

KANSAS DRILLERS LOG

15-077-20461

API No. 15 — 077 — 20,461
 County Number

S. 25 T. 33S R. 6W E W
 Loc. NE SW NW
 County Harper

Operator
 National Oil Company

Address
 200 West Douglas, Suite 550, Wichita, KS

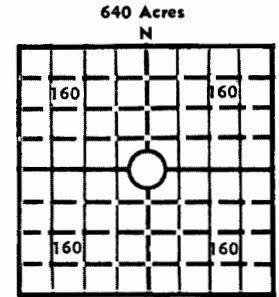
Well No. 1 Lease Name Hayter

Footage Location
 1650 feet from (N) line 990 feet from (E) (W) line

Principal Contractor Graves Drilling Geologist Bob Jinkins

Spud Date February 15, 1978 Total Depth 5031 P.B.T.D.

Date Completed March 1, 1978 Oil Purchaser



Locate well correctly
 Elev.: Gr. 1288
 DF KB 1298

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	219	common	185	2% gel, 3% cc

LINER RECORD

PERFORATION RECORD

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

TUBING RECORD

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.: Dry hole

Well No. 1 Lease Name Hayter

S 25 T 33SR 6WE W NE SW NW, Harper County, Kansas

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, 3475-3530'; 30-45-60-45; Str blow; GTS in 45"; Gauged 10.9 MCF; 55" 12.9 MCF; 65" 14.1 MCF; 75" 14.1 MCF; 85" 12.9; 10.9 on SI. Rec 2440' WCM&W; IFP 106-585; ISIP 1443; FFP 690-1108; FSIP 1422; T 140°.			Log Tops Heebner Iatan Stalnaker Sd Kansas City Stark Shale	3102 -1804 3470 -2172 3485 -2177 3756 -2458 3964 -2666
DST #2, 4819-51'; 30-45-60-45; Str blow thruout; rec 4310' TF: 420' SO&GCM & dist, 360' GCO, 660' GCO&W (50% W), 2870' wtr; IFP 365-1148; ISIP 1883; FFP 1243-1799; FSIP 1905; T 147°.			Mississippi Kinderhook Simpson Dolo Simpson Sd Arbuckle LTD	4422 -3124 4734 -3436 4827 -3529 4837 -3539 4997 -3699 5031 -3733
Straddle test, 4820-35'; 30-45-60-45; GTS in 60", gauged 1290 CFG; rec 180' O&GCM, 2130' O&GCSW; IFP 125-418; ISIP 1905; FFP 481-939; FSIP 1905.			RTD	5030 -3732

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

Date Received _____
 Signature Bill P. Koenig
 Title Geologist
 Date April 28, 1978

R O T A R Y D R I L L E R S' L O G

CONTRACTOR: National Oil Co. DRILLING COMMENCED : February 15, 1978
200 W. Douglas, Suite 550
Wichita, Kansas 67202

OPERATOR: Graves Drilling Co., Inc. DRILLING COMPLETED: March 2, 1978
910 Union Center
Wichita, Kansas 67202

CASING RECORD: 5 Jts. 219' 8 5/8" used LOCATION: Hayter No. 1
cemented with 185 sacks NE SW NW
Section 25-33S-6W
Harper County, Kansas

0 - 264 Red Bed

264 - 1438 Shale & Lime

1438 - 2856 Lime & Shale

2856 - 3179 Shale & Lime

3179 - 3530 Lime & Shale

3530 - 3769 Shale & Lime

3769 - 3885 Lime & Shale

3885 - 4108 Lime

4108 - 4462 Lime & Shale

4462 - 4546 Lime & Shale & Chert

4546 - 4799 Lime & Shale

4799 - 4851 Lime & Shale & Sand

4851 - 4952 Sand & Lime

4952 - 4964 Sand & Shale

4964 - 5030 Shale

5030 Rotary Total Depth

I hereby certify the foregoing statements to be true and correct to the best of my knowledge.