

## KANSAS DRILLERS LOG

State Geological Survey

API No. 15

WICHITA

BRANCH

20,963

County

Number

Operator

McCullough Oil Corp.

Address

Jamestown Office Par, S-250 Oklahoma City, Okla 73116

Well No.

#1-25

Lease Name

XXXXXXXXXX

Ruthven, Inc.

Footage Location

1320

feet from (S) line

1320

feet from (E) line

Principal Contractor

Allen Drilling Co.

Geologist

Robert Dougherty

Spud Date

September 21, 1976

Total Depth

3335'

P.B.T.D.

Date Completed

October 2, 1976

Oil Purchaser

S. 25 T. 12 R. 15 E

Loc. 1320

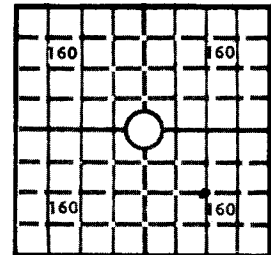
FEL &amp; 1320

FSL

County Russell

640 Acres

N



Locate well correctly

Elev.: Gr. 1802

DF k806

KB 1807

## CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 1/4	8 5/8	28	300'	Class "A"	175	2% gel, 3% CaCl
Production	7 7/8	5 1/2	15.5	3278'	Pozmix	700	2% gel, 18% Salt 10# oil.

## LINER RECORD

## PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			Selected	0.38" Jet	2438-2509
TUBING RECORD					
Size	Setting depth	Packer set at			
2 3/8	2400'	None			

## ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1000 gal. 15% HCl Acid, 26,000 gal gelled	2438-2509
1% KCl water & 39,000# sand	

## INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)				
	Swab test.				
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	None bbls.	None MCF	100 bbls.		CFPB
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		
			2438-2509		

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator McCulloch Oil Corporation		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
Well No. 1-25	Lease Name Ruthven	Dryhole
S 25 T 12 R 15 K W		

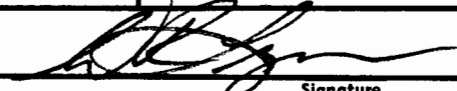
### WELL LOG

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
See attached sheet				

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	 Signature
	DIST. DRUG. ENGR Title
	2-10-77 Date

DRILL STEM TESTS

Drill Stem Test #1 3174-3211 Lansing 'J' Zone (171-208)

Tool Open: Initial 30 Min + Final 30 Min = 60 Min  
Very weak blow throughout

Recovered: 60 feet of mud, no show of oil.

ISIP:	1087 #/60 Minutes	IFP:	30-40#
FSIP:	1071 #/60 Minutes	FFP:	51-57#
HP:	1579 #	BHT:	98° F

APR 07 1977

Drill Stem Test #2 2400-2475 (Hookwall)"1st &amp; 2nd Tarkio Sand"

Tool Open: Initial 30 Min + Final 30 Min = 60 Min  
Week blow died in 10 minutes

Recovered: 60 Feet of mud

ISIP:	846 #/60 Minutes	IFP:	30-30#
FSIP:	816 #/60 Minutes	FFP:	41-48#
HP:		BHT:	N/A

Drill Stem Test #3 2115-2190 (Hookwall) Neva and Red Eagle

Tool Open: Initial 30 Min + Final 30 Min = 60 Min  
Very weak blow throughout. Charts indicate top packer leaking.

Recovered: 60 Feet of Mud

ISIP:	591 #/60 Minutes	IFP:	30-34#
FSIP:	591 #/60 Minutes	FFP:	40-44#

GEOLOGIC FORMATION TOPS

Anhydrite	869 +938	Willard	2491 - 684
Base Anhydrite	906 +901	Elmont	2527 - 720
Wellington Salt	1246 +561	Bern	2597 - 790
Base Salt	1520 +287	Burlingame	2629 - 822
Herington	1664 +143	Howard	2666 - 859
Winfield	1712 + 96	Topeka	2726 - 919
Towanda	1776 + 31	Heebner	2949 -1142
Ft. Riley	1816 - 9	Toronto	2969 -1162
Base Florence	1890 - 83	Douglas	2982 -1175
Wreford	1940 -133	Lansing	3003 -1196
Council Grove	1968 -161	Base K. C.	3258 -1451
Admire Group	2237 -430	Marmaton	3271 -1464
Wabaunsee Group	2349 -542	Conglomerate	3277 -1470
Grandhaven	2391 -584	Arbuckle Not Penetrated	
Tarkio	2468 -661	Rotary T. D.	3335 -1528
	Log TD 3323 -1521		

The above formation tops are based on electric - log measurements which vary from 3 feet to 3 feet shallower than rotary measurements.