

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

SHIRLEY B #1

2460'-FNL, 2450' FEL of

SECTION 23 - 15S - 23W

TREGO COUNTY, KANSAS

15-195-22 330-00-00

Commenced: 2-21-06

Elevations: 2320' GR, 2325' KB

Completed: 2-27-06

Surface Pipe: 8-5/8" @ 212' KB

Contractor: Mallard J.V.

Production Pipe: 5½"

One foot drilling time was kept from 1680' to 1780' KB and from 3600' to RTD. Ten foot samples (wet & dry) were kept from 4100' 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>1711</u>	<u>(+614)</u>
<u>BASE ANHYDRITE</u>	<u>1749</u>	<u>(+576)</u>
<u>HEEBNER</u>	<u>3686</u>	<u>(-1361)</u>
<u>LANSING</u>	<u>3721</u>	<u>(-1396)</u>
<u>STARK SHALE</u>	<u>3937</u>	<u>(-1612)</u>

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23-15-23W

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<u>BASE KANSAS CITY</u>	<u>3985</u>	<u>(-1660)</u>
<u>PAWNEE</u>	<u>4089</u>	<u>(-1764)</u>
<u>FORT SCOTT</u>	<u>4184</u>	<u>(-1859)</u>
<u>CHEROKEE SHALE</u>	<u>4208</u>	<u>(-1883)</u>
<u>MISSISSIPPI</u>	<u>4279</u>	<u>(-1954)</u>

4279-90' KB

White to clear, sharp & weathered, cherts.
Fair show of free oil in fair "on edge" porosity,
weak odor, good stain, and a good cut.

<u>ROTARY TOTAL DEPTH</u>	<u>4290</u>	<u>(-1965)</u>
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<u>DRILL STEM TEST #1</u>	<u>4205' to 4290" KB</u>	85' Anchor
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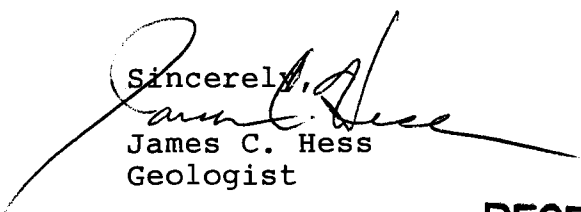
Blow: bottom of bucket in 13 Min. 2nd opening --
bottom of bucket in 15 min.

Times: Open 30, Closed 45, Open 30, Closed 45.

Recovered: 651' Mud Cut Oil 31 gravity ?

Pressures:	IH 2065#	IF 26 - 189#	ISIP 1281#
	FH 1999#	FF 193 - 266#	FSIP 1278#

It was decided to run 5½" 14# casing and set 11' off bottom for Miss. production. Since the pay zone would not show up on a log -- no log was run. The Miss. was the only oil show in the well. DV Tool was set @ 1700-02' KB and cemented to surface. Casing was set @ 4279' KB and cemented w/150 sx EA-II cement.

Sincerely,

James C. Hess
Geologist

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