Page 8 8-Point Drilling Plan Avalon 1 Federal #4

4. CASING AND CEMENTING PROGRAM (CONTINUED):

b. The Proposed Cementing Program:

- i. OPTIONAL Conductor Casing: Grouted: Est. 70 F. @ 8.34 PPG water to 40': Grout w/ Redi-Mix to Surface: Est. 4 Yds. of Redi-Mix.
- Surface Casing: Single Stage: ii. Est. 75 F. @ 9.5 PPG mud @ 700'. Circ. Cement to Surface: Top Jobs if needed to bring cement to Surface. Lead Slurry: Est. Surface to 510'. 100 % excess over calculated open-hole volume: Est. @ 320 sx. Lite (65% Class 'C' + 35% Pozzalan + 6% Gel) w/ 5#/sx. Gilsonite + 0.25#/sx. cello-flakes + 2% CaCl2: 1.99 cu.ft./sx. @ 12.4 PPG. Tail Slurry: Est. 510' to 700'. 100 % excess over calculated open-hole volume: Est. @ 250 sx. Class 'C' w/ 2% CaCl2 + 0.25#/sx. cello-flakes: Additives: 1.33 cu.ft./sx. @ 14.8 PPG. Intermediate Casing: Single Stage: iii. Est. 100 F. @ 8.6 to 12.5 PPG mud @ 2,360'. Circ. Cement to Surface: Top jobs if needed to bring cement to Surface. Lead Slurry: Est. Surface to 1,760'. 100 % excess over calculated open-hole volume: Est. @ 400 sx. Interfill 'C' (50% Class 'C'+50% Pozzalan+10% Gel) w/ 10#/sx. Gilsonite + 0.5#/sx. cello-flakes: 2.47 cu.ft./sx. @ 11.9 PPG. Tail Slurry: Est. 1,870' to 2,360'. 100 % excess over calculated volume: Est. @ 250 sx. Class 'C' w/ 2% CaCl2 + 0.25 #/sx. cellophane: 1.33 cu.ft./sx. @ 14.8 PPG.