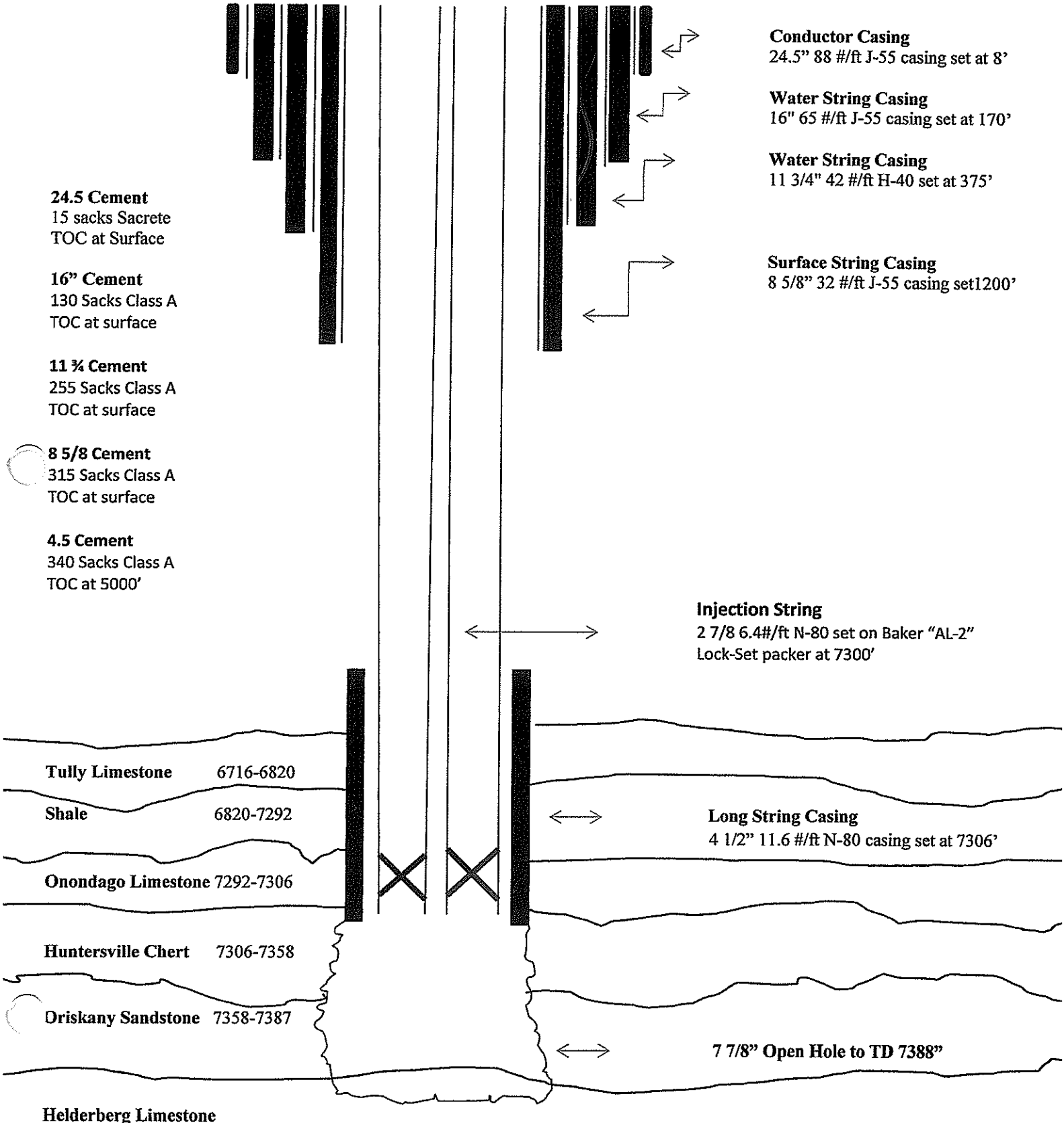


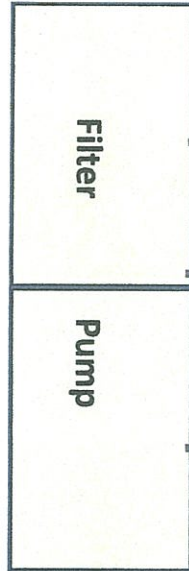
Attachment "M"
Construction Details --subsurface
Zelman#1 Injection Well
ZELMAN WELLBORE SCHEMATIC

Elevation 1697'

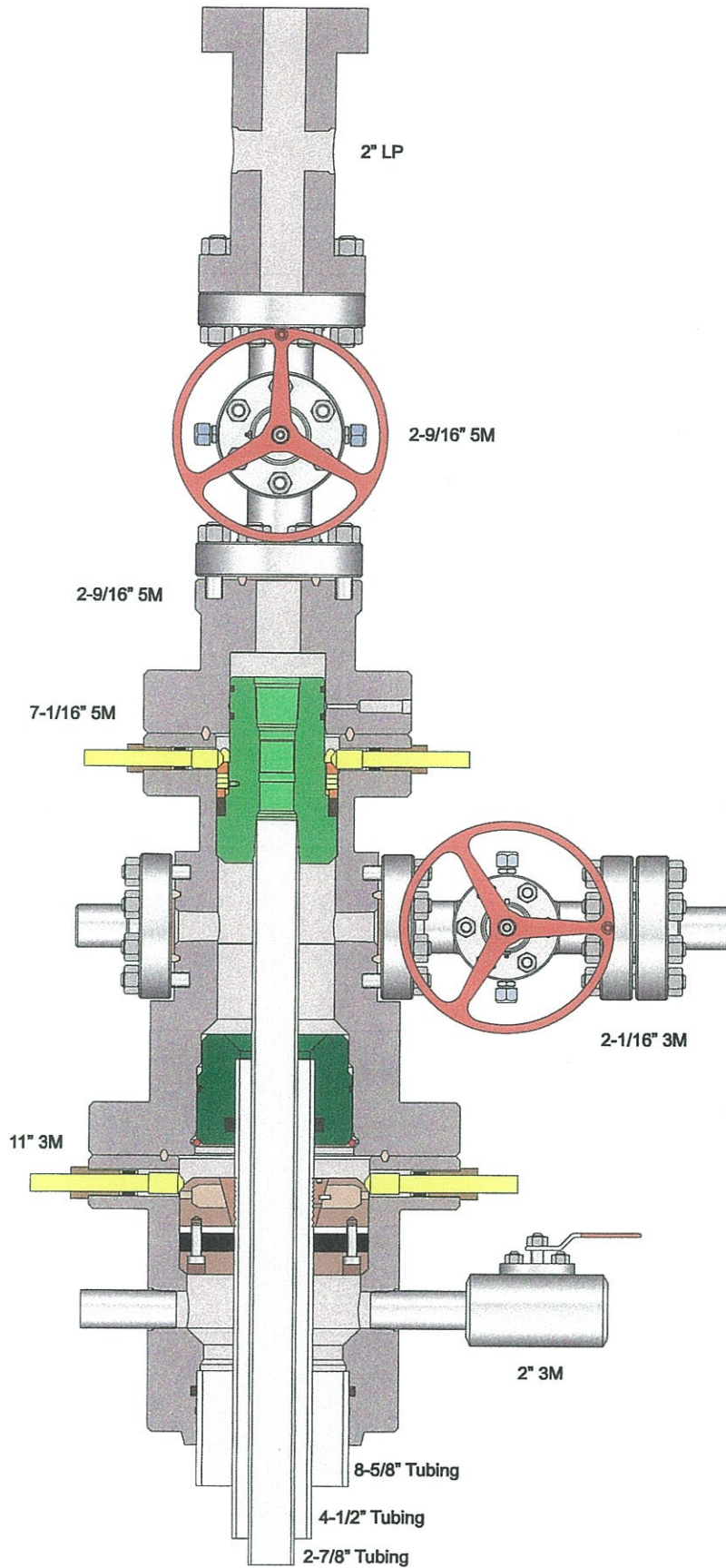


Unloading Dock

ZELMAN INJECTION WELL SURFACE FACILITY



Secondary Containment



MODEL A-3™ AND AL-2™ LOK-SET RETRIEVABLE CASING PACKER

Product Family Nos. H64630 and H64628

DESCRIPTION/APPLICATION

The Model A-3 Lok-Set Packer combines advantages of a retrievable packer with features of a permanent packer. Its ability to lock down tubing forces provides for a broad range of applications, including production, injection, zone isolation, and remedial operations. The packer is set with right-hand rotation while slacking off tubing weight. Right-hand rotation with slight tension applied releases the packer.

The Model AL-2 Lok-Set Packer is similar to the Model A-3 and is recommended when a larger-than-normal bore size is required.

FEATURES/BENEFITS

- Holds pressure from above and below, without relying on set-down weight, tubing tension, or hydraulic hold-down
- Provides tubing anchoring with tension applied, suitable for pumping wells or injection, con-

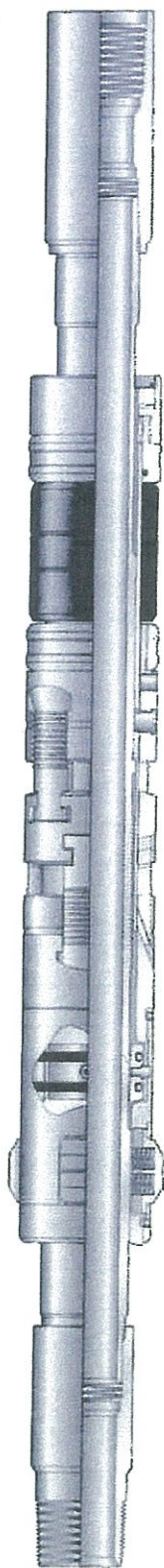
trolling tubing forces related to change fluid temperatures

- Opposed, non-transferring, dovetail slips prevent packer movement associated by changing differential pressures, while allowing the landing of the tubing in tension, neutral, or compression
- Rotational release provides ease of operation in combination with the L-10 On-Off Tubing Connector
- Packing element compression is locked in by ratcheting action of lock segments, also permitting rotation in only one direction

ACCESSORIES

To provide a simple and reliable injection system for retrieving the injection string without having to unseat the packer:

- Model L-10 or L-316 On-Off Sealing Connectors, Product Family Nos. H68420 and H68422.
- Baker Blanking Plug can be used in the seating nipple profile of the on-off sealing connector to provide a means of plugging the lower zone while the tubing is being pulled.



Model A-3 Lok-Set
Retrievable Casing Packer
Product Family No. H64630

