

State Geological Survey

KANSAS DRILLERS LOG WICHITA, BRANCH

S. 27 T. 28 R. 22 E
 Loc. 2170 NSL 745 EWL NW
 County Crawford

API No. 15 — 037 — 20,123
 County Number

Operator
 Morris Stephens

Address Walnut, Kansas 66780

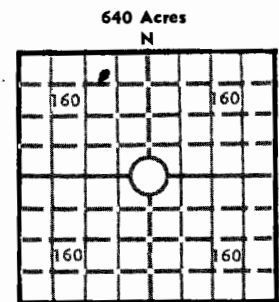
Well No. #N-18 Lease Name Engel

Footage Location
 2170' feet from (N) (S) line 94.5' feet from (E) (W) line

Principal Contractor *Fultz Drilling Co.* Geologist

Spud Date 8-8-74 Total Depth 385 P.B.T.D.

Date Completed 8-17-74 Oil Purchaser *Mid America Ref*



Elev.: Gr. 947
 DF KB

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	7"	6 5/8"	13.16	30'	Reg.	3	
	10"	7 3/8"	3.50	370	Reg.	50	

LINER RECORD

PERFORATION RECORD

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

Size	Setting depth	Packer set at
7/8	370	370

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
<i>Sand Fracture - 50 sacks</i>	<i>372.5' - 380'</i>

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)
RATE OF PRODUCTION PER 24 HOURS	Oil 2 bbls. Gas MCF 7 bbls. Water Gas-oil ratio 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 open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator

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

Well No.

Lease Name

N 18

Engel

oil

S 27 T 28 R 23 E W

WELL LOG

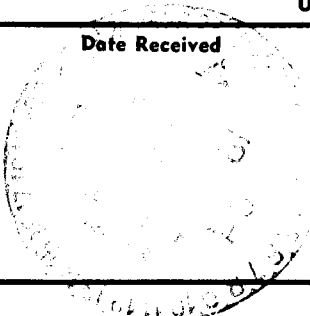
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

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

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Soil & clay	0	25		
Shale	25	49		
Lime	49	55	40 FT.	
Shale	55	62 1/2		
Lime	62 1/2	98	40 FT.	
Shale	98	135		
Sandy shale	135	173		
Lime	173	183	20 FT.	
Shale	183	188		
Lime	188	194	6 FT.	
Black shale	194	200		
Shale	200	301		
Lime	301	303	2 FT.	
Black shale	303	310		
Sandy shale	310	370		
Sandy shale	370	372.5		
Sand	372.5	380	Bartlesville	
Black sand	380	385		

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

Date Received



Morris J. Stephens

Signature

Owner

Title

8-20-74

Date

2016750