10 OCT 85  9/1020 Stope 1200 Level

11 OCT 85  1300 UCP ↓ 1200 Level
Drilled and fired another raise round. Got a batch of chips of ore from 820 Pillar. Hope they contain some Yeatmannite. I seem to be getting the cold or flu which is affecting everyone.

14 OCT 85  1300 UCP ↓ 1200 Level
Drilled and fired another raise round. Steve Yaneckel drilled some up-holes and fired the first row of holes around the raise.

15 OCT 85
Stayed home nursing a cold.
16 Oct 85 1300 U.C.P. ↓ 1200 Level
Steve fired 3 rows around the raise. We were supposed to drill another round from the top of the muck pile. However, we found six misholes and had to reload them. We could not fire 'til 3 PM so we went to 1020 stope to help Norm Farley on a track job.

17 Oct 85 1300 U.C.P. ↓ 1200 Level
Scaled ½ Bolted. 3 bolts. Drilled a round of uppers around the raise and fired. 150' and two bags of anfo.

18 Oct 85 1300 U.C.P. ↓ 1200 Level
Had to get more ½" cable for the slusher. Mucked out the round we fired yesterday. Scaled and bolted. 3 bolts. Drilled and fired a strip on the footwall to give a flat face for a drift round.
21 Oct 85  1300 U.C.P. 1/1200 Lev.
Mucked out ore from the last strip round. Drilled & fired a seven foot drift round. Still in ore. I am trying to get far enough west to drive a raise up to 1300 X-cut. Steve slushed and trammed 18 cars.

22 Oct 85  1300 U.C.P.
Slushed out the last drift round. The surveyor came in and measured our progress. He figures we have 14' to go. Drilled some test holes and drilled 80' on the next drift round.

23 Oct 85  1300 U.C.P.
Finished drilling the drift round. Had to turn the drift to the south. The surveyor should have come in to give me a line before I started the raise. Fired at 3 P.M. 80 lbs. Atlas.
24 Oct 85  1300 U.C.P. 1200 Level
Mucked out last round. Pull cable came out of slusher drum. Had to add cable and scrounge an Allen wrench. Drilled most of the next drift round. It is in hard green rock which has large cracks in it. This causes many problems. Had to get a new drill.

25 Oct 85  1300 U.C.P.
Finished drift round. Had to use a blowpipe to clean out the holes. Scaled and bolted. 4 bolts. Drilled a strip on the south rib. Fixed strip & drift round. 85 lbs Atlas.

28 Oct 85  1300 U.C.P.
Mucked out the last round. Drilled test holes for the surveyor. He is trying to figure out how far I have to go to hit a drift on 1200 level. Drilled half of the next drift round. Got some mixed sulphides in quartz.
29 Oct 85 1300 u.c.p. 1 1200 level
Finished the drift round and fired. 100' and 75 lbs Atlas.
Drilled a strip hole in the floor of the drift and set up a Steel Rack.

30 Oct 85 1300 u.c.p.
Mucked out the previous round.
Drilled a test hole for the surveyor.
Drilled 140' on the next drift round. Have to turn the drift back to the right.

31 Oct 85 1300 u.c.p.
Drilled an extra row of strip holes on the right side of the drift round. Fired. 90 lbs Atlas.
Repaired some bad track near the chute on 1300 level.
This development work paid $8.92 per hour bonus.

1200 x-cut 1 1200 level
1 Nov 85  1300 U.C.P.  1200 Level
Mucked out the last drift round. Drilled a test hole. Discovered that the drift has gone far enough. Drilled and fired a raise round. It should break thru to 1300 X-cut on 1200 level.

4 Nov 85  DDH 492  1750 Level
Worked on getting air & water for the drill site. Had to re-activate the air & water pipes into the North ore body shaft station on 1850 level. Was up and down the main shaft all day to get the necessary parts together. Had Bob Bihn for a helper. His first day back after a long period in the Western Mines.

1150 Level after finish of 1750 fragment near the 2390 fault which is east of the 1650 change on 1650 level.
5 Nov 85  DDH 492  1750 Level

Strung out water and air hoses from 1850 level to the drill site on 1750. Set up the column and mounted the drill. The ore above the level was mined out years ago. An opening thru the fill was made with steel beams and steel plates. Ground movement has bent the beams into interesting shapes. The column had to be set up under a beam.

[Diagram of fill and ore]

Old lagging above beams to hold loose hanging wall rock.

1750 Level

Looking North

Got 2 samples of ore from a fragment near the zero fault north-east of the refuge chamber on 1850 level.
6 Nov 85 DDH 492 1750 Level
Finished set-up and drilled 16'. White rock. The direction is 50° South of H.O.H. #18. Vertical angle is zero. Got a pyrite specimen from 2700 N. Area.

7 Nov 85 DDH 492
Drilled from 16' to 36'. 16-33.5 white; 33.5-36 ore. The white rock is crumbly, causing bit plugs and core loss. An air hose burst in the N.O.B. shaft. Had to get a new one from the shop. Got more pyrite xls from 2700 N. Area.

8 Nov 85 DDH 492
Worked on powder shipment until 10:30 AM. Drilled from 36' to 51'. 36-49.5 shear zone with rock and lean ore; 49.5-51 massive ore. Got some pyrite xls from 2700 N.
11 NOV 85  DDH 492  1750 LEVEL
DRILLED FROM 51' TO 78'.  51 - 55
ORE; 55 - 58 WHITE; 58 - 62 LEAN
ORE AND CALCITE; 62 - 78 WHITE.
SET UP ROD PULLER. GOT 2
CALCITE XL PIECES AND 2 PYRITE
XL PIECES FROM THE POCKET AT
2700 N.

12 NOV 85  DDH 492
DRILLED FROM 78' TO 118'. ALL
WHITE CUTTINGS. REPLACED TWO OF
THE OLD WATER HOSES IN THE N.O.B.
SHAFT WITH NEW WIRE WRAPPED HOSES.
TURNED THE DRILL 25° NORTH FOR
DDH 493. GOT MORE CALCITE AND
PYRITE XL'S FROM 2700 N. AREA.

13 NOV 85  DDH 493  1750 LEVEL
DRILLED 53'. 0 - 46.5 WHITE; 46.5 -
53 LEAN ORE.
14 Nov 85  DDH 493  1750 Level
Drilled from 53' to 78'. 53 - 60.5
Good ore; 60.5 - 65 Lean ore;
65 - 71.6 White; 71.6 - 73 ore;
73 - 75 White; 75 - 78 Lean ore.
Numerous bit plugs 65' - 78'. Got a
piece of ore from 2700 N. area
showing Hydrozincite.

15 Nov 85  DDH 493
Drilled from 78 to 100. 78 - 80.5
Lean ore; 80.5 - 83 ore; 83 - 87
Pyroxene zone; 87 - 100 Franklin
marble with disseminated graphite.
Got a few more calcite & pyrite xls
from 2700 N. area.

18 Nov 85  DDH 493
Drilled from 100 - 139. 100 - 138 White;
138 - 139 Quartz. Hole finished.
Bought some willemite-fluorite
specimens from Steve Yanisko Jr.
1300 U.C.P. \[ 1200 Level \]
19 Nov 85 DDH 494 1750 Level
Reset drill & Rod Puller to +27° and collared new hole.
Drilled 40'. All white cuttings.

20 Nov 85 DDH 494
Drilled from 40' to 75'. All white. Scaled loose near the pocket at 2700 N. To no avail.

21 Nov 85 DDH 494
Drilled from 75' to 105'. All white. The hole apparently passed over the top of the ore. HDH #18 probably did also.

22 Nov 85 DDH 494 & 495
Drilled from 105' to 130. All white. Turned drill back to DDH 492 and started a new hole at +27°. Drilled 10' of white rock.
25 Nov 85 DDH 495 1750 Level
Drilled from 10' to 60'. All white. Cored 40-60. Numerous bit plugs.

26 Nov 85 DDH 495
Drilled from 60' to 87'. All white rock (non-fluorescent). Walked down to 1850 at lunch time. Looked at a raise round that was just fired in #1 stop. A good showing of ore but no specimens. Got some chips from a disseminated band of Norbergite at the north end of the E.V. drift.

27 Nov 85 DDH 495
Drilled from 87' to 115'. All white rock - non-fluorescent except 103 - 105.6 fluoresced red. Scaled loose in the E.V. drift.
2 DEC 85  1570 E. STOPE 1200 LEVEL
THE STOPE WAS JUST FILLED. PICKED UP FILL HOSES, CHUTE TROUGH AND 2 PUMPS AND TOOK THEM TO THE STATION. DRILLED AND FIRED A RAISE ROUND. 135' AND 60 LBS. ATLAS.

3 DEC 85  1570 E. STOPE
DRILLED AND FIRED A 7' RAISE ROUND AND A STRIP. 165' AND 70 LBS. ATLAS POWERMAX 140.

4 DEC 85  1570 E. STOPE
DRILLED HOLES AROUND THE RAISE 250'. USED A COME-ALONG TO REAIL AN ORE CAR THAT BOB Bihn TIPPED OVER INTO THE ORE PASS. THERE ARE MANY SECONDARY WILLEMITE VEINS IN 1570 E. GOT SOME SAMPLES.
5 DEC 85 DDH 496 1750 LEVEL
MOVED THE DRILL ABOUT 30' NORTH
TO 2365 X-CUT. SET UP TO DRILL
EAST AT 400'. DRILLED 31'.
A LITTLE ORE AND SOME HEMATITE
AT THE CONTACT. THE REST WAS
WHITE CUTTINGS.

6 DEC 85 DDH 496
DRILLED FROM 31-66. ALL WHITE.
SET UP THE ROD PULLER. CAME UP
TO THE MINE OFFICE AT NOON FOR
MINE RESCUE TRAINING.

9 DEC 85 DDH 496
CHANGED THE SCRAPP BOX ON 1920 LEVEL.
DRILLED FROM 66-103. SMALL PIECE
OF LEAN ORE 93-94.5. ALL THE REST
WAS WHITE.
10 DEC 85 DDH 496 1750 LEVEL
DRILLED FROM 103-131, 103-103.5
WHITE (FL. RED); 103.5-113 MEDIUM
ORE; 113-126 WHITE ROCK (FL. RED);
126-131 WHITE ROCK (NON FL.)
Svecz said the old geology
.records describe large pockets
.in the east vein above 1750 level.
Maybe similar to small pockets
.at 2700 N.

11 DEC 85 DDH 496
DRILLED FROM 131-135. ALL WHITE.
Had to shut down at 8:30 and
go to 1300 u.c.p., as Steve Yanekko
didn't show up. Ran the slusher.

12 DEC 85 1620 U.C.P. 1600 LEVEL
Scaled loose and bolted. 26 bolts.
Took a close look at the area
where I once got many brandtite
specimens. Found nothing worth
keeping.
13 DEC 85  1300 U.C.P.  ⅓ 1200 Level
Drilled pin holes in the South Rib. Put in one split set bolt. Ran the slusher (final clean out) while Steve trammed. 30 CAFs. Drilled and fired 5 "pop" holes in the South Rib. Took a look at 1570 e. Scaled a large slab off a slip. Exposed some pockets of ¼" willemite xls with pink globs of rhodochrosite. Was not able to get any off.

16 DEC 85  1300 U.C.P.
Bolted the South Rib. Six bolts. Slushed out all the ore and finished the hand mucking. Slushed off the top of a pile of rock to make room for roof bolting in the footwall area. Got some small gypsum xls.
17 DEC 85  1300 U.C.P.  ↓ 1200 LEVEL
Put up 3 rings of crib. Had to dig out a bent piece. Had to put in spacers to bend the crib away from the north rib and towards the footwall. Wasted time waiting for the shop to make the spacers. Helped surveyors measure the pillar. Got some molybdenite-polylite from 1300 x-cut, 1200 level.

18 DEC 85  1300 U.C.P.
Put up more cribbing. Moved the slusher to the limit of the power cable. Drilled pin holes for a fill fence. Moved tools and steels to a rack on the footwall.

17 JAN 85  1340 LEVEL
Arrived from 60.10 88.4 ft. Creek rock and very hard marble to 2500 ft. Smoothed tops.
19 Dec 85 DDH 496 1750 Level
Drilled from 135' to 167'. All White Cuttings (non fluorescent).
Hit hard rock at 167' and the drill stalled. Stopped on 1400 level at 7 am to set up a discharge pump for hydraulic fill water under 1380 chute.
Found out later that a poor job of covering and sealing a manway in the pillar allowed all the fill water to drain to 1300 level.

20 Dec 85 935 Sub Drift 340 Level
Drilled a strip around 4 drift. 120'. Mucked and trammed. 12 cars.
Fired strip round. 2 bags ANFO.
Got some 340 wollastonite.
23 DEC 85 935 SUB DRIFT 340 LEV.

USED THE SLUSHER TO REARRANGE
THE TOP OF THE MUCK PILE. SCALED
AND BOLTED. 7 BOLTS. DRILLED
THE TOP TWO ROWS OF THE NEXT
BENCH. 110'. MY BUDDY HAD TO
LEAVE AT 2 PM. WENT DOWN TO
1100 LEVEL THEN AND HELPED FRED
JONES CHANGE THE GREASE BARREL
FOR THE CRUSHER. WENT TO THE
340 WOLLASTONITE AREA AT LUNCH
TIME AND FIRED A HOLE. IT DID
NOT BREAK.

26 DEC 85 935 SUB DRIFT
SLUSHED AND TRAammed. 58 CARS.
SET UP TO DRILL THE NEXT DRIFT
ROUND. RE-FIRED THE HOLE IN THE
WOLLASTONITE AREA. STILL DID NOT
BREAK BUT THE DRIFT WALL IS NOW
CRACKED. SCALED OFF TWO PIECES.
27 DEC 85 935 SUB DRIFT 340 LEVEL
DRILLED AND FIRED A NINE FOOT DRIFT
ROUND. 200' AND 125 POUNDS ANFO.

30 DEC 85 DDH 497 1750 LEVEL
DRILLED FROM 0' TO 54'. 0-4 ORE;
4-54 WHITE. THE ROD PULLER
INTERFERES WITH THE DRILL. IT HAS
TO BE SWUNG OUT OF THE WAY
WHILE DRILLING. TO PULL RODS THE
DRILL HAS TO BE DROPPED.
Snyder said that the round I fired
on Friday broke good.

31 DEC 85 DDH 497 & 1020E. ST.
DRILLED FROM 54' TO 61.5'. 54-57
WHITE; 57-61.5 ORE. DRIVE NUT IN
THE DRILL FAILED AT 61.5'. SENT IT
UP TO THE SHOP. WENT TO 1020 EAST
ON 1200 LEVEL. SET UP A DRILL AND
STARTED A RAISE ROUND.
2 Jan 86  1020 E. Stope 1200 Level
Drilled a breaking raise in the South End. 1020 Stope used to mine the west vein and east branch as one Stope. Now that the connection between the two has moved south of 1020, it has been split into two stopes. There is too much barren rock between the veins. Got some micros from 1570 E.

3 Jan 86  1020 E. Stope
Reamed the two center holes in the burn and drilled a slot around the breaking raise. Removed a rock bolt in a drift near 1020 and scaled down a piece of loose. Found some pale xls in it. Maybe apatite. Fl. pale orange.
6 JAN 86 DDH 497 1750 LEVEL
Picked up repaired drill in the shop. Set up and drilled from 61.5' to 78.5'. All ore. Numerous bit plugs.

7 JAN 86 DDH 497
Drilled from 78.5' to 100'. 78.5-80 ore. 80-100 white rock. Took down the drill and moved about 50' north. Set up the column for DDH 498.

8 JAN 86 DDH 498 1750 LEVEL
Mounted drill on column and set 4 to -27.5°. Set azimuth for 15° south of the beam. The column is dropped under, added an air & water hose. Drilled from 0' to 20'. 0-3 ore; 3-20 white.
9 JAN 86
DDH 498
1750 LEVEL
DRILLED FROM 20' - 65', ALL WHITE.
HAD TO QUIT AT 2:30 DUE TO FIRE
DRILL.

10 JAN 86
DDH 498
DRILLED FROM 65' TO 110', ALL WHITE.
LOST AN HOUR DUE TO LOW WATER
PRESSURE. RUSMAN GAVE ME A
BRANDTITE SPECIMEN FROM 1660 P.

13 JAN 86
DDH 498
DRILLED FROM 110' TO 132', 110-125
WHITE; 125-132 ORE. HIT A TEST
HOLE WHICH HAD BEEN DRILLED FROM
THE STOPE. LOST WATER AND HAD TO
STOP.

14 JAN 86
935 SUB DRIFT 340 LEVEL
SCALED AND BOLTED. 2 BOLTS. DRILLED
THE TOP HOLES FOR THE NEXT ROUND.
SLUSHED AND TRAMMED. 12 CARS. USED
A SLEDGE HAMMER, CHISEL AND WEDGE
PINS TO GET SOME NICE WALLASTONITE.
15 JAn 86  1010 STOPE  430 LEVEL
This stope is now being mined by the top slice method. Drilled and fired a strip in the footwall to make room for the slusher, and a five foot drift round going south under the fill. Got a piece of muddy ore with a secondary calcite vein. Exposing it to a black-light revealed many clear willemites.

16 JAn 86  1010 STOPE
Mucked out the footwall strip by hand. Built a safety cover over the ore pass raise. Hoisted the old raise cover out of the stope. Dropped the slusher into the stope. Scaled and bolted. 10 bolts. Drilled out another piece of the calcite vein.
17 Jan 86 1010 Stope 430 Level
Finished setting up the slusher and lowered the slusher bucket from 1020 X-cut into the stopes. Mucked out the last round. 10 new cars. Drilled and fired a 7' round. 120' and 50 lbs Atlas Powder.

20 Jan 86 1010 Stope
Mucked out the last round. 17 cars. Drilled and fired another 7' round, 115' and 50 lbs Atlas. Got some nice "nail head" calcites, from a mud pocket in the ore.

21 Jan 86 1010 Stope
Mucked out the last round. 7 cars. Drilled and fired another 7' round. 150' and 65 lbs Atlas. We have been leaving ore on the H/W because of the mud zone. Stripped some of it today. Got more calcites and one nice nodule of Chacophanite.