

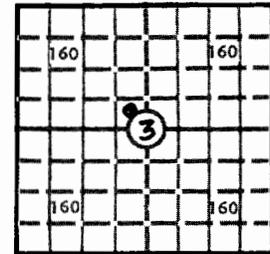
KANSAS DRILLERS LOG

S. 3 T. 1 R. 33 ^K/_W

Loc. A/SE SE NW

County Rawlins

640 Acres
N



Locate well correctly
2980

Elev.: Gr. _____

DF _____ KB 2985

API No. 15 — 153 — 20,168
County Number

Operator

Empire Drilling Co.

Address 650 Fourth National Bank Bldg.
Wichita, Kansas

Well No.

#1

Lease Name

Arendt

Footage Location

2200 feet from (N) line 2200 feet from (W) line

Principal Contractor

Murfin Drilling Company

Geologist

Steve Powell

Spud Date

9-7-73

Total Depth

4150 Rotary

P.B.T.D.

Date Completed

9-17-73

Oil Purchaser

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 $\frac{1}{2}$	8 5/8	28#	289	Poz Mix	225	HA5

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbls.	MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		

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 an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator Empire Drilling Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Dry Hole
Well No. 1	Lease Name Arendt	
S <u>3</u> T <u>1</u> R <u>33</u> W		

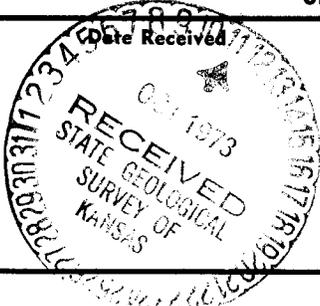
WELL LOG

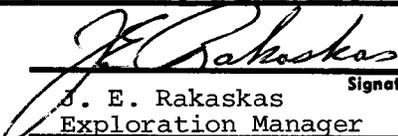
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

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

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Clay & sand		185	Anhydrite	2815
Shale		1805	Base Anhydrite	2850
Sand & Shale		2472	Topeka	3700
Shale & Lime		2565	Deer Creek	3757
Shale - sand		2795	Oread	3825
Shale		2819	Base Oread	3858
Anhydrite		2855	Douglas Sand	3865
Shale		2975	Lansing	3897
Shale & shells		3135	Zone 2A	3951
Shale - Lime		3285	Zone 5	3988
Lime & shale		3415	Zone 6A	4045
Lime		3610	Zone 7	4093
Lime & shale		3800	Zone 9	4136
Lime		4071	Log TD	4145
Shale & lime		4150	Rotary TD	4150
TD		4150		
DST #1 3792-3840 Open 30 min. Shut in 30 min. Open 60 min. Shut in 60 min. Weak blow increasing to good. Rec. 60' of gas cut, watery mud with spots of heavy, black oil. ISIP 1009#, IFP 66#, FFP 272#, FSIP 986#, Temp. 122.			DST #4 continued. Open 30 min. Shut in 30 min. Weak blow for 25 min. Rec. 25' of drilling mud with spots of oil. ISIP 625#, IFP 35#, FFP 52#, FSIP 402#, Temp. 123	
DST #2 3918-3965 Open 30 min. Shut in 30 min. Open 60 min. Shut in 60 min. Weak blow increasing to good. Rec. 1110' of drilling mud and 120' of salt water. ISIP 1264#, IFP 730#, FFP 760#, FSIP 1230#. Temp. 123			DST #5 4071-4108 Open 30 min. Shut in 30 min. Open 30 min. Shut in 30 min. Weak blow for 20 minutes. Recovered 20' of drilling mud. ISIP 82#, IFP 18#, FFP 52# FSIP 60#, Temp. 123	
DST #3 3965-4005 Open 30 min. Shut in 30 min. Open 60 min. Shut in 60 min. Weak blow for 10 minutes. Rec. 30' of salt water. ISIP 35#, IFP 11#, FFP 35#, FSIP 35#, Temp. 123				
DST #4 4010-4071 Open 30 min. Shut in 30 min. (Continued next column)				

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




 J. E. Rakaskas
 Exploration Manager
 Signature
 Title
 October 4, 1973
 Date