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## HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

### GEOLOGICAL REPORT

#### HELEN #1

800' FNL, 1900' FEL of

SECTION 13 - 19S - 20W

RUSH COUNTY, KANSAS

15-165-21790-00-00

Commenced:	2-7-06	Elevations:	2137' GR, 2142' KB
Completed:	2-13-06	Surface Pipe:	8-5/8" @ 206' KB
Contractor:	Mallard J.V.	Production Pipe:	none

One foot drilling time was kept from 1300' to 1400' KB and from 3500' to RTD. Ten foot drilling samples (wet & dry) were kept from 4000' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

<u>ANHYDRITE</u>	<u>1359</u>	<u>( +783)</u>
<u>BASE ANHYDRITE</u>	<u>1388</u>	<u>( +754)</u>

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<u>HEEBNER</u>	<u>3642</u>	<u>(-1500)</u>
<u>LANSING</u>	<u>3689</u>	<u>(-1547)</u>
<u>BASE KANSAS CITY</u>	<u>3982</u>	<u>(-1840)</u>

4108-12' KB Grey, finely crystalline, limestone. Slight show of free oil in poor intercrystalline porosity, no odor, slight stain, and a weak cut.

CHEROKEE SHALE 4124 (-1982)

4130-32' KB Brown, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, weak stain, and a slight cut.

4146-52' KB Clear, fine to medium grained, well rounded, fairly sorted, sandstone clusters & loose grains. Good show of free oil in fair intergrannular porosity, no odor, fair stain and a good cut.

DRILL STEM TEST #1 4120 to 4152' KB 32' Anchor

Blow:  $\frac{1}{4}$ " died in 15 min. 2nd opening - flushed tool no help.

Times: Open 30, Closed 30, Open 5, Closed 0

Recovered: 10' Mud

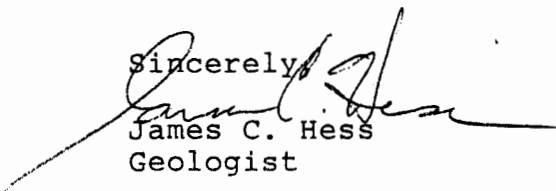
Pressures: IH 2013# IF 19 - 21# ISIP 55#  
FH 2018# FF --- FSIP ---

4154-57' KB Clear, fine to medium grained, well rounded, fairly sorted, sandstone clusters & loose grains. Slight show of free oil in poor intergrannular porosity, no odor, slight stain, and a slight cut.

ROTARY TOTAL DEPTH 4174 (-2032)

It was decided to plug the Helen #1 without logs as the only good show was tested.

Sincerely,

  
James C. Hess  
Geologist