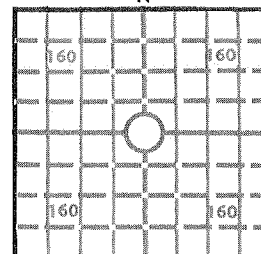


KANSAS DRILLERS LOG

State Geological Survey
WICHITA, BRANCHAPI No. 15 — 135 — 20,723
County NumberS. 17 T. 19 R. 21 ~~EX~~ WLoc. C N $\frac{1}{2}$ NW NECounty Ness640 Acres
N

Locate well correctly

Elev.: Gr. 2209DF _____ KB 2214

Operator

National Oil Co.

Address

Suite 550, 200 W. Douglas, Wichita, Kansas 67202

Well No.

#1

Lease Name

Marghiem

Footage Location

feet from (N) (S) line

feet from (E) (W) line

Principal Contractor

H-30 Drilling Co.

Geologist

Bob Jenkins

Spud Date

12-9-72

Total Depth

4353

P.B.T.D.

Date Completed

12-20-72

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
		8-5/8"		320'		200	
		5 1/2"		4345'	Light slurry	350	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

Size	Setting depth	Packer set at			

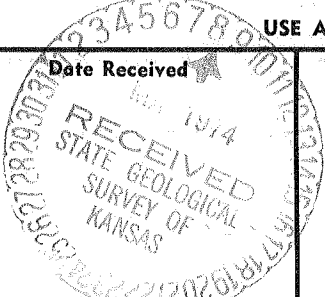
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

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 bbls.	Gas MCF	Water bbls.	Gas-oil ratio 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 National Oil Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. 1	Lease Name Margheim		
S 17 T 19 S R 21 E C N/2 NW NE			
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, 4230-50; 30-30-30-30; Rec. 30' Mud; ISIP 45-46#; FP 46-46#;			Formation Tops: Anhydrite 1433 (+871)
DST #2, 4290-4310; 30-30-30-30; Rec. 600' GIP; 1750' Gd Cl Gsy Oil; 300' HO & GCM; ISIP 1237-1237#; FP 152-715#; Temp 118°			B/Anhydrite 1467 +746 Heebner 3686 -1472 Toronto 3705 -1491
DST #3, 4343-53; 30-45-60-45; Strong blow; Rec. 1380' GIP; 720' Cl Gsy Oil; 105' MDY Oil; 75' Wtr; ISIP 1283-1260#; FP 46-328#			Lansing 3730 -1516 B/Kansas City 4034 -1820 Pawnee 4147 -1933 B/Pawnee 4210 -1996 Ft. Scott 4220 -2006 Ch Shale 4235 -2021 Ch Sand 4239 -2025 RTD 4353
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received 	Signature <u>Arden Ratzlaff</u> Kansas Exploration Manager Title August 27, 1973 Date		

KANSAS GEOLOGICAL SOCIETY
508 East Murdock
Wichita, Kansas

API # 15-135-20,723
KANSAS GEOLOGICAL SOCIETY
KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU
KANSAS GEOLOGICAL SOCIETY BUILDING
508 EAST MURDOCK - WICHITA, KANSAS

17-19-21W

MAR 2 1973
COMPANY

The National Oil Company

SEC. 17 T. 19S R. 21W
LOC. C - N/2 NW/4 NE/4

FARM Margheim

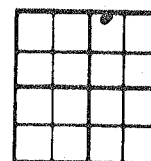
NO. 1

TOTAL DEPTH 4,353'
COMM. December 8, 1972
SHOT OR TREATED
CONTRACTOR H-30, Inc.
ISSUED

COMP. December 20, 1972

COUNTY Ness

KANSAS



20
15
12
13

10

8-5/8" 320' cemented w/200 sxs cement ELEVATION 2,214' KB

5 1/2" 4,345' cemented w/525 sxs cement PRODUCTION Pot 192

FIGURES INDICATE BOTTOM OF FORMATIONS

Post Rock and Shale
Shale
Shale and Red Bed
Sand
Shale
Shale and Shells
Anhydrite
Shale
Shale and Lime
Lime and Shale
Lime
Lime and Shale
Lime
Lime and Shale
Lime
Rotary Total Depth

LOG TOPS	DEPTH
270' SC	1433
394' HEEB	3687
1,073' TOR	3706
1,140' LANS	3732
1,433' BKC	4036
1,468' PAWN	4124
2,375' FT SC	4226
2,580' CHER	4238
3,025' 1st CHER SD	4243
3,340' 2nd CHER SD	4297
3,930' OSAGE	4343
4,320' LTD	4351
4,337' RTD	4353
4,353'	

2nd Cher Sd
4227-30
GR 39

I hereby certify the above and foregoing
to be a true and correct log of the above
described well as shown by the drilling
reports.

H-30, INC.

Dean Britting
Dean Britting

State of Kansas

County of Sedgwick

ss:

Subscribed and Sworn to before me a Notary
Public in and for said county and state
this 29th. Day of December, 1972.

Elsie Willison
Elsie Willison - Notary Public

