

5/25/87
KCC

13-6-22W

S SIDE ONE

RELEASED

Date: JUN 1 1987
STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
FROM CONFIDENTIAL
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.
Wichita, KS
Operator Contact Person Galen Babcock
Phone 316/267-4375
Contractor: License # 6033
Name Murfin Drilling Co.
Wellsite Geologist Larry Zink
Phone 316/267-4375

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

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

WELL HISTORY

Drilling Method:
☒ Mud Rotary ☐ Air Rotary ☐ Cable
1/30/86 2/06/86 2/25/86
Spud Date Date Reached TD Completion Date
3865' n/a
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 250 feet
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No
If yes, show depth set 1952 feet
If alternate 2 completion, cement circulated
from 1952 feet depth to surface 300 SX cmt
Cement Company Name Allied Cementing Co.
Invoice # 477

API NO. 15-065-22,298
County Graham
East
SW NW NE Sec. 13 Twp. 6S. Rge. 22. X West
4290 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)
Lease Name Ary Well # 2
Field Name not named yet Boys SW
Producing Formation Lansing
Elevation: Ground 2284' KB 2289'
Section Plat

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INFORMATION
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MAR 31 1986

WATER SUPPLY INFORMATION

Disposition of Produced Water: ☒ Disposal
Docket # 20,496 ☐ Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717
Source of Water:
Division of Water Resources Permit #
Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge East West
Surface Water Ft North from Southeast Corner
(Stream, pond etc.) Ft West from Southeast Corner
Sec Twp Rge East West
Other (explain)
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 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.

SIDE TWO

Operator Name Ritchie Exploration, Inc. Lease Name Ary Well # 2

Sec. 13 Twp. 6S Rge. 22 ☐ East ☒ West County Graham

WELL LOG

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
 Samples Sent to Geological Survey ☒ Yes ☐ No
 Cores Taken ☐ Yes ☒ No

DST #1 from 3490' to 3553' (Toronto & Top zone). Recovered 5' of heavily oil cut mud (35% oil & 65% mud); 60' of oil cut watery mud (12% oil, 13% water, & 85% mud); and 180' of slightly oil cut mud (3% oil & 97% mud).
 IFP: 45-86#/30"; ISIP: 983#/45";
 FFP: 111-148#/30"; FSIP: 938#/45".

DST #2 from 3557' to 3580' (35' zone). Recovered 1' of clean oil, 125' of slightly oil cut watery mud (4% oil, 21% water, & 75% mud); and 300' of muddy water with oil specks.
 IFP: 31-114#/30"; ISIP: 747#/45";
 FFP: 134-194#/30"; FSIP: 743#/45".

DST #3 from 3579' to 3598' (50' zone). Recovered 378' of gas in pipe; 186' of gassy mud cut oil (15% gas, 30% mud & 55% oil); 124' of heavily oil cut mud (cont'd)

Formation Description
☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	1946' (+ 343)	
B/Anhydrite	1978' (+ 311)	
Topeka	3312' (-1023)	
Heebner	3496' (-1207)	
Toronto	3522' (-1233)	
Lansing	3539' (-1250)	
B/KC	3725' (-1436)	
Cong. Sd.	3775' (-1486)	
Arbuckle	3808' (-1519)	
LTD	3864' (-1575)	

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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 1/2"	8-5/8"	23#	250'	60/40 poz	185	2% gel, 3% CC
Production	7-7/8"	4 1/2"	10.5#	3864'	60/40 poz	140	10% salt & 3% gilsonite
						10	salt 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	
2 SSB	3687'-3691'			750 gal. of 28%		3687-91	
2 SSB	3710 1/2'-3714' & 3720 1/2'-24'			750 gal. of 28%		3710 1/2-1	
	3584'-3587'					3720 1/2-2	
						3584-87	
TUBING RECORD				Liner Run ☐ Yes ☐ No			
Size	Set At	Packer at					

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SIDE TWO (Page Two)

ACO-1 WELL HISTORY

OPERATOR Ritchie Exploration, IDLEASE NAME Ary

SEC. 13 TWP 6S RGE. 22W

FILL IN WELL LOG AS REQUIRED:

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
DST #3 (cont'd) : (5% gas, 30% oil, & 65% mud); 65' of slightly mud cut oil (6% mud & 94% oil); 410' of clean oil; & 120' of oil cut mud (20% oil & 80% mud). IFP: 79-251#/15"; ISIP: 628#/30"; FFP: 292-369#/15"; FSIP: 623#/30".			CONFIDENTIAL	
DST #4 from 3642' to 3706' (140', 160', & 180' zones). Recovered 150' of gas in pipe; 120' of heavily oil cut mud (3% gas, 33% oil & 64% mud); 120' of oil cut mud (3% gas, 25% oil & 72% mud); and 60' of oil cut mud (16% oil & 84% mud). IFP: 59-105#/30"; ISIP: 752#/45"; FFP: 125-157#/30"; FSIP: 730#/45".				
DST #5 from 3698' to 3736' (200' & 220' zones). Misrun, packer failure.				
DST #6 from 3753' to 3792' (Cong. sand). Recovered 20' of heavy oil; 125' of gassy mud cut oil (50% gas, 5% mud & 45% oil); 240' of oil cut mud (20% oil, 10% gas, & 70% mud); and 60' of slightly oil cut mud (2% oil, 8% water, & 90% mud). IFP: 36-132#/30"; ISIP: 990#/45"; FFP: 168-244#/30"; FSIP: 926#/45".				
DST #7 from 3815' to 3820' (Arbuckle). Recovered 2' of mud with oil spots. IFP: 15-15#/30"; ISIP: 54#/30"; FFP: 18-18#/30"; FSIP: 54#/30".				

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Date of First Production 2/25/86	Producing Method ☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....				
Estimated Production Per 24 Hours	Oil 60Bbls	Gas MCF	Water 45Bbls	Gas-Oil Ratio CFPB	Gravity

METHOD OF COMPLETION

Production Interval

 Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Commingled

 3687'-91'; 3710½'
 14'; 3720½'-24';
 3584'-87'

WELL LOG

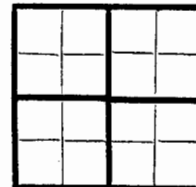
13-6-22w

COMPANY Ritchie Exploration, Inc.
 125 N. Market, Suite 1000
 Wichita, KS 67202
FARM ARY **NO.** 2
RIG. NO. 8
TOTAL DEPTH 3865'
COMM. 01-30-86 **COMP.** 02-07-86
CONTRACTOR Murfin Drilling Company
 250 N. Water, Suite 300
 Wichita, KS 67202

SEC. 13 **T.** 6S **R.** 22W
LOC. SW NW NE

CONFIDENTIAL

COUNTY Graham
 KANSAS



CASING
 20 10
 15 8 -5/8" set @ 250' w/185 sx 60/40 Poz, 2% Gel, 3% GC.
 12 6
 13 5 4-1/2" set @ 3864' w/150 sx 60/40 Poz, 10% Salt
FIGURES INDICATE BOTTOM OF FORMATIONS

Surface Dirt, Sand & Shale	251'
Shale & Sand	1945'
Anhydrite	1976'
Shale	2470'
Shale & Lime (RTD)	3865'

MAR 31 1986
 State Geological Survey
 WICHITA BRANCH

JUN 12 1987
 Kansas Geological Survey
 WICHITA BRANCH