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## GEOLOGICAL REPORT

### PAMELA #1

660' FNL, 1650' FWL

E/2 NW 30 - 17S - 22W

NESS COUNTY, KANSAS

Commenced: 05-23-2011

Elevations: 2325' KB

Completed: 05-31-2011

Surface Pipe: 8-5/8" @ 221' KB

Contractor: Mallard J.V.

Production Pipe: none

One foot drilling time was kept from 1580' to 1680' KB and from 3500' to Rotary Total Depth. Wet and dry drilling samples were examined every ten foot from 3500' to RTD.

The following are sample tops that were examined microscopically from 3500' to Rotary Total Depth, descriptions of potentially productive zones, and results from all drill stem tests.

<u>ANHYDRITE</u>	<u>1601</u>	<u>(+724)</u>
<u>BASE ANHYDRITE</u>	<u>1640</u>	<u>(+685)</u>
<u>HEEBNER</u>	<u>3722</u>	<u>(-1397)</u>
<u>LANSING</u>	<u>3760</u>	<u>(-1435)</u>
<u>BASE KANSAS CITY</u>	<u>4048</u>	<u>(-1723)</u>

<u>PAWNEE</u>	<u>4148</u>	<u>(-1823)</u>
<u>CHEROKEE SHALE</u>	<u>4252</u>	<u>(-1927)</u>
<u>CHEROKEE 'A' SAND</u>	<u>4254</u>	<u>(-1929)</u>

Sandstone, very fine grained, sub-angular, clear grained. Small grains, broke dark brown lazy free oil, poor fluorescence

DRILL STEM TEST #1, CHEROKEE 'A' SAND      4247-4276' KB      29' Anchor

*Blow: Weak Blow to " 2nd: Surface to " Blow*

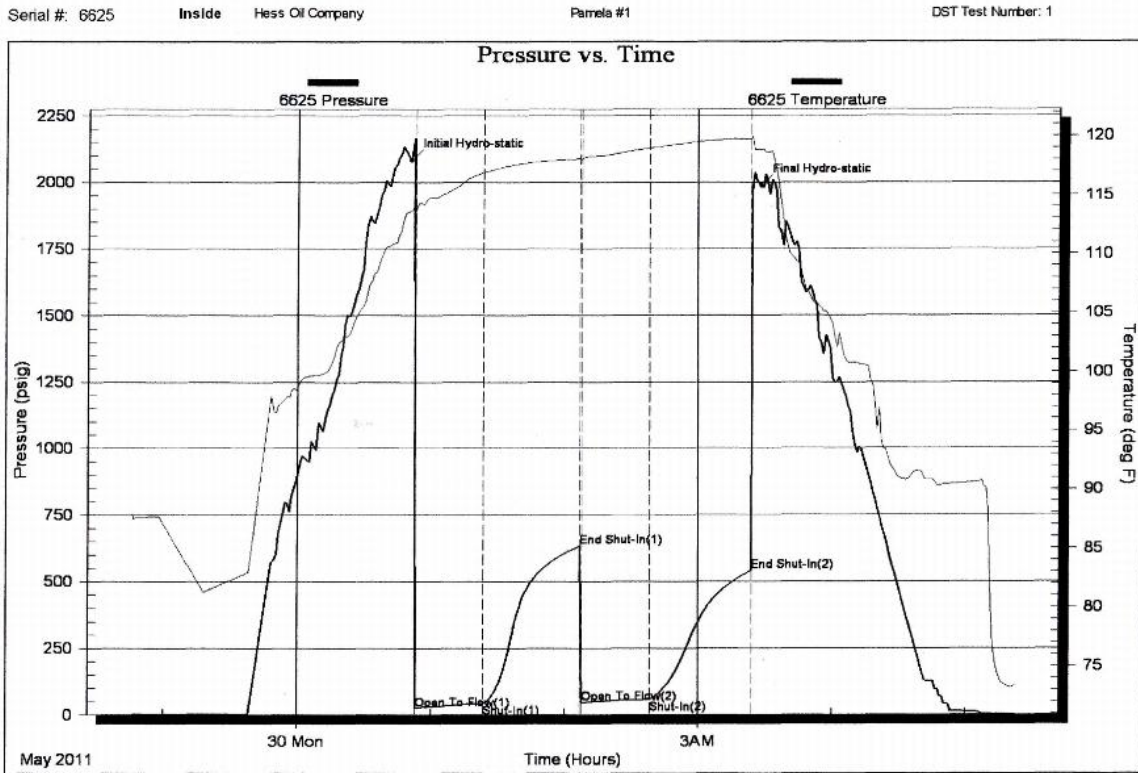
*Times: Open 30, Closed 45, Open 30, Closed 45*

*Recovered: 80' Heavy Oil Cut Watery Mud; 30% Oil, 20% Water, 50% Mud*

*BHT 119°F      API RW .48 @ 74°F      Chlorides 12000 ppm*

*Pressures: Initial Hydrostatic: 2082#      Initial Flow: 23-41#      Initial Shut-In: 633#*

*Final Hydrostatic: 1986#      Final Flow: 47-57#      Final Shut-In: 540#*



Fresh to white, semi-clear chert, sharp, slightly light brown, tripolitic, slightly dolomitic. One piece of dark brown dolomite, finely crystalline, dense, dolomite. Strong show of free oil when crushed, no odor.

DRILL STEM TEST #2

4298-4358' KB

60' Anchor

Blow: Surface to 1/8" Blow 2nd: Pulled Tool

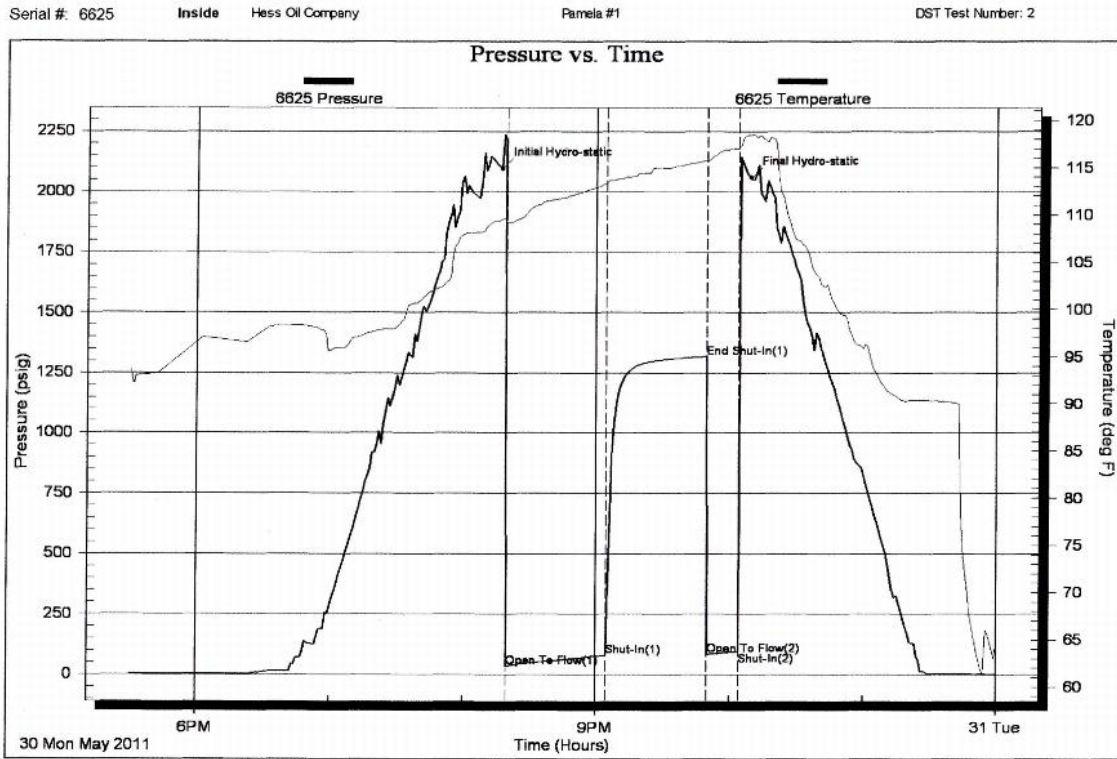
Times: Open 45, Closed 45, Open 15, Closed Pulled Tool

Recovered: 140' Muddy Water; 55% Water, 45% Mud

BHT 115°F API RW .25 @ 70°F Chlorides 27000 ppm

Pressures: Initial Hydrostatic: 2094# Initial Flow: 34-78# Initial Shut-In: 1316#

Final Hydrostatic: 1057# Final Flow: 82-95# Final Shut-In: Pulled Tool



ROTARY TOTAL DEPTH

4358 (-2033)

Testing tools were pulled during DST#2 because of the lack of blow during the second open period. Therefore, no bottom-hole pressure was recorded.

Due to poor the subsurface structural position, poor drill stem tests, and poor sample shows, the Pamela #1 was plugged and abandoned without logs or further testing on May 31<sup>st</sup>, 2011.

Respectively Submitted,

David A. Barker