

Virgin Reservoir Pressure In the Morrow Formation was Approximately 7000#

Initial Well

State WEK #1

1967

Sec 15

Good Reservoir, Good Rates

6.4 BCF

80% of Reserves In ~ 7 Years

No North South
Communication

State W E L Com #1

Sec 10

2.9 BCF

Production Characteristics Much Lower

7080# Initial BHP DST

Pressure Data Shows No Communication With W E K 1

East West
Communication

Sec 15-16 POD
State WEK #1

Development of the East West Reservoir Shows Evidence of Pressure
P Q Osudo 1 came In Lower Pressure, Dropped to W E K 1 profile

PQ Osudo State Com #1

East West
Communication

Osudo State 9 Com (1)
Hunger Buster
KF State 4 1

Came In with lower than virgin reservoir pressure

No North South
Communication

CC State #1
WEL Com #1
WEL Com #2

Apache dryhole negates North South Communication between
CC 3 State #1 and Well Com #1

Reservoir Pressure Data Supports CHK's Geological Interpretation
and the Published Literature

BEFORE THE

OIL CONSERVATION DIVISION

Case # 13492&13493 Exhibit No. **40**

Submitted By:

Chesapeake Inc.

Hearing Date: August 22, 2005