

15-195-22598

32-15S-22W

KGS

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

RECEIVED
KANSAS CORPORATION COMMISSION
APR 14 2009
CONSERVATION DIVISION
WICHITA, KS

GEOLOGICAL REPORT

LINDA #4

405' FSL, 790' FEL of

SECTION 32 - 15S - 22W

TREGO COUNTY, KANSAS

Commenced: 2-4-09

Elevations: 2336' GR, 2341' KB

Completed: 2-11-09

Surface Pipe: 8-5/8" @ 225' KB

Contractor: Mallard J.V.

Production Pipe: none

One foot drilling time was kept from 1660 to 1760' KB and from 3600' to Rotary Total Depth. Ten foot drilling samples (wet & dry) were kept from 4100' to RTD.

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

ANHYDRITE 1685 (+656)

BASE ANHYDRITE 1723 (+618)

HEEBNER 3696 (-1355)

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<u>TORONTO</u>	<u>3715</u>	<u>(-1374)</u>
<u>LANSING</u>	<u>3734</u>	<u>(-1393)</u>
<u>STARK SHALE</u>	<u>3951</u>	<u>(-1610)</u>
<u>BASE KANSAS CITY</u>	<u>4000</u>	<u>(-1659)</u>
<u>MARMATON</u>	<u>4032</u>	<u>(-1691)</u>
<u>PAWNEE</u>	<u>4098</u>	<u>(-1757)</u>
<u>FORT SCOTT</u>	<u>4184</u>	<u>(-1843)</u>
<u>CHEROKEE SHALE</u>	<u>4207</u>	<u>(-1866)</u>

4238-44' KB

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

CHEROKEE SAND

4284 (-1943)

4284-90' KB

Clear to tan, Medium grained, sandstone clusters & loose grains. (some white sharp & weathered cherts) Fair show of free oil in fair porosity, no odor, good stain, and a strong cut.

DRILL STEM TEST #1

4206 to 4290' KB

84' Anchor

Blow: $\frac{1}{4}$ " - died in 14 min.

Times: Open 30, Closed 30, Open 0, Closed 0.

Recovered: 10' Oil Cut Mud (5% oil, 95% mud)

Pressures: IH 2119# IF 23 - 28# ISIP 829#
FH 2046# FF --- FSIP ---

4290-94' KB

Clear to Tan, medium grained, well rounded, well sorted, sandstone clusters & loose grains. (some white sharp & weathered cherts). Fair show of free oil in fair intergranular porosity, no odor, good stain, and a good cut.

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CONGLOMERATE 4300 (-1959)

4300-04' KB White, weathered & sharp, cherts. Some loose ss grains. Fair show of free oil in fair "on edge" porosity, weak odor, good stain, and a good cut.

DRILL STEM TEST #2 4206 to 4304' KB 98' Anchor

Blow: Slow build to 2". 2nd -- very slow build to 1".

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

Recovered: 5' Oil 62' Oil Cut Mud (5% oil, 95% mud)

Pressures: IH 2128# IF 27 - 37# ISIP 783#
FH 2088# FF 42 - 47# FSIP 847#

4305-14' KB White, weathered & sharp, cherts. (some loose ss grains) Weak show of free oil in fair "on edge" porosity, no odor, fair stain, and a fair cut. (some heavy tar stain)

DRILL STEM TEST #3 4302-4314' KB 12' Anchor

Blow: very slow build to 1½". 2nd -- ½" max.

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

Recovered: 63' Mud Cut SW (80% SW, 20% mud)

Pressures: IH 2188# IF 20 - 31# ISIP 1168#
FH 2112# FF 34 - 45# FSIP 1102#

4315-20' KB White, weathered & sharp, cherts. (few ss clusters & loose grains) Slight show of free oil in fair porosity, no odor, slight stain, and a slight cut.

MISSISSIPPI 4349 (-2008)

ROTARY TOTAL DEPTH 4360 (-2019)

A Radiation Guard Log was run to conform all samples tops were within 2'. Nothing new was learned from the log and all oil shows were tested. It was decided to plug the #4 Linda on 2-11-09.

Sincerely,
James C. Hess
Geologist