

13 FEB 90 1100 LEVEL

SET UP A DRILL IN 1220 X-CUT AT THE REALGAR LOCATION. CARRIED THE REST OF THE DRILLING GEAR OUT OF 1300 PILLAR. WASHED OFF DRIFT WALLS IN THE OLD SHAFT AREA. EXPOSED MANY EPIDOTE VEINS AND A NICE PIECE OF ORE THAT IS ENCLOSED IN GREEN ROCK. BROUGHT UP TWO PAILS OF FRIEDELITE FROM 780 PILLAR. AT SOME TIME SINCE SUNDAY A LARGE PIECE OF LOOSE ROCK FELL AND IS PARTIALLY BLOCKING THE F/W ENTRANCE TO 780 PILLAR.

14 FEB 90 430 LEVEL

PREPARED 1020 AND 1060 PILLARS FOR SLUSHER REMOVAL. REMOVED ROLL CAGE FROM EIMCO, AIRED UP THE TIRES AND GOT IT STARTED. USED IT TO GET SLUSHER BUCKET OUT OF 1060 PILLAR.

15 FEB 90 430 LEVEL

HAD TO GET THE NEW BATTERY FROM THE ADIT IN ORDER TO START THE EIMCO. FILLED IN THE HOLE AT THE BULKHEAD DOOR AT THE STATION. USED THE EIMCO TO DRAG THE SLUSHER IN 1060 PILLAR TO THE BOTTOM OF THE MUD DUMP RAISE. PULLED THE SLUSHER AND BUCKET OUT OF 1030 PILLAR. SENT THEM UP TO THE ADIT. NEED A NEW FAN BELT FOR THE EIMCO BLOWER. WENT TO 700 LEVEL AND OFF-LOADED THE AIR HOIST. WE PLAN TO USE IT ON THE EIMCO IN 1250 STONE.

16 FEB 90 430 LEVEL

USED EIMCO TO BRING ROLL CAGE, TWO ORE BOULDERS, AND A SLUSHER BUCKET OUT TO THE STATION. SENT ALL THAT UP TO THE ADIT. CHANGED OVER AND SENT THE EIMCO UP TO THE ADIT.

17 FEB 90 1100 LEVEL

WALKED DOWN TO 430 LEVEL AND CHANGED BACK OVER TO THE CAGE. WENT TO 1100 LEVEL AND USED THE STRIP HOLES IN 1190 CHUTE RAISE TO DISLodge A LARGE AMOUNT OF GOOD FLUORESCENT ORE. SOME OF THE CHUNKS ARE VERY BIG. WASHED THE WALLS IN 1220X-CUT. CARRIED UP A PAIL OF FRIEDELITE FROM 780 PILLAR.

18 FEB 90 1100 LEVEL

SET UP A DRILL IN 1220X-CUT AND DRILLED FOUR STRIP HOLES AT THE REALGAR LOCATION. HAULED THE DRILL OVER TO 1190 STOPE AND DRILLED HOLES IN LARGE ORE CHUNKS. AL BLISS AND BOB WINTERS USED FEATHERS AND WEDGES TO BREAK THEM. DRILLED TWO HOLES IN THE BACK TO HANG A HOIST. CHARLIE PUZIO, PAT RODAMSKI, AND CHET LEMANSKI USED THE HOIST TO

LOAD CHUNKS ON A FLATCAR AND
TRAM THEM TO THE STATION. A LOT OF
NICE FLUORESCENT STUFF WENT UP
THE SHAFT. SCALED LOOSE IN 780 ALLAR
AND CHISELLED OUT FRIEDELITE SPECIMENS.
HUNG A CHAIN AT THE H/W DRIFT IN
800 STOPE AS AN EMERGENCY ESCAPE
ROUTE.

19 FEB 90 1100 LEVEL

THE TRAMMING CREW LOADED THE LAST
FOUR BLOCK HOLES AND PUSHED THEM TO
THE STATION. I DRILLED FIVE MORE
STRIP HOLES AT 1190 NORTH CHUTE.
EXTENDED MY WATER SYSTEM SOUTH
TO THE OLD SHAFT GRIZZLY AND
WASHED THE DRIFT WALLS IN THAT AREA.

20 FEB 90 340 LEVEL

EXTENDED AIR AND WATER PIPES SOUTH FROM 935 STOPE TOWARDS THE WOLLASTONITE AREA. HAD THE HELP OF CHET LEMANSKI AND STEVE KUITENS.

21 FEB 90 700 LEVEL

SET UP A JACK HAMMER AT THE RAISE INTO 1250 STOPE. WE HAVE TO STRIP THE RAISE TO GET THE EIMCO OUT. THE DRILL QUIT ON THE FIRST HOLE. CARRIED AN "83" OUT OF THE STOPE AND SET THAT UP. DRILLED THREE MORE HOLES AND THE THE AIR PRESSURE WENT LOW. TURNED OUT AL HAD A PROBLEM WITH HIS COMPRESSOR. CARRIED UP A PAIL OF ODDS AND ENDS FROM 1250. NOTICED THAT THERE ARE FRANKLINITE XTALS IN THE F/W.

23 FEB 90 1100 LEVEL

WALKED DOWN TO 1100 AND BACK UP.

FOUND A NEW WORKING PLACE ON 900 LEVEL. IT IS IN THE PILLAR WHICH WAS LEFT BETWEEN 1110 STOPE AND 1250 STOPE. FOUND A SLUSHER AND A BUCKET. THE SLUSHER IS HANGING ON A COME-ALONG. WENT INTO 1020 STOPE. THE WATER IS TEN FEET ABOVE THE FILL. WENT INTO 1570E. STOPE. WATER IS SIX FEET BELOW THE FILL. MOVED TOOLS AWAY FROM 1190 CHUTE RAISE. GOT A \$305 MINERAL DIVIDEND.

25 FEB 90 1100 LEVEL

USED THE STRIP HOLES AT 1190 CHUTE TO GET MORE ORE. TRIED THE STRIP HOLES AT THE REALGAR AREA AND GOT NOTHING. WENT INTO THE FLOOR PILLAR NORTH OF 1120 CHUTE TO BREAK UP CHUNKS OF RHODONITE. GOT NOTHING GREAT. SHOWED BOB WINTERS THE STALAGMITES IN 1120 SCRAM ON 1000 LEVEL.

26 FEB 90 700 LEVEL
DRILLED NINE STRIP HOLES AROUND
THE TOP OF 1250 MANWAY RAISE.

27 FEB 90 700 LEVEL
DRILLED MORE STRIP HOLES IN
1250 MANWAY RAISE. WASHED DOWN
THE RIBS IN THE EAST VEIN F/W
DRIFT. THE HAUCKS AND SOME TOURISTS
CAME TO 1250 STOPE AND DUG SOME
FRANKLINITE XLS OUT OF THE F/W.

28 FEB 90 700 LEVEL
FINISHED STRIP HOLES IN 1250
RAISE. CAME UP EARLY DUE TO THE
ONSET OF A HEAD COLD. GOT A
\$175. MINERAL DIVIDEND.

3 MAR 90 1100 LEVEL

DRILLED MORE HOLES IN 1220 X-CUT AT
REALGAR LOCATION. STILL NO LUCK.

DRILLED THREE HOLES IN THE OLD SHAFT
GRIZZLY. CRIS AUER DISMANTLED WATER
LINE TO 1570 E. STOPE. STARTED MOVING
PIPES TO W.V. F/W DRIFT SOUTH OF
1020 STOPE.

4 MAR 90 1100 LEVEL

DRILLED SIX STRIP HOLES IN 1190
CHUTE RAISE. USED THEM TO DISLODGE
A HEAP OF NICE CHUNKS OF ORE.

5 MAR 90 1100 LEVEL

EXTENDED THE WATER PIPE SOUTH FROM
1020 STOPE TO 920 X-CUT AND STARTED
WASHING THE RIBS. SAW A FEW POSSIBIL-
ITIES. SENT UP TWO LOADS OF ORE FROM
1190 CHUTE AREA.

6 MAR 90 1100 LEVEL

CONTINUED WASHING RIBS IN 920 X-CUT.
USED A HAMMER AND CHISEL TO GET
SOME WOLLASTONITE AND SOME GREEN,
BLOCKY X-TALS. DRILLED SIX MORE
STRIP HOLES AT 1190 CHUTE RAISE.
TRIED STRIP HOLES IN 1220 X-CUT AGAIN.
STILL NO LUCK.

7 MAR 90 1100 LEVEL

USED STRIP HOLES THAT I DRILLED
YESTERDAY TO GET SOME NICE, BIG
CHUNKS OF ORE. DID SOME WALL
WASHING IN THE NORTH SECTION OF
1190 STOPE. WENT DOWN THE SHAFT
BELOW 1100 AND STARTED WORKING
ON AN AIR LIFTER.

8 MAR 90 1100 LEVEL
FINISHED THE AIR LIFTER. HAD TO
DRAIN THE SHAFT WATER PIPE AND
CAP IT AT 1100 LEVEL. THE PIPE
BELOW 1100 WILL BE USED TO
FEED AIR TO THE LIFTER. WASHED
WALLS AND MUCK PILE IN 1190
STOPE. HAD TO WALK THE LADDERS
TODAY.

10 MAR 90 1100 LEVEL
HELPED MUCK OUT THE RESULTS OF
THE LAST STRIP IN 1190 AREA.
DRILLED TWO HOLES IN A LARGE
CHUNK AND AL BLISS WEDGED IT
APART. DRILLED ANOTHER STRIP. USING
IT TO GET MORE ORE ONLY PARTIALLY
SUCCESSFUL. SCROUNGED PIPE, VALVES,
AND ELBOWS TO CONNECT AIR LIFTER
TO 4" AIR LINE ON THE STATION.

11 MAR 90 700-1000-1100 LEVELS

PREPARED 1250 RAISE TO FIRE A STRIP. SCROUNGED PARTS TO MAKE A BLOW PIPE (TO CLEAN OUT HOLES). WENT TO 1000 LEVEL AND INSTALLED A PIPE PATCH ON THE 2" AIR LINE IN THE POWDER MAGAZINE DRIFT. WENT TO 1100 LEVEL AND USED A ROOF BOLT AND WATER TO CLEAN OUT THE STRIP HOLES IN 1190 CHUTE RAISE. GOT \$400 MINERAL DIVIDEND.

12 MAR 90 ADIT AND 700 LEVEL

THE BLASTER SHOWED UP AND I LOADED THE DRIFT ROUND. WE FIRED AT NOON AND IT BROKE GOOD. AFTER LUNCH WE WENT TO 700 LEVEL AND USED THE REST OF THE POWDER ON PART OF THE STRIP IN 1250 RAISE. CAME BACK UP AND HANDMUCKED AND SCALED WHILE AL MUCKED OUT THE ROUND WITH THE EIMCO. THEN WE SET UP TWO DRILLS

AND CALLED IT A DAY. AL LOANED ME
A COPY OF "COPPER MINES AND MINING
IN N.J.", BULLETIN 57, GEOL. SERIES,
1944. I'LL HAVE TO LOOK FOR A COPY OF
THIS BOOK.

13 MAR 90 ADIT

AL AND ME DRILLED A 9' DRIFT
ROUND IN THE RAINBOW TUNNEL.

14 MAR 90 ADIT @ 700 LEVEL

FRED, THE BLASTER, BROUGHT THE
EXPLOSIVES AND WE FIRED THE
DRIFT ROUND. FOUR HOLES ON THE
RIGHT RIB GOT CUT OFF DUE TO A
MUD SEAM. FRED AND ME WENT TO
700 AND FIRED MORE HOLES IN 1250
RAISE. AL MUCKED OUT THE DRIFT
AND WE CAME BACK UP AND REFIRED
THE RIB HOLES. BROKE OK. AL
MUCKED OUT AND WE CALLED IT
A DAY.

15 MAR 90 ADIT AND 1100 LEVEL
WENT TO 1100 AND SCROUNGED
AIR AND WATER PIPES AND
FITTINGS. BROUGHT IT UP TO THE
ADIT AND HOOKED UP AIR AND
WATER LINES FOR THE RAINBOW
TUNNEL. TRIED THE STRIP HOLES
IN 1190 CHUTE RAISE AGAIN.
NO LUCK. DICK RAMAGE DROPPED
BY TODAY.

16 MAR 90 ADIT
DRILLED A NINE HOLE BURN FOR
THE NEXT DRIFT ROUND. IT WAS A
REAL STRUGGLE. HAD TROUBLE WITH
DIRT IN THE WATER NEEDLE AND
REAMER BITS THAT WOULD NOT STAY
LOCKED ON THE STEEL.

17 MAR 90 ADIT

WITH THE ABLE ASSISTANCE OF CHET LEMANSKI I FINISHED A NINE FOOT DRIFT ROUND IN THE RAINBOW TUNNEL.

ON 700 LEVEL, RON TIBBETTS GOT THE EIMCO RUNNING IN 1250 STOP. THE POND WAS DRAINED AND FILLED. ON 1100, AL CHUPA DRILLED STRIP HOLES IN 1190 CHUTE RAISE.

18 MAR 90 1100 LEVEL

SCALED OFF SOME PYROXENE XLS IN 920 X-CUT. SCALED DOWN A PAIL OF FRIEDELITE IN 780 PILLAR. USED THE STRIP HOLES IN 1190 CHUTE RAISE TO GET MORE ORE. HAD TO BE DONE IN THREE STAGES. GOT \$140 AS MY SHARE OF THE FIRST 14' IN THE RAINBOW TUNNEL.

20 MAR 90 ADIT AND 700 LEVEL

WHEN THE BLASTER ARRIVED AL AND ME LOADED THE DRIFT ROUND. BROKE GOOD. ME AND LEFTY WENT TO 700 LEVEL AND FIRED MORE OF THE STRIP IN 1250 RAISE. AL MUCKED OUT THE DRIFT MUCK. WE SET UP TWO DRILLS AND STARTED THE NEXT ROUND. HAD TO GO BACK TO 700 LEVEL TO GET SOME 7' AND 9' STEELS.

21 MAR 90 ADIT

THE MUD SEAM THAT WE HIT ON THE 14TH OF MARCH STARTED MAKING WATER YESTERDAY. THIS MORNING WE SPENT TWO HOURS SETTING UP A PUMP TO GET RID OF THE WATER. FINISHED DRILLING A NINE FOOT ROUND.

22 MAR 90 ADIT

FIRE A NINE FOOT ROUND IN
THE RAINBOW TUNNEL. BROKE
GOOD. MUCKED IT OUT WITH THE
EIMCO. USED THE GRADE CHAINS
THAT BOB SVECZ GAVE ME LAST
NITE TO GET LINE AND GRADE.
SET UP A DRILL FOR THE NEXT
ROUND.

23 MAR 90 ADIT

AL AND I DRILLED MOST OF A NINE
FOOT ROUND IN THE RAINBOW TUNNEL.
TOOK A RIDE TO 180 LEVEL TO PICK UP
SOME ROCK BOLTS, SCALING BARS, AND
STEELS WITH GOOD BITS. GOT A \$460
MINERAL DIVIDEND.

24 MAR 90 ADIT & 700 LEVEL

REAMED THREE CENTER HOLES AND
DRILLED THREE LIFTERS TO FINISH A
NINE FOOT ROUND. WENT TO 700 LEVEL
TO PREPARE THE TOP OF 1250 RAISE
FOR BLASTING.

25 MAR 90 1100 LEVEL

WORKED ON THE FRIEDELITE VEIN IN
780 X-CUT. GOT SOME NICE PIECES.

WORKED ON EPIDOTE VEINS AND WOLLAS-
TONITE IN 920 X-CUT. NO KEEPERS.

BLEW OUT THE HOLES IN THE RAINBOW
TUNNEL. THE FACE IS NOW 39' FROM
THE BACK PLUG. GOT \$170 DRIFT BONUS.

YESTERDAY I GOT A COPY OF
"COPPER MINES AND MINING IN N. J."
FROM DICK HAUCK.

26 MAR 90 RAINBOW TUNNEL

LOADED AND FIRED A NINE FOOT DRIFT ROUND. BROKE GOOD. AL MUCKED OUT AND WE SET UP TWO DRILLS FOR THE NEXT ROUND. DRILLED HOLES IN THE BACK, TRYING TO KNOCK DOWN SOME LOOSE ROCK.

27 MAR 90 RAINBOW TUNNEL

AL AND I DRILLED A NINE FOOT DRIFT ROUND. I PUT IN ONE ROCK BOLT AND DRILLED PIN HOLES FOR PIPE HANGERS. FOUND A LENS OF A PALE PINK MINERAL THAT FLUORESCES A GOOD WHITE. IT IS ASSOCIATED WITH PHLOGOPITE AND TREMOLITE, PROBABLY DIOPSIDE.

28 MAR 90 ADIT - 700 - 1100

FIRE A NINE FOOT ROUND IN THE RAINBOW TUNNEL. BROKE GOOD. WENT TO 700 LEVEL AND FIRED THE LAST HOLES IN THE RAISE STRIP. WENT TO 1100 AND FIRED THE STRIP AT THE REALGAR LOCATION. BROKE GOOD. ALSO FIRED A STRIP IN THE OLD SHAFT GRIZZLY. AL MUCKED OUT THE DRIFT ROUND AND WE SET UP TWO DRILLS.

29 MAR 90 RAINBOW TUNNEL

AL AND I DRILLED A DRIFT ROUND.

30 MAR 90

FIRE A NINE FOOT ROUND. BROKE GOOD. FACE IS NOW 63' FROM BACK PLUG. MUCKED OUT AND SET UP. BEGAN NEXT ROUND.

31 MAR 90 ADIT - 700 - 1100

WALKED DOWN TO 700 AND CHECKED
OUT THE LAST STRIP I FIRED IN 1250
RAISE. LOOKS GOOD. WENT TO 1100 AND
PACKED UP SIX PAILS OF REALGAR AND
FIVE BIG PIECES. CHECKED OUT THE
STRIP ROUND IN THE OLD SHAFT GRIZZLY.
THERE ARE MANY PIECES WITH GARNET XLS.
BROUGHT UP THE REALGAR. DRILLED SIDE,
TOP AND BOTTOM HOLES IN THE RAINBOW
TUNNEL. AL GOT HIS LONGHOLE DRILL
SET UP ON THE EIMCO BUCKET AND WE
DRILLED A HOLE WITH THE 3 1/2" BIT.
GOT \$240 FOR 24' IN THE RAINBOW TUNNEL.

1 APR 90 RAINBOW TUNNEL

AL DRILLED THE SECOND 3 1/2" BURNHOLE
AND I DRILLED OUT THE REST OF THE
ROUND.

2 APR 90 ADIT @ 700 LEVEL

FIRE A NINE FOOT DRIFT ROUND. IT

BROKE ABOUT 7.5'. AL MUCKED OUT.

I WALKED DOWN TO 700, RUNNING

ORE PASS ON 340 AND 430. USED A

BLOWPIPE TO CLEAN LOOSE MATERIAL

AT TOP OF 1250 RAISE. FOUND A TIGHT

SPOT AND DRILLED A NINE FOOT HOLE.

SET UP A DRILL IN THE RAINBOW

TUNNEL AND PUT IN THE FOUR BOTTOM

HOLES.

3 APR 90 RAINBOW TUNNEL

AL CHUPA AND ME DRILLED A SECOND

CENTER HOLE AND FINISHED DRILLING A

NINE FOOT ROUND. AL BLISS RAN THE

HOIST. THE CANADIANS WORKED ON

DISMANTLING THE 1100 CRUSHER AND SENT

UP MANY PARTS.

4 APR 90 ADIT @ 1100

LOADED AND FIRED A DRIFT ROUND.
SOME HOLES ON THE LEFT RIB MIS-
FIRED DUE TO A BIG SHEAR ZONE. AL
AND FRED RE FIRED AND IT CAME OUT OK.
I WENT TO 1100 AND DRILLED 17 HOLES
AROUND 1190 CHUTE RAISE. AL MUCKED
OUT MOST OF THE DRIFT AND THE
EIMCO BLEW A HYDRAULIC HOSE. THE
CANADIANS ARE MAKING GOOD PROGRESS
ON THE CRUSHER. GOT \$175 MINERAL
DIVIDEND.

5 APR 90 RAINBOW TUNNEL

REPAIRED HYDRAULIC HOSE. FINISHED
MUCKING. SET UP TWO DRILLS. DRILLED
BOTTOM, SIDE, AND TOP HOLES. SET UP
THE LONGHOLE DRILL AND CUT TWO 20'
CENTER HOLES. I TOOK OFF FOR A VISIT
TO A TAX PREPARER. CAME BACK AND
FINISHED THE ROUND.

6 APR 90 ADIT @ 1100 LEVEL @ 700 L.

FIRE A NINE FOOT ROUND IN THE RAINBOW TUNNEL. BROKE GOOD. WENT TO 700 LEVEL, DRILLED ONE HOLE IN 1250 RAISE AND FIRED. RAISE SHOULD NOW BE READY FOR EIMCO. WENT TO 1100 AND LOADED AND FIRED 18 HOLES AT 1190 CHUTE RAISE. THERE IS NOW A BIG PILE OF NICE FLUORESCENT ORE THERE. HEARD A LOT OF FILL RUNNING IN 1240 TRANSVERSE STOPE. THE FILL IN 800 STOPE HAS SUBSIDED QUITE A LOT SINCE YESTERDAY.

7 APR 90 1100 LEVEL

USED A "53" TO KNOCK DOWN A LARGE SLAB AT 1190 CHUTE RAISE. DRILLED SOME HOLES AND USED WEDGE PINS TO BREAK OFF SOME PIECES OF A GREEN WILLEMITE VEIN JUST NORTH OF THE RAISE. THE VEIN IS IN A SHEAR AT THE F/W CONTACT. USED THE HAND CART TO TRAM ORE TO THE

STATION AND SENT FOUR CAGE LOADS UP.
MEASURED THE RAINBOW TUNNEL. THE
FACE IS NOW 87' FROM THE BACK PLUG.

8 APR 90 RAINBOW TUNNEL

DRILLED A NINE FOOT ROUND. PRIED
BIG CHUNKS THRU THE GRIZZLY AT
THE TOP OF THE ORE PASS. GOT \$240
FOR DRIFT WORK.

9 APR 90 ADIT & 1100 LEVEL

FIRE A DRIFT ROUND. BROKE GOOD.
THERE IS A SHEAR ZONE CUTTING
DIAGONALLY ACROSS THE DRIFT. FORTUNATELY
IT DID NOT CAUSE ANY TROUBLE. BROTHER
DENNIS CAME IN TODAY. WE WENT DOWN TO
1100 AND DISMANTLED AIR AND WATER LINES.
PUT MOST OF IT ON 1000 LEVEL AND BROUGHT
50' OF EACH TO THE ADIT. ADDED 50' TO
AIR AND WATER PIPES IN RAINBOW TUNNEL.
WATER IS ABOUT 5' BELOW LEVEL NEAR OLD
SHAFT ON 1100 LEVEL.

10 APR 90 RAINBOW TUNNEL
DRILLED MOST OF A NINE FOOT ROUND,
INCLUDING TWO CENTER HOLES.

11 APR 90 ADIT 430-1100
FINISHED THE DRIFT ROUND (8 HOLES).
LOADED AND FIRED. USED FOUR #15 CAPS,
FROM A NEW BOX, IN THE CORNER HOLES.
THE TOP TWO CORNER HOLES MISFIRED.
REFIRED THEM. WENT TO 430 LEVEL,
LOADED THE BRIDGE FOR THE EIMCO
CARRIER ON THE CAGE AND TOOK IT TO
1100 LEVEL. PICKED UP THE HOSES, STEEL,
TOOLS, ETC. FROM 1100 AND TOOK THEM
UP TO 1000. BROUGHT A "53" AND TWO
LONG LEGS TO THE ADIT. MUCKED OUT
THE DRIFT AND FOUND THAT ONE BOTTOM
CORNER HOLE MISFIRED.