

Surface Casing: (continued)

Prior to drilling the float collar the casing is to be displaced with water (fresh water or brine) and the casing is to be pressure tested to 600 psi for 30 minutes. After drilling the shoe the casing is again to be pressure tested to 600 psi for 30 minutes.

Salt Protection Casing:

17 1/2" hole is to be drilled below the surface casing using a saturated salt water. 13 3/8" OD casing is to be set not less than 100' nor more than 600' below the base of salt; and shall not be set below the top of the highest known oil and/or gas zone. Casing is anticipated to be set about 2000' as follows:

<u>No</u>	<u>Jts</u>	<u>Description</u>	<u>Thds Off</u> <u>Length</u>	<u>From</u>	<u>To</u>
--		Rotary Correction	15	0	15
51		13 3/8" OD, 61#/ft, K-55 ST & C casing	1943	15	1958
--		Float collar	2	1958	1960
1		13 3/8" OD, 61#/ft, K-55 ST & C casing	38	1960	1998
--		Float shoe*	2	1998	2000

*The float shoe is to be equipped with lateral exits for cement as it is intended to rest part of the casing weight on bottom.

The bottom three (3) joints are to be sand blasted to remove mill scale and lacquer and in addition are to be welded and sealed with HOWCO-weld. Positive type centralizers are to be recommended; one set on each of the bottom three (3) joints. A.P.I. modified thread lubricant is to be used on the casing threads.

Casing is to be inspected using a combination mechanical-optical and magnetic particle inspection - full length.

No pressure test of the 13 3/8" OD casing is anticipated.

Prior to running the 13 3/8" OD casing a caliper survey is to be run to determine the actual cement volume required.

13 3/8" OD casing is to be cemented with A.P.I. class "C" containing 24 1/2# salt/sack and 1% CaCl₂ by weight of cement; mixed at a slurry weight of 14.7 PPG, yield of 1.68 CF/sack. An estimated 1250 sacks will be required to circulate cement to the surface. A W.O.C. time of 24 hours will be observed after the plug is down.

Prior to drilling the float collar the casing is to be displaced with fresh water and pressure tested to 1000 psi for 30 minutes. After drilling the shoe the casing is again to be pressure tested to 1000 psi for 30 minutes.

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