

TOMAHAWK 34 FEDERAL #1
DRILLING PROGRAM
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12-1/4" hole will be drilled to 4,500' and 8-5/8" casing will be cemented with 2,500 sx or volume necessary to bring cement back to surface.

7-7/8" hole will be drilled and 5-1/2" production casing will be cemented with approximately ~~500~~ ¹⁵⁰⁰ sx of Class "H" 50/50 POZ.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

The BOP stack will consist of a 5,000 psi working pressure, dual ram type preventer and annular.

A BOP sketch is attached.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM

Spud and drill to 500' with fresh water mud for surface string. The intermediate section will be drilled with 10 ppg brine to 4,500'. The production section from 4,500' – 10,800' will be fresh water, from 10,800' – 12,400' with 9 ppg cut brine, from 12,400' – 14,500' with a Brine/Poly Pac/XCD system with mud weight sufficient to control formation pressures.

7. AUXILLARY WELL CONTROL AND MONITORING EQUIPMENT

None required.

8. LOGGING, TESTING, AND CORING PROGRAM

DLL/CNL/LDT/CAL/GR logging is planned. Drill stem tests, cores and sidewall cores are possible.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES & POTENTIAL HAZARDS

Anticipated bottom hole pressure: 4,000 – 5,000 psi. No abnormal pressure is anticipated.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is January 15, 1997. Once commenced, the drilling operation should be finished in approximately 45 days.