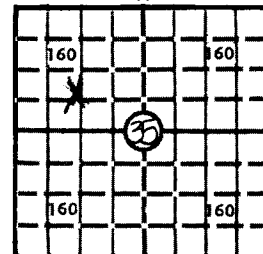


KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCHS. 35 T. 23 R. 13 E
WAPI No. 15 — 185 — 20,617
County Number

Loc. NE SW NW

County Stafford

640 Acres
N

Locate well correctly

Elev.: Gr. 1893

DF KB 1899

Operator

F & M Oil Company, Inc.

Address

505 Union Center Wichita, Kansas 67202

Well No.

#1

Lease Name

Spare

Footage Location

1650 feet from (N) S line 990 feet from (E) (W) line

Principal Contractor

Duke Drilling Co.

Geologist

E. A. Falkowski

Spud Date

10-31-75

Total Depth

3970

P.B.T.D.

3650

Date Completed

11-18-75

Oil Purchaser

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 casin		8 5/8		334	common	250	
production		4 1/2		3697	common	150	2% gel, 3% gilsonite

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
					3633-37
					3614-18

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	3591	

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.)			
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.

Well No. 1	Lease Name SPare
S <u>35</u> T <u>23S</u> R <u>13</u> EX 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 3500-17, 20-20-20-20. Weak 8" blow. Rec. 230' mud. FP's 223 and 223 BHP's 325 and 264. Temp 87. DST covered 30 zone. Pipe strap 2 foot high to bard. Will drill ahead and check 50' zone.			Log Tops: Anhydrite Winfield Neva Tarkio Topeka Howard Heebner Toronto Br. Lime Lansing Cong. Viola Arbuckle	748 (+1148) 1946 (+ 53) 2314 (- 415) 2691 (- 792) 2906 (1007) 2834 (-935) 3318 (-1419) 3341 (-1442) 3454 (-1555) 3479 (-1580) 3800 (-1901) 3815 (-1916) 3916 (-1916) - 2017
DST @2 3523-37, 20-20-20-20. Weak 41" blow. Rec. 65' mud. BHP's 787&244, FP's 41 & 41. Temp 88.				
DST#3 3612-3620, 30-30-60-45, Strong blow, gas to surface in 21". Guaged 357 MCF in 21", gauged 367 MCF in 30". On 2nd opening 101 MCF in 15", 116 MCF in 30" stabilized for rest of hour. Rec. 5' mud BHP's 1363 & 1363, FP's 61 & 41 Temp: 97. Will be looking for 150' zones				
DST#4 3625-3636 (150-160') zone, 30-30-30-60. Strong blow; gas to surface in 11", gauged 68 MCF in 15" 57 MCF in 30". on second opening gauged 44 MCF in 10", 26 MCF in 20", 31 MCF in 30". REC. 60' HOCM. FP's 41 & 41; BHP's 1046 & 1985. Had 38 unit gas kick on detector Temp. 98.				
DST#5 3642-50 (160' zone), 30-30-30-30 Weak 18" blow. Rec. 15' mud. BHP's 1126-1025; FP's 41 & 41. Temp. 101.				
DST# 6, 3652-68 (180' zone), 20-20-20-20, weak 12" blow. REC. 70' mud (w/s.o. in tool). BHP's 1079-954; FP's 52 & 115. Temp. 109				
DST#7 3673-3690 (200' zone), 20-20-20-20, Weak 4" blow. Rec. 70' mud (const)				

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

Date Received	<div>Signature</div> <div>Title</div> <div>Date</div>
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DST#7 Cont'd with few spots of oil. Shut in pressures 547 & 137.
flow pressures 84 & 73.

~~3845-3910~~
DST# ~~9 3817-3835~~ 20-20-20-20, Rec. 840' mud. BHP's 787 & 823;
FP's 612 & 583.

DST#8 3817-3885, 20-20-20-20, weak 14" blow Rec. 50' GIP, 40' SOCM.
shut in pressures 706 & 66 flow pressures 29 & 36. Temps. 112.

DST#10 3890-3900 plugged tool

DST#11, 3890-38902, 20-20-20-20, weak 10" blow. rec. 10' mud BHP's 74 &
62, FP's 37 & 37. Temp. 104.

DST#12 3896-3921, 30-30-30-30, fair blow. Rec. 435' salt& water. Shut
in pressures 1349 & 1349. Flow pressures 49 & 298. Temp. 107.

DST#13 2396-2512 (straddle, hook wall test), 30-30-30-30, strong blow
rec. 1080' water. BHP's 1255 & 521, FP's 854 & 854.

Temporarily abandoned.

Geological Survey
WICHITA, BRANCH

DRILLER'S WELL LOG

15-185-20617
35-23-13W
MAY 2 1977

DATE COMMENCED: 10-31-75
DATE COMPLETED: 11-18-75

F & M Oil Co., Inc.
SPARE #1
NE SW NW of Sec. 35-23S-13W
Stafford County, Kansas

ELEVATION: 1899 K.B.

0- 100' Sand
100- 334' Shale & Shells
334- 508' Shale
508- 748' Shale
748- 770' Anhydrite Lime
770-1100' Shale & Red Bed
1100-3921' Shale & Lime
3921' RTD

FORMATION DATA

Anhydrite	748
Topeka	2906
Heebner	3316
Toronto	3336
Brown Lime	3455
Lansing	3482
Conglomerate	3803
Viola	3820
Simpson Shale	3871
Simpson Sand	3886
Arbuckle	3916
RTD	3921

SURFACE PIPE: Set 334' of
8 5/8", 28# used pipe w/250
sacks Common, 2% Gel, 3% cc.

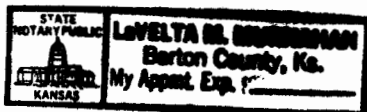
A F F I D A V I T

STATE OF KANSAS }
COUNTY OF BARTON } ss.

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

Glenn J. Bishop

Subscribed and sworn to before me this 26th day of November 1975.



Lovella M. Murnaghan
Notary Public