

## PLUGGING SPECIFICATIONS

### SUBJECT WELL (2 of 2)

Cook N 1  
SW SE Sec.25-T146N-R93W  
Dunn County, ND  
Well File No. 9397

### INTRODUCTION

The objective of this project is to plug the above referenced well, in compliance with requirements of Chapter 43-02-03 of the North Dakota Administrative Code.

### WELL DATA

9 5/8" surface casing @ 4397',  
5 1/2" intermediate casing @ 13500',  
2 7/8" L-80 tubing with Arrowset 1-X packer set at 5272'  
Gross Perfs – 5461-5521'  
CIBP set at 6000' with 2 sx cement on top

Formation tops needing plugs–  
Perfs at 5461-5521' will need to be squeezed  
25 sx balanced plug across 4450' (surface shoe plug)  
Surface plug circulated inside and out of the casing at 60'

### SPECIFICATIONS

- A. The contractor must be prepared to, and shall, control any blow/flow from the well in order to minimize surface damage and to limit liabilities.
- B. Contractor shall arrange for all tools, equipment, products, fluids and any other items required to properly plug this well. Contractor is responsible for disposal of all fluids.
- C. Once plugging procedures begin, these specifications are subject to change with approval of the NDIC Oil & Gas Division field inspector if down-hole conditions warrant.
- D. Plugging Procedure:

Note: All cement must be API class G or Premium, 15.8 ppg.

1. Test deadmen anchors, MIRU, make sure well is dead, unflange wellhead, NU BOPs. Pull tubing and TOH with packer
2. Run bit and scraper.

3. Tag CIBP at 6000'
  4. RIH set CICR at 5250'
  5. Roll hole with clean heavy produced water, pressure test 1000# for 15 minutes.
  6. Mix and pump 100 sx cement, 90 sx through the CICR, if it does not pressure up, pump to clear perfs and pump up to 100 more sx of cement, sting out, spot at least 10 sx on CICR
  7. TOH to 4450' and set 25 sx balance plug across surface casing shoe
  8. Perf and spot a surface plug at 60' both inside and outside of the 5 1/2" intermediate casing.
  9. Cut off wellhead 4' below plow depth and weld on cap with ND File # 9397.
  10. Dig up and pull out dead men.
  11. File form 7 plugging report upon completion of plugging.
- E. Certain information from NDIC files concerning the well is represented in the WELL DATA paragraph. The information represents, to the best of the Commission's knowledge, the well bore and well site conditions of the well to be plugged. Actual conditions may be different. The complete well file may be examined at the Bismarck office of the NDIC Oil & Gas Division, 1016 East Calgary Avenue, Bismarck, ND.
- F. Contractor shall notify the Commission 48 hours before commencing the plugging operations.
- G. Contractor guarantees, against defects and workmanship, all work performed under the contract for a period of one year from the date of the Commission's final acceptance of the plugging. Contractor shall bear the entire cost and expense of all repairs that may, from any imperfection in work or material, be necessary within that time. Contractor shall not be liable for equipment, material, or workmanship supplied by the Commission.