

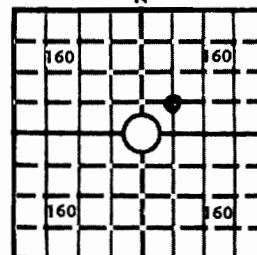
KANSAS DRILLERS LOG

IMPORTANT

Kans. Geo. Survey request
samples on this well.API No. 15 — 083 — 20,435
County NumberS. 20 T. 21 R. 25 E
W

Loc. SW NE

County Hodgeman

640 Acres
N

Locate well correctly

Elev.: Gr.

DF KB

Operator

National Development Company

Address

1313 Union National Bldg., Wichita 67202

Well No.

#1

Lease Name

Jackson

Footage Location

660

feet from (N) (S) line

660

feet from (E) (W) line

Principal Contractor

GABBERT-JONES

Geologist

WAYNE MERCHANT

Spud Date

9-26-75

Total Depth

4380

P.B.T.D.

Date Completed

10-7-75

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		8 5/8"	28#	311'	COMMON 290 Gel 12% CR.	200'	290 Gel 290 CR.
Production	7 7/8"	4 1/2"	10.5	4377	POZ MIX	125	

LINER RECORD

PERFORATION RECORD

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

TUBING RECORD

Size	Setting depth	Pecker set at		
2"	4350	—	open hole	4377-82

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1570 HCL 750 gallons	4377-82

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
		Pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil 15	Gas —	Water —	Gas-oil ratio —	
	bbls.	MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
none			4377-82		

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.

DESIGNATE TYPE OF COMP.: OIL, GAS,
DRY HOLE, SWDW, ETC.:

Well No.

#/

Lease Name

JACKSON

S 20 T 21 R 25 ~~E~~
W

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

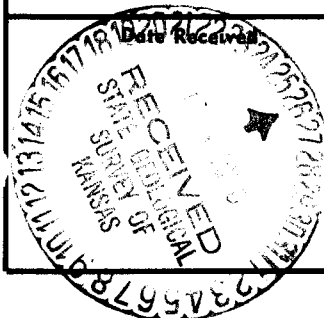
NAME _____

DEPTH

Miss.

4350

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



Wayne Merchant
Signature

Signature

Title

11-17-75

Date _____

State of Kansas Survey
WICHITA BRANCH

GABBERT-JONES, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

REGISTERED
STATE OF KANSAS

OCT 16 1975

CONCESSION DIVISION
WICHITA, KANSAS

Jackson #1
SW-NE Sec 20-21S-25W
Hodgeman County Kansas

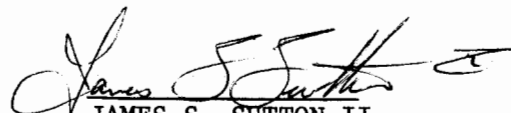
Commenced: 9-26-75

Completed: 10-7-75

OPERATOR: NATIONAL DEVELOPMENT CO.

Depth		Formation	Remarks
From	To		
0	167	Surface Clay	
167	316	Sand-Post Rock	Ran 9 jts of Used 28# 8 5/8" csg
316	855	Shale-Redbed	set @ 311' Cemented w/200 sks
855	926	Shale	Common 2% Gel - 2% CC
926	936	Blaine	PD @ 9:15 p.m. 9-26-75
936	1025	Shale	
1025	1250	Sand	
1250	1541	Shale	
1541	1575	Anhy	
1575	1895	Shale-Lime Stks	
1895	2170	Shale-Shells	
2170	2832	Lime-Shale	
2832	2995	Shale-Lime	Ran 134 jts of New 10 1/2#
2995	3952	Lime-Shale	4 1/2" csg set @ 4377' Cemented
3952	4110	Lime	w/125 sks Common 18% Salt
4110	4162	Lime-Shale	.75% CFR-2
4162	4380	Lime	PD @ 6:05 a.m. 10-7-75
	4380 TD		

I, James S. Sutton II, certify this is a correct copy of the Drillers' Log for the well drilled SW-NE Sec 20-21S-25W, Hodgeman County, Kansas, to the best of my knowledge and belief.


JAMES S. SUTTON II

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

Before me, the undersigned, a Notary Public within and for said County and State, on this 14th day of October, 1975, personally appeared James S. Sutton II to me personally known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and