

BIG SPRINGS DRILLING, INC.

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

May 31, 1978

DRILLERS LOG

Re: Arrowhead Petroleum, Inc.
Bitter No. One
C N/2 S/2 NE/4
Sec. 11-twp 16S rg 14W
Barton County, Kansas

OPERATOR: Arrowhead Petroleum, Inc.
CONTRACTOR: Big Springs Drilling, Inc.
COMMENCED: 5-20-78
COMPLETED: 5-29-78

Surface Pipe: 266' W/175 sx 2% gel 3% ccl

0	266	Sand, shale, Redbed
266	894	Shale and Redbed
894	929	Anhydrite
929	2248	Shale and Lime
2248	2775	Shale and Lime
2775	3145	Lime and Shale
3145	3404	Lime
3404		RTD

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

BIG SPRINGS DRILLING, INC.

Paul A. Seymour, Jr.

Subscribed and sworn to before me this 31st day of May, 1978.

Ruth M. Bassett Notary Public

My Commission expires:

May 30, 1979