

16 JAN 84 1300 CHUTE 1200 LEVEL

SHOVELLED UP 3 CARS OF CEMENT UNDER THE CHUTE. HAD TO USE A CEMENT BREAKER TO BUST IT UP. GOT SOME ZINCITE-RICH ORE FROM 1570 E. STOPE.

17 JAN 84 JURY DUTY

18 JAN 84 CAGEMAN

19 JAN 84 1300 X-CUT 1300 LEVEL

SHOVELLED UP 4 CARS OF CEMENT.

USED A CEMENT BREAKER ON IT.

SCALED LOOSE IN 940 PILLAR.

20 JAN 84 1380 U.C.P. 1300 LEVEL

WIRED UP A PRIMADET ROUND. BUILT A

FENCE AND COVER FOR THE MANWAY.

FIRED AT 3:30 P.M. SHOVELLED 2 CARS

OF CEMENT IN 1300 X-CUT.

23 JAN 84 1020 STOPE 1200 LEVEL
WORKED WITH DOUG ON THE JUMBO.
CLEANED OUT A MUD DITCH ON 1300
LEVEL IN PREPARATION FOR HYDRAULIC
FILLING OF THE WEST VEIN. CHECKED
OUT 1380 U.C.P. LOTS OF THIN FILMS
OF MCGOVERNITE. NO SPECIMENS.

24 JAN 84 JURY DUTY

25 JAN 84 1300 X-CUT 1300 LEVEL
SHOVELLED UP ONE CAR OF FILL UNDER
THE OVER SIZE RAISE ON 430 LEVEL. BROKE
CEMENT IN 1300 X-CUT, 1300 LEVEL AND
SHOVELLED UP FOUR CARS. GOT A PRETTY
PIECE OF ORE FROM 1570 E. CHUTE.

26 JAN 84 WORKED WITH NORM FARLEY.
CHANGED OVER AND BACK. HOOKED UP 4" PIPES
ON 1850 LEVEL. THERE IS NOW AN LHD 911
IN #1 SOUTH. THE SEISMOGRAPH STATION IS
ALMOST COMPLETELY DISMANTLED. GOT A MAP
AS A SOUVENIER. DID BRATTICE WORK ON
1500 & 1600 LEVEL. GOT SOME MICROPHARMACOLITE
FROM 1500 LEVEL.

27 JAN 84 1380 U.C.P. 1300 LEVEL

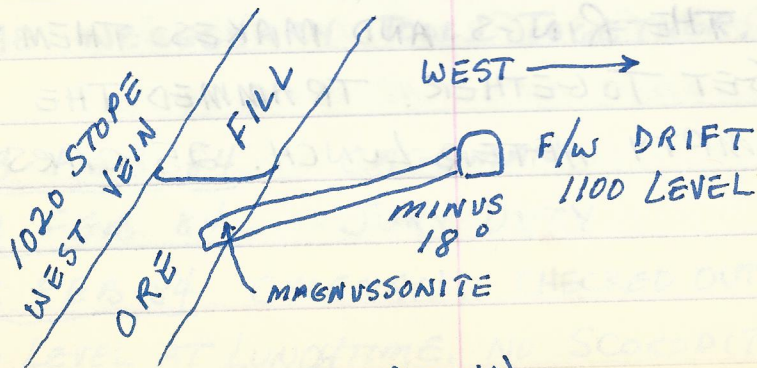
SLUSHED UNTIL LUNCH. TRAMMED ON 1400 LEVEL AFTER LUNCH. 30 CARS. HAD TO FIRE THE CHUTE. GOT SOME MICROS.

30 JAN 84 1300 X-CUT 1300 LEVEL

BROKE UP AND SHOVELLED 5 CARS OF CEMENT. JOB DONE. DUG OUT AND TOOK TO THE STATION AN AIR SHOVEL. HAD A FIRE DRILL AT 2:30 PM.

31 JAN 84 1220 X-CUT 1100 LEVEL

CLEANED UP AFTER THE FILL CREW. TWO CARS OF MUD. CHECKED OUT THE NEW X-CUT DECLINE TO 1020 STOPE. FOUND AN EXTRA-ORDINARY VEIN OF MAGNUSSONITE^{*}, ZINCITE AND MCGOVERNITE. CLEANED UP UNDER THE OVERSIZE RAISE ON 430 LEVEL.



* X-RAY P. DUNN

1 FEB 84 430 LEVEL

CLEANED TWO CARS OF SOUPY MUD FROM A BULKHEAD DOOR AND ONE CAR OF FILL FROM UNDER THE OVERSIZE RAISE. WENT TO 1300 LEVEL AFTER LUNCH AND TRAMMED ORE FROM 1570 E. CHUTE. 20 CARS.

2 FEB 84 430 LEVEL

CLEANED UP THREE CARS OF FILL FROM THE OVERSIZE RAISE. USED A ROPE, TWO PULLEYS AND THE MOTOR TO HAUL A JUMBO DRILL OUT OF 1060 U.C.P.

3 FEB 84 1180 U.C.P. 600 LEVEL

SET UP A "K" TUGGER AND STARTED REMOVING A CAVO FROM 1180 U.C.P. WASTED A LOT OF TIME GETTING ALL THE NECESSARY TOOLS TOGETHER.

13 FEB 84 CAGEMAN

14 FEB 84 JURY DUTY

15 FEB 84 CAGEMAN. CHECKED OUT 1015 STONE 180 LEVEL AT LUNCHTIME. NO SCORODITE.

16 FEB 84 MINE RESCUE TRAINING

PUT ON MCCAS AND WENT TO 1850 LEVEL. CHECKED OXYGEN WITH FLAME LAMP AND EXPLORED IN STRAIN GAGE AREA. DISCUSSED WHAT SUPPLIES WOULD BE NEEDED TO ESTABLISH PROPER REFUGE CHAMBER IN SEISMOGRAPH STATION. THE STATION HAS BEEN CLEANED OUT BY LAMONT.

17 FEB 84 CAGE MAN

21 FEB 84 JURY DUTY

22 FEB 84 1300 U.C.P. 1200 LEVEL

TRAMMED EIGHT CARS. INSTALLED THREE SPECIAL SLUSHER BLOCK HOLDERS. MOVED ALL OF NICK PENUELLA'S GEAR TO THE STATION. SAW A LARGE BLOCK OF MIXED SILICATES IN THE HANGING WALL OF 1570 E. STOPE. THE ORE CONTACT CURVED AROUND THE BLOCK.

23 FEB 84 1020 STOPE 1200 LEVEL

DRILLED UP-HOLES WITH THE JUMBO. 700 FEET. THE EAST BRANCH WAS JUST FIRED AND BROKE THRU- 1200 LEV IN TWO PLACES. THE REST HAS TO BE STRIPPED. GOT SOME ZN MG CO₂ FROM THE WEST VEIN.

24 FEB 83 430 AND 1200 LEVELS

USED AN AIR SHOVEL TO CLEAN UP TWELVE CARS OF FILL UNDER THE OVERSIZE RAISE ON 430 LEVEL. GOT SOME PIECES FROM THE ORE PASS AREA. GREEN XLS IN CALCITE. WENT TO 1200 AND WORKED ON REMOVING TRACKS FROM THE DRIFT WHERE 1020 STOPE WILL BE BREAKING LEVEL.

27 FEB 84 1020 STOPE 1200 LEVEL

STARTED A DRIFT TO EXTEND THE NORTH END OF THE WEST VEIN. ROY MILLER HURT HIS ARM WHILE BOLTING AND WENT TO THE HOSPITAL. I CAN'T WORK IN A STOPE ALONE (FEDERAL LAW) SO I WORKED ON

DISMANTLING THE TRACKS ON 1200 LEV.

28 FEB 84 1020 STOPE 1200 LEVEL

FINISHED DRILLING THE DRIFT ROUND.
60 FEET. LOADED ONE BOX ATLAS POWER-
MAX AND FIRED. PUT IN TWO BOLTS AND
SCALED LOOSE IN THE EAST BRANCH.

29 FEB 84 1020 STOPE

DRILLED AND FIRED A 13' STRIP IN THE
EAST BRANCH. 50' AND 35 POUNDS ANFO.
JUMBO DRILLED WEST VEIN. 240'

1 MAR 84 1020 STOPE

JUMBO DRILLED. 530'. SCALED LOOSE IN
THE EAST BRANCH. THE STRIP ROUND BROKE
GOOD.

2 MAR 84 1020 STOPE.

JUMBO DRILLED. 500'. GOT TO PLAY
CAGEMAN AFTER LUNCH.

5 MAR 84 1020 STOPE 1200 LEVEL

WORKED ON THE EAST BRANCH. DOUG
DRILLED UP-HOLES IN THE WEST VEIN.

PUT IN 7 BOLTS. DRILLED AND FIRED
ANOTHER STRIP. 40 FEET AND 30 POUNDS
OF ANFO. STARTED DRILLING A STRIP ON
THE FOOT WALL.

6 MAR 84 1020 STOPE

DRILLED A DRIFT ROUND IN THE NORTH
END OF THE WEST VEIN. 175 FEET. WILL
FIRE IT TOMORROW.

7 MAR 84 1020 STOPE

DRILLED A STRIP ON THE EAST BRANCH
FOOT WALL. BOLTED IN THE WEST VEIN FOOT
WALL DRIFT. 7 BOLTS. LOADED AND FIRED
THE STRIP AND THE DRIFT ROUND IN THE
WEST VEIN. 120 POUNDS ANFO.

8 MAR 84 1020 STOPE

DRILLED AND FIRED A STRIP ON THE EAST
BRANCH FOOTWALL. BOLTED IN THE DRIFT ABOVE
THE WEST VEIN. 15 BOLTS. HELPED DOUG

LOAD A SMALL DRIFT ROUND IN THE NORTH
END OF THE WEST VEIN. HE HIT FILL AT
6 FEET. GOT SOME MICRO FRANKLINITES
IN FLUORITE AND GYPSUM.

9 MAR 84 1020 STOPE 1200 LEVEL

BOLTED IN THE DRIFT ABOVE THE WEST
VEIN. 4 BOLTS. DRILLED ONE 13' HOLE ON
A STRIP IN THE WEST VEIN. WENT DOWN
INTO THE STOPE AND DRILLED SOME STRIP
HOLES AROUND THE DRIFT THAT WE FIRED
YESTERDAY. DRILLED UPPERS WITH THE
JUMBO. 200 FEET. GOT MORE FRANKLINITES XLS.

12 MAR 84 1020 STOPE

DRILLED UPPERS WITH JUMBO. 270 FEET.

BOLTED IN WEST VEIN DRIFT ABOVE THE

STOPE. 2 BOLTS. DRILLED 30' ON A STRIP.

HELPED DOUG LOAD THE STRIP DOWN IN THE

STOPE. 100 POUNDS ANFO.

13 MAR 84 1020 STOPE 1200 LEVEL

TRAMMED ON 1300 LEVEL. 30 CARS. ADDED TWO RINGS TO THE SOUTH CRIB. DRILLED THE LAST 13' HOLE IN THE WEST VEIN STRIP ON 1200 LEVEL. PUT IN 6 MORE BOLTS IN THE WEST VEIN DRIFT ON 1200 LEVEL.

14 MAR 84 1020 STOPE

DRILLED TWO 13' HOLES IN A STRIP IN THE EAST BRANCH ON 1200 LEVEL. TRAMMED AND CLEANED OUT CRIB BOX ON 1300 LEVEL. 28 CARS. PUT UP 3 RINGS ON THE NORTH CRIB. GOT ALL TOOLS HUNG UP IN PREP FOR HYDRAULIC FILL. GOT SOME RHODONITE AND WILLEMITE FROM 1380 U.C.P. 1300 LEVEL.

15 MAR 84 1020 STOPE

FINISHED FILL PREP. REMOVED TRACKS AND OLD AIR PIPES FROM THE DRIFT OVER THE STOPE. FINISHED THE EAST BRANCH STRIP AND BOLTED IN THE EAST BRANCH DRIFT. GOT MORE RHODONITE - WILLEMITE FROM 1380 U.C.P.

16 MAR 84 1300 X-CUT 1100 LEVEL

SLUSHED AND AIR SHOVELLED 10 CARS OF ORE OUT OF THE X-CUT. DRILLED AND FIRED A SEVEN FOOT ROUND. CHECKED OUT 1020 ACCESS DRIFT. THE MAGNUS-SONITE VEIN AWAITS, TANTALIZINGLY.

19 MAR 84 1220 U.C.P. 700 LEVEL

HELPED CLIFF GET STARTED MUCKING. TRAMMED ON 900 LEVEL. 12 CARS. CLEANED MUCK OFF THE FOOTWALL. IT WAS SATURATED WITH CEMENT WHICH CAME FROM A FILL JOB ON 600 LEVEL. HAD TO FIRE THE MUCK TO BREAK IT LOOSE. 1220 PILLAR IS BREAKING THRU 700 LEVEL. THIS WILL BE THE LAST CONTRACT.

20 MAR 84 1020 STOPE 1200 LEVEL

LOADED SEVEN ROWS OF UP-HOLES IN THE EAST BRANCH AND A FLAT BENCH ON THE LEVEL. SEVEN BAGS OF ANFO. THE EAST BRANCH IS NOW BROKEN THRU 1200 LEVEL TO THE SOUTH RAISE BORE HOLE.

21 MAR 84 1220 U.C.P. 700 LEVEL
BROUGHT A MOTOR UP ON THE CAGE
FROM 1750 LEVEL. TOOK A FLAT CAR LOAD
OF TIMBER BACK TO THE PILLAR AND
BUILT A FILL FENCE.

22 MAR 84 1220 U.C.P. 700 LEVEL
FINISHED FILL PREP IN THE PILLAR AND
BUILT DAMS UNDER THE CHUTE ON 900
LEVEL. WENT TO 1020 U.C.P. ON 600 LEVEL
TO LOOK OVER CLIFF'S NEXT JOBS. CHECKED
OUT 1010 STOPE. GOT SOME PIECES FROM
THE MUD ZONE IN THE HANGING WALL.

23 MAR 84 1020 U.C.P. 600 LEVEL
SHOVELLED MUD AND CEMENT IN THE
DRIFT TO 1020 U.C.P. TWO CARS. GOT A
HEMIMORPHITE FROM THE MUD ZONE IN THE
H/W OF 1010 STOPE 600 LEVEL.

26 MAR 84 1380 U.C.P. 1300 LEVEL
MOVED A CARAVO TO THE STATION AND MOVED
4 MANWAY PIPES TO THE PILLAR. GOT SOME
KRAISSLITE AND CHLORO PHOENICITE.

27 MAR 84 DDH 469 EAST VEIN 1100 LEVEL

CORED FROM 5' TO 32'. LOW ORE
5' TO 23', ORE W/ZINCITE FROM 23'
TO 32'. SLIKER GOT ME TWO NEW
PIPE WRENCHES. GOT TWO PIECES FROM
A HETEAROLITE - UNKNOWN # 7 VEIN IN
1020 ACCESS DECLINE.

28 MAR 84 DDH 469

CORED FROM 32' TO 57'. ORE W/ZINCITE
32' TO 55'. WHITE ROCK 55' TO 57'.

THE ORE WAS VERY HARD AND CAUSED SLOW
DRILL OPERATION. HAD TO FOLD AND ASSEMBLE
TWO OF THE NEW WAXED CARDBOARD CORE
BOXES. A FRUSTRATING EXPERIENCE.

GOT MORE MAGNUSSONITE FROM 1020
ACCESS DECLINE.

29 MAR 84 DDH 469

DRILLED FROM 57' TO 86'. ALL WHITE ROCK.

HOLE FINISHED. HIT A SMALL FLOW OF

WATER AT 72'. $\Delta + 13^\circ$ AZ. N 48° E.

LEFT WORK EARLY DUE TO HEAVY SNOW.

30 MAR 84 1450 STOPE 1750 LEVEL

HAULED 13 BAGS OF ANFO UP THRU THE CRIB. LOADED A MILLISECOND ROUND. FIRED AFTER EVERYONE ELSE WAS OUT OF THE MINE. GOT SOME PIECES FROM A LENS OF MIXED SULFIDES AT THE NORTH END OF THE STOPE.

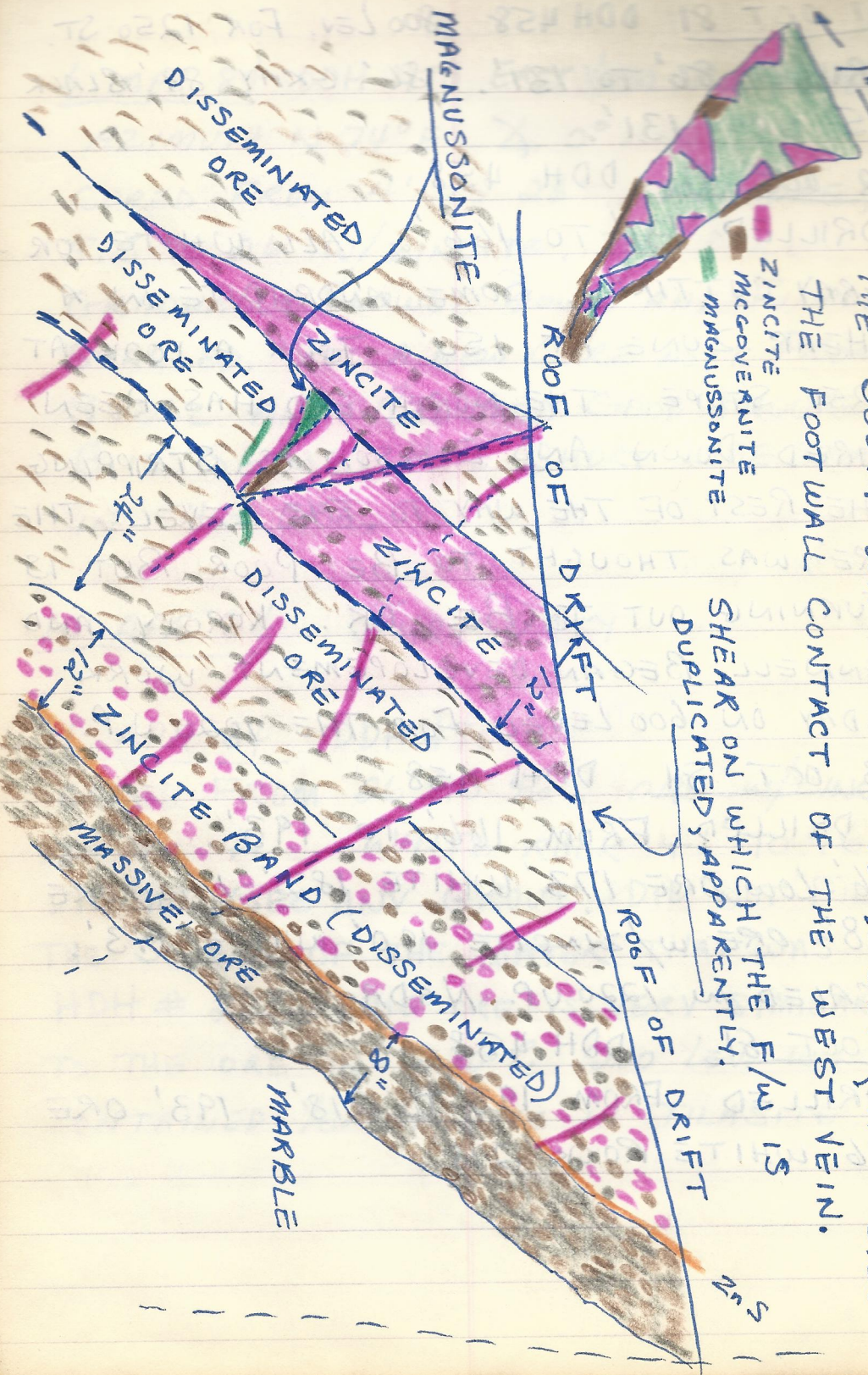
2 APR 84 DDH 470 EAST VEIN 1100 LEVEL
MOVED COLUMN AND SET UP FOR NEW HOLE. SVECZ CAME DOWN WITH A TRANSIT AND LINED UP THE DRILL. DRILLED PILOT HOLE, REAMED IT, INSTALLED VALVE PIPE AND BOLTED IT IN WITH 3' BOLTS. SET UP GROUNTER. TOOK AN AIR HOSE AND "53" TO 1020 ACCESS DECLINE. DRILLED TWO HOLES NEAR THE MAGNUSSONITE VEIN AND WEDGED OFF SOME PIECES. ONE NICE PIECE SHOWS THE VEIN WITH ORE ON BOTH SIDES (# 497)

3 APR 84 JURY DUTY

4 APR 84 DDH 470 EAST VEIN 1100 LEV.
GROUTED THE VALVE PIPE. GOT THE
MOTOR OFF THE TRACK. HAD TO CALL FOR
A TRACK JACK TO RERAIL IT. WEDGED
MORE PIECES OFF THE MAGNUSSONITE VEIN
IN 1020 ACCESS DECLINE. SOME ARE VERY
NICE. WENT TO 1300 U.C.P., 1200 LEVEL
AND MOVED TOOLS & PIPES OUT OF THE
SCRAM DRIFT. WENT TO 1020 STOPE AND
HELPED FRANCISCO LOAD A RAISE ROUND
AND A STRIP. 4 BAGS OF ANFO.

5 APR 84 DDH 470
CLEANED CEMENT OUT OF VALVE PIPE
AND SET UP MACHINE TO START DRILLING.
GROUT DID NOT SEEM SOLID ENOUGH SO I
WONT DRILL TODAY. HELPED NORM FARLEY
IN 1300 X-CUT. HE IS BUILDING A TIMBER
SUPPORT FOR SOME BAD GROUND. GOT THE
LAST BATCH OF MAGNUSSONITE. SEE NEXT
PAGE. THE PURPOSE OF DDH 470 IS TO HIT
THE END OF HDH # 21 AND CHECK FOR
GROUT OR WATER.

THE SOUTH WALL OF 1040 X-CUT, 1100 LEVEL
 THE FOOTWALL CONTACT OF THE WEST VEIN.



6 APR 84 DDH 470 EAST VEIN 1100 LEVEL.

AZIMUTH N 74° E Δ 0°

CORED FROM 4' TO 26'. ALL ORE;
5.5 TO 26 W/ZINCITE. THE DRILL
GRADUALLY SLOWED DOWN AND FINALLY
STALLED. GOT A NEW CORE BIT FROM
SVE CZ AND RESUMED GOOD PROGRESS.
BITS SEEM TO HAVE SHORT LIFE SPAN
IN THIS ORE.

10 APR 84 JURY DUTY

11 APR 84 DDH 470

CORED FROM 26' TO 46'. ORE W/ZINCITE
26' TO 41'. WHITE ROCK 41' TO 46'.
DID NOT SEE ANY GROUT. DID NOT FIND
THE SOURCE OF THE WATER THAT WAS IN
HDD # 21. THIS ORE IS VERY SIMILAR
TO THE ORE IN 820 P. 1200 LEV. WHICH
CONTAINED YEATMANNITE IN TILASITE.

12 APR 84 EAST VEIN 1100 LEVEL

SET UP THE GROUT PUMP AND GROUTED THE LAST 3 HOLES. 3 BAGS CEMENT. PACKED UP THE DRILL AND TOOLS. MOVED TO 1200 LEVEL.

13 APR 84 1060 X-CUT 1200 LEVEL

HELPED THE CAGEMAN MOVE A MOTOR FROM 1400 TO 1750 LEVEL. MOVED THE DRILL TO 1060 X-CUT. WILL TRY TO FIND THE BOTTOM OF THE EAST VEIN. HAD TO CARRY EVERYTHING 500' DUE TO TRACKS BEING DISMANTLED OVER 1020 ST.

16 APR 84 DDH 471 1060X-CUT 1200 LEVEL

MOVED A LARGE POWDER SHIPMENT TO THE MAGAZINE. CHANGED OVER AND SET UP THE HOIST. DRILLED THE PILOT HOLE FOR THE VALVE PIPE. DRILLED A STRIP IN FRONT OF THE DIAMOND DRILL.

17 APR 84 JURY DUTY

18 APR 84 DDH 471 1200 LEVEL

TOOK FILL PIPE DOWN AND FIRED THE STRIP.
5 STICKS ATLAS. EXPOSED AN EAST-WEST
BAND OF CALCITE WITH MUCH GALENA.

REAMED PILOT HOLE. BOLTED VALVE PIPE
IN PLACE. GOT VALVES AND GROUTER
FROM 1100 LEVEL. SET UP GROUTER AND
GROUTED VALVE PIPE.

19 APR 84 MINE RESCUE TRAINING

PUT ON MCCAS AND WENT TO 1850 LEV.
TOOK AN ELECTRIC WELDER BACK TO
THE REFUGE CHAMBER. SEALED HOLES IN
THE AIR LOCK. SET UP A SHELF FOR THE
CHEMOX RESCUERS.

24 APR 84 DDH 471

SET UP DRILL. DRILLED GROUT OUT OF
VALVE PIPE. DRILLED TO 17'. GREEN CUTTINGS.
NEED A NEW PILOT BIT. HOLE IS AIMED A FEW
DEGREES NORTH OF DRIFT CENTER LINE IN
ORDER TO MISS A FILL RAISE. $\angle + 40^\circ$. BROUGHT
HOME SOME GALENA AND 2 MICROS.

25 APR 84 DDH 471 1060 X-CUT 1200 LEVEL
DRILLED 17' TO 30'. ALL GREEN ROCK AND
VERY HARD. SET UP ROD PULLER AND
REPAIRED BROKEN WATER FITTING. GOT
SOME MICROS AND A NICE RED & GREEN
FROM 1570 E. STOPE. WENT UP TO 1100
LEVEL AT 2:30 AND FIRED A RAISE
ROUND IN 1300 PILLAR.

26 APR 84 DDH 471
DRILLED FROM 30' TO 60'. GREEN ROCK
EXCEPT 43' TO 45' WHITE ROCK. GOT A
WOLLASTONITE FROM 1060 X-CUT NEAR THE
1020 STOPE HANGING WALL. CHECKED OUT
THE OLD BROWN WILLEMITE ZONE STOPE IN
THE F/W OF 1570 E. BLASTING IN 1570 E
IS CAUSING SEVERE DETERIORATION IN
GROUND CONDITIONS.

27 APR 84 DDH 471
CORED FROM 60' TO 80'. ALL PYROXENE ZONE.
POOR GROUND FOR CORING. FREQUENT BIT PLUGS.

30 APR 84 DDH 471 1060 X CUT 1200 LEVEL
CORED FROM 80' TO 105'. 80' TO 95'
MOSTLY WHITE ROCK WITH FREQUENT SHEARS.
95' TO 105' HIGH GRADE ORE WITH MUCH
ZINCITE. BROUGHT HOME A WOLLASTONITE
FROM 1060 XCT NEAR 1020 STOPE. FIRED
J. GODBEY'S RAISE ROUND IN 1300 TSP ON
1100 LEVEL. ACCORDING TO THE PROJECTED
CONTACTS ON THE RESERVE SECTION MAPS
I SHOULD HAVE HIT ORE AT 60'.

1 MAY 84 JURY DUTY

2 MAY 84 DDH 471
CORED FROM 105' TO 125'. 105 TO 111
ORE W/ZINCITE; 111 TO 115 ORE; 115 TO 125
MARBLE. REPAIRED BROKEN FITTING ON
WATER SWIVEL.

3 MAY 84 DDH 471
DRILLED 125' TO 136'. HIT WATER AT 128'.
SEVEN GAL/MIN. GOT SOME JOHNBAUMITE AND
A FRANKLINITE XL FROM 1570 E. STOPE. RESET
DRILL TO 27.5° FOR NEXT HOLE.

4 MAY 84 DDH 472 1000 FOOT DEEP
DRILLED PILOT HOLE FOR VALVE PIPE.
REAMED IT TO 2" DIAMETER. BOLTED
VALVE PIPE IN AND GROUTED IT. GOT A
FRANKLINITE FROM 1570E.

7 MAY 84 DDH 472

SET UP THE DRILL AND DRILLED
GROUT OUT OF VALVE PIPE. DRILLED TO
23'. GREEN ROCK AND VERY HARD. BULL
BIT WOULD NOT CUT IT. HAD TO USE
CORE BIT. HAD THE FIRST HOUR OF
YEARLY MINE SAFETY REFRESHER
TRAINING IN THE ADIT AT 7 AM.

8 MAY 84 JURY DUTY

9 MAY 84 1100 LEVEL

HELPED RAISE MAN SET UP TO DRILL A ROUND
IN 1300 H/W RAISE. REPAIRED DOUBLE LUNG
PUMP IN 1020 ACCESS DECLINE. SHOVELLED UP
A CAR OF MUD IN 1220 X-CUT. WENT TO 600
LEVEL AND HELPED GODBEY SET UP TO DRILL
IN 1010 RAISE. FIRED THE ROUND ON 1100 LEVEL.