

PROPOSED WELL PLAN

WELL NAME	FEDERAL 34 NO.2	FIELD	SPRINGS
ATTACHMENT	NO.	REQUIRED	NOT REQUIRED
CASING CENTRALIZERS, SCRATCHERS		X	
CEMENTING		X	
MUD PROGRAM		X	
WELL PLAN OUTLINE		X	
PORE PRESSURE - FRAC GRADIENT			
PROJECTED PROGRESS			
CROSS SECTION OR WELL COURSE			
HYDRAULICS PROGRAM			
BIT PROGRAM			
VENDER USAGE LIST			

DRILLING AND COMPLETION PROCEDURE

1. 0-300' - Drill 17-1/2" hole. Set & cement 13-3/8" casing. WOC 18 hrs. Pressure test casing to 600 psi. Drill out shoe.
2. 300'-2800' - Drill 12-1/4" hole. Set & cement 9-5/8". WOC 18 hours. Pressure test casing to 600 psi. Drill out shoe and pressure test to 500 psi.
3. 2800'-10,500' - Drill 7-7/8" hole. Run open hole logs. Set and cement 5-1/2" casing.
4. Detailed completion procedure will be prepared from open hole logs.

NOTE: Casing pressure tests to be 30 minutes in duration.