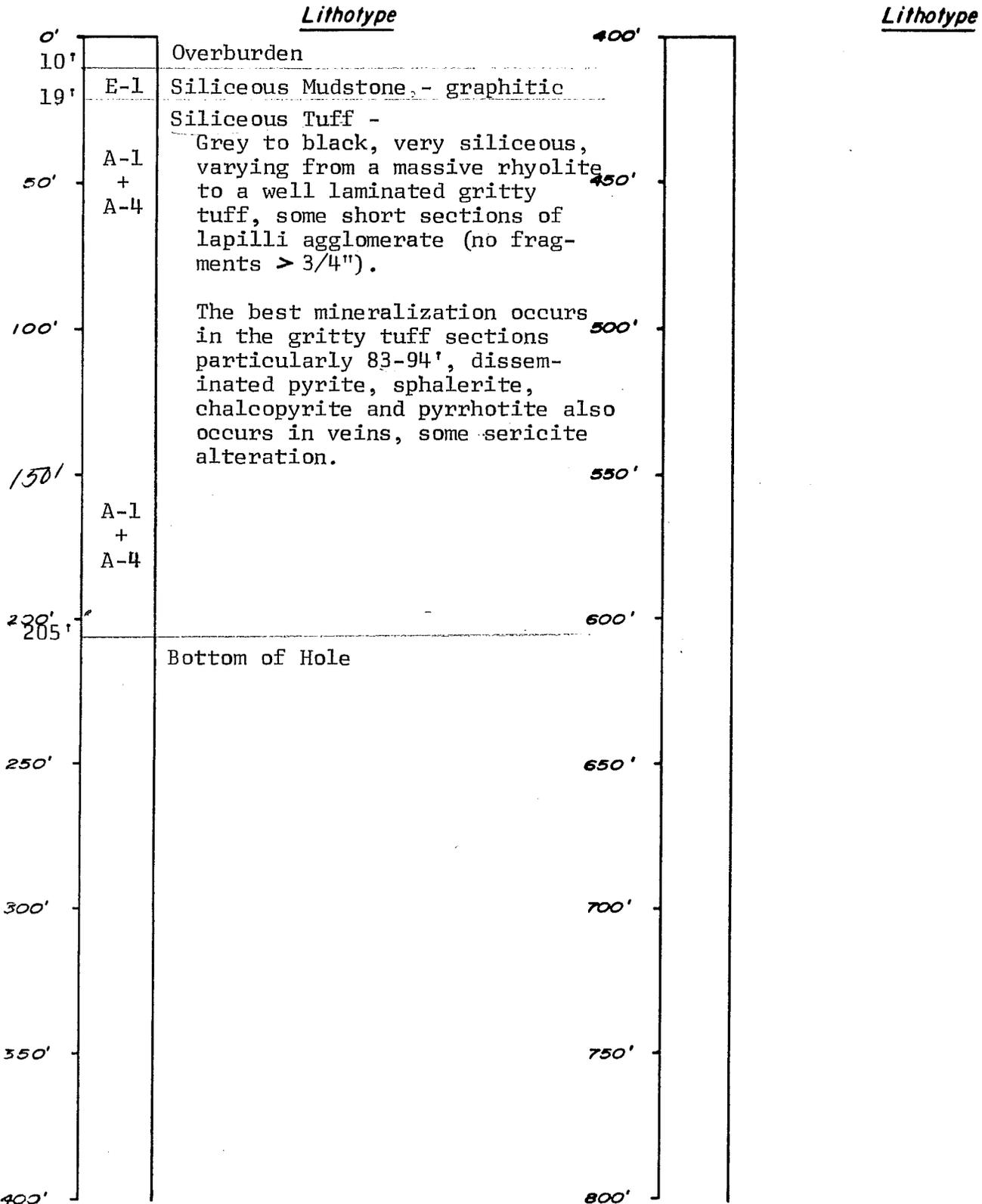


J.S. Cummings Inc.

LITHOLOGIC LOG

Project Ragged Mtn. Hole no. RM-7 Dip 45° Started 7/10/79 Elev. _____

Job no. 272 Township T9-R10 Coord. 3985N 1900W Direction 111° Completed 7/18/79



C. Woodard
Feb., 1982

RE-EVALUATION

RM-7

- 10 - 19 - graphitic siliceous siltstone, no sample in office but from TCW's description and drill log, this is probably a siliceous siltstone
- 19 -200 - in drill log the section from 19-200' is called a siliceous tuff, but this should instead be broken down into 3 different lithologic zones
- (A) 19 - 83, tuffaceous siliceous siltstone, core at 35' and 67' is too granular or sugary textured to be a siliceous tuff as indicated in log, core is fine grained, layered, sugary, or granular, and somewhat megascopically banded, contains minor fine white disseminated kaolin specks plus some fine visible qtz and feldspar crystals, no graphite, binocs done at 35' and 67'
- (B) 83 - 94, felsic lithic tuff with 2-5% sulphide, this section includes good pyrite, pyrrhotite, $\leq 1\%$ sphalerite and trace chalcopryrite mineralization, assays done from 83-93' indicate best mineralization is from 89.8-91.8', 3.33% S, 1.40% Zn, .025 Cu; the tuff consists of sub-rounded to rounded grit and small lapilli sized all grey felsic volcanic rock frags, (welded tuff or rhyolite?), in a black chlorite-sericite matrix
- (C) 94 -200, layered and welded granular felsic tuff, megascopically banded light (almost white) and darker grey layers, darker layers contain fine equa-granular weakly welded grains, probably somewhat waterlain as they still have a somewhat sugary texture, light colored layers (see core at 144') are coarser grained and clearly more pyroclastic in nature, grains are equa-granular but much more welded than darker layers, light layers are welded (granular) felsic tuff and dark layers are weakly welded fine granular felsic tuff, binocs done at 123' and 144'

J. S. Cummings, Inc.

DDH RM-7 - (Assays for Portion of Hole)

| <u>DEPTH (FEET)</u> <u>FROM COLLAR</u> | <u>% Zn</u> | <u>% Cu</u> | <u>% Pb</u> | <u>Oz/Ag</u> | <u>Oz/Au</u> | <u>S</u> |
|---|-------------|-------------|-------------|--------------|--------------|----------|
| 83.0 - 85.8 | .70 | .006 | | .3 | None | 1.47 |
| 85.8 - 87.8 | Trace | .006 | | None | None | 1.47 |
| 87.8 - 89.8 | .20 | .012 | | None | None | 1.43 |
| 89.8 - 91.8 | 1.40 | .025 | | None | None | 3.33 |
| 91.8 - 93.8 | Trace | .012 | | None | None | 1.62 |

10.2' of 3.7% S
8.8' of 4% S + .6%

1.88 S
 0.6 Zn
 8.8 / 10'

Length of Hole: 205 feet

19.9'
 0.25 S
 0.1
 3% S