

15-065-21094

State Geological Survey

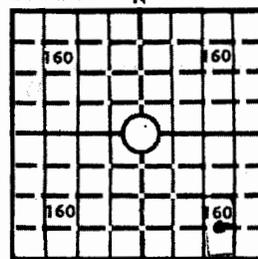
WICHITA BRANCH
KANSAS DRILLERS LOG

S. 33 T. 9 R. 23 ^K/_W

Loc. SW SE SE

County Graham

640 Acres
N



Elev.: Gr. 2,448

DF 2,451 KB 2,453

API No. 15 — 065 — 21,094
County Number

Operator <u>Arrowhead Petroleum, Inc.</u>	
Address <u>Box 8287 Munger Station Wichita, Kansas 67208</u>	
Well No. <u>#2</u>	Lease Name <u>Rice Estate</u>
Footage Location <u>660</u> feet from <u>US</u> (S) line <u>990</u> feet from (E) <u>US</u> line	
Principal Contractor <u>BIG SPRINGS</u>	Geologist <u>STEPHEN POWELL</u>
Spud Date <u>1-26-79</u>	Total Depth <u>4,190</u> P.B.T.D.
Date Completed <u>2-5-79</u>	Oil Purchaser <u>Koch</u>

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
<u>SURFACE</u>	<u>12 1/4</u>	<u>8 5/8</u>		<u>200</u>	<u>175</u>		
<u>Production</u>	<u>7 7/8</u>	<u>4 1/2</u>		<u>4025</u>	<u>100</u>		

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			<u>3</u>	<u>DP</u>	<u>3,922-3924</u>
			<u>3</u>	<u>DP</u>	<u>3,820-3824</u>

TUBING RECORD

Size	Setting depth	Packer set at
<u>2 3/8</u>	<u>3,900</u>	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
<u>250 gal 15% mud acid + 250 gal ^{2%} DF Acid</u>	<u>3,922-3924</u>
<u>250 gal 15% mud acid + 500 gal 28% DF acid</u>	<u>3,820-3824</u>

INITIAL PRODUCTION

Date of first production <u>3-17-79</u>	Producing method (flowing, pumping, gas lift, etc.) <u>Pumping</u>		
RATE OF PRODUCTION PER 24 HOURS	Oil <u>11080</u> bbls.	Gas <u>NA</u> MCF	Water <u>3 BWP</u> bbls.
Disposition of gas (vented, used on lease or sold)		Gas-oil ratio <u>NA</u> CFPB	
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: **Arrowhead Petroleum, Inc.**

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

Well No. # **2**

Lease Name **RICE ESTATE**

O.I.

S 23 T 2 R 23 E

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
Anhydrite	2,026			
BASE ANHYDRITE	2,064			
TOP EKA	3,503			
HEEBNER	3,718			
TORONTO	3,740			
LANSING	3,753			
B. K.C.	3,971			
MARMATON LS	4,005			
MARMATON SP	NONE			
TD	4,190			
DST #1 3,775-95				
30-45-60-45				
ISIP 721	REC. 5' mud with spots			
FSIP 206	60' OCM			
IFP 66-103	60' HO OCM			
FFP 170-184	120' MCO			
	120' MEW - SOC			
DST #2 3,813-27				
30-45-60-45				
ISIP 273	REC. 30' 83CM			
FSIP 258	60' HO 83CM			
IFP 73-175	240' MCO			
FFP 162-207	180' CLO			
DST #3 3,902-3,938				
30-45-60-45				
ISIP 772	REC. 10' sl. 216 cut mud			
FSIP 502	60' OCM			
IFP 36-66	60' HO OCM			
FFP 73-96				
DST #4 3,936-56				
30-30-30-30				
ISIP 44	REC. 40' mud with spots			
FSIP 44	61'			
IFP 36-36				
FFP 36-36				

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

Date Received

[Signature]
 Signature
[Title]
 Title
 7/16/79
 Date

Duplicate

15-065-
21094

BIG SPRINGS DRILLING, INC.

SUITE 29 • 400 NORTH WOODLAWN • (316) 681-1732

P.O. BOX 8287
MUNGER STATION
WICHITA, KANSAS 67208

33-9-23W

February 8, 1979

DRILLERS LOG

Re: Rice Estate No. 2
660 FSL and 990 FEL
SE/4 of Sec. 33, Twp 9s-Rq 23W
Graham County, Kansas

OPERATOR: Arrowhead Petroleum, Inc.
CONTRACTOR: Big Springs Drilling, Inc.
COMMENCED: 1-27-79
COMPLETED: 2-5-79

Surface Pipe: 210' of 8 5/8" w/150 sx Common 2% gel, 3% ccl

0	210'	Clay, Sand and Shells
210	1767'	Shale, Clay and Redbeds
1767	2026	Shale
2026	2062	Anhydrite
2062	3437	Shale
3437	3976	Shale and Lime
3976	4190	Lime
4190		RTD

RECEIVED
STATE CORPORATION COMMISSION

FEB - 9 1979

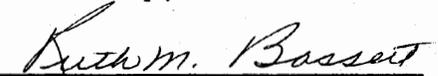
CONSERVATION DIVISION
Wichita, Kansas

We certify that the above and foregoing is a true and correct copy of the log on the # 2 Rice Estate located in Graham County, Kansas.

BIG SPRINGS DRILLING, INC.


Paul A. Seymour, Jr.

Subscribed and sworn to before me this 8th day of February, 1979.


Ruth M. Bassett Notary Public

My Commission Expires:

May 30, 1979