

20-4-40w  
 Release  
 12/16/81  
 SEP

**KANSAS DRILLERS LOG**

API No. 15 — 023 — 20,158 TIGHT HOLE  
 County Number

S. 20 T. 4S R. 40 ~~EX~~ W

Loc. 150' NE of C NW/4

County Cheyenne

Operator  
 Murfin Drilling Company

Address  
 617 Union Center Bldg., Wichita, KS 67202

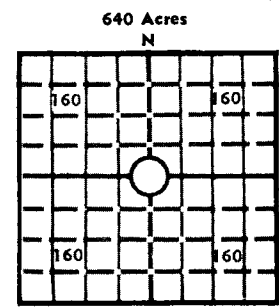
Well No. #1-20 Lease Name Kendrick-Schorzman

Footage Location 150' NE of C NW/4  
 feet from (N) (S) line feet from (E) (W) line

Principal Contractor Murfin Drilling Co. Geologist David Moore

Spud Date 10-25-80 Total Depth 1455' P.B.T.D. 1416'

Date Completed 10-28-80 Oil Purchaser none



Locate well correctly  
 Elev.: Gr. 3542'

DF KB 3547'

**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	9-7/8"	7"	24#	255'		65	
production	7-7/8"	4 1/2"	10.5#	1454.29'	VOB	100	

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4		1292-96'
					1300-04'
					1310-20'

**TUBING RECORD**

Size	Setting depth	Packer set at
1 1/2"	1299'	

**ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD**

Amount and kind of material used	Depth interval treated
Foam Frac w/15,000# 20/40 Sand, total fluid - 3000 gal.,	1292-1320'
total N <sub>2</sub> - 112,500 SCF.	

**INITIAL PRODUCTION**

Date of first production	Producing method (flowing, pumping, gas lift, etc.)				
<b>SHUT IN GAS WELL</b>					
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	---	---	---	---	---
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
-----			1292-1320'		

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 Murfin Drilling Company

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

Well No. 1-20

Lease Name Kendrick-Schorzman

GAS WELL

S 20 T 4S R 40 W <sup>XXX</sup>

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
Shale Niobrara RTD		1287' 1330' 1455'	Niobrara B/Niobrara	1287 (+2260) 1330 (+2217)
Logs: Compensated Neutron Formation Density, Dual Induction-SFL				

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

Date Received

*Wayne Johnston*  
Signature

WAYNE JOHNSTON, PRODUCTION MANAGER

Title

Feb. 16, 1981

Date