State Geological Survey
WICHITA BRANCH

KANSAS DRILLERS LOG

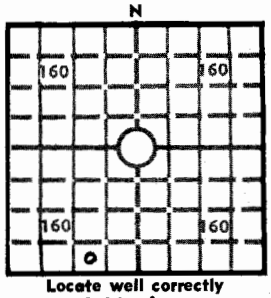
API No. 15 — 179 (County) — 20,523 (Number)

S. 17 T. 9S R. 26 XE W

Loc. SW SE SW

County Sheridan

640 Acres
N



Locate well correctly

Elev.: Gr. 2693'

DF _____ KB 2698'

Operator
The Maurice L. Brown Company

Address
Ste. 200, Sutton Place Bldg., Wichita, Ks. 67202

Well No.	Lease Name
1	Richards

Footage Location
330 feet from XX (S) line 1650 feet from X (W) line

Principal Contractor	Geologist
Abercrombie Drlg. Co.	Ralph H. White

Spud Date	Total Depth	P.B.T.D.
10-19-78	4095'	

Date Completed	Oil Purchaser
10-31-78	NONE - DRY HOLE

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	12¼"	8-5/8"	23#	251.32	Common	190	3% cc, 2% gel

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

TUBING RECORD

Size	Setting depth	Packer set at

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION - DRY HOLE

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

C-10-1972

Operator	DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
The Maurice L. Brown Company	DRY HOLE
Well No. 1 — **Lease Name** Richards	
S 17 T 9S R 26 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
DST #1: 3468-90' (60-60-60-90). 1st open, good blow, incr. to strong in 4". 2nd open, good blow, incr. to strong in 5". Rec. 1385' sw w/sli oil scum. IFP 70-470, ISIP 1069, FFP 487-669, FSIP 1060, IHP 1666, FHP 1657.			ELECTRIC LOG TOPS:	
DST #2: 3849-77' (Lansing B zone) (60-60-60-90). 1st open, had a wk blow & died in 35". 2nd open, no blow. Rec. 15' drlg md, no shows. IFP 27-27, ISIP 933, FFP 27-27, FSIP 879, IHP 1954, FHP 1936.			Howard	3530' (- 832)
DST #3: 3875-95' (D zone) (60-60-60-90). 1st open, wk blow, died in 15". 2nd open, no blow. Rec. 5' of mud, no shows. IFP 27-27, ISIP 45, FFP 27-27, FSIP 36, IHP 1972, FHP 1954. Temp 128°.			Topeka	3589' (- 891)
DST #4: 3947-76' (H zone) (60-60-60-90). 1st open, very wk blow, died in 13". 2nd open, no blow, rec. 10' of mud, no show of oil. IHP 2008, IFP 2736, ISIP 1266, FFP 36-45, FSIP 1257, IHP 1990, Temp. 128° F.			Heebner	3802' (-1104)
DST #5: 3974-4013' (I&J zones) (60-60-60-90). 1st open, wk blow--increasing thruout. 2nd open, wk blow thruout. Rec. 60' of mud w/scum of oil. IFP 2045, IFP 36-63, ISIP 161, FFP 54-63, FSIP 170, FHP 2027, Temp. 129°.			Toronto	3826' (-1128)
DST #6: 4016-39' (K zone) (60-60-60-90). 1st open, strong blow off bottom in 20". 2nd open, strong blow off bottom in 30". Rec. 755' of mud. IHP 2072, IFP 27-242, ISIP 1800, FFP 251-412, FSIP 1709, FHP 2045, Temp. 130°. (NOTE: This test invalid because of slow packer leak..			Lansing	3843' (-1145)
DST #7: 4019-43' (straddle test) (60-60-60-120). 1st open, wk blow, incr. to good thruout. 2nd open, wk blow thuout. Rec. 105' of mud w/few spks of dead oil. IFP 36-81, ISIP 1709, FFP 81-90, FSIP 1519, IHP 2136, FHP 2118.			BKC	4069' (-1371)
			Total Depth	4095' (-1397)

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

Date Received

Vern H. Haselhorst — Signature

Drilling Manager — Title

January 10, 1979 — Date

E1689

15-179-20523
17-9-26W

State Geological Survey CONTRACTOR'S WELL LOG

WICHITA BRANCH

OPERATOR:	The Maurice L. Brown Company
CONTRACTOR:	Abercrombie Drilling, Inc.
WELL NAME:	Richards #1
LOCATION:	SW SE SW, Section 17-9S-26W Sheridan County, Kansas
SPUD DATE:	October 19, 1978
COMPLETION DATE:	October 31, 1978

0	129	Clay and Sand
129	243	Sand and Shale
243	253	Shale
253	1089	Shale and Sand
1089	2090	Sand and Shale
2090	2271	Shale
2271	2306	Anhydrite
2306	2796	Shale
2796	3215	Shale and Lime
3215	3513	Lime and Shale
3513	3605	Lime
3605	3735	Lime and Shale
3735	3895	Lime
3895	3925	Lime and Shale
3925	3976	Lime
3976	4013	Lime and Shale
4013	4095	Lime
	4095	Rotary Total Depth

Spud hole at 2:00 p.m., October 19, 1978. Drilled 253' of 12¼" hole. Ran 6 joints of 8 5/8" - 23# new casing. Set at 251.32' K.B. with 190 sacks of common cement, 3% Ca.Cl., 2% gel. Cement did circulate. Plug was down at 7:18 p.m., October 19, 1978.

T.D. 4095'. Set 1st plug at 1300' with 70 sacks, 2nd plug at 240' with 20 sacks, 3rd plug at 40' solid bridge with 10 sacks, rathole with 2 sacks. Cemented with 50/50 posmix, 6% gel. Plug was down at 4:00 a.m., October 31, 1978.

SAMPLE TOPS:

Anhydrite	2271'
B/Anhydrite	2306'

STATE OF KANSAS)
) ss
COUNTY OF SEDGWICK)

Jack L. Partridge, Assistant Secretary-Treasurer of Abercrombie Drilling, Inc does hereby state that the above and foregoing is a true and correct copy of the log of the Richards #1, SW SE SW, Section 17-9S-26W, Sheridan County, Kansas.

ABERCROMBIE DRILLING, INC.