

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 Rocky Milford
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 **OWNO**: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
9-24-87 10-1-87 10-21-87
Spud Date Date Reached TD Completion Date
3750' N/A
Total Depth PBD
8-5/8" @ 217'
Amount of Surface Pipe Set and Cemented at...feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set...1834...feet
If alternate 2 completion, cement circulated
from...1834...feet depth to surface w/ .475SX cmt
Cement Company Name Allied Cementing
Invoice # 49849

SIDE ONE

API NO. 15-163-22,948-00-00
County Rooks
NE SE NW Sec 6 Twp 7 Rge 20 East
X West

3630 Ft North from Southeast Corner of Section
2970 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

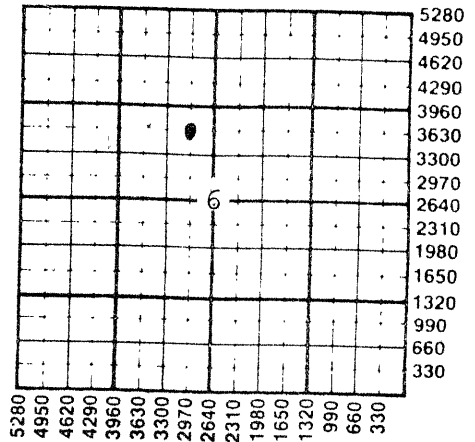
Lease Name Waller Well # 1

Field Name Solobow, SE

Producing Formation Lansing

Elevation: Ground 2213' KB 2218'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring
No water at present.

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]
Title Vice President Date 12/15/87

Subscribed and sworn to before me this 15th day of December 1987.
Notary Public Linda K. Rice 01-15 JAN 1988
Date Commission Expires 6/07/88



OCT 23 1987

K.C.C. OFFICE USE ONLY

Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Time Log Received

Distribution
 KCC
 RES
 SWD/Rep
 Plug
 NGPA
 Other
(Specify)

Form ACO-1 (5-86)

Sec. 6 Twp. 7 Rge. 20 W

Operator Name Ritchie Exploration, Inc. Lease Name Waller Well # 1

Sec. 6 Twp. 7 Rge. 20 East West County Rooks

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 3408'-3460' (Toronto-Lansing Top zone). Recovered 640' of gas in pipe, 1,580' of clean gassy oil and 180' of oil cut mud. 1,760' of total fluid.

IFP:158-336#/30"; ISIP:947#/30";
 FFP:413-476#/30"; FSIP:937#/30".

DST #2 3470'-3513' (Lansing 35' & 50' zones). Recovered 1,046' of gas in pipe, 820' of clean gassy oil and 180' of oil cut mud. 1,000' of total fluid.

IFP:127-180#/30"; ISIP:1173#/30";
 FFP:307-338#/30"; FSIP:1151#/30".

DST #3 3353'-3398' (Lower Topeka) with straddle packers.
 Packer Failure.

Name	Top	Bottom
Anhydrite	1815' (+ 403)	
B/Anhydrite	1848' (+ 380)	
Topeka	3200' (- 982)	
Heebner	3408' (-1190)	
Toronto	3429' (-1211)	
Lansing	3442' (-1224)	
B/KC	3637' (-1419)	
Cgl. sand	3698' (-1480)	
Arbuckle	3732' (-1514)	
LTD	3749' (-1531)	

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

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 1/4"	8-5/8"	23#	217'	60-40 Quikset		
Production	7-7/8"	4-1/2"	10.5#	3718'	60/40 Poz	160 125	10% salt-10 sit flsh
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
1 3/8"	3597'	3592'	3501' & 3453'	& acidized w/ 2800 gal.			
2 SSB jets	3602'-07'	3591'-98'	3499'				
	3502'	3481'-3484'	3442 1/2'				
	3447 1/2'	These perfs were acid			dized w/ 1950 gal. 28% acid.		
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).....						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	59 Bbls	MCF	0 Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease Dually Completed Commingled

same as above
 L/KC Top, 35', 50',
 160' & 180' zones.

OPERATOR Ritchie Exploration, Inc LEASE NAME #1 Waller

SEC. 6 TWP. 7 RGE. 20 (W)

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
<p>DST #4 3507'-3532' (Lansing 70'-90' zones). Recovered 240' of gas in pipe, 3' clean oil, 90' very slightly oil cut mud and 180' of very slightly oil cut watery mud. 273' of total fluid. IFP:74-84#/30"; ISIP:1035#/45"; FFP:158-158#/30"; FSIP:1035#/45".</p> <p>DST #5 3554'-3618' (L/KC 140'-180' zones) Recovered 260' of gas in pipe, 640' of free oil and 120' of mud cut oil (75% oil/25% mud). 760' of total fluid. IFP:148-254#/30"; ISIP:874#/45"; FFP:286-328#/30"; FSIP:884#/45".</p> <p>DST #6 3635'-3717' (Cgl. sand). Recovered 25' of slightly oil cut mud. IFP:95-95#/45"; ISIP:148#/60"; FFP:95-95#/45"; FSIP:105#/60".</p>				

PLEASE KEEP THIS INFORMATION CONFIDENTIAL

JAN 19 1988

15 1988

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH