

15-065-21149

State Geological Survey
WELL COMPLETION REPORT AND
DRILLER'S LOG

KANSAS

API No. 15 — 065 — 21,149
County Number

S. 33 T. 9 R. 23 E. W
Loc. NE SW SE
County Graham

Operator

Arrowhead Petroleum, Inc.

Address

Box 8287 Munger Station Wichita, Kansas 67208

Well No.

#3

Lease Name

Rice Estate

Footage Location

970'

feet from (N) (S) line

1,650'

feet from (E) (W) line

Principal Contractor

BIG SPRINGS DRILLING

Geologist

STEPHEN B. BOWELL

Spud Date

7-15-79

Date Completed

7-21-79

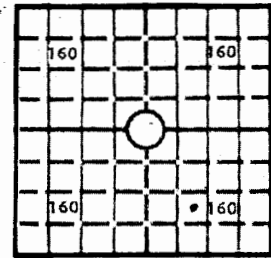
Total Depth

4,000

P.B.T.D.

Directional Deviation

Oil and/or Gas Purchaser

640 Acres
N

Locate well correctly

Elev.: Gr. 2,463

DF 2,465 KB 2,467

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 3/8		211		160	
Production	7 7/8	4 1/2		3,999		125	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			2	Jets	3920-3921
Size	Setting depth	Packer set at			
2 3/8	3,935				

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal 15% mud acid	3920-3923
1,000 gal 28% Acid	3920-3923

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
		PUMPING			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	6.5 bbls.	NONE MCF	TRACE bbls.	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, 245 No. Water, Wichita, Kansas 67202. 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		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. #3	Lease Name Rice Estate	0.1	
S 33T 9R 23E			
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
Anhydrite	2,034		
B. Anhydrite	2,080		
Topeka	3,514		
Heebner	3,729		
Toronto	3,752		
Lansing	3,767		
Muncie Creek	3,884		
Base Kan. City	3,984		
TD	4,000		
DST #1 3824-3842 30-45-30-45 ISIP 103 REC. 30' mud with FSIP 66 spots o.i. IFP 29-29 FFP 29-36			
DST #2 3907-3925 30-45-60-45 ISIP 1107 REC. 1800' GIP FSIP 1027 10' very heavily o.g. IFP 36-66 cut mud FFP 88-140 125' muddy gassy oil 240' clean gassy oil			
DST #3 3935-3945 30-45-60-45 ISIP 1131 REC. 120' GIP FSIP 96 45' heavily o.g. IFP 14-14 cut mud FFP 22-22			
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature W. Shellen Title 8/16/79 Date		

207.000

State Geological Survey

MAY 8 0 REC'D

WICHITA BRANCH

BIG SPRINGS DRILLING, INC.

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

33-9-23W

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

July 25, 1979

DRILLERS LOG

Re: Rice Estate No. 3
NE SW SE
Sec. 33-Twp 9s-Rq 23W
Graham County, Kansas

OPERATOR: Arrowhead Petroleum, Inc.
CONTRACTOR: Big Springs Drilling, Inc.
COMMENCED: 7-14-79
COMPLETED: 7-21-79

Surface Pipe: 211' of 8 5/8" w/160 sx Common 2% gel 3% ccl

0	211	Clay and Sand
211	2038	Shale
2038	2078	Anhydrite
2078	2530	Shale and Shells
2530	3160	Shale
3160	3762	Shale and Lime
3762	4000	Lime
4000		RTD

We certify that the above and foregoing is a true and correct copy of the log on the # 3 Rice Estate located in Graham County, Kansas.

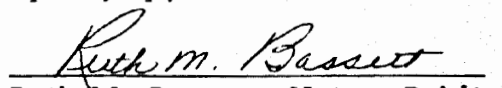
BIG SPRINGS DRILLING, INC.


Paul A. Seymour, Jr.

Subscribed and sworn to before me this 25th day of July, 1979.

My Commission Expires:

May 30, 1983


Ruth M. Bassett Notary Public

RECEIVED
STATE COMMISSIONER OF GEOL
JUL 2 1979

CONSULTING GEOLOGIST
WICHITA, KANSAS