

SIDE ONE

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

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

Purchaser Koch Oil Company  
Wichita, Kansas

Operator Contact Person Jeff Christian  
Phone 316-267-4375

Contractor: License # 6033  
Name Murfin Drilling Company

Wellsite Geologist Jeff Christian  
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 **OWWO**: old well info as follows:  
Operator  
Well Name  
Comp. Date  
Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
11-6-87 11-13-87 1/5/88  
Spud Date Date Reached TD Completion Date  
3650' n/a  
Total Depth PBDT  
8-5/8" @ 216'  
Amount of Surface Pipe Set and Cemented at...feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set...feet  
If alternate 2 completion, cement circulated  
from 1740' feet depth to surface 475' cmt  
Cement Company Name Allied Cementing  
Invoice # 50244

API No. 15-065-22,413 0000  
County Graham  
100 N of  
SW SW SW Sec. 12 Twp. 7S Rge. 21 East  
SW West

430 Ft North from Southeast Corner of Section  
4950 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

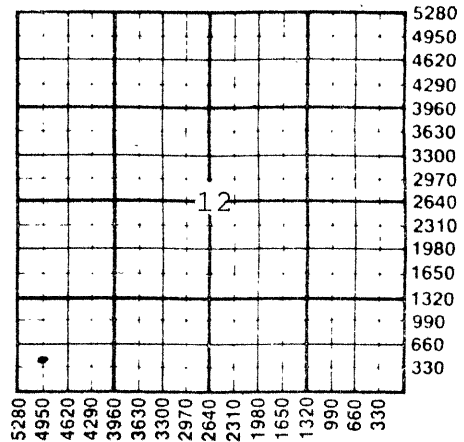
Lease Name Ken Holsman Well # 1

Field Name LE SAGE, WEST

Producing Formation Lansing

Elevation: Ground 2158' KB 2163'

Section Plat



PLEASE KEEP THIS  
INFORMATION  
CONFIDENTIAL

WATER SUPPLY INFORMATION

Disposition of Produced Water:  Disposal  
Docket # D-25,274  Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water: Hauled.  
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 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. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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] Vice President Date 2/24/88

Subscribed and sworn to before me this 24th day of February, 1988.  
Notary Public Linda K. Rice  
Date Commission Expires 6/07/88



K.C.C. OFFICE USE ONLY  
 Letter of Confidentiality Attached  
 Wireline Log Received  
 Drillers Timelog Received  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other  
(Specify)

Sec. 12, Twp. 7, Rge. 21 East

Operator Name Ritchie Exploration, Inc. Lease Name Ken Holsman Well # 1

Sec. 12 Twp. 7S Rge. 21  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

Formation Description  
 Log  Sample

DST #1 3310'-3344' (Lower Topeka). Recovered 107' of muddy water w/trace of oil & 568' of water.  
 IFP:66-209#/30"; ISIP:782#/30";  
 FFP:267-324#/30"; FSIP:722#/30".

DST #2 3339'-3376' (Toronto). Recovered 372' of gas in pipe; 464' of clean gassy oil; 35' of mud cut oil & 62' of oil cut mud.  
 IFP:47-133#/30"; ISIP:963#/30";  
 FFP:181-209#/30"; FSIP:954#/30".

DST #3 3372'-3396' (Top zone). Recovered 1074' of gas in pipe; 560' clean gassy oil; 226' gassy mud cut oil; 62' oil cut muddy water; 62' oil cut water; & 60' of muddy water.  
 IFP:72-238#/30"; ISIP:696#/30";  
 FFP:295-372#/30"; FSIP:696#/30".

Name	Top	Bottom
Anhydrite	1760' (+ 403)	
B/Anhy	1792' (+ 371)	
Topeka	3140' (- 977)	
Heebner	3342' (-1179)	
Toronto	3364' (-1201)	
Lansing	3377' (-1214)	
B/KC	3574' (-1411)	
Regan sand	3626' (-1463)	
Pre Camb.		
Granite	3646' (-1483)	
LTD	3650' (-1487)	

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CASING RECORD <input checked="" type="checkbox"/> New <input 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 1/8"	8-5/8"	24#	216'	60-40 Poz	150	2% gel, 3% cc
Production	7-7/8"	4 1/2"	10.5#	3649'	60/40 Poz	125	10% salt
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
32 SSB	3435 1/2' - 3439' (50' zone)			600 gal. of 15% MCA		3435 1/2' - 39'	
2 SSB	3416 1/2' - 3419' (35' zone)			500 gal. of 15% MCA		3416 1/2' - 19'	
2 SSB	3379' - 3384' (Top zone)			800 gal. of 15% acid		3379' - 84'	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing Method						
1/05/88	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-0	Gravity	RELEASED	
	59 Bbls	MCF	30 Bbls			MAR 30 1989	
						FROM CONFIDENTIAL	

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 N/A  Solid  Other (Specify) .....  
 Used on Lease  Dually Completed  Commingled

3435 1/2' - 39'; 3416 1/2' - 19'; 3379' - 84'

OPERATOR Ritchie Exploration, Inc. LEASE NAME Ken Holsman

SEC. 12 TWP. 7S RGE. 21 (W)

**FILL IN WELL LOG AS REQUIRED:**

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

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.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
<p>DST #4 3402'-3443' (35' &amp; 50' zones).                      Recovered 744' of gas in pipe; 248' clean gassy oil; 360' of gassy mud cut oil; 124' water cut oil; and 396' of muddy water.                      IFP:133-333#/30"; ISIP:744#/30";                      FFP:400-486#/30"; FSIP:744#/30".</p> <p>DST #5 3443'-3479' (70', 90' &amp; 100' zones).                      Recovered 300' gas in pipe; 417' slightly oil and gas cut muddy water, &amp; 806' of gassy water.                      IFP:85-191#/30"; ISIP:830#/30";                      FFP:448-582#/30"; FSIP:830#/30".</p> <p>DST #6 3490'-3551' (140', 160', 180' zones).                      Recovered 124' gas in pipe and 130' of slightly oil cut mud.                      IFP:76-85#/45"; ISIP:725#/45";                      FFP:104-104#/45"; FSIP:419#/45".</p> <p>DST #7 3599'-3633' (Regan sand). Recovered 10' of oil spotted mud, oil on top of tool.                      IFP:19-10#/30"; ISIP:47#/45";                      FFP:19-19#/30"; FSIP:38#/45".</p>				

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KANSAS GEOLOGICAL SURVEY  
 WICHITA BRANCH

FEB 29 1988

RELEASED

MAR 30 1989

FROM CONFIDENTIAL