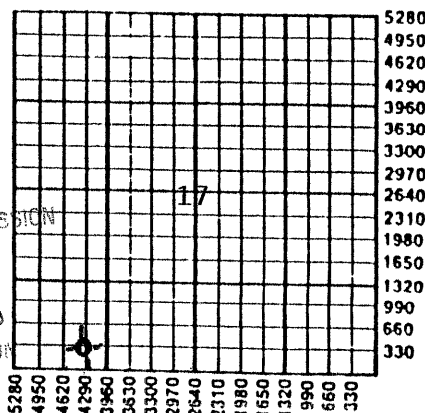
If OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
3/19/90 3/25/90 3/26/90
Spud Date Date Reached TD Completion Date

API No. 15- 163-23,086-00-00
County Rooks FROM CONFIDENTIAL
50' W. of SE SW SW Sec. 17 Twp. 6 Rge. 20 East West
330' Ft. North from Southeast Corner of Section
4340' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Freeman Well # 1
Field Name Todd NE
Producing Formation n/a
Elevation: Ground 2244' KB 2249'
Total Depth 3780' PBDT n/a

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5-31-90
CONSERVATION DIVISION
Wichita, Kansas



ALT II D&A

Amount of Surface Pipe Set and Cemented at 200' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____ feet depth to _____ w/ _____ 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: 5/11/90

Subscribed and sworn to before me this 11th day of May 19 90.
Notary Public: Linda K. Rice
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 Freeman Well # 1
Sec. 17 Twp. 6S Rge. 20 East West
County Rooks

RELEASED

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.)

FROM CONFIDENTIAL
FORMATION DESCRIPTION
 Log Sample
Name _____ Top _____ Bottom _____
PLEASE KEEP THIS INFORMATION CONFIDENTIAL

(See attached page).

(See attached page).

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#	200'	60/40poz	150	2%gel, 3%CC

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	n/a	n/a	

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 Bbls.	Gas Mcf	Water 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 _____

Ritchie Exploration, Inc.
#4767
#1 Freeman
50' W of SE SW SW
Section 17-6S-20W
Rooks County, Ks
ACO-1
Page 2

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DRILL STEM TESTS

DST #1 from 3452' to 3520' (Toronto & Top zone). Recovered 180' of muddy water, no show of oil.

IFP:86-96#/30"; ISIP:1171#/45";
FFP:125-134#/30"; FSIP:1124#/45".

DST #2 from 3660' to 3718' (L/KC 200', 220' zones & Marmaton). Recovered 3' oil and 17' oil cut mud (15% oil).

IFP:67-67#/45"; ISIP:211#/45";
FFP:67-67#/45"; FSIP:125#/45".

DST #3 from 3711' to 3731' (Basal sand). Recovered 3' mud with oil spots.

IFP:48-48#/30"; ISIP:48#/30";
FFP:48-48#/30"; FSIP:48#/30".

DST #4 from 3712' to 3737' (Arbuckle). Recovered 15' of free oil and 15' oil cut mud (20% oil).

IFP:57-57#/45"; ISIP:230#/60";
FFP:57-57#/45"; FSIP:125#/60".

DST #5 from 3735' to 3747' (Arbuckle) with straddle packers. Recovered 30' free oil and 25' oil cut mud (20% oil).

IFP:28-28#/45"; ISIP:932#/60";
FFP:38-38#/45"; FSIP:913#/60".

ELECTRIC LOG TOPS

Anhydrite	1852' (+ 397)	-2
B/Anhydrite	1884' (+ 365)	-2
Topeka	3248' (- 999)	-2
Heebner	3452' (-1203)	-2
Toronto	3476' (-1227)	-3
Lansing	3494' (-1245)	-5
B/KC	3686' (-1437)	-4
Marmaton	3705' (-1456)	-5
Basal sand	3719' (-1470)	-1
Arbuckle	3727' (-1478)	+1
LTD	3779' (-1530)	

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STATE CORPORATION COMMISSION

MAY 31 1990

CONSERVATION DIVISION
Wichita, Kansas

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

PLEASE KEEP THIS ORIGINAL INFORMATION CONFIDENTIAL *New*

Phone Plainville 913-424-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC. No. 8549
 Home Office P. O. Box 31 Russell, Kansas 67665 FROM CONFIDENTIAL

MAY 24 1991

Date	3-19-90	Sec.	17	Twp.	6 ^s	Range	20 ^w	Called Out	4:45 P.M.	On Location	7:20 P.M.	Job Start	8:45 P.M.	Finish	9 P.M.
Lease	Freeman	Well No.	1	Location	Damen 8N1E6N1W N. side			County	Rooks	State	Ks.				
Contractor	Murtin Drlg. Co			Rig #	8										
Type Job	Set Surface Pipe														
Hole Size	12 1/4"			T.D.	200'										
Csg.	8 3/8"			Depth	200'										
Tbg. Size				Depth											
Drill Pipe				Depth											
Tool				Depth											
Cement Left in Csg.	12'			Shoe Joint											
Press Max.				Minimum											
Meas Line				Displace	X										
Perf.															

Owner Same
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Ritkie Exploration, Inc.*
 Street *125 N. Market, Suite 1000*
 City *Wichita* State *Ks.* *67202*
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *[Signature]*
 X *[Signature]*
CEMENT

EQUIPMENT

Pumptrk	No.	Cementer	<i>Gary H.</i>
	<i>191</i>	Helper	
Pumptrk	No.	Cementer	<i>Ed K.</i>
		Helper	
Bulktrk		Driver	<i>Ed K.</i>
	<i>#212</i>	Driver	

Amount Ordered	<i>150 sks 60/40 @ 2.20/sk, 36 c.c.</i>	
Consisting of		
Common	<i>90 sks @ 5.00/sk.</i>	<i>\$450.00</i>
Poz. Mix	<i>60 sks @ 2.25/sk.</i>	<i>135.00</i>
Gel.	<i>3 sks @ 6.75/sk.</i>	<i>20.25</i>
Chloride	<i>5 sks @ 20.00/sk.</i>	<i>100.00</i>
Quickset		

Handling	<i>e 90 @ 1.50/sk. (150 sks)</i>	<i>135.00</i>
Mileage	<i>e 0.3 @ 1.00/sk/mi. (36 mi.)</i>	<i>36.00</i>
	<i>MAR 22 1990</i>	
	Sub Total	<i>\$1002.25</i>
	Total	

DEPTH of Job		
Reference:		
<i>#1</i>	<i>Pumptruck-surface</i>	<i>\$360.00</i>
<i>#8</i>	<i>1-8 3/8" rubber plug</i>	<i>71.00</i>
<i>#14</i>	<i>mileage e 1.00/mi.</i>	<i>36.00</i>
	Sub Total	<i>\$467.00</i>
	Tax	
	Total	

Floating Equipment *Thanks*

Remarks: *Cement Circulated*

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 WICHITA, KANSAS