

J. M. HUBER CORPORATION

DRILLING PROGNOSIS PROCEDURE  
Featherstone-McCoy No.1

LOCATION:

Featherstone-McCoy No. 1 660' FNL & 835' FEL, Sec. 22, T-23-S, R-26-E  
Eddy County, New Mexico

PRODUCTION HOLE: 1225' to T.D.

1. Set good quality cement plug from 1150' to 1494' and wait on cement to set up for 24 hours.
2. Go in hole with 7-7/8" Mill Tooth Bit, 6½" x 30' Non Magnetic Drill Collar, 6 regular steel drill collars and drill pipe. Dress off cement plug with 10,000 to 15,000 pound bit weight. Plug should drill 1½ to 2 minutes per foot. (Drilling returns will indicate quality of cement). If cement is not hard enough, additional time may be needed for cement to set up. When it is determined that cement plug is hard enough to sidetrack on, plug will be dressed down to approximately 1225 feet. At this point a directional single shot will be run to verify angle and hole direction. Trip out of hole.
3. Go in hole with 7-7/8" M44N Security Bit, 5" Dyna Drill, 2½° Bent Sub w/orienting sleeve, 6½" x 30' Non Magnetic Drill Collar, 6 regular drill collars and drill pipe. Dyna Drill will be oriented with a directional single shot instrument and mule shoe orienting assembly to turn existing angle to a west direction. Drill approximately 125' with this assembly and trip out of hole.
4. Go in hole with 7-7/8" Hole Opener, 7-7/8" Bottom Hole Reamer, 6½" x 30' Non Magnetic Drill Collar, 6 drill collars and drill pipe. Push hole opener past sidetrack point and ream with this assembly to bottom of sidetracked hole. Run directional single shot instrument to determine next assembly to be run.
5. If 7°30' angle is not obtained on Dyna Drill Run, an angle building assembly will have to be run to build angle. Angle building assembly will consist of 7-7/8" bit, 7-7/8" Bottom Hole Reamer, 6½" x 30' Non Magnetic Drill Collar, all steel drill collars and drill pipe. Drill with this assembly until angle of 7°30' is obtained. IF angle of 7°30' was obtained on Dyna Drill Run, a semi-packed hole assembly will be run to hold angle and direction to a depth of approximately 2450' and trip out of hole.
6. Trip in hole with 7-7/8" Bit, 2 steel drill collars, 7-7/8" String Reamer, regular drill collars and drill pipe. Angle should drop at the rate of ½° to 1° per 100 feet. Drift shots should be run at 60' intervals until it is determined that angle is dropping as it might be necessary to decrease weight to start angle down to vertical.