JAN 90 HAPPY NEW YEAR

WORK DONE BETWEEN 14 OCT 89 AND 11 NOV 89.

RON TIBBETTS CARRIED A BATTERY DOWN TO 1020 STOPE AND GOT THE LHD STARTED. IT IDLED OK BUT WOULD NOT RUN AT FULL SPEED. RON FIXED THE MURPHY SWITCH. WE TRIED DIGGING THRU THE FILL BUT THE CEMENT WAS TOO HARD.

WHEN AL CHUPA GOT HIS COMPRESSOR HOOKED UP TO THE SHAFT AIR PIPE WE TRIED USING 53'S TO BREAK THE CEMENT. DID NOT HAVE ENOUGH AIR PRESSURE TO DRILL. FOUND A BIG AIR LEAK ON 180 LEVEL AND SHUT OFF THE VALVE TO THAT PIPE. DISCOVERED BIG BUBBLES COMING UP THE SHAFT. TOOK OUT AN 8" PIPE SECTION BELOW 1200 LEVEL AND CAPPED THE SHAFT
AIR PIPE. DRILLS NOW WORKED OK.
However, the fill turned out to be so hard that we gave up on digging down to the tunnel on 1200 and changed our plan. We decided to concentrate our efforts on the manway tube. Tore out the top two sections of manway tube.
Rob Hauck cleaned mining gear out of 1020 E. Stope.
Ron Tibbets and me cleared out the lowest part of 1380 Pillar except for a slusher and bucket.
Later, with the help of Rob Hauck and Charlie Puzio, we carried all small stuff up to 1200 and used a come-along to drag the slusher on the middle level to the bottom of the footwall manway raise. Tied a piece of 1/2" wire rope to the slusher so we could drag it up the raise when the LHD came out.
OF 1020 STOPE. THE SLUSHER WAS UNDER WATER BY THE TIME I GOT IT OUT. REFER BACK TO 11 NOV 89 FOR THE CONTINUATION OF THIS PROCESS.

2 JAN 90  1200 LEVEL
USED WEDGE PINS TO GET MORE SPECIMENS FROM 1200 X-CUT. DICK, ELNA, AND RHEA HAUCK CAME TO 1200 LEVEL AND I GAVE THEM THE GRAND TOUR. MOVED DRILL, HOSES, STEELS, PINS ETC. TO THE 1300 PILLAR H/W MANWAY. WILL BE TAKING THEM UP TO 1100 LEVEL THRU 1300 PILLAR. BOB HAUCK GOT THE LHD RAMP UP TO 1100 YESTERDAY AND BROUGHT THE BUCKET DOWN TODAY.

3 JAN 90  1200 LEVEL
CARRIED TOOLS AND STEELS UP INTO 1300 PILLAR. SCALED LOOSE ROCK IN 1300 PILLAR H/W RAISE AND GOT TWO APATITE XLS. GAVE 1200 LEVEL A LAST
Going over with a scaling bar. Picked up three stray scraps from 1200 X-Cut. Etched one out with acid and it turned out to be a nice sphalerite xls piece. Went up to 1100 and put the bucket on the LHD.

View of 1200 X-Cut South Rib at intersection with Black ore H/W drift.

Green rock lined with narrow pegmatites parallel to foliation. #1 solidly filled with calcite. Acid etching revealed many nice sphalerite xls. #2 was 1/2 inch wide but opened up to about 1 1/2 inch pocket which contained many nice fluorite.
Octahedrons to 1/2 inch, pink in color. Also calcite xls. Pocket walls and crystals coated with apophyllite xls. Also produced a few nice sphalerites. #3 is a shear filled with 1/2 inches of fine grain epidote. #4 produced a calcite filled pocket lined with actinolite xls. #5 had a large pocket at the north rib in the back of the X-cut. Pocket was 3” x 15” and contained many fine calcite xls, apophyllite xls, and sphalerite xls with minor fluorite and unknowns - maybe barite.

4 Jan 90 700 and 1100 levels dismantled the caavo on 700 level and sent it up to the adit. Went to 1100 and did some housekeeping on station. Loaded a motor chassis and sent it up to the adit. Al’s compressor quit so we walked up. Checked out
1200 LEVEL. WATER IS ONE FOOT BELOW THE LEVEL IN THE OLD SHAFT AREA. PICKED UP ONE LAST PIECE FROM 1200 X-CUT. ROUGH CALCITE XLS COATED WITH APOAHILLITE. LEFT A FEW PIECES AS AN OFFERING TO THE GODS.

5 JAN 90  1100 LEVEL
CARRIED LAST TOOLS UP INTO 1300 PILLAR. COVERED H/W MANWAY PIPE AND SCALD LOOSE ON HANGING WALL. SENT AN ORE CAR, FLAT CAR, AND STATION CHARGER UP TO THE ADIT. USED LHD TO DRAG 3 ORE CARS OUT TO THE STATION. BROUGHT OUT THE OLD HOIST FROM THE TIMBER SLIDE AND SENT IT UP TO THE ADIT. RODE UP.
6 JAN 90  1100 LEVEL
WALKED DOWN TO 1100, SLOWLY, CHECKING VARIOUS LEVELS. FOUND 2 ROCKER DUMP CARS, 3 SIDE DUMP CARS, AND ONE UNUSUAL END DUMP CAR ON 800 LEVEL, SOUTH OF 935 STOPE. SAW A POSSIBLE POCKET IN GNEISS IN 740 X-CUT, 800 LEVEL. WORKED ON THE MAGNUSSONITE FIND IN 1020 STOPE AND WEDGED OFF SOME NICE PIECES. CHECKED OUT 1200 LEVEL AND FOUND WATER ONE INCH BELOW THE LEVEL AT THE OLD SHAFT OR E PASS.

7 JAN 90  500 LEVEL
TOOK A SHOVEL TO 700 X-CUT AND DUG A DRAINAGE DITCH TO GET RID OF WATER IN THE X-CUT AND THE EAST VEIN DRIFT. LOWERED THE WATER ABOUT SIX INCHES AND RON AND I WERE ABLE TO GET INTO THE EAST VEIN AND EXPLORE TO THE SOUTH END. SOMEDAY I HOPE TO GET THE WATER LOW ENOUGH TO CHECK OUT
THE BOTTOM OF THE MARSHALL SHAFT.
Saw many wondrous sights in the keel area including an antique oil can, ten pound rails, and large grains of Franklinite and pyroxene.

8 JAN 90 1100 LEVEL
Put five gallons of fuel in the LHD and used it to move two rocker dumps to the lunch room area. They will be loaded with gear from 1190 stope. Drove down the east vein and over to the west vein where I dug up fill to put in the bulkhead door south of the shaft station. Pulled two camelback cars out of the F/W drift, dumped their contents, and pushed them out to the station. Went back to 1220 X-cut, dumped the contents of a rocker dump, and pulled it out to the east vein. Started digging mud out of the drift to the fill raise. The fill in 1240 stope
SUBSIDED YESTERDAY, LEAVING A LARGE VOID ALONG THE H/W. THAT'S WHERE THE MUD IS GOING. HELPED BOB HAUCK SEND A ROCKER DUMP AND MOST OF A CAMEL-BACK UP TO THE ADIT. HAD TO TAKE THE DOORS OFF THE CAMEL-BACK TO PUT IT IN THE CAGE. WALKED DOWN TO 1200 AND SAW WATER IN THE X-CUT UNDER 1020 STOPE. CARRIED A PAIL OF MAGNUSSONITE UP ON THE CAGE. THE WATER IS ONE LADDER RUNG BELOW THE SHAFT STATION.

9 Jan 90  1100 Level

WALKED DOWN TO 1100, STOPPING ON 600 TO EXPLORE. FOUND TWO CARD 3-TON CARS UNDER 1020 PILLAR CHUTE. ON 1100 FINISHED DIGGING OUT THE DRIFT SOUTH OF 1220 X-CUT.
10 JAN 90  1100 LEVEL
Pulled two Camel-back cars out of the drift South of 1230 X-Cut. Pushed two Rocker Dumps out to the station. Helped Bob Hauck dismantle a 3-Boom Jumbo in 1190 Stope and took most of it out to the station. Tried to get the third Camel-back out of the Rock Raise Drift, South of 1230 X-Cut, but it is firmly stuck in mud. I was afraid to drive the LHD over the submerged bridge to try breaking it loose. Noticed that the fill along the H/W of 1280 Stope has subsided.

11 JAN 90  1100 LEVEL
Used the LHD to carry the rest of the Jumbo-Drill out to the station. Pushed a Rocker Dump and two Camel-backs out to the station. The LHD shredded its alternator belt and ran out of fuel at the same time.
CHECKED THE WATER ON 1200 LEVEL. IT IS ONE FOOT DEEP UNDER 1020 STOPE.

12 JAN 90  1100 LEVEL
SENT THREE ROCKER DUMPS, ONE CAMEL-BACK AND ONE FLATCAR UP TO THE ADIT. SENT ALL THE JUMBO PARTS UP TO 340 LEVEL.

13 JAN 90  1100 LEVEL
NO HOIST TODAY. WALKED DOWN TO 1100 AND DUG OUT PART OF THE MUCKPILE IN 1020 STOPE. WAS LOOKING FOR SPECIMENS IN THE F/U ZINCITE BAND. NADA. EXPLORED 900 LEVEL ON THE WAY UP. FOUND SEVEN ROCKER DUMPS.

14 JAN 90  1100 LEVEL
SENT A CAMEL-BACK CAR AND TWO SETS OF CAR DOORS UP TO THE ADIT. SENT THREE LOADS OF SMALL STUFF
To 340 level, had a problem with the LHD. Took a long time to get the fuel system primed. Had to send the battery up to be charged. Got LHD started at 3 AM. Took off the bucket and sent it up to the adit. Lucille Tibbetts and Elva Hauck came down to 1100 today and got the grand tour.

15 Jan 90 1100 Level
Rode down to 1100 with Bob Winters, Al Bliss and Joe Kaiser. Set the cage on a beam below 1100 level. Changed cable over to the LHD carrier. Loaded the LHD on the carrier and sent it up the shaft. The hoist pulled it up about 80' and Al would have to wait for the compressor to recharge the reservoir. Showed the crew around 1100 and we collected in 780 pillar and
1190 Store. Al sent the carrier back down and we switched over to the cage and rode up. Sure was great to see the LHD in the adit but I'll miss it underground. Got $555 mineral dividend.

17 Jan 90 1100 Level
Went to 1100 with Dick & Elna Hauck. We collected Friedelite in 780 Pillar and Erythrite in 1300 Pillar. I went to 740 Pillar, threw a pipe over the f/w raise, explored the pillar and got a phosphorescent Willemite.

18 Jan 90 Adit
Worked for Flashframe Productions on a rock video. Got a $300 mineral dividend.
19 JAN 90  ADIT
   Brought drills, steels, hoses, etc. up from 180 level. Set up in the cap
   magazine and drilled most of a drift round.

21 JAN 90  ADIT AND 500 LEVEL
   Finished the drift round in the cap magazine. Went to 500 level and
   got an air slusher and bucket out of 1100 pillar. We plan to use
   this slusher on 430 level to get the LHD out of 935 stope.

22 JAN 90  1100 LEVEL
   Went to 1020 stope to pick up my tools. Wound up scaling loose all day. Found
   a vein of fluorescent sphalerite in the north end. Found secondary frank-
   linite xls on a brecciated slip near the h/w in the central area of the
   stope. The water is about two feet
Below the top of the X-cut on 1200.

23 JAN 90  1100 LEVEL
Scaled loose in 1020 stope and got more Franklinite XLS. Found an old raise going down into a crown pillar north of 1120 chute. Tried to get into the raise but will need an axe. Scaled loose in 1300 pillar to no avail. Carried a drill from 1300 pillar up to 1100 level.

24 JAN 90  500 LEVEL
The video crew worked again today, taping the band. Al did not come in so I walked down to 500 and worked on improving drainage in the Marshall shaft area. There appears to be a level off the Marshall shaft about 80' above 500 level. Getting up there will be a problem.
25 JAN 90  1100 LEVEL

Scaled loose in 1300 Pillar to no avail. Worked on carrying drilling gear up to 1100 Level. While working in 1300 Pillar I heard fill moving in 1320 Stope. Along with the rumble of rocks there was a strange swishing sound. Later, while scaling loose in the old shaft area, I heard a heavy bang, like a large rock burst. Al Chupa heard it in the adit and sent Dick Hauck down to check on me.

26 JAN 90  800-1100

Overnight a big bang was heard by people living near the mine. They thought it was an earthquake or blasting in the mine. Me, Bob H., Dick H. and Gary VanHouten went down to 800 Level and examined each level for signs of a big rock burst or other problem.
Nothing was found except that the water, now about six feet deep on 1200 level, showed signs of a surge, as if a one foot wave had passed thru it. We went up to 340 level got two chain hoists hung one on 430 and one on 500 and sent the air slusher and accessories from 500 to 430. Blasters from Ramac were here today to check out the drift round. They plan on shooting it next Wednesday.

27 Jan 90 340-430-500
Walked down to 430 with Chet Leman-Ski and Rich Luzzi. Making two trips we moved the air slusher and accessories to the 935 stope area. Bob Hauck came down and helped on the second trip. Chet went up while Bob, Rich and I went to 500 to examine the
Marshall Shaft area. Ron Tibbetts came down and met us there. We walked up to 340, took a flatcar and cable come-along to the old shaft timber slide area and got the slide hoist. We had to dismantle and repair the come-along. Pushed the hoist laden car out to the station with much difficulty.

28 Jan 90  430 Level
Set up air and water pipes for the slusher. Removed excess pipes from steps going up to 935 stope. Recovered some useful items from the drop-down in 1020 top-slice pillar.

29 Jan 90  430 Level
Set slusher on its skids and drove it to the north end of 935 stope. Propped it in place and tore
Down the fence for the first step. Started slushing. Fill is very hard and will not move easily. Got a $300 mineral dividend. Dick told me the same one at the O.F. D. Said they heard a bang in Branchville Thursday night. So the tremor felt on Bridge Street might have been part of something more wide-spread than just the mine. H/W cracking.

30 Jan 90  1100 Level

Did more work on carrying- drilling gear out of 1300 Pillar. Went into 1020 stope to check the water. It is at the top of the x-cut under 1020. Got two more Franklinite micro xl pieces. Scaled loose in 740 Pillar. No keepers, worked on the Friedelite vein in 780 Pillar. Wedged off a big chunk of rock which freed up many big chunks
OF FRIEDELITE. MOSTLY MASSIVE WITH A FEW SMALL XTAL POCKETS. THE FILL AT THE H/W OF 780 PILLAR IS MOVING AGAIN AFTER ABOUT SIX WEEKS OF STABILITY. CRACKS IN THE PILLAR SEEM TO BE OPENING UP SLIGHTLY. LOOKED AT THE H/W END OF 1360 TRANSVERSE STOPE. THE FILL HAS DROPPED SO FAR THAT I COULD SEE WATER 100 FEET BELOW.

31 JAN 90 430 LEVEL
TORE DOWN THE FILL FENCES AT THE NORTH END OF 935 STOPE. BROKE UP SOME OF THE CEMENTED FILL WITH A PAVEMENT BREAKER.

1 FEB 90 430 LEVEL
SLUSHED FILL AND BROKE CEMENT WITH A PAVEMENT BREAKER. RAMP FOR EMCO ALMOST DONE.
2 FEB 90  430 -1100 LEVELS
FINISHED THE RAMP TO GET THE
EIMCO OUT OF 935 STOPE. WENT TO
1100 LEVEL AND BROUGHT THE EIMCO
CARRIER UP TO 430 LEVEL.

3 FEB 90  430 -700 LEVELS
SCALED LOOSE IN 1100 PILLAR ON 500
LEVEL. FOUND LOTS OF FLUORITE AND
GARNET IN THE BLACK ORE. WENT TO
THE MARSHALL SHAFT ON 500 AND BY
DRIVING IN 8" NAILS FOR HANDHOLDS GOT
UP ABOUT HALF WAY. WENT TO 1250
STOPE BELOW 700 LEVEL AND GOT A
STARTER FOR THE EIMCO IN 935 STOPE.

4 FEB 90  430 -500 LEVELS
SCALED LOOSE IN 1100 PILLAR ON 500
LEVEL AND SET ASIDE A NICE PILE OF
FLUORITE. WENT TO 1020 PILLAR ON
430 LEVEL AND SCALED DOWN SOME
RHODONITE. RON TIBBETTS GOT THE
Eimco running in 935 stope and I drove it down the ramp to 430 level.

6 Feb 90 500-700 levels
packed three pails of fluorite in 1100 pillar and carried one out to the station. Went to 700 level and checked out the raise going down to 1250 stope. It will need to be stripped to make it big enough for the Eimco. Scaled loose along the H/W at the south end of 1250 stope. Found a pocket that resembles the Greenockite pocket in 1680 stope, 4400 level.

7 Feb 90 700 level
picked up two gad bars on 430 and took them to 700 level. Used them to scale down large loose slabs in 1250 stope, mediocre specimens.
8 FEB 90  1100 LEVEL

Carried more drilling gear up from 1300 pillar. Scaled loose in 1020 stope. Worked about three hours getting down some large slabs. Got one Franklinite Xl specimen. The water is about five feet below the fill in 1020 stope.

Worked on Friedelite Vein in 780 pillar. Got many crystallized pieces. Fill at H/W of pillar shows more subsidence. Tired starting Elmaco on 430 level. Had to take the battery to the adit to be charged.

9 FEB 90  1100 LEVEL

Set up and drilled two strip holes in 1190 stope north chute. Chiselled more Friedelite off the rib in 780 pillar.
10 FEB 90  1100 LEVEL
Salvaged six 3" pipe patches from old air pipes. Scrounged water pipes and fittings on 1100 level and set up a water system in the old shaft area. A diamond drill hole in 1230x-cut is the water source. Using the strip holes I drilled yesterday resulted in dislodging about five tons of nice fluorescent ore.

11 FEB 90  1100 LEVEL
Went down into the crown pillar north of 1030 stope. It is in the east branch of the west vein. Found some pieces of loose on the H/W which contain rhodonite and gahnite. Washed off drift walls in the old shaft area. My cap lamp went dead so I came up at 1:00 A.M.
12 FEB 90   1100 LEVEL  18  TOO  05
REPAIRED TWO BAD LEAKS IN AIR LINE ON 1000 LEVEL. WATER FROM THE DIAMOND DRILL HOLE IN 1220 X-CUT ON 1100 LEVEL IS FEEDING UP TO 1000 LEVEL THRU THE PIPE IN 1190 RAISE. CHECKED OUT WATER LINE ON 1000. IT IS ALL OK AND THE WATER IS FEEDING INTO THE MAIN SHAFT WATER LINE. SET UP ON 1100 LEVEL AND DRILLED THREE MORE STRIP HOLES IN 1190 NORTH CHUTE. EXTENDED THE WATER SYSTEM TO THE OLD SHAFT. SCALED DOWN SOME BIG SLABS IN 1020 STOPE. THIS IS THE AREA WHERE I GOT SOME NICE RECRYSTALLIZE FRANKLINITES. THIS TIME THERE WERE OPEN VEINS BUT NO XTALS. WATER IS TWO FEET BELOW THE FILL.