

## SUPPLEMENTAL DRILLING DATA

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HUDSON 31 FEDERAL WELL NO.1

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Anhydrite	1350'
Top Salt	1500'
Base Salt	2800'
Top Yates	3050'
Top 7-Rivers	3500'
Top Queen	4200'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Queen	Oil
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4. PROPOSED CASING AND CEMENTING PROGRAM:

8-5/8" 24# K-55 STC casing to be set at 400 feet in 12-1/4" hole.  
Casing to be cemented with 200 sacks of Class "C" with 2% CaCl.  
Cement to circulate.

4-1/2" 9.5# K-55 STC casing to be set at total depth in 7-7/8" hole.  
Casing to be cemented with 300 sacks of Class "C". Cement to fill  
600 feet above top of Queen.

5. PRESSURE CONTROL EQUIPMENT:

Blowout prevention equipment, while drilling below the 8-5/8" casing  
seat, will be a 3000 psi working pressure stack. A BOP sketch is attached.

6. CIRCULATING MEDIUM:

Surface to 400 feet: Fresh water spud mud. Viscosity 30 to 36 as  
required for hole cleaning.

400 feet to total depth: Water base drilling fluid conditioned as  
necessary for control of viscosity, pH,  
and water loss. Weight 9.4 to 10.  
Viscosity 38 to 45. pH 9 to 10.  
Filtrate 6 to 15.