

NORTHWEST PRODUCTION CORPORATION  
Operations Plan - Jicarilla 123 C #24

- I. Location: 1630'N, 1525'E, Section 7, T-25-N, R-4-W, Rio Arriba County, NM  
Field: So. Blanco Pictured Cliffs Elevation: 6946'GL
- II. Geology:
- A. Surface Formation: San Jose
- Sub-surface Formation Tops:
- |           |       |                 |       |
|-----------|-------|-----------------|-------|
| Ojo Alamo | 2780' | Pictured Cliffs | 3325' |
| Kirtland  | 2965' | Lewis           | 3405' |
| Fruitland | 3140' | Total Depth     | 3445' |
- B. Logging Program: Induction Electric and Gamma Ray Density at TD.
- C. Coring: none
- D. Testing: none
- III. Drilling:
- A. Anticipated Starting Date and Duration of the Project:
- 1977 Drilling Program - approximately 4 days to complete.
- B. Circulating Medium: Treated water and a low solids gel base mud will be used from surface to TD.
- IV. Materials:
- A. Casing Program:
- | <u>Hole Size</u> | <u>Depth</u> | <u>Csg. Size</u> | <u>Wt. &amp; Grade</u> |
|------------------|--------------|------------------|------------------------|
| 12 1/4"          | 120'         | 8 5/8"           | 24.0# K-55             |
| 6 3/4"           | 3445'        | 2 7/8"           | 6.4# K-55              |
- B. Float Equipment: 8 5/8" surface casing - cement guide shoe.
- 2 7/8" production casing - 10' shoe joint with notched collar for guide shoe and 2 7/8" latch down baffle on top. Two 3 1/16" balls and one 2 7/8" latch down plug.
- C. Tubing: none
- D. Wellhead Equipment: Larkin wellhead (fig. 75)
- V. Cementing:
- 8 5/8" surface casing - 90 sks. of Class "B" cement with 1/4# gel-flake per sack and 3% calcium chloride (106 cu.ft. of slurry, 100% excess to circulate to surface). WOC 12 hrs. Test casing wellhead and BOP to 600#/30 minutes.
- 2 7/8" production - 55 sks. 65/35 Class "B" Poz with 12% gel and 15.52 gallons water per sack followed by 50 sks. Class "B" neat cement (203 cu.ft. slurry, 50% excess to cover Ojo Alamo). Run temperature survey after 12 hrs.