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CASING REPORT

LOGAN & CO. INC. 0111

BURLINGTON NORTHERN INC.
#13-3 HAYNES
NW SW SECTION 3, T8N, R48W
LOGAN COUNTY, COLORADO

11/2/78

Circ. hole until 2:30 PM 11/2/78. Layed dn. drill pipe. Started rng. casing @ 6:30 PM. Ran & cmt. 82 jts. of 4-1/2" 10.5#/ft., K-55, ST&C csg. Set @ 3319' KB. Used Halliburton guide shoe & differential fill float collar. Float collar @ 3276' KB. Preceded cmt. w/500 gal. of Mud-flush. Cmt. w/75 sx. 50/50 Pozmix "A" & Ideal Type II cmt., 2% gel, 10% salt. Followed plug w/20 bbls. of KCL wtr. Plug dn. @ 9:15 PM 11/2/78. Bumped plug w/2500 psi. Held ok. Good returns throughout job. Used 3 Halliburton centralizers as follows:

- 1 Middle of shoe jt.
- 1 top of second jt.
- 1 top of fourth jt.

Casing landed w/collar 1 foot above head. Rig released @ 10:30 PM 11/2/78.

Note: Threads on 8-5/8" surf. csg. collar were damaged by kelly while drilling so could not screw head on. Had to weld head on after casing cmt. Set csg. slips w/no problem, and secured well.

E. B. Maki
Petroleum Engineer
Bock & Associates
November 9, 1978