

15-195-22301

21-14s-22w

# HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

## GEOLOGICAL REPORT

### FIDELIA #1

540' FSL, 1500' FEL of

SECTION 21 - 14S - 22W

TREGO COUNTY, KANSAS

Commenced: 8-12-05                      Elevations: 2240' GR, 2245' KB  
Completed: 8-17-05                      Surface Pipe: 8-5/8" @ 203' KB  
Contractor: Mallard J.V.                Production Pipe: 5 1/2"

One foot drilling time was kept from 1600' to 1700' KB and from 3500' to RTD. Ten foot drilling samples were kept from 3850' 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.

ANHYDRITE                                      1645      ( +600)

BASE ANHYDRITE                              1686      ( +559)

RECEIVED  
OCT 17 2005  
KCC WICHITA

# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

Fidelia #1  
Page 2

<u>HEEBNER</u>	<u>3608</u>	<u>(-1363)</u>
<u>TORONTO</u>	<u>3631</u>	<u>(-1386)</u>
<u>LANSING</u>	<u>3648</u>	<u>(-1403)</u>
<u>BASE KANSAS CITY</u>	<u>3892</u>	<u>(-1647)</u>
<u>PAWNEE</u>	<u>3996</u>	<u>(-1751)</u>

4002-10' KB

Few pieces of white to tan, very finely crystalline, limestone. Also, some white, tripolitic chert w/"on-edge" porosity. Weak show of free oil in fair intercrystalline porosity, no odor, slight stain, and a very weak cut.

FORT SCOTT

4064 (-1819)

4089-92' KB

Very few sandstone clusters with a weak show of free oil. Some loose sand grains.

4100-05' KB

Few white, small grained, sandstone clusters. Weak show of free oil, no odor, slight stain, and a weak cut. Lots of loose sand grains!

DRILL STEM TEST #1

4080' to 4105' KB

25' Anchor

Blow: Bottom of bucket in 40 sec. -- Bottom of bucket durring shut in 1½ min. !!!

Times: Open 15, Closed 15, Open 0, Closed 0.

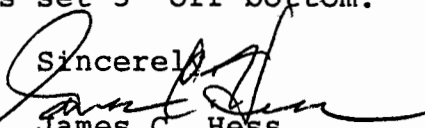
Recovered: 1320' Gas 1935' Gassy Oil !

Pressures: IH 1999# IF 496 - 775# ISIP 1157#  
FH 1945# FF --- FSIP ---

ROTARY TOTAL DEPTH

4105 (-1860)

It was decided to run casing for production without logging. A cased hole log should be run to consider Pawnee & Sand (4089-92') production in the future. 5½" was set 5' off bottom.

Sincerely,  
  
James C. Hess  
Geologist

RECEIVED  
OCT 17 2005  
KCC WICHITA