(c) 4½" casing: cement with 1100 sx class "H" cement 5# KCL/sx plus 1% fluid loss additive. Will run caliper in conjunction with open hole logs prior to setting 4½" casing to determine exact volumes necessary. Top cement estimated to be at 8000'. Cement volumes could vary depending on development of intermediate horizons. Could add ¼# Celloflake of lost circulation or seepage suspected.

10. The pressure control diagram is attached to Form 9-331C. The following additional information is as follows:

11 3/4" casing installation: 10" Ser 900 3000 psi double hydraulic pipe and blind rams.
8 5/8" casing installation: 10" Ser 900 3000 psi double hydraulic pipe and blind rams plus 10" Ser 900 3000 psi Hydril plus 10" Ser 900 3000 psi Rotating Head.

Testing Procedure:

11 3/4" csg - pressure to 1000 psi for 30 min. before drilling below 11 3/4" csg.
8 5/8" csg - pressure to 1500 psi for 30 min. before drilling below 8 5/8" csg. Yellow Jacket, Inc. to test the 8 5/8" casing installation. Test BOP daily while drilling and on all trips.

11. See Form 9-331C

12 (a). DST program - probable DST if shows encountered on mud logger in Upper Strawn Sand and Atoka. Objective Morrow will not be tested unless further evaluation necessary after logging.

(b). Cores - none

(c). Mud logging - to be installed from under surface casing to TD

(d). Wire line logs - 0-2500' BHC Sonic with Gama Ray - Caliper
Dual Laterolog with RXO
2500-TD Compensated Neutron - Formation Density with Gama Ray - Caliper
Dual Laterolog with Rxo

13. No abnormal pressures anticipated with bottom hole pressure at TD expected to be 4500 psi. Bottom hole temperature 180°F. No hydrogen sulfide expected in this known drilling area. No crooked hole or abnormal deviation problems.

14. Anticipated starting date to spud - April 20, 1979. Previous drilling in area indicate 41 days from spud to setting 4½" casing at TD on about May 31, 1979.