- o. Isolate the surface casing shoe as follows:
  - A. Perforate the 5-1/2" casing at 355' as per step 6 of this procedure.
  - B. Establish circulation and circulate cement to surface (23 bbls or 100 sacks) and displace cement to 255' with 6.2 bbls of mud. WOC 1/2 hr+ and tag plug with tubing and fill 5-1/2" casing to 255' with cement as necessary. Proceed to step 9 of this procedure.
- 9. If fireulation cannot be established, spot a 100' cement plug from 355'-255' with 10 sacks of cement. Displace cement with mud. WOC 1/2 hr+ and tag plug with tubing. Fill 5-1/2" casing to 255' with cement as necessary.
- 10. Pull tubing laying down up to  $\pm 100^{\circ}$  and spot a cement plug to the surface with  $\pm 10^{\circ}$  sxs of cement.
- 11. Isolate all open annuli as follows:
  - A. If cement circulation was not achieved in either step 7 or step 8 of this procedure, I" the production/intermediate annlus with 200 sxs of cement and close valve. Monitor 5-1/2" casing and intermediate/surface annulus during pumping.
  - B. Bullhead 54 sacks of cement down the intermediate/surface casing annulus and close valve.
- 12. Nipple down BOP and cut off all strings of casing at the base of the cellar or 3 feet below the final restored ground level (whichever is deeper).
  - A. Fill the casing from the cement plug to the surface with cement.
  - B. Cover the wellbore with a metal plate at least 1/4" thick, welded in place, or a cement cap extending at least 12" beyond the 10-3/4" casing and at least 4" thick.
- 13. Erect an abandonment marker according to the following specifications:
  - A. Marker must be at least 4" diameter pipe.
  - B. Marker must be at least 10' long with 4' above ground.
  - C. Marker must be embedded in cement and capped on the free end.
  - D. The marker must have the following information:

- 14. Rig down pulling unit and clean location.
- 15. Remove and warehouse any surface equipment not in use.
- 16. Send a copy of the well servicing report to Ed Kepford so the proper forms can be filed with the governing regulatory body.
- 17. Thank you.

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JUL 29 1986

JUL C. C. STRICE