

KANSAS DRILLERS LOG

API No. 15 — 083 — 20,522
County Number

Operator

National Oil Company

Address

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

Well No.

3

Lease Name

Grass

Footage Location

660

feet from (S) line

660

feet from (E) line

Principal Contractor

H-30, Inc.

Geologist

Benny Singleton

Spud Date

March 8, 1977

Total Depth

4471

P.B.T.D.

4430½

Date Completed

March 17, 1977

Oil Purchaser

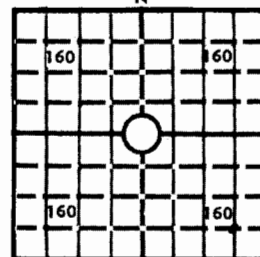
Koch Oil Co.

S. 11 T. 21S R. 25W

Loc. C SE SE

County Hodgeman

640 Acres



Locate well correctly

Elev.: Gr. 2297

DF KB 2302

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		8-5/8	20	521		295	
Production		5½		4470	60-40 Poz	125	18% salt, 10#/sx gils.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			10	DP jets	4423-28
TUBING RECORD					
Size	Setting depth	Packer set at			
2-3/8	4397				

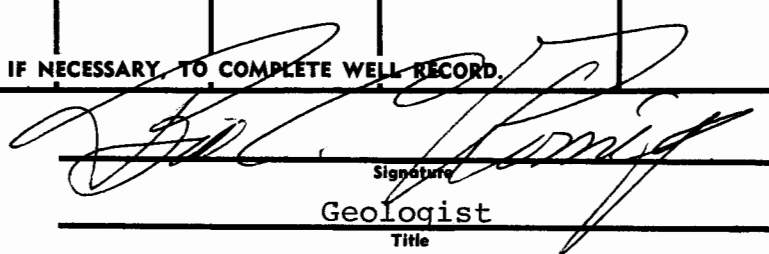
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal BDA	4423-28'

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
April 6, 1977		Pumpins			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	100 bbls.	MCF	-0- bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval (s)		
			4423-28'		

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. 3	Lease Name Grass		
S <u>11</u> T <u>21</u> S <u>R25</u> W <u>E</u> W C SE SE			
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, 4404-14'; 30-30-30-30; Wk blow thruout; Rec 65' mud, no shows; ISIP 1048; FSIP 105; FP 42-52; T 119°.			Log Tops Anhydrite 1547 +755 Heebner 3734 -1432
DST #2, 4409-21'; 30-45-60-45; Fr blow thruout; Rec 470' fluid of which 230' VSG&OCM, 180' frothy GC&SOCM, 60' mud; ISIP 929; IFP 147; FFP 189; FSIP none because tool slid & went to HP; T 119°.			Toronto 3750 -1448 Lansing 3778 -1476 B/Ks City 4160 -1858 Marmaton 4194 -1892 Pawnee 4265 -1963 Ft. Scott 4307 -2005
DST #3, 4419-29'; 30-45-60-45; Str blow thruout; Rec 180' GIP, 990' total fluid of which 270' oil (37 grav), 300' froggy GCMO, 420' mud; ISIP 912; IFP 94-253; After second opening tool slid from 8 to 10 feet preventing FSIP.			Cherokee 4329 -2027 Miss Lime 4404 -2102 Miss Dolo 4411 -2109
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 _____ Signature Geologist Title May 16, 1977 Date		

COMPANY The National Oil Company

SEC. 11 T. 21S R. 25W

FARM Grass

NO. 3

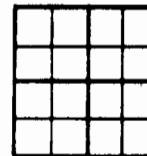
LOC. SE SE

TOTAL DEPTH 4,470'
COMM. March 7, 1977
SHOT OR TREATED
CONTRACTOR H-30, Inc.
ISSUED March 23, 1977

COMP. March 17, 1977

COUNTY Hodgeman

KANSAS



CASING

20	10	
15	8-5/8"	521' cemented w/295 sxs cement ELEVATION 2,302' K.B.
12	6	
13	5 1/2"	4,470' cemented w/125 sxs cement PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

Shale	2,520'
Lime and Shale	3,575'
Lime	4,470'
Rotary Total Depth	4,470'

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 23rd. day
of March, 1977.

ALLISC

NOTARY

Ebie Wilson