7 MAY '09  EAST VEIN

FINISHED TEST HOLE # 3  5'  
MOVED TEN FEET NORTH ANDBegan TEST HOLE # 4.  GOT TO 5'  AND THE COMPRESSOR CUT OUT. REPAIRED A BURST WATER HOSE. HAND MUCKED FINES AROUND THE FOOT OF THE PILLAR OF FIRE.  3 HRS.

8 MAY '09

HELPED HAUCK UNLOAD A TRUCK FULL OF ROCK.  MOST OF IT WAS THROWN ON THE PICKING PILE.  3 HRS.

11 MAY '09  EAST VEIN

TOO COLD TO DRILL AT 8 AM. MOVED THE LONG LADDER TO AN AREA SOUTH OF THE PILLAR OF FIRE.  WILL BE HANGING IT DOWN THE F/W SO I CAN REMOVE TREES AND LOOSE ROCK. FINISHED TEST HOLE # 4  6'. MOVED NORTH AND STARTED TEST HOLE # 5. DRILLED DOWN ALONG ORE. HAD TO TIGHTEN SIDE BOLTS ON THE "53".  3 HRS.
12 May '09 East Vein
Worked on the ladder. Removed trees and loose rock. Finished test hole #5. 4’. Moved north and drilled #6. 7’ ran into a crack but did not hit the stope. 3 hrs.

13 May '09 East Vein
Used the Kubota to clean off the outcrop in the area of an old raise. Drilled test hole #7 just south of the old raise. 4’. Moved the drill south to the site of test hole #2. Found a ladder and carried it to the drill site. 3 hrs

15 May '09 East Vein
Pinned the ladder and started test hole #7. Got to 5’ - no stope. Moved south of the pillar of light and cleaned loose stuff and trees off the wall. 3 hrs

--- 21 ---
18 MAY '09    EAST VEIN
USED A SHOVEL, PICK AND
BAR TO CLEAN LOOSE ROCK
OFF THE FILL QUARRY WALL.    3 HRS

19 MAY '09    EAST VEIN
FINISHED TEST HOLE # 7.
5.5'. DRILLED 3 HOLES
IN A BOULDER. CLEANED
LOOSE ROCK OFF THE FILL
QUARRY F/W.  6 HRS.

20 MAY '09    PASSAIC PIT
WEDGED A BIG PIECE OFF
THE BOULDER, IT DID NOT
BREAK AS I HOPED. DRILLED
TWO MORE HOLES.    3 HRS

21 MAY '09    PASSAIC PIT
DRILLED MORE HOLES AND
WEDGED PIECES OFF THE
BOULDER. IT HAS A SHEAR
CUTTING THRU IT WHICH CON-
TAINS SOME GREEN WILLEMITE.
IT WILL PROBABLY BREAK
ALONG THE SHEAR.    3 HRS.
26 May '09  Passaic Pit
Drilled holes and wedged pieces off the boulder. Took nice pieces to the office. 6 hrs.

27 May '09  East Vein
Moved some tools to top of fill quarry F/W. Wedged and pried out some loose rock. Busted some of the willemite vein rocks. 3 hrs.

28 May '09  East Vein
Carried 2 long wedges to the top of the F/W and wedged out some big pieces. Took 2 big willemite vein pieces to the office. 3 hrs.

29 May '09  East Vein
Wedged and pried out big pieces of loose rock from the fill quarry F/W. Took the last pieces of willemite to the office. 3 hrs.

--- 30 hrs ---
1 Jun '09  EAST VEIN
There are old exploration shafts on the f/w of the Franklinite zone. They are about 8' deep. They may have been exploring green copper stains along the f/w. Cleaned out the first shaft last week. Pried out a few pieces of loose rock and started cleaning out the second shaft. 6 hrs.

2 Jun '09  EAST VEIN
Worked on the second shaft. Dug out some big pieces. There was a lot of copper stained pieces. 3 hrs.

3 Jun '09  EAST VEIN
Worked on cleaning out shaft #2. It is deeper than #1. 3 hrs.

4 Jun '09  EAST VEIN
Dug down 3' in shaft #2. Pried out loose rock between the h/w of the shaft and the f/w of the fill quarry. 6 hrs.
8 Jun '09 East Vein
Moved the drill to a huge rock in the Passaic Pit. Hand mucked and scaled loose rock off the F/W of the Fill Quarry. 3 hrs.

10 Jun '09 East Vein
Drilled 5 holes in the huge rock. The rock has to be broken so that Rowette can move it and clean out the area under it. Repaired the water goose-neck on the "53". A painting crew is using my water to power wash the headframe. Pried and scaled out rock on the F/W side of the Fill Quarry. 6 hrs

11 Jun '09 East Vein
Put 5 gal. of fuel in the air compressor. Used a wire rope and the Kubota to pull a big piece off the Fill Quarry F/W. Scaled out and rolled pieces over the edge. 3 hrs

--- 30 HRS ---
15 JUN '09  EAST VEIN
DEEPEND THE LAST 3 HOLES IN
THE BIG BOULDER TO 5'. MOVED
THE LADDER FOR THE NEXT ROW.
SCALED AND WEDGED OUT LOOSE
ROCK ON THE FILL QUARRY F/W.
3 HRS.

16 JUN '09  EAST VEIN
WORKED ON THE NEXT ROW IN
THE BIG BOULDER. SCALED
AND WEDGED OUT LOOSE ROCK
FROM THE TOP OF THE FILL
QUARRY F/W. 3 HRS

17 JUN '09  EAST VEIN
FINISHED THE LAST ROW OF
HOLES IN THE BIG BOULDER.
MOVED TO THE NEXT BIG-
PIECE AND DRILLED 3 5'
HOLES. WEDGED AND SCALED
OUT LOOSE FROM THE FILL
QUARRY F/W. 3 HRS.

19 JUN '09  EAST VEIN
DRILLED ANOTHER ROW OF 3 5'
HOLES IN THE 2ND BOULDER.
PULLED A BOULDER OFF THE
FILL QUARRY F/W. WORKED ON
WEDGING OUT ANOTHER BOULDER.
3 HRS.
22 Jun '09  East Vein
Found a px-zone boulder in the Passaic pit with a green
willemite vein. Drilled 4 holes
and wedged it apart. Worked on
wedging a big piece off the
Fill Quarry F/W. 6 HRS.

23 Jun '09  East Vein
Drilled 2 holes and broke
the willemite vein boulder.
Jacked the big piece in the
Fill Quarry until the Kubota
could pull it over the edge.
3 HRS.

25 Jun '09  East Vein
Drilled a hole in the F/W out,
crop on the north side of the
road into the Passaic pit. Put
a 13' steel in the hole so a
water hose can be suspended
over the road. Scaled loose
and handmucked fines off the
Fill Quarry F/W. 3 HRS
26 Jun '09 East Vein
scaled loose and hand mucked
fines off the fill quarry E/w.
3 hrs.

--- 27 hrs ---

29 Jun '09 East Vein
used a blowpipe to clean out
6 holes in the second boulder.
Moved the air compressor and
tools to the pillar of light.
3 hrs.

30 Jun '09 Passaic Pit
switched the water hook-up
from the Rainbow Tunnel
to the old drift.
3 hrs.

1 Jul '09 Passaic Pit
finished installation of
water outlet in the old
drift. Had usual problems
with rusty parts. Strung
out water hose to pillar
of light.
6 hrs.
2 Jul '09  Fill Quarry
Hand mucked and washed around the base of the pillar of light. 3 hrs.

3 Jul '09  Fill Quarry
Set up the "53" and drilled 3 holes at the base of the pillar. Hoping to take advantage of cracks to get big pieces of ore. Hand mucked and washed on the north side of the pillar. The ore there contains a sphalerite vein. Hand mucked loose material off the top of the F/W south of the pillar. 3 hrs.

6 Jul '09  Fill Quarry
Wedged a big piece of ore off the pillar. The Kubota can't pick it up. Hand mucked loose fines off the F/W south of the pillar. 3 hrs.
**7 Jul '09**  Fill Quarry
Drilled 5 holes in the base of the pillar. Got another big piece cracked loose. Was able to push the first big piece out of the way with the Kubota. Excavated fill on the south side of the pillar. **3 hrs.**

**8 Jul '09**  Fill Quarry
Moved the big piece with wedges and pulled it out with the Kubota. Drilled six holes behind 2 more pieces and got one loose with wedges. Hand mucked and pried out loose high on the fill south of the pillar. **6 hrs.**

**9 Jul '09**  Fill Quarry
Excavated more fill next to a big piece. Pulled it out with the Kubota. Moved it out of the way and cleared away smaller pieces. **3 hrs**

--- **33 hrs---**
13 JUL '09  Fill Quarry
Drilled four holes to get chunks of ore off the pillar of light. Pounded on wedges for a while but the current chunk is resisting. Cleaned fines and pieces of rock off a ledge. Pulled the wire rope up to the ledge and attached it to a big boulder. 6 hrs.

14 JUL '09  Fill Quarry
Pulled the boulder off the ledge with the Kubota. Hand mucked fines off the ledge and scaled loose off the fin. Drilled a slot, put 6" plates in it and drove a wedge between them, that got the big piece on the pillar of light to move. Pulled the piece out with the Kubota. Loaded the bucket by hand with small pieces and took them to the Gift Shop. 6 hrs.
15 Jul '09  Fill Quarry
Drilled a few holes.
Worked on wedging out ore. Got a big piece loose. Excavated more fill then pulled out the piece with the Kubota.
6 hrs.

16 Jul '09  Fill Quarry
Washed the base of the pillar to find the next set of cracks. Hand mucked fines off a ledge and scaled loose off the F/W.
3 hrs.

17 Jul '09  Fill Quarry
Drilled 2 more holes in a resistant piece of ore and tried to wedge it out. No luck. 3 hrs.

20 Jul '09  Core Shed
Removed boxes of core from 3 racks. The racks will be used to store geological specimens from Princeton University.
3 hrs.
22 JUL '09  Fill Quarry
Drilled more holes in the resistant piece and wedged most of it out. Drilled two holes behind another big piece. Hand loaded 2 bucket loads in the Kubota. Used the Kubota to move my tools to a better storage area.

6 HRS 33

23 JUL '09  Fill Quarry
Drilled more holes and wedged out ore. Threw the pieces into the Kubota bucket. Moved the water hose so Rowette can work in the area with a backhoe. Got two big pieces wedged loose so Rowette can pull them out. 6 HRS 39

24 JUL '09  Fill Quarry
Rowette moved big pieces and excavated fill around the pillar of light. He also worked on the crown pillar; pulling out big pieces of zincite and exposing the stope. 1 hand mucked fines off the f/w. 3 HRS

--------- 42 HRS ---------
27 JUL '09  Fill Quarry
Rowette got a big hole opened up at the north end of the crown pillar. Hand-mucked around the base of the pillar of light. Hooked up the water hose and washed the base of the pillar. 3 hrs.

28 JUL '09 Fill Quarry
Moved the compressor near the south end of the crown pillar. Moved the drill and steels to that area. Pried out pieces of loose on the f/w of the Fill Quarry. 3 hrs.

29 JUL '09 Passaic Pit
Set up the "53" to drill holes in a big boulder. When the compressor shut off I scaled off some big pieces from the Fill Quarry f/w. 3 hrs.
3 AUG '09  PASSAIC PIT
FINISHED A SET OF 3 FIVE FOOT HOLES IN A BIG BOULDER.
MOVED THE DRILL TO ANOTHER PART OF THE OUTCROP. IN THE FILL
QUARRY I WEDGED BIG PIECES OF LOOSE OFF THE F/W. 3 HRS.

4 AUG '09  PASSAIC PIT
ADDED A GAL. OF COOLANT AND A GAL. OF ATF TO THE AIR
COMPRESSOR. DRILLED 5 FIVE FOOT HOLES IN THE SECOND
BOULDER. CAME BACK WHEN THE COMPRESSOR COOLED OFF
AND DRILLED 2 MORE. CLEANED LOOSE ROCK OFF THE F/W IN
THE FILL QUARRY. CAME BACK AFTER DARK TO CHECK FLUOR-
ESCENCE. 4 HRS.

5 AUG '09  PASSAIC PIT
DRILLED TWO 5' HOLES TO FINISH THE SECOND BOULDER. MOVED THE
DRILL AND STEELS TO A NEW LOCATION. TOO HOT AND HUMID
TO WORK AFTER THAT. 2 HRS.
6 AUG '09  Passaic Pit
Drilled six 5’ holes in the third boulder. The last hole hit a broken zone.
Scaled out the last big piece in the area I’ve been working on the Hill Quarry f/w. Moved all the tools out of that area and started on a new place near the south side of the pillar. 6 hrs.

7 AUG '09  Passaic Pit
Moved drilling gear out of the way. Cleaned out all the holes with a blow pipe. Wedged out ore at the base of the pillar. 3 hrs.

--- 27 hrs ---

10 AUG '09  Passaic Pit
Set up the drill at the fourth boulder, a large mass of gneiss. Drilled 2 five foot holes before the compressor quit. Hand mucked in the west vein store. Hot and humid. 3 hrs.
11 Aug '09  Passaic Pit
Drilled one more 5' hole in the fourth boulder. Then the drill leg broke down. Examined all the old legs and may have found one that can be fixed. Scaled loose in the adit. 3 hrs.

12 Aug '09  Passaic Pit
Drilled another hole and moved the drill to the fifth boulder. Drilled 2 five foot holes before the compressor shut off. Still having trouble with the leg. 3 hrs.

14 Aug '09  Passaic Pit
Drilled another five foot hole in the fifth boulder. Cleaned out all the holes with a blow pipe. Drilled a 5' hole in the south end of the crown pillar. Moved all gear off the work site. 3 hrs.
17 Aug '09
Moved air compressor and tools to the pillar of light. Too hot to work outside. Scaled loose in the adit and rainbow tunnel. 3 hrs.

19 Aug '09
Set up the drill and drilled some holes, trying to detach pieces as large as possible. Scaled loose in the candle room crosscut. 3 hrs.

20 Aug '09 Fill quarry
Got a big piece of ore off the pillar of light, observed as rowette used his biggest hoe to dig out stuff from the east vein f/w. 3 hrs.

21 Aug '09 Passaic Pit
hooked up the water hose, washed the pile of rocks that rowette made yesterday. 3 hrs.

— 24 —
24 AUG '09  PASSAIC PIT
WASHED MORE ROCKS, WENT
BACK TO THE PILLAR OF
LIGHT AND WORKED ON
WEDGING OUT ORE.  3 HRS

25 AUG '09  FILL QUARRY
DRILLED HOLES AND WEDGED OUT
ORE AT THE PILLAR OF LIGHT,
USED THE KUBOTA TO HAUL
AWAY ORE AND BRING THE
UMBRELLA DOWN FROM THE SADDLE.
3 HRS.

26 AUG '09  FILL QUARRY
WEDGED OUT A LARGE PIECE OF
ORE. USED THE KUBOTA TO
DRAG IT OUT OF THE WAY. 3 HRS.

28 AUG '09  FILL QUARRY
DRILLED HOLES AND WEDGED OUT
ORE. EXPOSED A VEIN OF MALACHITE
AT THE H/W CONTACT. SPLIT OFF
A BIG PIECE OF ORE. MOVED FILL
WITH THE KUBOTA, TRYING TO GET
THE BIG PIECE OUT.  6 HRS.
31 Aug '09 Fill Quarry
Moved the drill to the top of the Crown Pillar North of the Fill Quarry. Drilled until the compressor shut off. Pried out loose rock from the F/W South of the Pillar of Light. Moved the big piece away from the Pillar. 6 HRS.

1 Sep '09 Fill Quarry
Finished drilling holes in the Crown Pillar. Moved drilling gear back to the Pillar of Light. Pried out loose rock from the F/W. 6 HRS.

2 Sep '09 Fill Quarry
Pried out many big pieces from the F/W. 6 HRS.

3 Sep '09 Fill Quarry
Pried out loose from the F/W. Pulled a big piece over the edge with the Kubota. 6 HRS.

--- 39 HRS ---
7 SEP '09  PASSAIC PIT
MOVED THE DRILL BACK TO THE
CROWN PILLAR AND DRILLED FOUR
5' HOLES. 2 IN THE E.V. AND
TWO IN CONCRETE. HAD TO MOVE
MUCK WITH THE KUBOTA TO MAKE
A PLATFORM FOR DRILLING. 6 HRS.

8 SEP '09  FILL QUARRY
CLEANED OUT THE HOLES WITH
A BLOWPIPE. MOVED DRILLING-
GEAR AND TOOLS BACK TO THE
PILLAR OF LIGHT. SCALED AND
WEDGED OUT LOOSE FROM THE
FILL QUARRY F/W. PULLED A BIG-
PIECE DOWN WITH THE KUBOTA.
6 HRS.

9-9-09  FILL QUARRY
SCALED AND WEDGED OUT BIG PIECES
FROM THE F/W. THREW DOWN THE
CLOTHSLINE AND TIED IT TO THE
WIRE ROPE. 6 HRS.

10 SEP '09  FILL QUARRY
PULLED UP THE WIRE ROPE AND
ATTACHED IT TO A BIG PIECE. IT
FLIPPED ONCE AND THE WIRE ROPE-
CAME OFF. PULLED THE ROPE UP
AGAIN, RE-ATTACHED IT AND THIS
TIME THE PIECE CAME DOWN. 3 HRS.
14 SEP'09 FILL QUARRY
Due to rain over the weekend, I blew out the holes in the crown pillar again. When used they came out OK. Scaled and wedged out loose rock on the F/W South of the pillar of light. Attached the wire rope to a big piece and tried to pull it down with the Kubota. No luck. Wedged it about six inches and then was able to pull it down. 6 HRS.

15 SEP'09 PASSAIC PIT
Cleaned off the South end of the crown pillar, with a shovel and scaling bar. Wedged down a large piece of concrete, opening up the South end of the stop. Set up the drill on top of the pillar. 6 HRS.
16 Sep '09   Passaic Pit
Fill Quarry
Drilled holes in the crown pillar until the compressor shut off. Wedged and scaled out loose rock from the fill quarry F/W. 6 hrs.

17 Sep '09  Passaic Pit
Fill Quarry
Drilled holes in the crown pillar until the compressor quit. Wedged and scaled out rock from the fill quarry F/W. 3 hrs.

18 Sep '09  Passaic Pit
Finished the holes on top of the crown pillar. Blew out the holes and cleared tools off the site. 3 hrs.

--- 45 hrs ---  Owe 3 hrs.

21 Sep '09  Fill Quarry
Scaled out loose rock south of the pillar of light. Scaled loose ore and concrete from the south end of the crown pillar. 3 hrs.
22 SEP '09  FILL QUARRY
SCALLED AND WEDGED OUT
LOOSE ROCK SOUTH OF THE
PILLAR OF LIGHT. JACKED A
VERY BIG PIECE; OPENING A
CRACK A FOOT WIDE. WENT
TO THE SADDLE TO GET A
LONG 4 X 6 TO USE AS
BLOCKING FOR THE JACK.
BEFORE I GOT BACK THE
PIECE WENT DOWN BY ITSELF.
I FELT A VIBRATION THRU
THE GROUND AND THEN HEARD
THE CRASH.  6 HRS.

23 SEP '09  PASSAIC PIT
USED THE SHOVEL AND SCALING BAR
TO CLEAN LOOSE ROCK OFF THE CROWN
PILLAR. SET UP THE "53" AND DRILLED
HOLES UNTIL THE COMPRESSOR SHUT
OFF. HOT & HUMID TODAY.  6 HRS.

24 SEP '09  PASSAIC PIT
DRILLED UNTIL THE COMPRESSOR SHUT
OFF. APPARENTLY HIT A ROOF BOLT
PLATE WHICH I COULD NOT DRILL
THRU. STARTED ANOTHER HOLE, PIED
OUT LOOSE ROCK ON THE F/W.  3 HRS.
25 SEP '09  PASSAIC PIT
HIT THE ROOF BOLT PLATE AGAIN.
WOUND UP WITH SIX 5' HOLES. MOVED
DRILLING GEAR OUT OF THE WAY.
CLEANED OUT 4 HOLES WITH A BLOW
PIPE AND THE COMPRESSOR SHUT OFF.
WEDGED AND SCALLED OUT LOOSE ON
THE F/W. THREW DOWN A ROPE AND
TIED THE WIRE ROPE TO IT. 3 HRS.

28 SEP '09  FILL QUARRY
TIED THE WIRE ROPE TO A BIG
PIECE AND PULLED IT DOWN WITH
THE KUBOTA. SCALLED AND
WEDGED OUT MORE LOOSE ROCK,
DISCOVERED AN OLD BOLT HOLE
BEHIND THE LOOSE ROCK. 6 HRS.

29 SEP '09  FILL QUARRY
SCALLED AND WEDGED OUT LOOSE
ROCK. WEDGED A BIG PIECE FAR
ENOUGH TO GET THE WIRE
ROPE AROUND IT. PULLED IT
DOWN WITH THE KUBOTA WITH
DIFFICULTY. 3 HRS
30 SEP '09  FILL QUARRY

SCALED AND WEDGED OUT LOOSE ROCK. GOT THIS AREA FINISHED. 6 HRS.

1 OCT '09  FILL QUARRY

HAND MUCKED AND USED THE KUBOTA TO CLEAN OFF THE SOUTH SIDE OF THE PILLAR OF LIGHT. ALL THE ROCK SCALED OFF THE F/W LANDED THERE. MOVED DRILLING GEAR FROM THE CROWN PILLAR TO THE PILLAR OF LIGHT. SET UP TO DRILL BUT THE COMPRESSOR RAN OUT OF FUEL. WE HAD NONE ON HAND. 5 HRS.

2 OCT '09  FILL QUARRY  41

FUELED UP THE COMPRESSOR AND DRILLED A HOLE. WEDGED OFF A BIG PIECE OF ORE. PULLED IT OUT OF THE WAY WITH THE KUBOTA. DRILLED 2 HOLES UNDER THAT AND WEDGED LOOSE A VERY BIG PIECE. COVERED THE HOLES IN THE CROWN PILLAR WITH A TARP. 3 HRS

--- 44 HRS ---
4 Oct '09 Blew out holes in the crown pillar. 2 hrs.

5 Oct '09 Fill Quarry
Scaled loose ore and concrete off the crown pillar. Drilled holes in the pillar of light and wedged out ore. 6 hrs.

6 Oct '09 Fill Quarry
A contractor used a backhoe with a big hydraulic hammer to break the remaining concrete out of the crown pillar. He also removed the cap from the Marshall shaft. They will use it to dispose of fill. Rowette used his backhoe to break loose rock off the crown pillar and removed two big blocks of ore that I wedged off the pillar of light. Scaled loose off the crown pillar. 3 hrs.

7 Oct '09 Fill Quarry
Scaled loose from the crown pillar, wedged out ore from the pillar of light. Rowette worked on filling the east vein stope under the crown pillar. 3 hrs.
8 Oct '09  Fill Quarry
Scaled loose off the crown pillar. Went to the top of the f/w and threw down all the tools I used to scale and wedge out loose. At the base of the pillar, of light I drilled a slot and two holes. Had to replace a broken water goose neck on the drill. Wedged out a big piece. Roustee dumped fill in the east vein stoper all day. 6 hrs.

9 Oct '09  Fill Quarry
Barked a big piece off the ledge. Worked on wedging out the next big piece. It is resisting. Rained out. 2 hrs.

11 Oct '09  Fill Quarry
Due to a freeze warning I went in after the meeting to drain the water hose and put the drill in warm storage. 1 hr
12 Oct '09   Fill Quarry
Got the 53 out of storage. Connected the water hoses. Set up the drill. Drilled holes and wedged out rock at the F/W contact. 4 hrs.

13 Oct '09   Fill Quarry
Drilled holes and wedged out rock. Trying to free up a big piece of ore. 6 hrs.

14 Oct '09   Fill Quarry
Used wedges to move the big piece 2 inches. Drilled holes in it to subdivide it. Was applying wedges to those holes when Bob got me to help unload a truck load of mineral cases. Drained the water hose and put the drill in warm storage. 6 hrs.

-- 39 hrs --

19 Oct '09   Fill Quarry
Got the drill out and set up to drill more holes to break the big piece. Finally got one end to break off. 3 hrs.
20 Oct '09 Fill Quarry
Wedged another chunk off the big piece and pried it off the ledge. Drilled a slot behind a different slab. Moved drilling gear and tools to a lower area. 3 hrs.

21 Oct '09 Fill Quarry
Wedged a substantial slab off. Moved drilling gear to the north side of the pillar of light. Drilled holes and wedged out a big piece. It contains carbonate veins. 6 hrs.

22 Oct '09 Fill Quarry
Pried the big piece over the edge, with difficulty. Moved the drill and tools to the h/w side of the pillar. Drilled 3 holes and wedged out lean ore. It contains a slip with copper stains. Hand loaded the Kubota bucket with good ore. 6 hrs.

Came back after dark to check fluorescence and mark good pieces. 1 hr.
23 OCT '09  Fill Quarry
Scaled loose off the h/w at both ends of the crown pillar. Moved drilling and wedging gear at the pillar of light in case rowette shows up to excavate. 3 hrs.

26 OCT '09  Fill Quarry
Scaled loose in the adit.
Scaled loose at the south end of the crown pillar. Rowette came down late and pulled big chunks of ore off the pillar of light that I had wedged loose. 6 hrs.

29 OCT '09  Fill Quarry
Scaled loose at the south end of the crown pillar. Hand mucked and washed the area exposed when rowette pulled chunks off the pillar of light. Found a crack behind a big piece. Drilled a five hole slot, put 2 roof bolt plates in the slot and drove wedges between the plates. The piece moved slightly but is still very tight. 6 hrs.
30 Oct '09 Fill Quarry
Wedged and scaled off loose rock at the south end of the crown pillar. Rowette was dumping fill into the east vein stopes and periodically would help me by knocking down big pieces. 6 hrs.

---40 HRS---

2 Nov '09 Adit + Fill Quarry
Drilled two more slots behind the big piece. 3 hrs

3 Nov '09 Adit + Fill Quarry
Scaled loose in the Rainbow Tunnel. When it got warm enough outside I worked on wedging the big piece. Finally got it to move. Drilled a slot and wedged the piece in half. Drained the water hose and put the drill in warm storage. 6 hrs.
4 NOV '09  FILL QUARRY
USED WEDGES TO TAKE DOWN A PIECE
OF LOOSE ROCK FROM THE HANGING WALL
UNDER THE CROWN PILLAR. ROLLED THE
PIECE INTO THE WATER AND CLEANED
UP OTHER PREVIOUSLY SCALED ROCK.
AT THE PILLAR OF LIGHT, MOVED TOOLS
AND SCALED LOOSE TO PREPARE FOR FRED
ROWETTE TO PULL OUT THE BIG PIECE.
WHEN HE DID IT I HAND MUCKED THE
AREA. 6 HRS.

15
6 NOV '09  FILL QUARRY + ADIT
SCALED LOOSE IN THE RAINBOW TUNNEL.
HOOKED UP THE WATER HOSE AND GOT
THE DRILL OUT OF STORAGE. SET UP AND
DRILLED HOLES ON THE SOUTH SIDE OF
THE PILLAR OF LIGHT. WEDGED OUT A
FEW HOLES. THESE ARE SHORT HOLES
DESIGNED TO FREE UP BIG PIECES.
DRAINED THE WATER HOSE AND PUT THE
DRILL IN WARM STORAGE. 6 HRS.

21
9 NOV '09  FILL QUARRY
WEDGED OUT ORE. GOT THE DRILL
OUT OF STORAGE AND SET UP. TOOK
A BUCKET OF BETTER RED & GREEN
TO THE OFFICE. 6 HRS.
10 Nov '09  Fill Quarry 27
Drilled holes and wedged out ore. Rowette brought his machines down to the Fill Quarry to tram bank run fill to the Marshall shaft. He removed two big pieces that I had broken loose. 6 hrs.

11 Nov '09  Fill Quarry 33
Hand loaded two Kubota loads of ore and took them to a collector area. Drilled holes and wedged out ore. Drained the water hose and put the drill in warm storage. 6 hrs.

12 Nov '09  Fill Quarry 39
Worked on wedging out a big piece. No luck yet. Covered some rocks and the outcrop so I could check fluorescence. Marked good stuff with paint. Hand mucked under the crown pillar to level out fill. 3 hrs.

--- 42 ---
16 Nov '09  Fill Quarry
Still working on the big piece. Got out the drill and set it up. Drilled 4 holes. Hammered in wedges to no avail. Drained the water hose and put the drill back in warm storage. The Marshall shaft appears to be full to the water level. 6 hrs.

17 Nov '09  Fill Quarry
Hammered on wedges to no avail. Got out the drill and set up. Drilled some new holes and got part of the big piece to come off. Put the drill back in warm storage and drained the water hose. 6 hrs.

18 Nov '09  Fill Quarry
Scaled loose in the cap magazine and Rainbow room. Got out the drill and set up. Drilled out the wedges that were ineffective and drilled some new holes. 6 hrs.
19 NOV '09  Fill Quarry
Hand mucked under the crown pillar
to level out fill. Used the Kubota
to remove ore that has piled up
near the pillar of light. 3 hrs.

20 NOV '09  Fill Quarry
Same as yesterday, 3 hrs.

21 NOV '09  Adit + Fill Quarry
Scaled loose in the candle room x-cut.
Hand mucked under the crown pillar.
Found a 16 pound sledge in the
garage and used it on the wedges in
the pillar of light. The big piece
I am trying to get is still not
moving but thin slabs are peeling
off. Some of them are very fine
fluorescent pieces. 6 hrs.

23 NOV '09  Adit + Fill Quarry
Scaled loose in the Edison tunnel,
hand mucked under the crown pillar.
Wedged ore off the pillar of light,
both big and small pieces. 6 hrs.

30 NOV '09  Adit + Fill Quarry
25 Nov '09  Adit + Fill Quarry
Scaled loose in the demo stope and Landmesser tunnel, hand mucked under the crown pillar. 3 hrs.

27 Nov '09  Adit + Fill Quarry
Scaled loose in the Landmesser tunnel. Hand mucked under the crown pillar. 3 hrs.

--- 42 hrs ---

30 Nov '09  Fill Quarry
Hand mucked fill and scaled loose under the crown pillar. 3 hrs.

1 Dec '09  Fill Quarry
Wedged out loose under the crown pillar. 4 hrs.

2 Dec '09  Fill Quarry
Wedged out loose under the crown pillar. Got some big pieces off the h/w. Used the Kubota to clean up ore pieces around the pillar of light. 4 hrs.
3 Dec '09 Fill Quarry
It was a nice day so I got the drill out of storage, set up and drilled holes and two slots. Drove wedges into the holes but only got small pieces. 6 hrs.

4 Dec '09 Fill Quarry
Drove wedges and the big piece finally broke loose. Pulled it off the ledge with the Kubota. 3 hrs.

7 Dec '09 Fill Quarry
Hand mucked under the crown pillar, disposed of big pieces scaled down last week. 3 hrs

8 Dec '09 Fill Quarry
Used a chain and the Kubota to drag a big piece away from the "pillar of light." Hand loaded two loads of small pieces into the Kubota bucket and took them away. Scaled down the last big pieces of loose under the crown pillar. 3 hrs.
9 DEC '09  WEST VEIN
HAVE TO DECREASE THE ANGLE OF FILL
IN THE OLD STOPE. PRIED OUT AND
ROLLED DOWN BIG PIECES, THREW DOWN
SMALL STUFF.  3 HRS.

10 DEC '09  WEST VEIN STOPE
MUCKED OUT THE BOTTOM OF THE STOPE
WITH THE KUBOTA. THREW DOWN MORE
ROCKS,  3 HRS.

-- 32 HRS --

14 DEC '09  WEST VEIN STOPE,
MOVED ROCK FILL TO THE BOTTOM OF
THE STOPE AND CLEANED IT OUT WITH
THE KUBOTA. PULLED SOME PIECES
DOWN WITH A WIRE ROPE.  6 HRS.

15 DEC '09  WEST VEIN + QUARRY
PRIED OUT AND ROLLED DOWN ROCKS
IN THE WEST VEIN STOPE. GOT THE
'53' OUT OF STORAGE AND DRILLED
HOLES AT THE BASE OF THE
PILLAR 53 OF LIGHT. PUT THE '53'
AWAY AND DRAINED THE WATER HOSE.
6 HRS