

13-11-33W  
State Geological Survey

WICHITA BRANCH

JAN 22 1982

P.O. BOX 8287

MUNGER STATION

WICHITA, KANSAS 67208

# BIG SPRINGS DRILLING, INC.

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

November 20, 1980

## DRILLERS LOG

Re: Swart No. 1  
NE NE SW  
Sec 13 Twp 11S Rg 33W  
Logan County, Kansas

OPERATOR: Patton Oil Company  
CONTRACTOR: Big Springs Drilling, Inc.  
COMMENCED: November 3, 1980  
COMPLETED: November 15, 1980

Surface Pipe: 258 ft. of 8 5/8" w/200 SX Common 2% gel 3% cc1

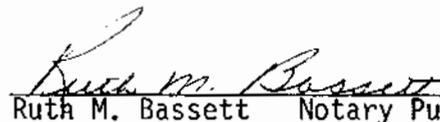
0	2606'	Sand and Shale
2606'	2665'	Anhydrite
2665'	3273'	Shale
3273'	4120'	Shale and Lime
4120'	4240'	Lime
4240'	4345'	Lime and Shale
4345'	4685'	Lime
4685'		RTD

We certify that the above and foregoing is a true and correct copy of the log on the Swart No. 1 located in Logan County, Kansas.

Big Springs Drilling, Inc.

  
Paul A. Seymour, Jr.

Subscribed and sworn to before me this 20th day of November, 1980.

  
Ruth M. Bassett Notary Public

My Commission Expires:  
May 30, 1983

