

ORIGINAL

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

RUBY #1

650' FNL, 1275' FEL of

SECTION 7 - 16S - 22W

NESS COUNTY, KANSAS

Commenced:	3-20-02	Elevations:	2435' GR, 2440' KB
Completed:	3-28-02	Surface Pipe:	8-5/8" @ 210' KB
Contractor:	Mallard J.V.	Production Pipe:	5½"

One foot drilling time was kept from 1760' to 1840' KB and from 3600' to rotary total depth. Ten foot drilling samples (wet & dry) were kept from 3800' 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>1780</u>	<u>(+660)</u>
<u>BASE ANHYDRITE</u>	<u>1821</u>	<u>(+619)</u>
<u>HEEBNER</u>	<u>3797</u>	<u>(-1357)</u>

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<u>TORONTO</u>	<u>3818</u>	<u>(-1378)</u>
<u>LANSING</u>	<u>3837</u>	<u>(-1397)</u>
<u>STARK SHALE</u>	<u>4054</u>	<u>(-1614)</u>
<u>BASE KANSAS CITY</u>	<u>4106</u>	<u>(-1666)</u>
<u>MARMATON</u>	<u>4138</u>	<u>(-1698)</u>
<u>PAWNEE</u>	<u>4210</u>	<u>(-1770)</u>
<u>FORT SCOTT</u>	<u>4292</u>	<u>(-1852)</u>
<u>CHEROKEE SHALE</u>	<u>4318</u>	<u>(-1878)</u>

4383 - 4400' KB

Clear, medium grained, well rounded, well sorted, sandstone clusters (few/tray). Fair show of free oil in good intergranular porosity, light weak stain, good odor, and a good cut. Lots of unconsolidated sand grains. (med. sized, well rounded, well sorted)

DRILL STEM TEST #1

4315' to 4400' KB

85' Anchor

Blow: bottom of bucket in 7 min., 2nd opening --
bottom of bucket in 12 min.

Times: Open 30, Closed 45, Open 45, Closed 60.

Recovered: 1210' fluid 2% gas 42% Oil, 36% SW 20% Mud

Pressures: IH 2032# IF 47 - 300# ISIP 1283#
FH 2014# FF 303 - 533# FSIP 1282#

MISSISSIPPI

4419

(-1979)

ROTARY TOTAL DEPTH

4470

(-2030)

It was decided to set 5½" casing. 5½" 14# casing was set 8' off bottom w/14' shoe jt. Guide Shoe @ 4462'KB and Float Collar @ 4448' KB. Cemented w/150 sx EA - II. D.V. Tool @ 1737-40' KB and cemented to surface w/200sx of SMDC Cement. A set of Dual Induction, Compensated Porosity, and Sonic logs were run and confirmed the geologist's good work.

Sincerely,

James C. Hess