

ATP Oil & Gas Corporation
Mississippi Canyon Block 942
OCS-G 24130 Well No. 2 ST01BP00

CASING TEST PRESSURE CALCULATIONS
Drilling 9-7/8" hole and Installation of 7-5/8" Production Liner

IV. Maximum Anticipated Surface Pressure (MASP)

Assumptions:

- 1) Perforated "S" Sand (16,975' TVD)
- 2) Estimated BHP to be 12.846 ppg EMW
- 3) Complete evacuation of mud to oil in casing
- 4) Measured Gas/Mud gradient to surface of 0.337 psi/ft

$$\text{MASP} = 0.052(\text{Equivalent Mud Weight})(\text{TVD}) - (\text{Fluid Grad})(\text{TVD})$$

$$\text{MASP} = 0.052(12.846 \text{ lb/gal})(16,975) - (.337)(16,975)$$

$$\text{MASP} = \mathbf{4,940 \text{ psi (At the Wellhead)}}$$

V. BOEMRE Casing Test Pressure (CTP)

7 5/8", 39#, C-95, Casing
100% Burst Rating = 10,900 psi
CTP = 0.70(Burst Rating)
CTP = 0.70(10,900 psi)
CTP = 7,630 psi

13-5/8", 88.2#, HCQ-125 Casing
100% Burst Rating = 10,030 psi
CTP = 0.70(Burst Rating)
CTP = 0.70(10,030 psi)
= 7,021 psi

VI. Proposed Casing Test Pressure (PCTP)

$$\text{MASP} + 100 \text{ psi} = 4940 + 100 = 5040 \text{ psi}$$

$$\text{PCTP} = \mathbf{5,100 \text{ psi}}$$