PROPOSED DRILLING FULID PROGRAM

0 - 450'

Spud mud consisting of AQUAGEL flocculated with Lime. Use ground paper for seepage loss of fluid and KWIK-SEAL, FIBERTEX and Cottonseed Hulls for severe or total loss.

If total loss of circulation occurs, we suggest mixing two or three 150-200 barrel pills of viscous AQUAGEL/Lime mud treated with 10-15 ppb KWIK-SEAL and/or Cottonseed Hulls. If this does not regain circulation, we suggest drilling to casing point without returns and spotting a similar pill on bottom prior to logging and running casing.

450 - 4550'

Drill out with brine water and treat with CON DET and BEN-EX/MF-1 to flocculate solids. Circulate controlled section of the reserve pit. Use ground paper for seepage loss. Use pre-hydrated AQAGEL or ZEOGEL/paper slugs as needed to sweep hole. For corrosion control, use Sodium Bichromate.

4550 - 11200'

Drill out with fresh water or cut brine circulating a controlled section of the reserve pit using BEN-EX/MF-1 and CON DET for control of solids build up. The fluid weight in this interval should be 8.5 - 9.5 ppg. Use ZEOGEL/ground paper or pre-hydrated AQUGEL pills to sweep the hole free of cuttings when needed and prior to trips . Use Lime for a 9.0 - 9.5 pH. Use Sodium Bichromate at 600 - 800 ppm concentration for drill pipe and casing corrosion control.

The additions of MR-1/BEN-EX and CON DET may be used for control of solids build up. Use ZEOGEL/ground paper sweeps for seepage and additional hole cleaning.

Prior to entering the Cisco, limit circulation to the steel pits and treat out hardness with Soda Ash. Lower filtrate to 15-20 cc with DEXTRID/PAC-R. Add XC bentonite for desired viscosity. Use barite for density as dictated by hole conditions. This non-dispersed bipolymer system should have the following properties: Weight: to be dicated by hole conditions, Viscosity: 34 - 38 sec/1000 cc, Filter Loss: 10 -15 ml.

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