

HESS OIL COMPANY

412 East Douglas, Suite One
Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

MIXER #2

500' FNL, 1440' FWL of

SECTION 13 - 11S - 20W

ELLIS COUNTY, KANSAS

Commenced: 11-6-92

Elevations: 2000' GR, 2005' KB

Completed: 11-15-92

Surface Pipe: 40' Conductor
200' of 8-5/8"

Contractor: Murfin Drilling Co.

Production Pipe: 5½" set at
3497' KB.

Production: Lansing Formation

One foot drilling time was kept from 1360 to 1460' KB and from 2900' to total depth. Ten foot (wet & dry) samples were kept from 3100' to total depth.

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

ANHYDRITE

1398 (+607)

BASE ANHYDRITE

1443 (+562)

TOPEKA

3037 (-1032)

3202-08' KB

White, very finely crystalline, dense, limestone. Fair show of free oil in poor inter-crystalline porosity, no odor, fair stain and a strong cut.

RECEIVED
STATE OF KANSAS
AUG 18 1993
RECEIVED
AUG 18 1993
CONSERVATION DIVISION
Wichita, Kansas
CONSERVATION DIVISION

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Pressures: IH 1624# IF 496-887# ISIP 1270#
 FH 1595# FF 954-1059# FSIP 1212#

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70' of Anchor
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30 seconds Down
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3374-77' KB

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

3379-83' KB

White, very finely crystalline, dense, limestone. Good show of free oil in poor to fair intercrystalline porosity, no odor, and a strong stain, with a strong cut.

DRILL STEM TEST #4

3376 to 3400' KB

24' Anchor

Blow: Fair blow of 6" throughout opennings.

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

Recovered: 305' SW w/scum of free oil.

Pressures: IH 1635# IF 52-84# ISIP 954#
FH 1625# FF 105-137# FSIP 881#

MUNCIE CREEK

3418 (-1413)

3448-52' KB

White, very finely crystalline, dense, slightly oolitic limestone. Slight show of free oil in fair intercrystalline porosity, weak stain, no odor, and a very weak cut. (2 pieces in tray)

DRILL STEM TEST #5

3410 to 3470' KB

60' of Anchor

Blow: Weak blow of 3" throughout both opennings.

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

Recovered: 50' Mud w/oil spots.

Pressures: IH 1739# IF 66-66# ISIP 830#
FH 1729# FF 76-76# FSIP 830#

3469-73' KB

Tan, very finely crystalline, dense, limestone. Slight show of free oil in very poor intercrystalline porosity, no odor, slight stain, and a slight cut.

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<u>BASE KANSAS CITY</u>	<u>3518</u>	<u>(-1513)</u>
<u>MARMATON</u>	<u>3548</u>	<u>(-1543)</u>
<u>ARBUCKLE</u>	<u>3625</u>	<u>(-1620)</u>
<u>RTD</u>	<u>3680</u>	<u>(-1675)</u>

A Dual Induction and a Dual Compensated Porosity Log were run to check for any missed Lansing zones and to confirm that we had 2 zones open during DST #3. The logs indicated that a staddle test covering the "B" zone of the Lansing might prove useful.

DRILL STEM TEST #6 3302 to 3342' KB 40' of Anchor

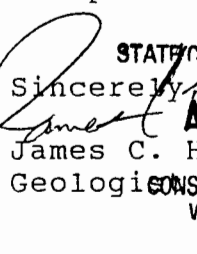
Blow: Off bottom of bucket in 1½ min. strong
through both openings.

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

Recovered: 1586' Oil & Mud Cut Water (31% Oil)
chls. 56,000ppm

Pressures: IH 1681# IF 152-419# ISIP 667#
 FH 1624# FF 496-543# FSIP 667#

It was decided to run 5½" casing to produce the "B" zone of the Lansing Formation. Casing was ran on 11-15-92 to a depth of 3497' KB and cemented with 200 sx of EA-2 expanding cement.

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STATE CORPORATION COMMISSION
Sincerely,

James C. Hess
Geological CONSERVATION DIVISION
Wichita, Kansas
AUG 18 1993

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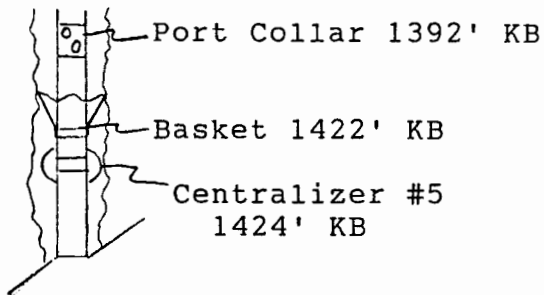
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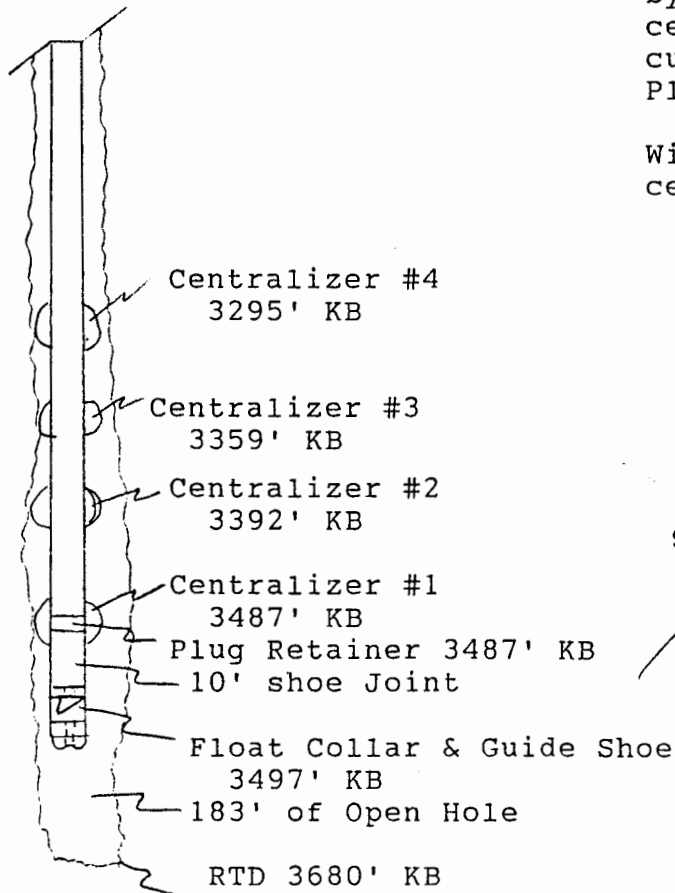
Casing Report:



11-15-92: Ran 109 jts of 15.50# 5½" casing and set at 3497' KB with 10' shoe joint.

Cemented with 500 gals. of chemical mud flush followed by 200 sx of EA-2 expanding cement. Maintained good circulation throughout job. Plug down at 1:05pm.

Will open port collar and cement later as needed.



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