19 DEC '03  ADIT & MILL
CHISELLED OFF SOME LOOSE IN THE
ADIT. GOT TWO DECENT NORBERGITE
SPECIMENS. WEDGED OUT THE REST OF
THE HOLES IN THE MILL. TOO COLD TO
DRILL MORE HOLES. 4 HRS
-- -- 49 HRS -- --

22 DEC '03  ADIT AND MILL
CHISELLED OFF LOOSE SLABS NEAR
THE ORE PASS. GOT SOME
NORBERGITE. SET UP THE DRILL,
FINISHED THE SLOT UNDER THE
LAST PIECE OF THE CRUSHER BASE.
BOB BURNED OFF THE REBAR
AND HAULED THE PIECE TO THE
DISPOSAL AREA. DRILLED HOLES IN
THE CONCRETE SILL WHERE THE
NEW OVERHEAD DOOR WILL BE.
7 HRS.

23 DEC '03  MILL AND ADIT
WEDGED OUT THE HOLES IN
THE SILL. CLEANED UP THE
DEBRIS FROM THE CRUSHER
BASE. STORED TOOLS FOR THE
WINTER. CHISELLED OFF A SLAB
IN THE ADIT. GOT MORE NORBER-
GITE.  7 HRS.
29 DEC '03  CHANGE HOUSE
UNLOADED 15 NEW DISPLAY
CASES FROM A TRUCK AND
MOVED THEM INTO THE CHANGE
HOUSE. THEY ARE BEING SET
UP IN THE SHOWERS. 7 HRS.

2 JAN '04
1 HR.
--- 22 HR ---

6 FEB '04
MET LEATHAM AT THE MINE AND WE
FIGURED OUT HOW TO GET POWER TO
THE NEW DISPLAY CASES AND THE NEW
SEPTIC PUMP. 2 HRS.

9 FEB '04  WARREN MUSEUM
INSTALLED PERFORATED ANGLE IRON
IN THE NEW FLUORESCENT CASES.
BLACKLITES WILL BE SUSPENDED
FROM IT. 7 HRS.

10 FEB '04  WARREN MUSEUM
FINISHED INSTALLING THE ANGLE
IRON. WORKED ON CONDUIT FOR
THE SEPTIC PUMP. 7 HRS.
11 FEB '04  Museum
Finished conduit in Warren Museum. Moved to the change house. Started working on conduit for the new display cases. 7 hrs.

12 FEB '04  Change House
Worked on conduit. 7 hrs.

--- 30 HRS ---

10 MAR '04  Upper Yard
Saw Bob about the next project. We decided to take out the concrete piers near the shaft. The stiff-leg crane was mounted on them. Moved the compressor to the site. 1 hr.

15 MAR '04  Shaft Apron
Set up the fifty three and drilled one hole. Wedged out part of it. Had typical problems getting water to new site.
7 hrs.
16 Mar 04  G. T. C.
Anchored a 2x4 to the wall to which a new display case can be screwed. Adjusted the back of the case so it will fit. Snow began at 10 AM. 2 hrs.

23 Mar 04  Shaft apron wedged out concrete. Made a repair on the "53". Tried to find a jack hammer that works. No luck. 7 hrs.

24 Mar 04  Shaft apron drilled holes and wedged out concrete. 7 hrs.

25 Mar 04  Shaft apron wedged out concrete. Rained out at 10 AM. 2 hrs.

26 Mar 04  Shaft apron wedged out concrete. 7 hrs.

--- 33 hrs ---
30 Mar '04  SHAFT APRON  
DRILLED HOLES AND WEDGED OUT CONCRETE.  7 HRS.

5 Apr '04  SHAFT APRON  
SCALED LOOSE IN THE RAINBOW TUNNEL, UNTIL 10 AM.  FINISHED CHIPPING OFF THE SECOND PIER.  
BEGAN THE 3RD PIER.  DRAINED WATER HOSE AND STORED THE "53" IN THE MINE OFFICE (FREEZE TONITE).  
7 HRS.

2 Apr '04  SHAFT APRON  
WEDGED OUT CONCRETE.  COT OUT DANFORTH'S JACK HAMMER AND CHIPPED OFF ALL THE HIGH SPOTS.  
THE FIRST PIER IS DONE.  BOB BURNED OFF THE REBAR.  STARTED CHIPPING OUT ANOTHER PIER.  7 HRS.
6 APR 04  SHAFT APRON
CHISSELED OFF SOME LOOSE
SLABS IN THE RAINBOW TUNNEL.
FINISHED CHIPPING OUT THE THIRD
PIER.  7 HRS.

7 APR 04  SHAFT APRON
CHIPPED OUT CONCRETE. FINISHED
FOURTH AND FIFTH PIERS. STARTED
ON SIXTH Pier.  7 HRS.

9 APR 04  SHAFT APRON
HELPED HAUCK MOVE BOXES
OF SPECIMENS. CHIPPED
OUT CONCRETE. FINISHED
SIXTH AND SEVENTH PIERS
6 HRS,
--48 HRS--

12 APR 04  SHAFT APRON
WORKED ON CHIPPING OUT THE
LAST PIER. RAINED OUT AT
2:30.  6 HRS.
15 APR 04  SHAFT APRON
FINISHED CHIPPING OUT THE
LAST PIER. CLEANED UP THE
AREA. MOVED MOST OF MY TOOLS
TO THE EAST VEIN FILL QUARRY.
7 HRS.

16 APR 04  E.V. FILL QUARRY
WEDGED OUT ORE USING HOLES
DRILLED LAST YEAR.  7 HRS.

19 APR 04  FILL QUARRY
WEDGED OUT ORE. DUMPED A LOAD
IN THE STORAGE AREA. HAND-
MUCKED FILL AT THE EDGE OF THE
PILLAR. WILL BE GOING DOWN
ANOTHER THREE FEET. SET UP THE
DRILL AND LAID OUT THE WATER
HOSES.  7 HRS.

20 APR 04  FILL QUARRY
DRILLED HOLES AND WEDGED
OUT ORE. THE END OF THE
3' STEEL BROKE IN THE
CHUCK. TOOK THE DRILL APART
AND POUNDED THE STEEL OUT
OF THE CHUCK. DRILLED A
ROW OF HOLES. DUMPED A
LOAD OF ORE. HAD TO USE
THE BUCKET TO JACK THE
EIMCO BACK UP THE HILL. 7 HRS.

31 APR 04  FILL QUARRY WEDGED OUT ORE. DUMPED A LOAD AND HAD TO JACK THE EIMCO UP THE HILL. HAND MUDDLED FILL. DRILLED MORE HOLES. 7 HRS.

32 APR 04  FILL QUARRY FINISHED DRILLING A NEW SET OF HOLES. WEDGED THEM OUT. DUMPED A LOAD OF ORE. 7 HRS.

23 APR 04  FILL QUARRY DRILLED HOLES AND WEDGED OUT ORE. RAINED OUT AT 2:30 AM. 6 HRS.

--- 54 HRS ---

27 APR. 04  FILL QUARRY DRILLED HOLES AND WEDGED OUT ORE. DUMPED AN EIMCO LOAD. 7 HRS.
28 APR '04  FILL QUARRY
WEDGED OUT ORE. HAD TO
CHARGE THE BATTERY TO GET
THE EIMCO STARTED. WENT TO
THE BEATTYSTOWN MINE WITH
RON MISHKIN AFTER LUNCH.
4 HRS.

29 APR '04  FILL QUARRY
WEDGED OUT ORE, DUMPED A
LOAD OF ORE. HAD TO JACK THE
EIMCO UP THE HILL. DRILLED A
SET OF HOLES, 7 HRS.

30 APR '04  FILL QUARRY
WEDGED OUT ORE, 7 HRS.

MAY
4 APR '04  FILL QUARRY
FINISHED WEDGING OUT ORE
FROM THE PILLAR. MOVED 40'
SOUTH TO A PLACE IN THE
FRANKLINITE ZONE WHERE THERE
IS HYDROZINCITE. DRILLED
HOLES AND WEDGED OUT ROCK.
7 HRS.
MAY 04

5 MAY '04 Fill Quarry
Drilled holes and wedged out sub-ore. Rained out at 1-30. Checked after dark and the whole pile is full of nice hydrozincite. 6 hrs.

6 MAY '04 Fill Quarry
Drilled holes and wedged out sub-ore. Hope it has nice hemimorphite in it. 7 hrs.

7 MAY '04 Fill Quarry
Moved 15' south and leveled out the ground for drilling. Drilled holes and wedged out sub-ore. (Franklinite zone). Looks like granular pyroxene with copper stains. 6 hrs.

--- 51 HRS ---

10 MAY '04 Fill Quarry
Drilled holes and wedged out sub-ore. 7 hrs.
11 May '04  Fill Quarry
Wedged out the rest of the holes.
Moved tools and compressor to
the South wall. Will be looking
for paragonite. 7 hrs.

12 May '04  Fill Quarry
Finished setting up at the
new location. Drilled a few
holes and wedged out rock.
The compressor quit working.
Rained out at 2:30. Picked
up 2 gal. of coolant on the
way home. 6 hrs.

13 May '04  Fill Quarry
Put 2 gal. of coolant in the
compressor. It works better
now. May need more. Drilled
holes and wedged out rock.
Very warm and humid today. 7 hrs.

14 May '04  Fill Quarry
Added another gal. of coolant
to the compressor. Drilled holes
and wedged out rock. Got the
paragonite and some other
odd things. 7 hrs.
17 May 04
Fill Quarry
Drilled holes and wedged out rock. 7 hrs.

18 May 04
Fill Quarry
Drilled holes and wedged out rock. Got a Paragonite. Some of the silicate fluoresces poor yellow. Apparently Scapolite. 7 hrs.

19 May 04
Fill Quarry
Wedged out rock. Rained out at 10 AM. 2 hrs.

21 May 04
Fill Quarry
Drilled holes and wedged out rock. Found lots of Paragonite. 7 hrs.

24 May 04
Fill Quarry
Cleaned out a plugged water needle. Drilled holes and wedged out rock. Oil bottle hose burst. Had trouble finding another good hose. Got some nice Paragonite. Quit at 1:30 due to heat. 5 hrs.
25 May 04  Fill Quarry
Repaired the oil bottle hose.
Moved the "53" and tools to
the hydrozincite site. Drilled
holes and wedged out sub-ore.
7 hrs.

26 May 04  Fill Quarry
Drilled holes and wedged out
sub-ore. 7 hrs.

27 May 04  Fill Quarry
Drilled holes and wedged out
sub-ore. Tied a rag on the
drill to prevent oil spraying
on the rock. Set aside some
nice hydrozincite. 7 hrs.

28 May 04  Fill Quarry
Drilled holes and wedged out
sub-ore. Got deep enough
into the F/W to strike
crazy calcite. Checked for
fluorescence after dark.
There were many nice hydro-
zincite specimens. 7 hrs.
31 MAY 04  FILL QUARRY
DRILLED HOLES AND WEDGED
OUT SUB-ORE, CHECKED
AT NITE WITH A BLACK LITE.
10-15 NICE PIECES PLUS
SOME LO-GRADE.  7 HRS.

1 JUN 04  FILL QUARRY
FINISHED WEDGING OUT HOLES
IN THE HYDROZINCITE AREA.
3 HRS.

2 JUN 04  FILL QUARRY
MOVED GEAR TO THE ORE
PILLAR. DRILLED HOLES AND
WEDGED OUT ORE, DUMPED
AN EIMCO LOAD.  7 HRS.

3 JUN 04  FILL QUARRY
GOT A 13' STEEL FROM THE
ADIT AND USED IT TO EXTEND
THE HOLES I DRILLING YESTER-
DAY. I AM STRIPPING OFF
THE STAINED ORE ON THE
SOUTH SIDE OF THE PILLAR.
WEDGED OUT ORE, DUMPED
A LOAD.  7 HRS.
4 Jun '04  Fill Quarry
Wedged out ore. Dumped a bucket load. Bob dug a lot of fill around the pillar so I can strip more of the nice ore. 7 hrs
--- 64 hrs ---

7 Jun '04  Fill Quarry
Did some hand mucking in the area that Bob dug out. Set up the "53" and drilled holes. Replaced a burst air hose. Wedged out ore. Dumped a load in the storage area. 7 hrs

8 Jun '04  Fill Quarry
Moved the compressor closer to the work site so only one air hose will be needed. Wedged out ore. Dumped a load. 7 hrs.

9 Jun '04  Fill Quarry
Drilled holes and wedged out ore. Burst another air hose. Due to a slip I was able to isolate and detach a very large piece. Worked from 7 am to noon to beat the heat. 5 hrs.
10 Jun '04 Fill Quarry
Dragged the big piece away from the work site with the Eimco. Drilled holes and wedged out ore. Dumped a load. 7 hrs.

11 Jun '04 Fill Quarry
Drilled holes and wedged out ore. Tried to drill out a Franklinite crystal but the compressor quit. Dumped another load in the storage area. 7 hrs.

15 Jun '04 Fill Quarry
Wedged out ore. Hand mucked fill off the ore. Dumped a load. 6 hrs.

16 Jun '04 Fill Quarry
Drilled holes and wedged out ore. Hand mucked fill. Got a 1'' Franklinite XL. 5 hrs.
17 Jun '04 Fill Quarry
Wedged out ore. Hand mucked fill. Dumped a load of ore in the storage area. Began drilling a new set of holes. 5 hrs.

18 Jun '04 Fill Quarry
Finished drilling. Wedged out ore. Dumped a full bucket load. 5 hrs

--- 54 hrs ---

21 Jun '04 Fill Quarry
Drilled holes and wedged out ore. Dumped a Eimco load. Found a loose fitting on the Eimco fuel pump. I think I was able to tighten it. 7 hrs.

22 Jun '04 Fill Quarry
Drilled holes and wedged out ore. Because of two intersecting seams I was able to break out a 3' chunk. Was delayed periodically by rain showers. 7 hrs.
23 Jun 04  Fill Quarry
Drilled holes and wedged out ore. Got some very nice red &
green and a few Franklinites. Had to charge the Eimco battery.
Dumped a load of ore and had to jack the Eimco up the hill, 8 hrs.

24 Jun 04  Fill Quarry
Wedges out ore, was able to get a few big pieces. Dumped a load. Removed a yellow jacket nest from the Eimco. 6 hrs.

25 Jun 04  Fill Quarry
Drilled holes and wedged out ore. Used the Eimco and chains to drag some big slabs off the work site. 5 hrs.

28 Jun 04  Fill Quarry
Drilled holes and wedged out ore. Dumped a load in the storage area. 7 hrs.
29 JUN 04  FILL QUARRY
WEDGED OUT ORE. GOT SOME SCROUNGY FRANKLINITE XLS. 7 HRS.

30 JUN 04  FILL QUARRY
WEDGED OUT ORE. DUMPED A LOAD, THIS IS MOSTLY LARGE GRAIN STUFF. 5 HRS.

1 JUL 04  FILL QUARRY
WEDGED OUT THE REST OF THE HOLES IN THE ORE PILLAR. MOVED THE DRILL TO THE HYDROZINCITE AREA AND DRILLED THREE 7' HOLES. BEGAN WEDGING SUB-ORE. 7 HRS.

2 JUL 04  FILL QUARRY
WEDGED OUT SUB-ORE. THE MUCK NEEDS A BLACK-LITE TEST FOR HYDROZINCITE. QUIT AT NOON DUE TO HEAT. 5 HRS.

6 JUL 04  FILL QUARRY
DRILLED HOLES AND WEDGED OUT SUB-ORE. THE MUCK NEEDS A BLACK-LITE TEST. 7 HRS.
7 JUL '04  Fill Quarry
Wedged out sub-ore. Separated
pieces that might be hydro-
zincite. Came in after dark
and picked out good pieces
with a Black-Lite. Got two
pails worth. 6 hrs.

8 JUL '04  Fill Quarry
Wedged out sub-ore at the
hydrozincite site. 5 hrs.

9 JUL '04  Fill Quarry
Drilled holes and wedged
out sub-ore. Came in after
dark to sort out hydrozincite.
6 hrs.

12 JUL '04  Fill Quarry
Wedged out sub-ore. Rained
out at 9 am. 2 hrs.

13 JUL '04  Fill Quarry
Wedged out the last holes in
the hydrozincite area. Got
a very nice large piece. Helped
Bob and Dick unload a trailer
load of rocks for the gift
shop. Prepared to move the
compressor to a new location.
Pried some loose rock off the top of the ore pillar. 7 hrs.

14 Jul '04 Fill quarry moved the compressor and tools to the ore storage area. Set up the "53" and drilled holes in some big ore boulders, wedged them into smaller pieces. This is for an order we got from China. 7 hrs.

15 Jul '04 Fill quarry drilled holes and wedged apart boulders, repaired a water hose. 5 hrs.

16 Jul '04 Fill quarry drilled holes and wedged apart the last ore boulder. Moved the compressor and tools to the Passaic pit. Set up the "53" and drilled holes in a big calc silicate boulder. Started wedging. 7 hrs

--- 52 ---
19 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED PIECES OFF A CALC SILICATE BOULDER. IT CONTAINS NICE GARNET, SPHALERITE AND POSSIBLE SMITHSONITE. DR. PETER LEVENS WAS HERE TODAY AND TOOK A SAMPLE FOR X-RAY I.D. 7 HRS.

20 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED OUT CALC SILICATE, GOT SOME NICE GARNET - SPHALERITE, HAND MUCKED DIRT OFF THE OUTCROP 5 HRS.

21 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED OUT CALC SILICATE, GOT SOME POSSIBLE SMITHSONITE, GARNET, SPHALERITE PIECES. MOVED AIR COMPRESSOR AND DRILL TO A NEW WORK SITE 5 HRS.
22 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED APART AN ORE BOULDER. BOB HAD SET ASIDE SOME ORE BOULDERS IN CASE SOMEONE WOULD WANT ONE, NOW HE WANTS THEM REDUCED TO SMALLER PIECES. 5 HRS.

23 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED APART AN ORE BOULDER. USED CHAINS AND THE EIMCO BUCKET TO DRAG PIECES AWAY FROM THE WORK SITE. 5 HRS.

26 JUL '04  PASSAIC PIT
DRILLED HOLES AND WEDGED APART AN ORE BOULDER. 6 HRS.

27 JUL '04  PASSAIC PIT
FINISHED THE ORE BOULDER. TRIMMED SOME BLACK CALCITE OFF SOME OF THE PIECES. TESTED A QUARTZ-PYROXENE BOULDER. BLUE-GREEN STAINS INSIDE. RAINED OUT AT NOON. 5 HRS.
88 JUL '04  EAST VEIN
TOOK SOME TOOLS TO THE TOP
OF THE ORE PILLAR IN THE EAST
VEIN FILL QUARRY. SCALED AND
WEDGED OFF LOOSE ROCK.  4 HRS.

29 JUL '04  EAST VEIN
SCALED AND WEDGED OFF LOOSE
ROCK.  5.5 HRS

30 JUL '04  EAST VEIN
SCALED AND WEDGED OFF LOOSE
ORE.  5 HRS
-- 52.5 HRS --

2 AUG '04  EAST VEIN
SCALED AND WEDGED OFF
LOOSE ORE.  5 HRS.

3 AUG '04  EAST VEIN
SCALED AND WEDGED OFF LOOSE
ORE, VERY HOT AND HUMID
TODAY.  5 HRS.

4 AUG '04  EAST VEIN
SCALED AND WEDGED OFF
LOOSE ORE.  5 HRS.
5 AUG 04      EAST VEIN
SCALED AND WEDGED OFF LOOSE ORE. USED A WIRE ROPE AND THE EIMCO TO PULL OFF A BIG PIECE. AMAZING THAT THE EIMCO WAS ABLE TO MAKE THE HILL. 7 HRS.

6 AUG 04      EAST VEIN
SCALED, WEDGED AND PULLED OFF LOOSE, HELPED LOAD DRUMS OF ORE ON A TRUCK. THIS IS THE MATERIAL I BROKE TWO WEEKS AGO. IT IS GOING TO CHINA. 5 HRS.

9 AUG 04      EAST VEIN
SCALED AND WEDGED OFF LOOSE ORE. 5 HRS.

10 AUG 04     EAST VEIN
SCALED AND WEDGED OFF LOOSE ORE. FRED ROWEIT IS PREPARING A BASE FOR THE ASTRONOMY OBSERVATORY. 5 HRS.

11 AUG 04     EAST VEIN
SCALED, WEDGED AND PULLED OFF LOOSE ORE. HAD TO GET A LONG CHAIN AND ANOTHER PIECE OF LADDER. 5 HRS.
12 Aug '04  East Vein
Scaled and wedged loose ore off the pillar. 5 hrs

13 Aug '04  East Vein
Scaled and wedged loose ore off the pillar. Pulled one big piece off with the Eimco. 4.5 hrs

--- 51.5 hrs ---

16 Aug '04  East Vein
Scaled and wedged off loose ore. 5 hrs.

17 Aug '04  East Vein
Scaled and wedged off loose ore. Moved a big piece by wedging. Put the wire rope on it and pulled with the Eimco but it would not move. 5 hrs.
18 Aug '04  East Vein
Re-arranged the wire rope and got the big pieces down.
Scaled and wedged off loose ore.  5 hrs.

19 Aug '04  East Vein
Moved tools to the north side of the pillar.  Scaled
and wedged off ore.  5 hrs.

20 Aug '04  East Vein
Scaled and wedged off loose ore.  Excavated dirt and roots
to find cracks in the ore.  5 hrs.

23 Aug '04  East Vein
Used the wire rope to pull three cedar trees off the
outcrop.  Excavated dirt, loose rock and roots.  Scaled and
wedged off loose ore.  5 hrs.

24 Aug '04  East Vein
Scaled and wedged off loose ore.  5 hrs.
25 Aug '04  East Vein
Scaled and wedged off loose ore. Pulled off a large piece with the wire rope. 5 hrs.

26 Aug '04  East Vein
Worked on wedging out a very big piece (5'x5'x5'). Moved it 2 inches. Then found a crack in it and may be able to break it in half. 5 hrs.

27 Aug '04  East Vein
Using the crack I was able to split the piece in half. After opening the crack to 6 inches with wedges I was able to pry half the piece over the edge. Attached the wire rope to the other half and pulled. After moving about a foot the wire rope slipped off. 5 hrs.

--- 50 hrs ---
30 Aug ’04  EAST VEIN
Pried and wedged the big piece over the edge, that resulted in a new, lower ledge. Re-arranged the ladder to get down to it. Scaled and wedged off ore going towards the F/W. 5 HR.

31 Aug ’04  EAST VEIN
Scaled and wedged off loose ore. 5 HRS. Got some nice pieces from a sphalerite vein that cuts across the ore.

1 Sep ’04  EAST VEIN
Scaled and wedged off loose ore. 5 HRS.

3 Sep ’04  EAST VEIN
Moved a big piece far enough to get the wire rope on it. Pulled it over, then inched it over the edge with a bar. Scaled and wedged off loose ore and had to inch over the last big piece. Got more sphalerite. 5 HRS.
7 SEP 04   EAST VEIN
SCALED AND WEDGED OFF
LOOSE ORE. WEDGED A BIG
PIECE FAR ENOUGH TO GET
THE WIRE ROPE ON IT AND
PULLED IT DOWN WITH DIFFI-
CULTY.  5 HRS.

8 SEP 04   EAST VEIN
SCALED AND WEDGED OFF
LOOSE ORE. HAND MUCKED
LOOSE MATERIAL TO EXPOSE
THE OUTCROP. RAINED OUT
AT 9 AM.  2 HRS.

10 SEP 04   EAST VEIN
FINISHED HAND MUCKING DIRT
OFF A NEW AREA. WEDGED
AND SCALED OFF LOOSE ORE.
  3 HRS.

--- 30 HRS ---

13 SEP 04   EAST VEIN
REMOVED DIRT, ROOTS AND SHRUBS BY
HAND MUCKING. WEDGED AND SCALED
OFF LOOSE ORE.  5 HRS.
14 SEP '04  EAST VEIN
Wedged a 10 ton piece loose at
the highest point of the pillar.
5 hrs.

15 SEP '04  EAST VEIN
Could not move the big piece
with the wire rope. Wedged it
some more. Worked on rearranging
the wire rope to pull from a
different direction. Had to charge
the Eimco battery and repair
the wire rope. 5 hrs.

16 SEP '04  EAST VEIN
Pulled off the big piece. Cleaned
up debris in the area it came
from. Hand mucked another part
of the outcrop. 5 hrs.

17 SEP '04  EAST VEIN
Got the next big piece to
move by wedging. 5 hrs.

20 SEP '04  EAST VEIN
Wedged the piece 6 more
inches. Then pulled it over
with the wire rope. Hand mucked
dirt to find another crack.
5 hrs.
21 SEP '04  EAST VEIN
WEDGED OPEN A CRACK BEHIND
ANOTHER BIG PIECE.  5 HRS.

22 SEP '04  EAST VEIN
FOUND A SCREW JACK IN THE
ADIT AND HAULED IT UP THE
HILL, WEDGED AND JACKED THE
PIECE FURTHER. WEDGED AND
SCALED SOME PIECES FROM IN
FRONT OF THE BIG PIECE. HAD
A VISIT FROM BOB AND BRUCE
BIHN.  5 HRS.

23 SEP '04  EAST VEIN
JACKED AND WEDGED THE
PIECE FURTHER. HOOKED UP
THE WIRE ROPE AND PULLED
IT OVER THE EDGE, WITH
DIFFICULTY. HAND MUCKED AND
SCALED TO CLEAN UP THE AREA
IT CAME FROM.  5 HRS.

24 SEP '04  EAST VEIN
SCALED AND WEDGED OFF
LOOSE ORE. SCALED REAL GOOD
AND HAND MUCKED OFF A LOWER
LEDGE SO NO ROCKS CAN
FALL ON COLLECTORS THIS WEEKEND.
5 HRS --- 50 HRS ---
27 SEP '04  EAST VEIN
WEDGED THE NEXT BIG PIECE FAR ENOUGH TO GET THE WIRE ROPE ON IT. TRIED PULLING WITH THE EIMCO BUT NO LUCK. LEFT TENSION ON THE ROPE AND INCHED THE PIECE WITH A PRY BAR 'TIL IT WENT OVER THE EDGE. 5 HRS.

29 SEP '04  EAST VEIN
WEDGED A BIG PIECE FAR ENOUGH TO GET THE WIRE ROPE BEHIND IT. PULLED IT OVER, SCALED AND WEDGED MORE LOOSE. 5 HRS.

30 SEP '04  EAST VEIN
SCALED OFF SOME GOOD SIZE PIECES AND INCHED THEM OVER THE EDGE. USED THE PICK TO REMOVE DIRT, ROOTS AND SHRUBS. RAINED OUT AT 11 AM. 4 HRS.

1 OCT '04  EAST VEIN
DUG OUT DIRT, ROOTS AND SHRUBS. FINISHED SCALING OFF THE TOP LAYER OF ROCK. CLEARED OFF THE AREA. STARTED ON THE NEXT LAYER WITH WEDGES. 5 HRS.
4 Oct '04
East Vein
Wedged a piece far enough to attach the wire rope. Pulled it off with the Eimco. Hand mucked the area it came from. 5 hrs.

6 Oct '04
East Vein
Wedged and scaled off loose rock. Exposed the sphalerite vein crossing foot wall rock and there is good hydrozincite. 7 hrs.

7 Oct '04
East Vein
Wedged and scaled off loose rock. Had to sharpen some wedges on the grinder. 7 hrs.

8 Oct '04
East Vein
Wedged and scaled off loose rock. 7 hrs.

-- 45 --
11 OCT '04  EAST VEIN
Scaled and wedged off loose rock, attached the wire rope to a big piece but could not move it. Wedged it some more and tried again. This time it went over. Inched some pieces over with a big prybar. 7 hrs.

12 OCT '04  EAST VEIN
Scaled and wedged out loose rock. Pulled off a piece with the wire rope, on the second try had to charge the Eimco battery. 7 hrs.

13 OCT '04  EAST VEIN
Pulled a big piece over the edge with the Eimco. Scaled and wedged off loose rock. 7 hrs.

14 OCT '04  EAST VEIN
Wedged and jacked a big piece until it fell over onto a ledge. Pulled it down from there with the Eimco. Rained out at noon. 5 hrs.
15 OCT '04  EAST VEIN
SACLED AND WEDGED OFF LOOSE ROCK. CUT A BAD PIECE OUT OF THE WIRE ROPE AND RE-SPICLED IT. PRIED AND WEDGED A PIECE OUT FAR ENOUGH TO PULL IT DOWN WITH THE EIMCO. 5 HRS.

18 OCT '04  EAST VEIN
WEDGED AND PRIED A PIECE OUT OF A TIGHT CORNER. GOT THE WIRE ROPE ON IT AND PULLED IT OVER. HAD TO CHARGE THE EIMCO BATTERY. CHISELLED OFF SOME HYDRO-ZINCITE FROM THE SPHALERITE VEIN. 6 HRS.

20 OCT '04  EAST VEIN
FINALLY GOT A BIG PIECE WEDGED OUT FAR ENOUGH THAT IT WAS EASY TO PRY OUT WITH A BIG SCALING BAR. SCALED SOME LOOSE ORE OFF THE EDGE OF THE LEDGE. SCALED ROCK OFF THE F/W. 7 HRS.
21 Oct '04  East Vein
Scaled and wedged out loose rock. Working on a big piece that might produce sphalerite/hydrozincite. 7 hrs.

22 Oct '04  East Vein
Scaled and wedged out loose rock. Got some nice hydrozincite and sphalerite. 7 hrs.
--- 58 hrs ---

25 Oct '04  East Vein
Scaled and wedged out loose rock. Fred Rowett filled the septic holes and dug out the genthelvite work site. I had to show him where to dig. 8 hrs.

26 Oct '04  Gift Shop
Leatham showed me where the service for the new observatory has to come out of the gift shop. Dug a 3' trench about 20' long. Set up the "53" to drill a hole thru the foundation. Dropped a tool on the propane regulator causing a minor leak. 7 hrs.
27 OCT '04  GIFT SHOP
DRILLED A HOLE FOR ELECTRIC
SERVICE TO THE OBSERVATORY.
HAND MUCKED TO CLEAN OFF
THE OUTCROP AT THE CALCSILICATE
WORK SITE. 7 HRS.

28 OCT '04  EAST VEIN
SCALED AND WEDGED OUT
LOOSE ROCK, GOT A VERY
BIG PIECE TO FALL ONTO A
LEDGE; THEN PULLED IT DOWN
WITH THE EIMCO. GOT THE
WATER HOSE SET UP AND
WASHED OFF THE OUTCROP AT
THE CALCSILICATE SITE. 7 HRS

29 OCT '04  EAST VEIN
CHISELLED A LOT OF HYDROZINCITE
AND SPHALERITE OFF THE BIG
PIECE THAT I PULLED DOWN
YESTERDAY. INCHED ANOTHER
PIECE OVER THE EDGE. SCALED
LOOSE ROCK. 5 HRS.
2 Nov '04 East Vein
Scaled and wedged out loose Rock. Chopped out roots and hand mucked to expose cracks.
7 hrs.

3 Nov '04 East Vein
Scaled and wedged out loose Rock. Worked on a big piece for two days-wedging and jacking it. It finally fell on to the ledge.
7 hrs.

4 Nov '04 East Vein
Inched the big piece over the edge. Scaled and wedged off loose Rock. Cleaned off the ledge by hand mucking. Worked on hydrozincite-sphalerite.
5 hrs. Rain at noon.

5 Nov '04 East Vein
Scaled and wedged off loose Rock. Got some nice hydrozincite-sphalerite.
7 hrs
--- 60 hrs ---
10 Nov '04  East Vein  Scaled and wedged off loose rock. 5 hrs.

11 Nov '04  East Vein  Scaled and wedged off loose rock. 6 hrs.

29 Nov '04  East Vein  Scaled and wedged off loose rock. Got some nice sphalerite and hydrozincite. 6 hrs.

2 Dec '04  East Vein  Scaled and wedged off loose rock. Jacked and inch'd big pieces over the edge of the ledge. 6 hrs.

3 Dec '04  East Vein  Scaled and wedged off loose rock. Attached the wire rope to a big piece and pulled it over the edge with the Eimco. Had to get the Eimco out of winter storage in the mine. 6 hrs.

--- 29 hrs ---