

7. Estimated tops of important geologic markers:

Tubb	5,850 TVD
Wolfcamp	7,925 TVD
Atoka Clastics	10,725 TVD
Lower Atoka	10,450 TVD
Morrow Clastics	10,575 TVD
Chester	10,725 TVD

8. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Primary Objective:	Morrow	10,575' TVD
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9. The proposed casing program is as follows:

Surface:	13 3/8"	48# H-40 ST&C new casing set from 0-425'
Intermediate:	9 5/8"	36# J55 LT&C new casing set from 0-2,800'.
Production:	5 1/2"	17# S-95 new casing set from 0-10,900' TVD.

10. Casing setting depth and cementing program:

1. 13 3/8" surface casing set at 425' in 17 1/2" hole. Circulate cement to surface with 250 sks. 35/65/6% gel + 2% CaCl<sub>2</sub> mixed at 12.4 ppg, Yield – 2.0 cf/sk and 180 sk Class C + 2% CaCl<sub>2</sub> mixed @ 14.8 ppg, Yield – 1.32 cf/sk.
2. 9 5/8" 36# J-55 casing set at 2,800' in 11" hole. A fluid caliper will be ran to determine exact cement volume required. Cement will be circulated to surface with 600 sks 35/65/6% gel + 5% salt mixed at 12.4 ppg, yield – 2.15 cf/sk and 220 sks Class C + 1% CaCl<sub>2</sub> mixed at 14.8 ppg, yield – 1.32 cf/sk.
3. 5 1/2" 17# dual grade S-95 casing set at 10,900' TVD. Hole will be logged to determine exact cement volume to bring TOC to 8,000'.

Cement with: 500 sks TXI + 4% D800 + .4% D167 + 2% D65 +.2% D46 mixed @ 13.0 ppg, yield – 1.47 cf/sk.