

Computer Inventoried

HESS OIL COMPANY

412 East Douglas, Suite One
Wichita, Kansas 67202

(316) 263-2243

AUG 24 1993

GEOLOGICAL REPORT

KING #1

C/SE NW of

SECTION 18 - 21S - 24W

HODGEMAN COUNTY, KANSAS

Commenced:	4-10-93	Elevations:	2333' GR, 2338' KB
Completed:	4-18-93	Surface Pipe:	200' of 8-5/8"
Contractor:	Mallard J.V.	Production Pipe:	5½" set at 4450' KB.
Production:	Mississippi Dolomite		

One foot dilling time was kept from 1560 to 1620' KB and from 3600' to total depth. Ten foot samples (wet & dry) were kept from 4000' KB to total depth.

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

<u>ANHYDRITE</u>	<u>1565</u>	<u>(+773)</u>
<u>BASE ANHYDRITE</u>	<u>1605</u>	<u>(+733)</u>
<u>HEEBNER</u>	<u>3773</u>	<u>(-1435)</u>

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LANSING 3820 (-1482)

BASE KANSAS CITY 4173 (-1835)

MARMATON 4200 (-1862)

FORT SCOTT 4337 (-1999)

CHEROKEE SHALE 4367 (-2029)

4402-06' KB

Brown, very finely crystalline, dense, limestone. Very slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a weak cut. (one piece in tray)

Mississippi

4422 (-2084)

4422-30' KB

White to black, very finely crystalline, very dense, dolomite. Weak show of free oil in very poor intercrystalline porosity, slight odor, lots of heavy stain, and a fair cut.

4430-40' KB

White, very finely crystalline, very dense, dolomite. Weak show of free oil in very poor intercrystalline porosity, no odor, lots of oil stain, and a weak cut.

4440-50' KB

White to tan, very fine to finely crystalline, dense, dolomite. Fair show of free oil in very poor intercrystalline porosity, no odor, lots of oil stain, and a weak cut.

4450-63' KB

White to tan, very finely crystalline, dense, dolomite. Weak to fair show of free oil in very poor to poor intercrystalline porosity, fair odor, some oil stain, and a good cut.

4463-68' KB

Brown, very fine to finely crystalline, dense, dolomite. Great show of free oil in fair "vuggy" intercrystalline porosity, good odor, great staining, and a great cut.

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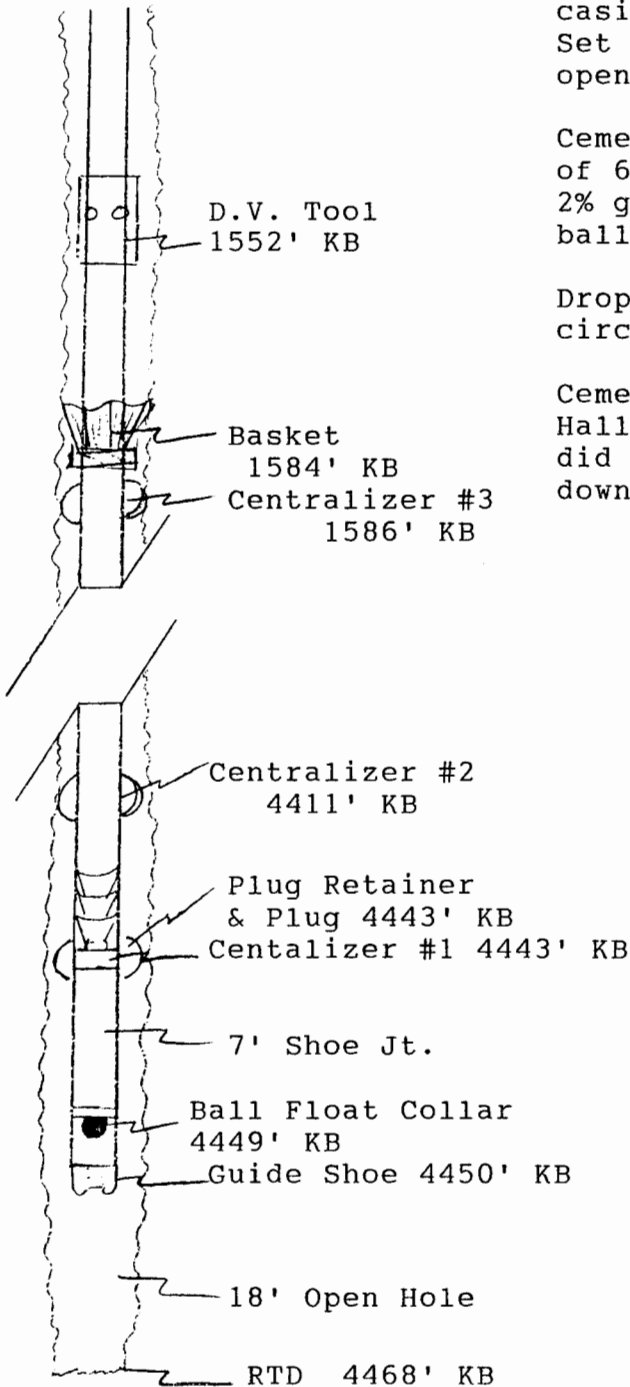
Casing Report:

4-17-93 Ran 138 jts of 5½" 14.50# casing with a 7' shoe jt on bottom. Set casing 18' off bottom for a open hole completion.

Cemented bottom of well with 100 sx of 60/40 poz mix with 10% salt and 2% gel. Plug down at 6:30pm and ball retainer working.

Dropped tool and opened D.V. Tool and circulated 4 hrs.

Cemented top stage with 275 sx of Halliburton "lite" cement. Cement did circulate to surface and plug was down at 11:45pm.



Sincerely,

James C. Hess
James C. Hess
Geologist