

Casing Program: (Continued)

(B) Surface Casing: (Continued)

No. Jts.	Description	Thds Off Length	From	To
---	Rotary correction	34	0	34
---	20" OD 94#/ft H-40 ST&C 8rd thread csg.	522	34	556
---	20" OD baffle collar with plugging and sealing valve for cementing thru drill pipe.	2	556	558
---	20" OD Float shoe	2	558	560

The shoe must have lateral exits for cement, as it is intended that part of the weight of the casing string be rested against the bottom of the hole. API modified thread lubricant is to be used on the threads. The bottom three joints are to be welded, and are to be sand-blasted to remove mill scale and lacquer. Positive centralizers are to be used, one set on each of the bottom three joints. Casing is to be cemented with an estimated 680 sacks "Halliburton light" (mixed at 12.5 PPG, yield factor 1.80 CF/sack, 9.9 gallons water per sack) followed by 200 sacks class "C" with 2% CaCl_2 (mixed at 14.8 PPG, yield factor 1.34 CF/sack, 6.3 gallons water per sack). So that the volume of cement required may be supplied within fairly close limits, it is recommended that this string of casing be cemented through drill pipe that will be in service at the time the 26" hole is made. By inserting a "stinger" into the baffle collar, the cement can be placed through the drill pipe, and enough cement can be mixed to bring clean "Halliburton light" returns to the surface before starting to mix the class "C" cement. In some instances, the cement level in the annulus has fallen after the cement has been placed, and the annulus must then be filled by running 1" tubing into the annulus to the cement top, and cementing to the surface. WOC time 24 hours. Pressure test to 600 psig for 30 minutes. A caliper survey is to be run to help determine the correct cement volume. After WOC time, the casing is to be cut off at the proper level for the well head plan and the levelling plate is to be installed, welded, and the weld is to be tested. Next, the slip-on type housing is to be installed and simultaneously welded on the inside and outside by two welders. After this welding has been tested, the collar is to be filled with ready-mix concrete to the base of the levelling plate.

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