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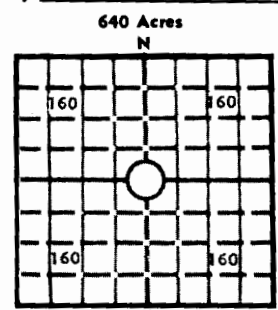
TIGHT HOLE

**WELL COMPLETION REPORT AND
DRILLER'S LOG**

API No. 15 — 163 — 21,249 *State Geological Survey*
County Number **WICHITA BRANCH**

Operator Murfin Drilling Company			
Address 617 Union Center Bldg, Wichita, Kansas 67202			
Well No. 2-21		Lease Name Largent	
Footage Location 330' ^{XX} feet from (S) line 330' ^{XXX} feet from (E) line SW ¹ / ₄			
Principal Contractor Murfin Drilling Company		Geologist David Moore	
Spud Date 2-6-81	Date Completed 2-19-81	Total Depth 3790'	P.B.T.D. ---
Directional Deviation -----		Oil and/or Gas Purchaser Clear Creek	

S. 21 T. 10S R. 19
Loc. SE SE SW
County Rooks



Elev.: Gr. 2167'
DF _____ **KB** 2172'

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#	260'	Common	160	3% CC, 2% gel
Prod. Csg.	7 7/8"	4 1/2"	10.5#	3789'	Cemented Bottom Stage:		
Cemented Top Stage: 600		sx. Howcolite +		25 sx. Class A, 175 sx.		50-50 Pozmix	
100 sx. 50-50 Pozmix w/10% salt, 2% Gel, 2% CaCl.		3/4% CFR-2,		25 gal. Latex w/10% salt, 2% gel, 2% CaCl.		3/4% CFR-2,	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			8		3730-32'
TUBING RECORD			3714-16'	3653-55'	3647-49'
Size 2 3/8"	Setting depth 3723'	Packer set at ---	3542-44'	3539-42'	3512-15'

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

3319¹/₂-22'

Amount and kind of material used

Depth interval treated

2,750 gal. MOD-202 & 1000 gal. Diesel	3319 ¹ / ₂ -3732'

INITIAL PRODUCTION

Date of first production 7-2-81		Producing method (flowing, pumping, gas lift, etc.) Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil 1.37 bbls.	Gas ----- MCF	Water 135.77 bbls.	Gas-oil ratio -----	CFPB
Disposition of gas (vented, used on lease or sold) -----			Producing interval (s) 3319 ¹ / ₂ -3732'		

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, 245 No. Water, Wichita, Kansas 67202. 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.

TIGHT HOLE

Operator Murfin Drilling Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 2-21	Lease Name Largent	oil	
S 21 T 10S R 19 W			
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
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.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
			DEPTH
Shale & Sand		1000'	Log Tops
Sand & Clay		1210'	Anhydrite
Shale & Shells		1540'	B/Anhydrite
Anhydrite		1580'	Neva
Shale & Shells		1605'	Topeka
Shale w/lime		3595'	Heebner
Lime		3615'	Toronto
Shale w/lime		3735'	LKC
Arbuckle & RTD		3790'	BKC
			Arbuckle
			RTD
			LTD
DST #1: 2566-2631'/45-60-60-120. Rec	1240' SW.	FP: 43/35	-350/547#. SIP: 389-893#.
DST #2: 3154-3185'/45-45-90-45. Rec	1030' MSW.	FP: 416	-427/580#. SIP: 1099-1045#.
DST #3: 3297-3338'/45-45-45-45. IF: wk. steady blow ½ in. FF: wk. blow. Rec. 58' MW (48% O, 22% W, 30% M); 58' OCM (6% O, 24% W, 70% M): 59' OCM (4% O, 41% W, 55% M). HY: 1831-1810. SIP: 9810948#. FP: 54/65-98/109#. BHT: 102' F.			
DST #4: 3390-3465'/45-45-45-45. 32 min. wk. blow. Rec. 60' OSPM. HY: 1875-1853. SIP: N/A - 829#. FP: 65/65-76/76#. BHT: 98'.			
DST #5: 3508-3615'/60-45-45-45. Wk. blow died in 27 min. Rec. 10' M. Hy: 1079-1058. FP: 76/87-87/87#. SIP: 164-131#. BHT: 100'.			
DST #6: (Conglomerate): 3646-3680'/30-45-30-45. 10 min. wk. blow. Rec. 10' M w/few sp. of O. HY: 1993-1971. BHP: 677-536#. FP: 32/32-32/32#. BHT: 103'.			
DST #7: 3710-3725'/45-45-45-45. IF: wk. 3/4" blow, died in 33 min. FF: wk. blow, died in 18 min. Rec. 6" hv. blk. oil. 62' M w/O spts. JY: 2058-2036. SIP: 1109-1088#. FP: 32/43-54/65#. BHT: 100'.			
DST #8: 3710-3730'/30-45-30-45. IF: 22 min. wk. blow. FF: 8 min. wk. blow. Rec. 70' M w/few spots O. FP: 43/54-65/65#. SIP: 1109-1099#. BHT: 100' F.			
Logs Run: CNL, FDC, GR, PML, NGL, DLL			
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature Wayne Johnston, Production Manager July 17, 1981 Date		

H-252

WELL LOG

State Geological Survey
WICHITA BRANCH

COMPANY Murfin Drilling Company

SEC. 21 T. 10S R. 19W
LOC. SE SE SW SEP

FARM Largent

NO. 2-21

RIG. NO. 8

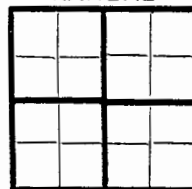
TOTAL DEPTH 3790'

COMM. 2-6-81

COMP. 2-19-81

CONTRACTOR Murfin Drilling Company

COUNTY Rooks
KANSAS



CASING

20	10
15	8-5/8"
12	6
13	5
	4 1/2"

ELEVATION 2172 KB
2167 GL

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

Shale & Sand	1000'
Sand & Clay	1210
Shale & Shells	1540
Anhydrite	1580
Shale & Shells	1605
Shale w/lime	3595
Lime	3615
Shale w/lime	3735
Arbuckle & RTD	3790