

# PROCEDURE

PADDOCK UNIT #20

1. Pull and lay down rods and tubing as shown on wellbore sketch.
2. Spot a 100 ' (20 sx) Class "C" cement plug from 5050 ' to 4950 ' above the Paddock - tag to verify location. (A CIBP with 35 ' (5 sx; 10 sx if through tubing) cement on top may be set in place of this plug.)
3. Circulate hole with mud (see "C" above).
4. Determine freepoint of 5½ " casing (T.O.C. @ 3580 ' by temperature survey):
  - a. If freepoint is at or below 3800', cut and pull 5½ " casing, then proceed with steps 5 and 6.
  - b. If freepoint is above 3800' place the plugs shown in step 6 which are below the freepoint before making the cut.
5. Spot a 100' Class "C" cement plug (30 sx) across the 5½ " casing cut (tag). Combine with plug above San Andres, if economic.
6. Spot 100' Class "C" cement plugs above the San Andres (20 sx) from 3800' to 3700', above the Queen (20 sx) from 3300' to 3200' and across the 7-5/8 " intermediate casing seat (35 sx) from 2870 ' to 2770 ', if exposed (tag). Increase plug to 35 sx each if above 5½ " casing cut.
7. Determine freepoint of 7-5/8 " intermediate casing (T.O.C. at: surface - calculated at 24% efficiency.)
  - a. If freepoint is at or below 1200' -
    - cut and pull 7-5/8 " casing
    - spot a 100' (50 sx) plug across the casing cut (tag).
    - spot a 200' (120 sx) Class "C" cement plug from 1200' to 1000' above the salt (tag).
  - b. If freepoint is above 1200' -
    - 1) and T.O.C. is below 1200' or unknown.
      - a) Perforate 7-5/8 " casing at 1100' and attempt to pump in and break circulation to surface outside 7-5/8 " -
        - (1) If can pump in -
          - squeeze annulus and leave plug from 1200' to 1000' above the salt inside 7-5/8 " under a cement retainer at 975' with 250 sx Dowell RFC cement (or equivalent). Close 7-5/8 " x 10-3/4 " casing valve before pumping last 40 sx cement.
        - (2) If can't pump in -
          - spot 200' (60 sx) plug inside 7-5/8 " casing from 1200' to 1000' above the salt (tag).
      - b) Cut and pull 7-5/8 " casing if freepoint is at or above surface (10-3/4 ") casing seat.
      - c) Spot a 100' (70 sx) Class "C" cement plug across the 7-5/8 " csg. cut (tag).
  8. Set a 100' Class "C" cement plug from 400 ' to 300 ' across the surface (10-3/4 ") casing seat (tag, if exposed) and below the Ogallala -
    - 30 sx if in 7-5/8 ".
    - 55 sx if in 10-3/4 ".
  9. Spot a 10 sx plug at the surface.
  10. Set an approved dry hole marker and prepare the well for abandonment.