Drilling Report Pubco Shipp #4 Page -6-

4/06 PBTD 11,600' - Thawed lines, resumed drilling out inside 2" tbg. Made 20' apparently pushing a plug down hole, no cuttings in returns. Plugged 3/4" tbg with large shale chunks up to 5/8" dia. SION.

- 4/07 11,600' PBTD Ran 1-3/4" tbg, leaving out 3/4"tbg. Washed out to 6120' with no difficulty, recovering very little shale. Hit bridge of shale and rubber @ 6120, plugged tubing. Started out, SION. Stuck temporarily @ 6120', pulled loose with 8000# pull.
- 4/08 11,600' PBTD Pulled out, found bttm 4 joints plugged w/shale & rubber. Reran w/1 25/32" solid-face, side-parted mill, hit bridge @ 6100', drilled up shale w/some rubber to 6112/70". Ran bit to 7741' without encountering bridge, reversed out AW & a little shale, SION.
- 4/09 11,600' PBTD. Ran 1 25/32" mill to top of seating nipple @ 11,333' circulated out small amount of rust scale and shale, SD due to high winds.
- 4/10 11,600' PBTD. Pulled 1-3/4" drill pipe. Attempted to unseat pkr, mandrel would not move. Ran steel ine, tagged top of fill @ 11,423' (tbg landed @ 11,469'). Pressured tbg to 1600#, could not unseat pkr. McCullough cut tbg @ 11,356'. Pulled pkr loose, started out of hole. SION.
- 4/11 11,600' PBTD. Pulled tbg & pkr. Reran tubing w/4 collars,
  4 jts wash pipe & 3-1/2" x 4-3/4" klustrite mill, SION.
- 4/12 11,600' PBTD. Displaced oil from hole with water. Tagged top of fill @ 11,418'. Milled to 11,425', shale, lime & metal cuttings in returns, no progress last 2 hours. Pulled 4 stands, SION.
- 4/13 11,600' PBTD. Finished pulling tbg. Rec 15' stab of 2-3/8" tbg, + 31.60' joint, plus 11.70' piece from bttm, + 2 6' sliver of casing. Started laying down 1-3/4" pipe.
- 4/14 11,600' PBTD Laid down 1-3/4" and 3/4" pipe. Ran 2-3/8" tbg & pkr. Set @ 11,000', swbd dry, SION.
- 4/15 11,600' PBTD. Ran swab, no fluid entry overnight. Shut down until 4/16/73.

4/16 11,600' PBTD. shut down - Prep to load hole