

KANSAS DRILLERS LOG

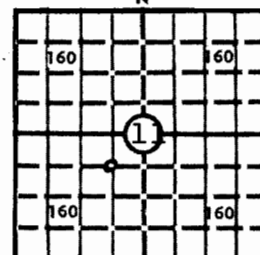
State Geological Survey
WICHITA, BRANCHAPI No. 15 — 083 — 20,468
County Number

S. 11 T. 21S R. 25W E W

Loc. 150' E of C NE SW

County Hodgeman

640 Acres



Locate well correctly

Elev.: Gr. 2301

DF 2304 KB 2306

Operator

National Oil Company

Address

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

Well No.

1

Lease Name

Grass "D"

Footage Location

1980 feet from (S) line 2130 feet from (W) line

Principal Contractor

H-30, Inc.

Geologist

Charles Slagle

Spud Date

May 17, 1976

Total Depth

4492'

P.B.T.D.

Date Completed

May 29, 1976

Oil Purchaser

Koch Oil Co.

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	28	296	Common	200	2% gel, 3% cc
Production		4-1/2	10-1/2	4488	60-40 Pos	175	18% salt, 2% gel .075% CFR2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2		4433-38'
Size	Setting depth	Packer set at			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gal 28%	4433-38'

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil 50 bbls.	Gas MCF	Water 35 bbls.	Gas-oil ratio CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval (s) 4433-38'		

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 Grass "D"																												
S11 T 21SR 25W^E 150' E of C NE SW																													
WELL LOG <small>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.</small>		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.																											
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px; text-align: center;">NAME</th> <th style="padding: 5px; text-align: center;">DEPTH</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="padding: 5px;"><u>Log Tops</u></td> </tr> <tr> <td style="padding: 5px;">Anhydrite</td> <td style="padding: 5px; text-align: right;">1555 +751</td> </tr> <tr> <td style="padding: 5px;">B/Anhydrite</td> <td style="padding: 5px; text-align: right;">1596 +710</td> </tr> <tr> <td style="padding: 5px;">Heebner</td> <td style="padding: 5px; text-align: right;">3740 -1434</td> </tr> <tr> <td style="padding: 5px;">Lansing</td> <td style="padding: 5px; text-align: right;">3790 -1486</td> </tr> <tr> <td style="padding: 5px;">Stark</td> <td style="padding: 5px; text-align: right;">4103 -1797</td> </tr> <tr> <td style="padding: 5px;">B/Ks City</td> <td style="padding: 5px; text-align: right;">4173 -1867</td> </tr> <tr> <td style="padding: 5px;">Ft. Scott</td> <td style="padding: 5px; text-align: right;">4319 -2013</td> </tr> <tr> <td style="padding: 5px;">Conglomerate</td> <td style="padding: 5px; text-align: right;">4392 -2086</td> </tr> <tr> <td style="padding: 5px;">Weathered Mi</td> <td style="padding: 5px; text-align: right;">4412 -2106</td> </tr> <tr> <td style="padding: 5px;">Miss Lm</td> <td style="padding: 5px; text-align: right;">4420 -2114</td> </tr> <tr> <td style="padding: 5px;">Miss Dolo</td> <td style="padding: 5px; text-align: right;">4432 -2124</td> </tr> </tbody> </table>	NAME	DEPTH	<u>Log Tops</u>		Anhydrite	1555 +751	B/Anhydrite	1596 +710	Heebner	3740 -1434	Lansing	3790 -1486	Stark	4103 -1797	B/Ks City	4173 -1867	Ft. Scott	4319 -2013	Conglomerate	4392 -2086	Weathered Mi	4412 -2106	Miss Lm	4420 -2114	Miss Dolo	4432 -2124
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DST #1, 4382-4441'; 30-45-30-45; Wk blow for 8", died; Flushed tool, no help; Rec 60' drlg mud w/SSO, 80' mud, no show; IFP 115-115; FFP 115-138; ISIP 819; FSIP 663; T 120°.																													
DST #2, Failed.																													
DST #3, 4358-4446'; 30-45-30-45; Wk blow died in 12"; Rec 90' mud w/SSO; IFP 92-115; FFP 115-138; ISIP 886; FSIP 775; T 124°.																													
DST #4, 4356-4453'; 30-45-90-45; Wk blow; Rec 295' SOCM, 5' free oil; IFP 115-127; FFP 127-207; ISIP 1230; FSIP 1131; T 124°.																													
DST #5, 4448-58'; 30-45-90-45; Wk blow; Rec 180' SW w/SSO; IFP 46-46; FFP 69-115; ISIP 1241; FSIP 1175; T 126°.																													
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.																													
Date Received	<div style="text-align: right; margin-bottom: 10px;"> Signature </div> <div style="text-align: right; margin-bottom: 10px;"> Exploration Manager Title </div> <div style="text-align: right;"> July 15, 1976 Date </div>																												

KANSAS GEOLOGICAL SOCIETY
KANSAS WELL LOG BUREAU - KANSAS WELL SAMPLE BUREAU
KANSAS GEOLOGICAL SOCIETY BUILDING
508 EAST MURDOCK - WICHITA, KANSAS

COMPANY **The National Oil Company**

FARM **Grass "D"**

NO. **1**

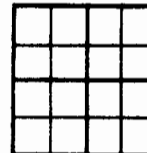
MAR 17 1976 SEC. 11 T. 21S R. 25W
LOC. **C-NE SW**

TOTAL DEPTH **4,490'**
COMM. **May 18, 1976**

COMP. **May 29, 1976**

COUNTY **Hodgeman**
KANSAS

SHOT OR TREATED
CONTRACTOR **H-30, INC.**
ISSUED **June 4, 1976**



CASING

20	10		
15	8 5/8"	296' cemented w/200 sxs cement	ELEVATION 2,305' KB
12	6		
13	5		
	4 1/2"	4,488' cemented w/175 sxs cement	PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

Shale and Lime	296'
Red bed, Sand, and Shale	939'
Anhydrite	950'
Red bed and Sand	1,110'
Shale	1,552'
Anhydrite	1,570'
Shale	2,360'
Shale and Lime	2,480'
Lime and Shale	2,880'
Shale and Lime	3,056'
Lime and Shale	3,256'
Lime	3,436'
Shale and Lime	3,632'
Lime and Shale	3,858'
Lime	4,490'
Rotary Total Depth	4,490'

MAR 17 1976

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 }

Subscribed and Sworn to before me a Notary Public
in and for said county and state this 4th day of
June, 1976.



Elsie Willison
Elsie Willison - Notary Public