

15-113-21292

20-215-01w

## HESS OIL COMPANY

225 N. Market, Suite 300

Wichita, Kansas 67202

(316) 263-2243

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GEOLOGICAL REPORT

AUG 02 2004

KCC WICHITA

A. HETZKE #3

200' FSL, 1007' FWL of

SECTION 20 - 21S - 1W

McPHERSON COUNTY, KANSAS

*SE SW SW*

Commenced: 4-28-04

Elevations: 1485' GR 1490' KB

Completed: 5-6-04

Surface Pipe: 8-5/8" @ 232' KB

Contractor: C & G Drilling Co.

Production Pipe: 5 1/2" New

One foot drilling time was kept from 2600' to RTD. Ten foot drilling samples (wet only) were kept from 2850' to 3000' KB and from 3250' 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.

BASE KANSAS CITY

2716 (-1266)

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## MISSISSIPPI

2913      (-1423)

2913-27' KB

White and various colored, sharp, cherts.  
No show, No odor.

2935-3000' KB

Changed to White to cream, finely crystalline,  
dense, dolomite. No show, No odor.

## KINDERHOOK

3214      (-1724)

## HUNTON

3274      (-1784)

3274-81' KB

White, sharp, chert. Slight show of free oil in  
poor "on-edge" porosity. Fair odor, fair stain,  
and a weak cut.

3281-89' KB

Brown, finely crystalline, dense, dolomite.  
Great show of free oil in fair intercrystalline  
porosity, good stain, good odor, and a strong  
cut.

3290-98' KB

Tan to brown, very fine to finely crystalline,  
dense, dolomite. Weak show of free oil in fair  
intercrystalline porosity, slight odor, fair  
stain, and a weak cut.

3300-06' KB

Tan to dark grey (mottled), fine to medium crystalline,  
dolomite. Weak show of free oil in fair  
intercrystalline porosity, weak odor, slight  
stain, and a weak cut.

## MAQUOKETA

3320      (-1830)

## VIOLA

3378      (-1888)

## SIMPSON SAND

3410      (-1920)

3410-20' KB

Clear, medium grain, well sorted, fairly rounded,  
sandstone clusters. Great show of free oil in  
good intergranular porosity, strong odor, good  
stain, and a very strong cut.

3421-30' KB

Clear, medium grain, fairly sorted, fairly rounded,  
sandstone clusters. Fair show of free oil in  
good intergranular porosity, good odor, good  
stain, and a fair cut.

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SIMPSON SAND (cont. )

3431-40' KB

Clear, medium to large grain, well sorted, fairly rounded, sandstone clusters. Weak show of free oil in good intergranular porosity, light odor, heavy tar stain, and a weak cut.  
(70% "barron" porosity!!)

ROTARY TOTAL DEPTH

3475 (-1985)

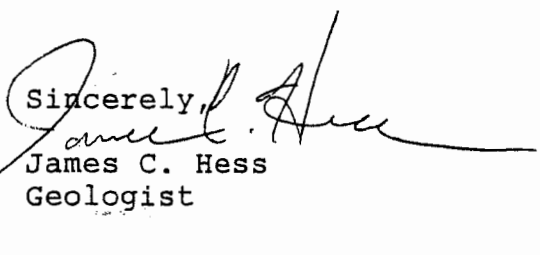
It was decided to run casing without logging or testing. This is the 14th well drilled on this quarter section! A cased hole log will be run later to open the Simpson Sand, Hunton, and Mississippi.

Casing Report: 82 jts of 5½" 15.5# Casing was run and set 7' off bottom at 3468' KB. Plug retainer is at 3451' KB on a 17' shoe jt.

Centralizers were run as follows: #1 3451' KB, #2 3408' KB, #3 3323' KB, #4 3281' KB, #5 3026' KB, #6 2983' KB, & #7 2941' KB.

Note: #2, #4, & #7 were "flow masters"

Casing was cemented with 500 gals chemical mud flush and 200 sx EA-II cement.

Sincerely,  
  
James C. Hess  
Geologist