

Production Casing: (continued)

5 1/2" casing is to be inspected using a combination mechanical optical and magnetic particle inspection - full length. Casing is to be pressure tested externally, using Gator-Hawk to 3500 psi.

Prior to running the 5 1/2" OD casing a caliper survey is to be made to determine actual cement volume required to fill the annulus back to 8500' (1300' above the expected top of Wolfcamp). Casing will be cemented as follows:

Cement is to be API class "H" containing 1% CFR-2 and 3# KCl per sack, mixed at 15.8 PPG, yield of 1.10 CF/sack. An estimated 1000 sacks will be required to fill to 8500'.

After the plug is down, the 5 1/2" casing is to be cut off, equipment nipped down and the drilling rig released.

Completion:

A well service unit is to be moved in and if necessary drilling-out equipment rigged up to drill out to a depth sufficient to test any potential pay zone.

It is anticipated that the well will be a singly completed (Morrow gas) well. 2 7/8" OD, 6.50#/ft, C-75, EUE, 8 round thread tubing is to be used with a suitable production packer. Tubing is to be pressure tested externally using Gator-Hawk to 6000 psi.

Logging:

Ind-ES-Laterolog, GR-Acoustic Neutron and Microlog are to be run prior to setting 5 1/2" OD casing.

A four (4) arm dipmeter is to be run over the bottom 1000' (thru the Morrow) of hole.

A PDC (GR-N) Log is to be run after drilling out to a depth sufficient to test any potential pay zone. The PDC Log is to be correlated to open hole logs to assist in perforating.

Drill Stem Tests:

A maximum of four (4) DST's are anticipated and as required by the geological department as shows and production zones are encountered.

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