

KANSAS DRILLERS LOG

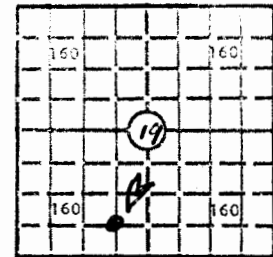
State Geological Survey
WICHITA, BRANCH

19-34-12E

S. 19 T. 34 R. 12 E

Loc. C SE SW

County Chautauqua

640 Acres
N

Elev.: Gr. UNK

DF UNK KB UNK

API No. 15 — 019 — 20346
County Number

Operator

Federal Petroleum, Inc.

Address

3000 Liberty Tower, Oklahoma City, Oklahoma

Well No.

41

Lease Name

Hartzell

Footage Location

feet from (N) (S) line

feet from (E) (W) line

Principal Contractor

B & N Drilling

Geologist

NONE

Spud Date

7/6/73

Total Depth

1050

P.B.T.D.

1046

Date Completed

7/7/73

Oil Purchaser

KOCH OIL COMPANY

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	9"	7"		20'	Reg	3	NONE
Production	6½"	4½"		1046'	Reg	120	3% GEL

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	1/2" JET	1009-1018'

Size	Setting depth	Packer set at
2-3/8"	1020'	NONE

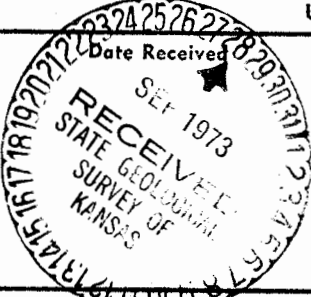

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
9000 Gals Gelled Salt Water and 7500 lbs Sand	1009-1018'

INITIAL PRODUCTION

Date of first production	Producing method (flowing, pumping, gas lift, etc.)				
7-19-73	Pumping				
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	23 bbls.	UNK MCF	2 bbls.	UNK CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
Vented			1009-1018'		

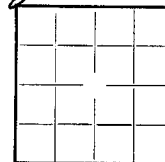
INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, 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 Federal Petroleum, Inc.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. 41	Lease Name Hartzell		Oil
S 19 T 34 R 12 E W			
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
soil	0	10	
shale	10	41	
lime	41	42	
shale	42	156	
sand	156	164	
lime	164	168	
shale - sand	168	397	
lime	397	406	
sandy shale	406	452	
lime	452	486	
sandy shale	486	510	
shale/lime	510	560	
shale	560	625	
lime	625	642	
shale/lime	642	647	
lime	647	677	
lime/shale	677	749	
shale	749	765	Ran GR-N Log
lime	765	770	
sandy shale	770	880	
shale	880	992	Log Showed
lime	992	994	
shale	994	998	
lime	998	1008	Peru Sand
sandy shale	1008	1009	
CORE	1009	1024	
shale	1024	1050	
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
	<div style="text-align: right; margin-bottom: 5px;">  Signature </div> <div style="text-align: right; margin-bottom: 5px;"> Vice President Title </div> <div style="text-align: right;"> August 16, 1973 Date </div>		

KANSAS WELL COMPLETION REPORT

API No. 15 - 019 - 20346

Year well reported _____

Sec. 19 T. 34 R. 12 E.Spot C SE SWCounty ChautauqueCompany Federal Petro. Inc.Farm & Well No. 41 HartzellContractor B & N DRILLING Co.Please show
location of
well in
section:Date drilling comm. 7/6/73Date drilling comp. 7/7/73Elev: Kelly Bushing UNKDerrick floor UNKGround UNKField name PERV - SEDANHole was completed as: Dry _____; Oil well ☒ ;Water-flood producer ☒ ; Gas well _____;

Salt-water disposal _____; Other (name) _____.

Electric or other logs
were run: Yes ☒ No _____Well was cored: Yes ☒ No _____

Drill stem test run: Yes _____

No ☒

INITIAL POTENTIAL OR PRODUCTION:

Bbls oil/day 23, Bbls water/day 2,Thou cu ft gas/day UNK.Oil gravity 34 °API

FORMATION TOPS

List below:

PERV Sd 1009'Name of pay zone PERV Sd.Pay depth (bottom) 1019Net pay thickness 10'Name of rock formation at total depth LABETTE SHALETotal depth 1050Company purchasing oil or gas: KOCH

CASING

List: 7" @ 20'4 1/2" @ 1046'

If OWWO*, give new footage drilled _____

* Old well drilled deeper

10/15/1970

This well completion form is mailed to southeastern Kansas operators, because commercial reporting companies do not scout the area. Completed forms, driller's logs, electric logs, and other information submitted to us will be placed on open file for your use. Please complete form and mail in enclosed envelope to Margaret Oros, Head, Oil and Gas Division, State Geological Survey, Lindley Hall, Lawrence, Kansas 66044. Phone: 913-864-3852.

Minimum completion information will be used for reporting all wells completed in Kansas to American Association of Petroleum Geologists' Committee on Statistics of Drilling. These statistics are published by the Oil and Gas Journal, American Association of Petroleum Geologists, U. S. Bureau of Mines, and others.

RECEIVED
STATE GEOLOGICAL
SURVEY OF
KANSAS