

State Geological Survey  
WICHITA BRANCH

**KANSAS DRILLERS LOG**

API No. 15 — 195 — 20,490  
County Number

S. 18 T. 11S R. 22 <sup>W</sup>  
Loc. App. SE SE NW  
County Trego

Operator  
A. Scott Ritchie

Address  
Suite 950 - 125 N. Market; Wichita, Ks. 67202

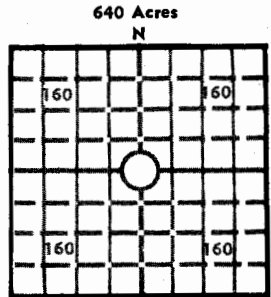
Well No. 1 Lease Name Harger "B"

Footage Location  
feet from (N) (S) line feet from (E) (W) line

Principal Contractor Geologist  
Murfin Drilling Co. Kris Kennedy & Roger Welty

Spud Date Total Depth P.B.T.D.  
11/14/78 3910'

Date Completed Oil Purchaser  
12/06/78 Clear Creek



640 Acres  
N  
Locate well correctly  
Elev.: Gr. 2190'  
DF KB 2195'

**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"	28#	173'	60/40 poz	135	3% cc
production		4 1/2"		3860'	60/40 poz	200	10% salt, 10 bbls brine preflush

**LINER RECORD**

**PERFORATION RECORD**

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4	S.B.	3533 1/2' - 3536'
			4	S.B.	3445' - 3449'

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

Amount and kind of material used	Depth interval treated
1000 gals 28% acid	3445' - 3449'

**INITIAL PRODUCTION**

Date of first production swab test 12/6/78 Producing method (flowing, pumping, gas lift, etc.) pumping

RATE OF PRODUCTION PER 24 HOURS	Oil swabbed 25 bbls.	Gas MCF	Water bbls.	Gas-oil ratio CFPB
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Disposition of gas (vented, used on lease or sold) -- Producing interval (s) 3445-3449'

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 A. Scott Ritchie		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: oil
Well No. 1	Lease Name Harger "B"	
S 18 T 11 S R 22 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 3384'-3456' Rec. 185' oil cut mud and 180' muddy oil. IFP 63-147#/30"; ISIP 1235#/30"; FFP 183-229#/30"; FSIP 1199#/30".				
DST #2 3452'-3478' Rec. 120' gas in pipe, 70' oil cut water, 540' gassy water. IFP 46-192#/30"; ISIP 833#/30"; FFP 238-339#/30"; FSIP 853#/30".				
DST #3 3482'-3506' Rec. 685' water. IFP 55-229#/30"; ISIP 879#/30"; FFP 256-385#/30"; FSIP 788#/30".				
DST #4 3505'-3522' Rec. 308' water. IFP 46-101#/30"; ISIP 897#/30"; FFP 110-183#/45"; FSIP 888#/45".				
DST #5 3520'-3539' Rec. 130' oil and water cut mud (20% oil, 20% water, 60% mud); 100' oil and mud cut water (20% oil, 35% mud, 45% water). FP 37-174#/60"; ISIP 632#/30"; FSIP 577#/30".				
DST #6 3580'-3647' Rec. 30' mud, no show of oil. IFP 55-64#/45"; ISIP 229#/45"; FFP 64-64#/30"; FSIP 119#/30".				
DST #7 3642'-3670' Rec. 20' mud, no show of oil. IFP 55-55#/75"; ISIP 92#/45"; FSIP 73#/30".				
DST #8 3788'-3820' Wk blow for 1 hour and died. In 1½ hours rec. 20' slightly oil cut mud with trace of free oil in tool (12% oil, 6% water, 82% mud). IFP 46#/45"; ISIP 1153#/45"; FFP 64#/45"; FSIP 980#/45".				
			<b>ELECTRIC LOG TOPS:</b>	
			Anh	1654' (+ 541)
			Top	3209' (-1014)
			Heeb	3421' (-1226)
			Tor	3443' (-1248)
			Lans	3458' (-1263)
			B/Kc	3687' (-1492)
			Marm	3781' (-1586)
			Cong	3869' (-1674)
			LTD	3909' (-1714)

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

Date Received	<i>F. Johnson Lipps</i> Signature
	Geologist
	December 28, 1978
	Date

# WELL LOG

COMPANY A. Scott Ritchie

SEC. 18 T. 11S R. 22W  
LOC. SE SE NW (440' Loc)

FARM HARGER "B" NO. 1

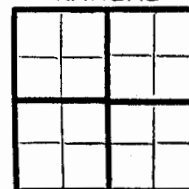
RIG. NO. 16

TOTAL DEPTH 3910'

COUNTY Trego  
KANSAS

COMM. November 14, 1978 COMP. November 24, 1978

CONTRACTOR Murfin Drilling Company



**CASING**

20 10  
15 8-5/8" @ 173' w/135 sx.  
12 6  
13 4 1/2" @ 3860' w/200 sx.

ELEVATION

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

174'	Surface, Sand & Shale
190'	Sand & Shale
725'	Shale & Clay
759'	Sand & Shale
762'	Hard Sand & Gyp
1070'	Sand & Shale
1171'	Shale & Sand
1359'	Sand
1652'	Shale
1702'	Anhydrite
2090'	Sand & Shale
3345'	Shale
3456'	Lime
3506'	Lime & Shale
3539'	Lime
3647'	Lime & Shale
3670'	Lime
3820'	Lime & Shale
3910'	Lime & Sand

RTD