

13. Run freepoint and back off casing above intermediate casing shoe. Trip out of hole laying down and checking condition of casing.

14. Trip in the hole with bit and scraper to top of casing back off, circulate hole clean and trip out with scraper.

15. Trip in the hole with R.B.P. and PKR. and set R.B.P. above casing backoff, trip out of hole one joint and set PKR. and pressure test R.B.P. to 1000#. *Pressure test backside to 1000#.*

16. Release packer and trip out of hole isolating leak in casing. NOTE: IF this can not be accomplished contact *Don Brown* in Denver (303-830-5045). ~~If no leak is found, perforate casing and circulate cement to surface.~~

17. If a leak is found, release PKR. and spot sand on R.B.P. and trip out of hole.

IF NO LEAK IS FOUND, FROM RBP TO SURFACE
18. Run, ~~if necessary~~ a C.B.L. & C.C.L. to determine cement top on the intermediate casing. *Run first pass with no pressure. Run 2nd pass UNDER 1000#.*

19. Perforate casing, if necessary with 4JSFF. and circulate dye to determine cement volume. Depending on the depth of the hole and circulating pressure, a PKR. or a cement retainer may be needed.

20. Mix and pump sufficient cement (class B or equivalent with two hour setting time) to surface. Shut bradenhead valve and attempt to obtain a squeeze pressure and W.O.C.

21. Trip in the hole with bit and scraper and drill out cement and pressure test casing. Re-squeeze leaks if necessary until a desirable squeeze pressure can be obtained.

22. Trip in the hole with retrieving head for R.B.P., circulate sand off of R.B.P. and trip out of hole with plug.

23. Trip in the hole with casing and tag casing backoff. Circulate the top of the back off clean with 2% KCL water with or without PKR. fluid (depending if production casing is to be cemented to isolate lower production zones). This will be determined from previous CBL run. Tie back onto production casing and pressure test casing.

24. Nipple down B.O.P.'s and tubing head, and set slips and make cut off. Install tubing head and B.O.P.'s and pressure test.

25. Trip in the hole with retrieving head for R.B.P. circulate sand off of R.B.P. with 2% KCL and trip out of hole with plug.