

SIDE ONE

SEP 10 00-00 OCT 9 7 1992 10-7-92

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: Koch Oil Co.
Operator Contact Person: Jeff Christian
Phone (316) 267-4375

Contractor: Name: Murfin Drilling Co.
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)

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

Drilling Method:
 Mud Rotary Air Rotary Cable
7/30/91 8/06/91 8/28/91
Spud Date Date Reached TD Completion Date

API NO. 15- 153-20,778 **CONFIDENTIAL**

County Rawlins
E/2 NE NW Sec. 13 Twp. 2S Rge. 35W East West

4620 Ft. North from Southeast Corner of Section
2970 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

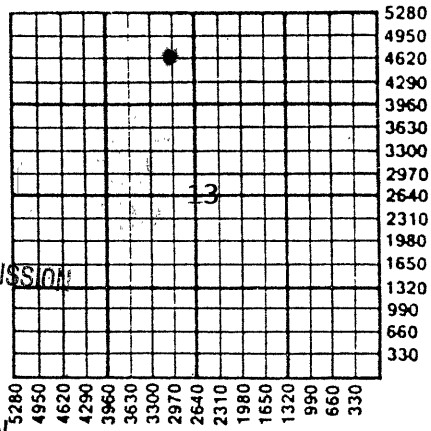
Lease Name Kopriva Well # 1

Field Name unnamed

Producing Formation Lansing

Elevation: Ground 3181' KB 3186'

Total Depth 4390' PBTD _____



PLEASE KEEP THIS INFORMATION CONFIDENTIAL

RECEIVED KANSAS CORPORATION COMMISSION

CONSERVATION DIVISION WICHITA, KS

Point of Surface Pipe Set and Cemented at 309' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set n/a Feet

If Alternate II completion, cement circulated from 309' feet depth to surface w/ 185 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 9/18/91

Subscribed and sworn to before me this 18th day of September, 19 91.

Notary Public Linda K. Rice
STATE OF KANSAS
My Appt. Exp. 6/07/91

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)

P1

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Kopriva Well # 1
 Sec. 13 Twp. 2S Rge. 35W East County Rawlins
 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name Top Bottom
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

(See attached page).

(See attached page).

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

CASING RECORD <input type="checkbox"/> New <input checked="" type="checkbox"/> 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"	28#	309'	60/40 poz	185	2% gel, 3% CC
Production	7-7/8"	5 1/2"	14#	4385'	60/40 poz	135	10% salt & 3% gilsonite
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
4 SSB	4241'-44'; 4151'-54.3'			400 gal. of 15% NE			4151'-54.3'
3 shots	4243.5'-46.5'; 3996.5'-4000.5'			500 gal. of 15% MCA			4241'-44'
				500 gal. of 15% MCA			3996.5'-4000.5'
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size 2-3/8"	Set At 4210.52'	Tension Packer At 4220'				
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)						
8/28/91							
Estimated Production Per 24 Hours	Oil 5 Bbls.	Gas 0 Mcf	Water 80 Bbls.	Gas-Oil Ratio	Gravity		

Disposition of Gas: n/a METHOD OF COMPLETION Open Hole Perforation Dually Completed Coning/led
 Vented Sold Used on Lease (If vented, submit ACO-18.) Other (Specify) _____ Production Interval Lansing "H" zone
4241'-4244'

ORIGINAL ^{KCC}

RITCHIE EXPLORATION, INC.

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

SEP 1 8

RELEASED

CONFIDENTIAL

OCT 0 7 1992

Ritchie Exploration, Inc.'s
#1 Kopriva
E/2 NE NW
Section 13-2S-35W
Rawlins County, KS
API# 15-153-20,778
License #4767

FROM CONFIDENTIAL

15-153-20778-00-00

ACO-1 form
Page 2

PLEASE KEEP THIS
INFORMATION
CONFIDENTIAL

DRILL STEM TESTS

DST #1 from 4108' to 4172' ("D" zone). Recovered 3' of oil, 77' oil cut watery mud (17% oil, 18% water, 65% mud); 180' oil cut muddy water (12% oil, 60% water, 28% mud); 365' slightly oil and mud cut water (5% oil, 85% water, 10% mud); 180' slightly oil cut water (2% oil, 98% water); and 510' of water with oil specks. 1,315' total fluid (5% oil, 10% mud, 85% water).
IFP:157-436#/30"; ISIP:1255#/30";
FFP:493-629#/30"; FSIP:1233#/30".

ELECTRIC LOG TOPS

Anhydrite	3003' (+ 183)
B/Anhydrite	3041' (+ 145)
Topeka	3893' (- 707)
Oread	3995' (- 809)
Lansing	4090' (- 904)
B/KC	4353' (-1167)
LTD	4391' (-1205)

DST #2 from 4172' to 4226' ("G" zone). Recovered 5' of slightly oil cut mud (1% oil, 99% mud).
IFP:39-39#/30"; ISIP:76#/30";
FFP:43-43#/30"; FSIP:76#/30".

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 1 1991

CONSERVATION DIVISION
WICHITA, KS

DST #3 from 4222' to 4268' ("H" zone). Recovered 40' of gas in pipe; 200' oil cut mud (15% oil, 85% mud); 120' slightly oil cut mud (4% oil, 96% mud); 120' slightly oil cut watery mud (4% oil, 16% water, 80% mud); 60' slightly oil cut watery mud (3% oil, 32% water, 65% mud). 500' total fluid (8% oil, 8% water, 84% mud).
IFP:65-130#/30"; ISIP:1272#/30";
FFP:163-213#/30"; FSIP:1258#/30".

DST #4 from 4267' to 4315' ("J" zone). Recovered 75' of mud with few oil specks.
IFP:65-69#/30"; ISIP:251#/45";
FFP:76-76#/30"; FSIP:152#/45".

Russell, Kansas
5861, Great Bend, Kansas

SEP 1 8
Phone Plainville 913-434-2812
Phone Ness City 913-798-3843

ORIGINAL
ALLIED CEMENTING CO., INC.
Home Office P. O. Box 31
Russell, Kansas 67665
No. 2019
OCT 07 1992

Date 7-30-91 Sec. 13 Twp. 2 Range 35 Called Out 2:00 PM On Location 5:45 PM Job Start 8:30 PM Finish 9:00 PM

Lease Kopriva Well No. #1 Location Atwood 5N6W12W12SE County Rawlins State Kansas

Contractor Murkin Drlg Rig Rig 3 Owner Same

Type Job Surface

Hole Size 12 1/4" T.D. 310'

Csg. 8 5/8" Depth 309'

Tbg. Size _____ Depth _____

Drill Pipe _____ Depth _____

Tool _____ Depth _____

Cement Left in Csg. 15' Shoe Joint _____

Press Max. _____ Minimum _____

Meas Line Yes Displace _____

Perf. _____

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 Ritchie Exploration Inc.

Street 125 N Market #1000

City Wichita State Kan 67202

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X Keith Van Pelt

EQUIPMENT

#191	No.	Cementer	<u>M Kaufman</u>
Pumptrk		Helper	<u>Wayne M</u>
	No.	Cementer	
Pumptrk		Helper	
#212		Driver	<u>Joe S.</u>
Bulktrk		Driver	

Amount Ordered 190 SKS 60/40 P02 39cc 2706e

Consisting of

Common	<u>114</u>	<u>6.10</u>	<u>695.40</u>
Poz. Mix	<u>78</u>	<u>2.40</u>	<u>187.20</u>
Gel. Chloride	<u>6.75</u>	<u>N/C</u>	
Quickset	<u>21.00</u>	<u>126.00</u>	

OCT 7 1991

SALES TAX

Handling	<u>1.00</u>	<u>190.00</u>
Mileage	<u>4.3m</u>	<u>04</u>
		<u>326.80</u>
		<u>1525.40</u>

DEPTH of Job

Reference:	<u>#</u>	<u>PUMP TRK</u>	<u>380.00</u>
		<u>1-8 5/8" PLUG</u>	<u>42.00</u>
		<u>200 Perm. 1e 43</u>	<u>86.00</u>
		Sub Total	<u>508.00</u>
		Tax	
		Total	

Remarks: Cement Circulated

copy Linda
8-2-91
RS

Floating Equipment

2 - Centralizers

Frank

AUG 2 1991

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ORIGINAL

SEP 1 8

AUG 9 1

1004416
No. 2025
OCT 7 1992

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

NEW

FROM CONFIDENTIAL

Date	8-6-91	Sec.	13	Twp.	2	Range	35	Called Out	10:30AM	On Location	6:00PM	Job Start	9:15PM	Finish	10:15PM
Lease	Kopriva	Well No.	# 1	Location		Atwood 5N6W12W15, Rawlins Kansas									
Contractor	Murphy Drilling	Rig 3													
Type Job	Production														
Hole Size	7 7/8"	T.D.	4390'												
Csg.	5 1/2"	Depth	4385'												
Tbg. Size		Depth													
Drill Pipe		Depth	PLEASE KEEP THIS INFORMATION CONFIDENTIAL												
Tool		Depth													
Cement Left in Csg.	16'	Shoe Joint	16'												
Press Max.		Minimum													
Meas Line	yes	Displace													
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: Ritchie Exploration Inc
 Street: 125 N. Market # 1000
 City: Wichita State: KANSAS

The above was done to satisfaction and supervision of owner agent or contractor.

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

EQUIPMENT

#191	No.	Cementer	W. Kaufman
Pumptrk		Helper	Wayne M
#212	No.	Cementer	[Signature]
Bulktrk		Helper	[Signature]
Bulktrk		Driver	[Signature]

Amount Ordered	150 SKS 60/40 P. 2-10% Salt 5% bit
Consisting of	500 Gal WFR-2
Common	90 @ 6.10 = 549.00
Poz. Mix	60 @ 2.00 = 120.00
Split	13 @ 4.75 = 61.75
Chloride	6 @ 3.50 = 21.00
Quickset	WFR-2 500 gals @ 50¢ = 250.00
Sales Tax	
Handling	@ 1.00 = 150.00
Mileage	44 / SK / Mile = 258.00
Sub Total	1626.96
Total	1626.96

DEPTH of Job	CONSERVATION DIVISION WICHITA, KS	880.00
Reference: #	PUMP TRK	45.00
	1-5 1/2" plug	86.00
	2.00 PER Mile	
Sub Total		
Tax		
Total		1011.00

Floating Equipment	6 - Centralizers @ 46.00 ea = 276.00
	1 - Basket = 127.00
	1 - AFU INSERT = 189.00
	1 - Guide Shoe = 125.00
	717.00

Remarks: 15 SKS in Rat Hole Float Held

[Signature]

AUG 19 1991

AUG 12 1991