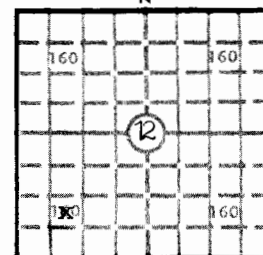


KANSAS DRILLERS LOG

API No. 15 — 137 — 20,125
County NumberS. 12 T. 5 R. 22 E
W

Loc. NE SW SW

County Norton

640 Acres
N

Elev.: Gr. 2095'

DF 2098' KB 2100'

Operator

R. P. Nixon Operations

Address

207 West 12th Hays, Kansas 67601

Well No.

#4

Lease Name

Archer-Nelson

Footage Location

990 feet from (M) (S) line 990 feet from (E) (W) line

Principal Contractor

Abercrombie Drlg.

Geologist

R. P. Nixon

Spud Date

3-21-78

Total Depth

3527'

P.B.T.D.

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Date Completed

3-26-78

Oil Purchaser

Clear Creek

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 $\frac{1}{4}$ "	8-5/8"	28#	288'	common	200	quick set
production	8-7/8"	4 $\frac{1}{2}$ "	9 $\frac{1}{2}$ #	3519'	common	100	10% salt

LINER RECORD

PERFORATION RECORD

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

Size	Setting depth	Packer set at
2-3/8" OD	3517'	

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.)			
5-26-78	pumping			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	25 bbls.	MCF	25 bbls.	CFPB
Disposition of gas (vented, used on lease or sold)			Producing interval(s)	
			3519-27'	

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 R.P. Nixon Operations		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. #4	Lease Name Archer-Nelson		
S <u>12</u> T <u>5</u> R <u>22</u> ^R _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
Medium crystalline off-white lime with slight fossiliferous porosity and rare stain.	3300'	3304'	Lansing/ Kansas City
Black, friable, carbonaceous shale with brown streak.			Heebner Shale
Medium and fine crystalline lime with fair to good fossil porosity and light stain.	3330'	3334'	Lansing/ Kansas City
Rounded to subrounded frosted sand grains with fair intergranular porosity with fair to good stain. Wet samples had a show of free oil.	3518'	3527'	Reagan Sand
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	<i>R.P. Nixon</i> Signature <i>Geologist</i> Title 5-4-78 Date		

WICHITA BRANCH

OPERATOR:

CONTRACTOR:

WELL NAME:

LOCATION:

R. P. Nixon Operations

Abercrombie Drilling, Inc.

Archer-Nelson #4

NE SW SW Section 12-5S-22W

Norton County, Kansas

SPUD DATE:

March 21, 1978

COMPLETION DATE:

March 26, 1978

0	289	Clay, sand & shale
289	1235	Shale & sand
1235	1925	Shale
1925	2100	Sand & shale
2100	2670	Shale
2670	3246	Lime & shale
3246	3458	Lime
3458	3520	Lime & shale
	3520	Rotary Total Depth

Spud hole at 7:00 p.m., March 21, 1978. Drilled 289' of 12 $\frac{1}{4}$ " hole. Ran 7 joints of 8-5/8" surface casing, set at 288' K.B. with 200 sacks of common cement, 3% CaCl, 2% gel. Plug was down at 2:45 a.m., March 22, 1978. Cement did circulate.

T.D. 3520'. Ran 88 joints of 4 $\frac{1}{2}$ " - 9 $\frac{1}{2}$ " casing. Set at 3519' K.B. with 15 bbl. salt flus and 100 sacks of common cement, 10% salt. Job was complete at 1:00 p.m., March 26, 1978.

STATE OF KANSAS)

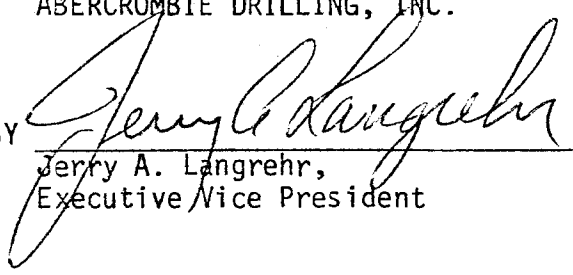
COUNTY OF SEDGWICK)

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Jerry A. Langrehr, Executive Vice President of Abercrombie Drilling, Inc., does hereby state that the above and foregoing is a true and correct copy of the log of the Archer-Nelson #4, NE SW SW Section 12-5S-22W, Norton County, Kansas.

ABERCROMBIE DRILLING, INC.

BY


Jerry A. Langrehr,
Executive Vice President

Subscribed and sworn to before me, a Notary Public, in and for the aforesaid county of Kansas, on this 31st day of March, 1978.