

KANSAS DRILLERS LOG

IMPORTANT
Kans. Geo. Survey request
samples on this well.

API No. 15 — 065 — 20,818
County Number

Operator

F & M Oil Co., Inc.

Address

505 Union Center Wichita, Kansas 67202

Well No.

#1

Lease Name

Dugan

Footage Location

feet from (N) (S) line

feet from (E) (W) line

Principal Contractor

Duke Drilling Co

Geologist

E.A. Falkowski

Spud Date

3-29-76

Total Depth

3905

P.B.T.D.

Date Completed

4-5-76

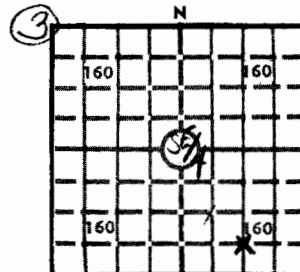
Oil Purchaser

Cities Service Company

S. 3 T. 7 R. 25W

Loc. SW SE SE

County Graham

640 Acres
N

Locate well correctly

Elev.: Gr. 2509

DF KB 2514

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 casing	12½	8-5/8	28	250	common	160	2% gel, 3% CC
production		4½	10.5	3409	60/40 poz/mix	125	

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement
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PERFORATION RECORD

Shots per ft.	Size & type	Depth interval
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TUBING RECORD

Size	Setting depth	Packer set at
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2 3/8

3794

4

4

3766 - 3770

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
		pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	210 bbls.	MCF	23 % 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.

Operator F & M OIL CO., INC,		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 1	Lease Name Dugan		
S 3 T 7S R25 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
DST #1 3710-3730- 20-20-20-20. Weak 5 min. blow; rec. 30' mud; flow Pressures 29#-29#; BHP's 29-36			Log Tops: ^{dr} Arbuckle Anhydrite 2152 (+362)
			Heebner 3659 (-1145)
			Toronto 3682 (-1168)
			Lansing 3605 (-1191)
			BKC 3894 (-1380)
			Log TD 3905 (-1391)
DST #2 3728-3760, 20-20-20-20. Weak 3" blow. Rec. 75' mud; FP's 66-66; BHP's 524-451.			
DST #3 3755-80, 30-30-30-30, Good blow rec. 250' GIP 180' HO&GCM; 540' oil. FP's 66-281, BHP's 1281-1244	0	200 Shale	Shells, Sand
	200	250	Shale and Clay
DST #4 3800-25, 20-20-20-20, weak 2" blow; Rec. 30' OCM.FP's 22-29; BHP's 51-44	250	710	Shale
	710	2010	Shale & Shells
	2010	2152	Shale & Red Red
DST #5 3825-57, 45-45-45-45. Weak blow Rec. 165' OCM. FP's 36-96; BHP's 1331-1310 q	2152	2188	Anhydrite
	2188	3240	Shale & Lime
	3240	3244	Shale
	3244	3705	Lime & Shale
DST #6 3863-75, 20-20-20-20. Weak 2" blow. Rec. 40' mud; FP's 44-51; BHP's 66-59	3705	3894	Lime
	3894	3905	Lime & Shale
		3905	RTD
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature E. A. Falkowski, President Title 4-7-77 Date		

State Geological Survey
WICHITA, BRANCH

DRILLERS' WELL LOG

15-165-2e 818
3-7-25W

DATE COMMENCED: March 27, 1976
DATE COMPLETED: April 5, 1976

F & M Oil Co., Inc.
DUGAN # 1
SW SE SE of Sec 3-T7-R25W
Graham County, Kansas

ELEVATION: 2514 K.B.

0 - 200' Shale, Shells, Sand
200 - 250' Shale and Clay
250 - 710' Shale
710 - 2010' Shale and Shells
2010 - 2152' Shale and Red Bed
2152 - 2188' Anhydrite
2188 - 3240' Shale and Lime
3240 - 3244' Shale
3244 - 3705' Lime and Shale
3705 - 3894' Lime
3894 - 3905' Lime and Shale
3905' RTD

AUG 20 1977

FORMATION DATA

Anhydrite	2152
Heebner	3659
Lansing	3705
Base K.C.	3894
RTD	3905

SURFACE PIPE:

Set used 8 5/8" pipe @ 250'
w/160 sacks common, 2% Gel, 3% cc.

PRODUCTION PIPE:

Set new 4 1/2" casing, 10.5# @
3904' w/125 sacks 60/40 Pozmix,
S.S.

A F F I D A V I T

STATE OF KANSAS }
COUNTY OF BARTON } ss.

Wayne Dobbs, of lawful age, does swear and state that the facts and
statements herein contained are true and correct to the best of his knowledge.

Wayne Dobbs

Subscribed and sworn to before me this 8th day of April, 1976.

Dorothy M. Hogue
Notary Public

My Commission Expires: April 11, 1978