

15-135-24340

05-16S-21W

ORIGINAL

# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

## GEOLOGICAL REPORT

### PAULA #1

2350' FSL, 1210' FWL of

SECTION 5 - 16S - 21W

NESS COUNTY, KANSAS

Commenced: 2-2-05

Surface Pipe: 8-5/8" @ 209' KB

Completed: 2-9-05

Elevations: 2395' GR, 2400' KB

Contractor: Mallard J.V.

Production Pipe: 5-1/2"

One foot drilling time was kept from 1680' to 1780' and from 3600' to RTD. Ten foot drilling samples were kept (wet & dry) from 4150' 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 1715 ( +685)

BASE ANHYDRITE 1757 ( +643)

RECEIVED  
JUN - 8 2005  
KCC WICHITA

# HESS OIL COMPANY

225 N. Market, Suite 300  
Wichita, Kansas 67202

(316) 263-2243

ORIGINAL

RECEIVED  
JUN - 8 2005  
KCC WICHITA

Paula #1  
Page 2

<u>HEEBNER</u>	<u>3786</u>	<u>(-1386)</u>
<u>TORONTO</u>	<u>3811</u>	<u>(-1411)</u>
<u>LANSING</u>	<u>3830</u>	<u>(-1430)</u>
<u>BASE KANSAS CITY</u>	<u>4091</u>	<u>(-1691)</u>
<u>PAWNEE</u>	<u>4180</u>	<u>(-1780)</u>
<u>FORT SCOTT</u>	<u>4240</u>	<u>(-1840)</u>

4278-83' KB Clear, fine to medium grained, sandstone clusters and loose grains. No odor, fair stain, and a good cut -- Fair show of free oil.

DRILL STEM TEST #1 4220' to 4283' KB 63' Anchor

MISRUN !

DRILL STEM TEST #2 4260' to 4283' KB 23' Anchor

MISRUN !

4283-88' KB Clear, fine grained, sandstone clusters and loose grains. Fair show of free oil in good intergranular porosity, no odor, fair stain, and a good cut.

4312-18' KB No show of free oil, but some heavy tar stain in clear - light grey, fine to medium grained sandstone clusters. Good porosity !

DRILL STEM TEST #3 "Straddle" 4270 to 4290' KB attempted

Bottom packer failed --- so tested 4270' to 4360' KB

Blow: Bottom of bucket in 1 min.

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

Recovered: 834' O & SW cut Mud (11% Oil, 9% SW, 80% Mud)

Pressures: IH 2120 IF 365 - 461 # ISIP 634#  
FH 2055# FF none FSIP none

**HESS OIL COMPANY**

225 N. Market, Suite 300  
Wichita, Kansas 67202

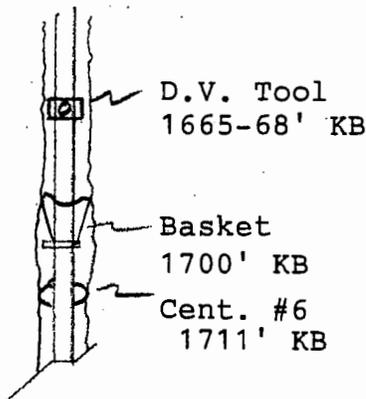
(316) 263-2243

RECEIVED  
JUN - 8 2005  
KCC WICHITA

Paula #1  
Page 3

<u>MISSISSIPPI</u>	<u>4357</u>	<u>(-1957)</u>
<u>ROTARY TOTAL DEPTH</u>	<u>4360</u>	<u>(-1960)</u>

A full set of logs (Dual Induction, Neutron Porosity, & Sonic) were run to look at the sands and evaluate to seismic. 5½" casing was set for production.

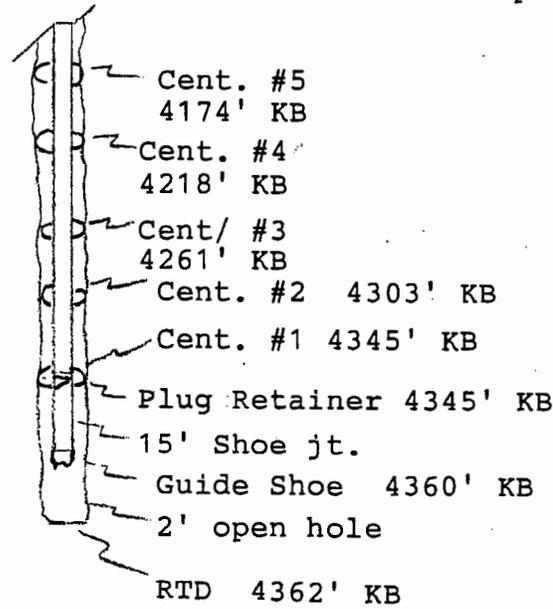


2-9-05 Ran 103 jts of 5½" 14# Casing. Set 2' off bottom w/15' Shoe jt. and cemented with 500 gals chem. flush and 150 sx EA-II cement. Plug Down 5:20 PM

Open D.V. Tool @ 1665-68' KB and cir. mud for 4 hrs.

Cemented D.V. Tool w/200sx SMDC -- cement DID circulate to surface. Plug Down 9:55 AM

Called KCC district #1 on 2-9-05 at 1:15pm before starting in hole w/casing.



Sincerely,  
*James C. Hess*  
James C. Hess  
Geologist