

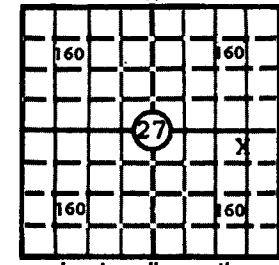
KANSAS DRILLERS LOG

S. 27 T. 14 R. 13 W

Loc. N/2 NE SE

County Russell

640 Acres
N



Elev.: Gr. 1691

DF 1694 KB 1696

API No. 15 — 167 — 21,094
County Number

Operator
Shields Oil Producers, Inc.

Address
Shields Bldg., Russell, Kansas 67665

Well No. #16 Lease Name Letsch

Footage Location
2310 feet from (N) (S) line 660 feet from (E) (W) line

Principal Contractor Shields Drlg. Co., Inc. Geologist M. L. Ratts

Spud Date 10-15-77 Total Depth 2860 P.B.T.D. 2300

Date Completed 10-20-77 Oil Purchaser Continental

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	270	Quickset	180	
Production	7 7/8	5 1/2	14	2848	Common	200	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	Jet	2707-10 & 2562-65
TUBING RECORD					2544-47
					2260-65 & 2278-83
Size	Setting depth	Packer set at	2	Jet	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
2500-28%	2848-2860
3000-15%	2544-2710
20,000# Sand & 500 B.W.	2260-65 & 2278-83

INITIAL PRODUCTION

Date of first production <u>11-28-77</u>	Producing method (flowing, pumping, gas lift, etc.) <u>Pumping</u>
RATE OF PRODUCTION PER 24 HOURS	Oil <u>25</u> bbls. Gas <u>Yes</u> MCF Water Gas-oil ratio CFPB
Disposition of gas (vented, used on lease or sold) <u>Used on lease</u>	Producing interval (s) <u>2260-2283</u>

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
Shields Oil Producers, Inc.

DESIGNATE TYPE OF COMP.: OIL, GAS,
DRY HOLE, SWDW, ETC.:

Well No. 16
Lease Name Letsch

Oil

S 27 T 14 R 13 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
			Grandhaven Lm.	2168
			Tarkio Sd.	2180
			Dover Lm.	2190
			2nd Tarkio Sd.	2200
			Tarkio Lm.	2238
			3rd Tarkio Sd.	2260
			4th Tarkio Sd.	2276
			Topeka Lm.	2510
			Heebner Sh.	2742
			Toronto Lm.	2758
			L-K.C. Lm.	2810

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

Date Received

M. Z. Rate
Signature

Geologist-Engineer
Title

12-9-77
Date