

**ATP Oil & Gas Corporation
Green Canyon Block 300
OCS-G 22939 Well No. SS004 S.T. #5**

BOTTOM HOLE PRESSURE CALCULATIONS

C. Mac Oil Sand:

**Measured BHP in GC 300, OCS-G 22939 #2 was 9,869 psi at 15,476' TVD.
Calculated gradient is 0.6377 psi/ft or 12.26 ppg EMW.**

GC 300 #4 S.T. #5 Well:

BHP for the C. Mac Oil Sand is as follows:

**-15,375' TVD SS + 85' KB = 15,460' TVD KB (midpoint)
15,460' TVD x 0.6377 psi/ft = 9,859 psi or 12.26 ppg EMW**

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CASING TEST PRESSURE CALCULATIONS
Production String – Production Mode

I. Maximum Anticipated Surface Pressure (MASP at ML)

Assumptions:

- 1) Perforate C. Mac Oil Sand midpoint (15,460' TVD)
- 2) Estimated BHP to be 12.26 ppg EMW
- 3) Complete evacuation of casing
- 4) Oil gradient to mudline of 0.32

$$\text{MASP} = 0.052(\text{Equivalent Mud Weight})(\text{TVD}) - (\text{Gas Grad})(\text{TVD}-3,542')$$

$$\text{MASP} = 0.052(12.26 \text{ lb/gal})(15,460) - (0.32)(15,460-3,542)$$

$$\text{MASP} = \mathbf{6,045 \text{ psi (At the Subsea Wellhead)}}$$

II. MMS Casing Test Pressure (CTP)

9 5/8", 53.5#, P-110, Casing

100% Burst Rating = 10,900 psi

$$\text{CTP} = 0.70(\text{Burst Rating})$$

$$\text{CTP} = 0.70(10,900 \text{ psi})$$

$$\text{CTP} = \mathbf{7,630 \text{ psi}}$$

III. Proposed Casing Test Pressure (PCTP)

$$\text{PCTP} = \mathbf{6,100 \text{ psi}}$$