

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

API No. 15 — 167 — 20,925
County Number

Operator

Sohio Petroleum Company

Address

Box 673 Russell, Kansas 67665

Well No.

#13

Lease Name

C. C. Oswald

Footage Location

990 feet from (N) (S) line 990 feet from (E) (W) line

Principal Contractor

Red Tiger Drilling Company

Geologist

Francis Whisler

Spud Date

7/13/76

Total Depth

3299'

P.B.T.D.

2560'

Date Completed

8/10/76

Oil Purchaser

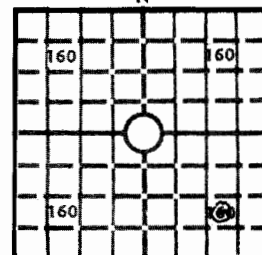
Sohio Petroleum Company

S. 8 T. 12 R. 15 W

Loc. NW SE SE

County Russell

640 Acres



Locate well correctly

Elev.: Gr. 1825'

DF 1827' KB 1830'

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"	24#	128.45'	Class A	125	2% Salt, 3% CaCl
Production	7 7/8"	5 1/2"	14#	3281'	Howcolite 50-50 Poz	200 150	All w/18% salt 3/4% CFR-2, 10# Gil
		DV Tool @		892'	Howcolite	250	10# Gil

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
	NONE	

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8"	2494'	None

SEE BACK

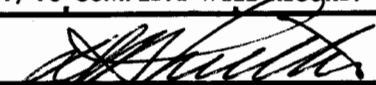
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
SEE BACK	

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
8/11/76		Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	29	bbls. 0	MCF 67	bbls.	0 CFPB
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
-----			3rd Tarkio 2482-92'		

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 Sohio Petroleum Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 13	Lease Name C. C. Oswald	Oil	
S 8 T 12S R 15 E 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. E. Log	
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
DST #1: 2467-2500' 30-60-60-90 with fair blow, increasing to strong. Recovery: 63' of gas cut mud 272' of slight oil & gas cut mud IFP: 51 to 71 psi IBHP: 264 psi FFP: 71 to 92 psi FBHP: 264 psi Well History: Cleaned out and drilled to 3299'. Attempted to acidize Arbuckle. Tested. Set BP @ 3265' w/1 sk cmt. Perforated 2997' and 2978' w/1 hole, acidized w/1000 gal 28% HCl acid. Perforate 2976-80' & 1995-99' w/2 SPF. Swab tested. Set permanent BP @ 2560' w/1 sk cmt. Perforate 3rd Tarkio 2482-92' w/2 SPF. Frac w/350 gal 15% HCl acid, 3000 gal pad, 17,250# 10-20 sand. Put on pump. No Cores Log: Gamma Ray, Neutron Guard Caliper			Grand Haven 2378' Tarkio Lime 2451' 3rd Tarkio 2480' Elmont 2507' Topeka 2697' Heebner 2915' Toronto 2937' L-KC 2970' Arbuckle 3279'
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature District Engineer Title 9/9/76 Date		

7142