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4. Casing and Cementing Program

Casing Hole Size From To Casing OD Weight, Grade, Coupling, Cond, 10-3/4" 32.75# H-40 STC used 14-3/4" 0 ' 650' 0 • 7-5/8**"** 26.40# J-55 LTC used 9-7/8" 4,250' 4-1/2" 11.60# J-55, N-80 LTC new 6-3/4" 0 8,350'

All used casing will be drifted and hydrostatically tested to at least 90% of new pipe rating.

Minimum Design Factors: Collapse 1.125, Burst 1.1, Tension 1.7

10-3/4" surface casing set at 650'

The surface casing will be set into the Rustler anhydrite to protect all fresh water formations.

Centralize the bottom 3 joints and every 4th joint to surface. Cement to surface with 550 sx of Class C cement.

7-5/8" intermediate casing set at 4250'

The intermediate casing will be set within 150' of the top of the Delaware to isolate all salt stringers.

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Centralize the bottom 3 joints.

Cement to surface with 1000 sx of Class C cement.

4-1/2" production casing set at TD'

Centralize bottom 6 jts., plus all potential producing intervals. Top of cement to be at ± 1900 .

A 2-stage cement job will be required with a DV tool at ± 5500 '.

Stage 1: 350sx Class H

Stage 2: 650 sx Class H.