

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

KCC

JUL 22 1994

MARGIE #1

API#15-135-23802

100' E of SW NE NW

SECTION 17 - 17S - 22W

NESS COUNTY, KANSAS

Commenced: 12-16-93

Elevations: 2297' GR
2302' KB

Completed: 12-29-93

Contractor: Mallard J.V.

Surface Pipe: ~~200'~~₃₁₀ of 8-5/8"

Production: Cherokee Sand

Production Pipe: 5½" x 4339'

One foot drilling time was kept from 1560' to 1660' KB and from 3500' to Total Depth. Ten foot samples (wet & dry) were kept from 4000' to Total Depth.

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

<u>ANHYDRITE</u>	<u>1594</u>	<u>(+ 708)</u>
<u>BASE ANHYDRITE</u>	<u>1629</u>	<u>(+ 673)</u>
<u>HEEBNER</u>	<u>3698</u>	<u>(-1396)</u>
<u>LANSING</u>	<u>3739</u>	<u>(-1437)</u>

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STATE CORPORATION COMMISSION

MAR 28 1994

CONSERVATION DIVISION
Wichita, Kansas

HESS OIL COMPANY

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Wichita, Kansas 67202

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Margie #1

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BASE KANSAS CITY

4019 (-1717)

PAWNEE

4122 (-1820)

FORT SCOTT

4213 (-1911)

4220-24' KB

White, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, weak cut, and light staining.

CHEROKEE SHALE

4232 (-1930)

4232-42' KB

Tan to clear, small graining well rounded, fairly sorted, sandstone cluster with loose grains. (1 cluster in tray with some loose grains Fair show of free oil in good intergranular porosity, no odor, fair cut, and good staining. (Some heavy tar stain indicating water)

Drill Stem Test #1

4228' to 4250' KB 22' Anchor

Blow: Off bottom of bucket in 45 sec.

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

Recovered: 1008' Gas

624' Clean Gassy Oil (10% Gas, 90% Oil)

206' GW&MC Oil (5% Gas, 65% Oil, 15% SW, 20% Mud)

240' Sl Oil Cut SW (2% Oil, 98% SW)

= 9.67 bbls Oil (38 Gravity) & 1.58 bbls SW in 15mi

Pressures:

IH 2069#

IF 267-409#

ISIP ---

FH 2039#

FF ---

FSIP ---

MISSISSIPPI

4331 (-2029)

ROTARY TOTAL DEPTH

4340 (-2038)

Due to the great recovery on DST #1 it was decided to run a set of Dual Induction and Compensated Density logs and run 5½" casing for production of the Cherokee "A" Sand.

Sincerely,
James C. Hess
James C. Hess
Geologist

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Wichita, Kansas

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412 East Douglas, Suite One

Wichita, Kansas 67202

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White #1

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DRILL STEM TEST #4

3810' to 3900' KB

90' of Anchor

Blow: Strong to bottom of bucket in 10min. Gas to surface on second opening.

Times: Open 60, Closed 45, Open 60, Closed 45.

Recovered: 2108' Gassy Oil!!! (gravity 33)

Pressures: IH 1949# IF 163-515# ISIP 1343#
FH 1920# FF 605-798# FSIP 1333#

BASE KANSAS CITY

3897 (-1447)

CONGLOMERATE

4007 (-1557)

ARBUCKLE

4200 (-1750)

RTD

4210 (-1760)

A Sonic log was run in 2" form from TD to the Anhydrite in order to make a Synthetic Seismic Log for further seismic evaluation. A Radiation Guard Log was run to help with well completion. 5½" casing was set to the Arbuckle with a D.V. Tool in the Anhydrite.

Sincerely,

James C. Hess
Geologist

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