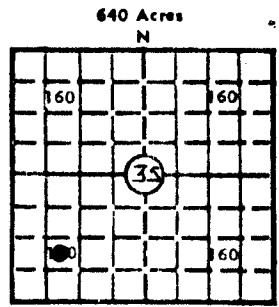


KANSAS DRILLERS LOG

API No. 15 — 051 — 21996
 County Number

State 35 T. 13S R. 20
 NE 1/4 of SW 1/4
 E11 BRANCH
 640 Acres
 N



Operator
 Sun Oil Company (Delaware)
 Address
 P. O. Box 35567 - Tulsa, Oklahoma 74135
 Well No. 3 Lease Name Dreiling 'C'
 Footage Location
 990 feet from (X) (S) line 1090 feet from (X) (W) line
 Principal Contractor Geologist
 Emphasis Oil Operations M. Brigham
 Spud Date Total Depth P.B.T.D.
 August 12, 1980 3920 3876
 Date Completed Oil Purchaser
 August 20, 1980 Kaw Pipeline Co.
 Elev.: Gr. 2216
 DF KB 2221

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#	316'	Class 'A'	200	2% salt & 2% Gel	
Production	7-7/8"	5-1/2"	14#	3920'	50/50 Pozmix	500	10% salt & 3/4% CFR-2	
NOTE: 'DV' tool set at 1501'								

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	1/2"	3828-3834

TUBING RECORD

Size	Setting depth	Packer set at
2-3/8"	3866'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 Gal. 15% MCA	3828' - 3834'

INITIAL PRODUCTION

Date of first production Sept. 27, 1980	Producing method (flowing, pumping, gas lift, etc.) Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil 34 bbls.	Gas Neg MCF	Water 3 bbls.	Gas-oil ratio CFPB
Disposition of gas (vented, used on lease or sold) Used on lease		Producing interval(s) 3828' - 3834'		

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.

35-13-20W

EMPHASIS OIL OPERATIONS

P.O. Box 506

Russell, Kansas 67665

State Court Record
Volume 100

DRILLERS LOG

OPERATOR: Sun Production Company
P. O. Box 35567
Tulsa, Oklahoma 74135

CONTRACTOR: Emphasis Oil Operations
P. O. Box 506
Russell, Kansas 67665

ASE: Dreiling "C" WELL: #3

LOCATION: 990' FWL & 990' FSL
Section 35-13S-20W
Ellis County, Kansas

total Depth: 3920'

Elevation:

Commenced: 8-12-80

Completed: 8-20-80

Casing: 8-5/8" @ 317
5-1/2" @ 3919

Status: Oil Well

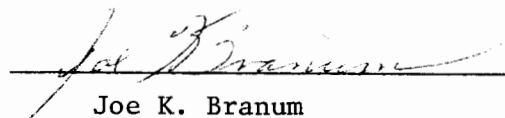
DEPTHS & FORMATIONS

(All measurements from K.B.)

Soil & clay	50	Anhydrite	1538
Shale	180	Shale	2730
Post rock	190	Shale & lime	3340
Lime & post rock	325	Lime & shale	3480
Shale & sand	1496	Lime (R.T.D.)	3920

STATE OF KANSAS)
) ss
COUNTY OF RUSSELL)

I, Joe K. Branum, of Emphasis Oil Operations, state that the above and foregoing is a true and correct log of the above captioned well.



Joe K. Branum

Subscribed and sworn to before me this 22nd day of August, 1980.

My Commission Expires: 8-22-81