

**A. Completed as per verbal report to USGS engineer at Artesia:**

1. Ran 5" liner (18.5#) from 10,276' to 14,050', cemented with 500 sx. Class H w/1# flocele per sx. Top of liner tested to 5000#, after drilling circulated cement.
2. Perforated, acidized, tested and plugged as follows;
  - a. Perforated Lower Morrow at 13,982'-13,990' w/2 shots per ft. Acidized w/1000 gal. Tested water.
  - b. Set wireline bridge plug at 13,950'-13,951½'. Ran 30' bailer of cement.
  - c. Perforated Atoka at 12,773'-12,776', 12,932'-12,936' & 12,952'-12,956' w/13 holes. Acidized with 1000 gal. 15% HCl. Tested - trace gas, no oil or water.
  - d. Perforated Strawn Lime at 12,463'-12,469' with 4 perf. per ft. Acidized with 1000 gal. ME acid plus balls. Recovered gas cut salt water.
  - e. Packer was set at 11,012' from datum before above tests. 1.81" plug set in nipple on Guiberson Uni VI pkr. Pressured up to 5000#.
  - f. Perforated 10,208½'-10,212½' & 10,421½'-10,426½' by GR w/4 perf. per foot. Swab tested.
    - (1) Acidized with 3000 gal. retarded 20% acid. Tested.
    - (2) Fracture treatment with 16,500# sand and glass beads in total fluid of 24,990 gal. of pad, frac & flush. Tested sw with trace oil.

**B. To be abandoned as follows as per discussion with USGS engineer.**

1. Pull packer and plug at 11,012'; set 100' of cement or more at 12,600'-700', 12,300'-400' & 10,100'-200'.
2. If unable to pull packer, pump 150 sx. cement below packer, then set plug at 10,100'-300' by circulation.
3. Set 100' cement plug at 3425'-3535' at top of 7 5/8" liner by circulating plug to position.
4. Set 1500' cement plug in 10 3/4" casing from 500' to 2000' by circulating plug to position.
5. Set 20' cement plug in top of 10 3/4" casing & set 4'-4" marker in top.

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