

15-065-21095

State Geological Survey

WICHITA BRANCH

KANSAS DRILLERS LOG

 API No. 15 — 065 — 21,0945
 County Number

Operator

Arrowhead Petroleum, Inc.

Address

Box 8287, Munger Station Wichita, Kansas 67208

Well No.

#1

Lease Name

Ninemire

Footage Location

330

feet from (N) line

330

feet from (E) line

Principal Contractor

BIG SPRINGS

Geologist

Stephen Powell

Spud Date

1-18-79

Total Depth

4190

P.B.T.D.

3985'

Date Completed

1-26-79

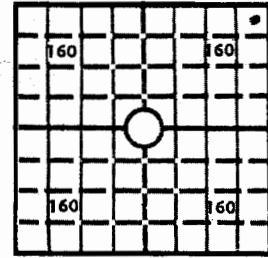
Oil Purchaser

Koch

S. 4 T. 10 R. 23 E W

Loc. NE NE NE

County Graham

640 Acres
N

Locate well correctly

Elev.: Gr. 2450

DF 2453 KB 2455

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 5/8		208		175	
Production	7 7/8	4 1/2		4035		100	

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			3	DP	3932-3936

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	3963.25	

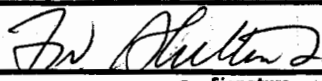
ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal 15% mud acid + 1,250 gal 28% NEA	3932-3936

INITIAL PRODUCTION

Date of first production 3-13-79		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil 20 bbls.	Gas NA MCF	Water NA bbls.	Gas-oil ratio NA 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, 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 NARROWHEAD PETRO. INC.		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:	
Well No. #1	Lease Name NINE MIRE	0.1	
S 4 T 10 R 23 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
Anhydrite	2,026		
BASE Anhydrite	2,064		
TOPEKA	3,502		
NEEBNER	3,729		
TORONTO	3,749		
LANSING	3,764		
R. K.C.	3,984		
MARMATON LS.	4,008		
MARMATON SD.	4,173		
TD	4,190		
DST #1 3824-3839 30-45-30-45 ISIP 283 REC. 70' mud FSIP 251 w/ show FREE IFP 55-62 oil on top + FFP 70-70 in top of tool			
DST #2 3910-3950 30-45-60-45 ISIP 1,174 FSIP 1,096 IFP 62-78 FFP 94-141 REC. 420' GIP 60' GCM 180' HO + GCM 5580.1			
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature Vice - Pres. Title 7/16/79 Date		

0109L

State Geological Survey
WICHITA BRANCH
BIG SPRINGS DRILLING, INC.

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

January 30, 1979

DRILLERS LOG

Re: Ninemire No. 1
NE NE NE
Sec. 4 - Twp 10s - Rq 23W
Graham County, Kansas

OPERATOR: Arrowhead Petroleum, Inc.
CONTRACTOR: Big Springs Drilling, Inc.
COMMENCED: 1-18-79
COMPLETED: 1-26-79

Surface Pipe: 205' of 8 5/8" w/160 sx Common 2% gel, 3% ccl

0	205	Sand and Shale
205	1250	Clay and Shale
1250	2026	Clay, Sand and Shale
2026	2064	Anhydrite
2064	3135	Shale and Lime Streaks
3135	3515	Lime
3515	3920	Lime and Shale
3920	4190	Lime
4190		RTD

We certify that the above and foregoing is a true and correct copy of the log on the #1 Ninemire located in Graham County, Kansas.

BIG SPRINGS DRILLING, INC.


Paul A. Seymour, Jr.

Subscribed and sworn to before me this 30th day of January, 1979.

My Commission Expires:


Ruth M. Bassett Notary Public

May 30, 1979

duplicate

15-065-21Q16
4-10-23W

P.O. BOX 8287
MUNGER STATION
WICHITA, KANSAS 67208
RECEIVED
STATE CORPORATION COMMISSION

JAN 31 1979

CONSERVATION DIVISION
Wichita, Kansas

[Faint, illegible stamp]