

14 JAN 83 DDH 461 1570E. ST. 1200 LEV.

HELPED BOB WILLIAMSON IN 1300 X-CUT  
1300 LEV. UNTIL THE WATER SWIVEL  
CAME BACK FROM THE SHOP. DRILLED  
FROM 5' TO 25'. ALL WHITE CUTTINGS.  
GOT 2 PIECES OF "RED & GREEN" FROM  
THE SOUTH END OF 1570 E.

17 JAN 83 DDH 461

DRILLED FROM 25' TO 59'. 25 TO 37  
WHITE; 37-59 GREEN ROCK AND VERY  
HARD. CHISELLED SOME CHIPS OFF THE  
YEATMANITE LOCATION IN 820 P. CAME  
UP EARLY FOR A GEOLOGY LECTURE IN  
THE MINE OFFICE.

18 JAN 83 DDH 461

DRILLED FROM 59' TO 85'. 59 TO 73  
GREEN ROCK; 73 TO 81 WHITE ROCK;  
81 TO 85 ORE.



19 JAN 83 DDH 461 1570E ST. 1200 LEV.  
DRILLED 85' TO 92.5'. ALL ORE.  
HELPED STEVE DEKMAR WITH CRUSHER  
REPAIRS BEFORE 9 AM AND AFTER  
1:30 PM. HE WAS MY HELPER FROM  
9 AM TO 1:30 PM. CHISELLED SOME  
PIECES OFF THE 1200 LEV. YEATMANITE  
LOCATION.

20 JAN 83 1260 U.C.P. 1000 LEV.  
HELPED ROY RUSSMAN TODAY. TRAMMED  
28 CARS. HAD TO FIRE THE CHUTE 3  
TIMES. GOT A PIECE OF A QUARTZ  
VEIN FROM A SHEAR ZONE AT THE  
HANGING WALL CONTACT OF THE C.2.2.

21 JAN 83 MINE RESCUE TRAINING.  
TOOK A FIRE HOSE TO 1540 U.C.P. AND  
USED WATER FROM THE FILL SYSTEM  
TO PRACTICE FIRE FIGHTING.



24 JAN 83 DDH 461 1570E. ST. 1200 LEV.

DRILLED FROM 92.5' TO 110'. 92.5 TO 106 WHITE ROCK; 106 TO 110 ORE. THE REBUILT WATER SWIVEL HAS DEVELOPED A LEAK. SCALED LOOSE IN THE 1220-1240 X-CUT AREA. THERE ARE EPIDOTE VEINS THERE THAT ARE WORTHY OF INVESTIGATION.

25 JAN 83 DDH 461

DRILLED FROM 110' TO 130'. TO 114 CALCITE (FL. RED) WITH SPARSE LARGE ORE GRAINS; 114 TO 130 CALCITE (H/W - NON FL.) LOOKED IN 1020 STOPE. NO SIGN OF ARSENATES IN EAST BRANCH. (10' BELOW 1200)

26 JAN 83 DDH 461

DRILLED FROM 130' TO 134'. ALL WHITE ROCK. MOVED DRILL TO 430 LEVEL AND TOOK IT BACK TO 935 STOPE.



27 JAN 83 DDH 462 935 ST. 430 LEV.  
SET UP THE DRILL AT THE SITE OF  
DDH 389. ANGLE IS  $+25^{\circ}$   $\swarrow$ . DRILLED  
13'. 0' TO 1' WHITE ROCK; 1' TO 9' GREEN  
ROCK; 9' TO 13' WHITE ROCK.

28 JAN 83 DDH 462  
DRILLED FROM 13' TO 47'. MOSTLY WHITE  
ROCK WITH NARROW BANDS OF GREEN.  
SET UP ROD PULLER. CHECKED OUT  
1060 U.C.P. SAW 2 NARROW BANDS OF  
COPPER ALTERATION.

31 JAN 83 1020 ~~1020~~ <sup>STOPE</sup> 1200 LEV.  
HELPED DOUG PUT 3 BOLTS IN THE  
HANGING WALL. TRAMMED 75 CARS.  
TRAMMED 6 CARS FROM 1300 X-CUT.

1 FEB 83 DDH 462  
DRILLED FROM 47' TO 68'. 47 TO 63 WHITE  
ROCK; 63 TO 68 ORE. STARTED TAKING  
CORE AT 60'. WALKED DOWN THE 1020 U.C.P.  
RAISE TO 600 LEV. GOOD ORE ALL THE WAY.



2 FEB 83 DDH 462 935 ST 430 LEV.  
DRILLED FROM 68' TO 80'. ALL ORE.  
HAD TROUBLE WITH FREQUENT BIT  
PLUGS.

3 FEB 83 935 ST. 430 LEV.  
HELPED RESTREPO INSTALL ROOF  
BOLTS. 19 BOLTS. PULLED CHUTE AFTER  
LUNCH. 33 CARS.

4 FEB 83 935 STOPE  
TRAMMED 90 CARS. HAD TO GO DOWN  
TO 600 LEVEL AFTER LUNCH TO RUN  
THE ORE PASS.

14 FEB 83 DDH 462  
DRILLED FROM 80' TO 100'. 80' TO 89'  
ORE W/ZINCITE; 89' TO 100' WHITE  
ROCK. HOLE FINISHED.



15 FEB 83 1060 CHUTE 600 LEVEL

SPENT ALL MORNING GETTING A  
LOADED ORE CAR OUT OF THE HOLE BY  
THE BULKHEAD DOOR. REBUILT THE  
BRIDGE (IT HAD COLLAPSED). TRAMMED  
30 CARS FROM 1060 CHUTE. GOT THE  
MOTOR OFF THE TRACK THREE TIMES.

16 FEB 83 DDH 463 935 ST 430 LEV.

MOVED DRILL 20' SOUTH AND SET UP  
FOR NEXT HOLE. HELPED RESTREPO  
REMOVE AIR & WATER PIPES FROM THE  
DRIFT ABOVE 935 STOPE. REPAIRED  
CHUTE PLATFORM ON 500 LEVEL.

17 FEB 83 1060 CHUTE 600 LEVEL

PULLED 63 CARS. HAD TO FIRE ONCE.  
GOT THE MOTOR OFF THE TRACK TWICE.  
PULLED FOUR CARS FROM 1200 CHUTE.



18 FEB 83 1060 U.C.P. 430 LEVEL  
TRAMMED 27 CARS IN AM WHILE  
DOMINIC SLUSHED. WENT INTO THE  
PILLAR AFTER LUNCH. DOMINIC WENT  
HOME AT 2 PM AND I SLUSHED AFTER  
THAT. SCALED A LARGE CHUNK OFF  
THE SOUTH RIB. IT HAD A BAND OF  
COPPER ALTERATIONS IN IT. BREAKING  
IT OPEN PRODUCED A SPECIMEN OF SILVER.

21 FEB 83 DDH 463 935 STOPE 430 LEV.  
FINISHED SETTING UP DRILL AND DRILLED  
FROM 0' TO 16'. 0' TO 9' WHITE ROCK;  
9' TO 14.5' GREEN ROCK; 14.5' TO 16'  
WHITE ROCK.

22 FEB 83 DDH 463  
DRILLED FROM 16' TO 38'. ALL WHITE ROCK.  
PUT A NEW SEAL IN THE WATER SWIVEL.  
PULLED TWO CARS OUT OF THE OVERSIZE  
RAISE. THIS HOLE IS AT  $+30^{\circ}$   $\frac{1}{4}$ . IT IS  
BEING DRILLED ON THE SAME BEARING AS  
DDH 391.



23 FEB 83 DDH 463 935 ST. 430 LEVEL  
DRILLED FROM 38' TO 85'. 38 TO 58  
WHITE ROCK; 58 - 66 GRAY CUTTINGS  
(BLACK ROCK?); 66 TO 85 WHITE ROCK.

24 FEB 83 DDH 463  
CORED FROM 85' TO 105'. 85' TO 96'  
WHITE ROCK; 96' TO 101' PYROXENE  
ZONE (MASSIVE); 101' TO 105' ORE.

25 FEB 83 DDH 463  
CORED FROM 105' TO 113'. ALL ORE.  
LAST FOUR FEET MASSIVE ZINCITE ORE.  
HIT RAISE BORE HOLE AT 113'. HOLE  
CAME OUT 3 1/2 LADDERS BELOW 340  
LEVEL. STARTED PACKING UP GEAR FOR  
MOVE TO 1100 LEVEL.

28 FEB 83 MOVED DRILL AND TOOLS TO  
THE STATION. DID SOME ODD JOBS ON 430  
AND 500 LEVELS, SO THAT SOME ONE WOULD  
BE NEAR 935 STOPE WHILE CHRIS AVER  
JUMBO DRILLS ALONE.



1 MAR 83 1060 U.C.P. 430 LEVEL  
WORKED WITH LORENZO. WE SLUSHED  
AND HAND MUCKED. MOVED THE SLUSHER  
AND JUMBO TO THE FOOTWALL SIDE  
OF THE CRIB. BEGAN MOVING STEELS,  
TOOLS, ETC. IN PREPARATION FOR FIRING  
THE BLACK ORE.

2 MAR 83 1060 U.C.P. 430 LEVEL  
MOVED EQUIPMENT TO THE FOOTWALL  
SIDE OF THE CRIB. FIRED THE  
BREAKING RAISE IN THE BLACK ORE.

3 MAR 83 1380 U.C.P. 1300 LEVEL  
STOPPED ON 430 LEV. TO PICK UP MY  
DRILL LOG BOOK AND "38". WENT TO  
1100 LEV. TO FIRE ORE PASS WHICH WAS  
HUNG UP ABOVE THE CRUSHER. WENT  
DOWN TO 1380 U.C.P. AND PUT IN TWO  
BOLTS. RESTREPO AND I TOOK TURNS  
MUCKING WITH THE CAARO TIL' LUNCH.  
NEVILLE CAME BACK AFTER LUNCH AND  
HE MUCKED WHILE I TRAMMED 12 CARS.



4 MAR 83 DDH 464 EAST VEIN 1100 LEV.

LOOKED OVER THE SITE FOR THE NEW TEST HOLE. IT WILL BE DRILLED FROM THE BROWN WILLEMITE ZONE DRIFT AT @ 1420 NORTH SECTION. WENT UP TO 1020 U.C.P., 600 LEVEL, WHERE I PLAYED "VICTIM" FOR A MINE RESCUE TEAM PRACTICE RESCUE. WENT BACK TO 1100 AND MOVED DRILL AND TOOLS TO THE DRILL SITE. CHECKED OUT THE 780 PILLAR-800 TRANSVERSE STOPE AREA AND DISCOVERED A LOCATION FOR GYPSUM IN 780 PILLAR. IT IS A LEACHED OUT ZONE IN THE FOOTWALL OF THE EAST VEIN. THE EAST VEIN IS @ 10' WIDE AND RICH IN ZINCITE.

7 MAR 83 DDH 464

SET UP DRILL AND DRILLED 26 INCHES. HAVE TO GET A VALVE TO DRILL THRU BEFORE GOING ANY FARTHER. CLEANED UP SOME MUD UNDER 1220 U.C.P. GOT ANOTHER GYPSUM SPECIMEN.



8 MAR 83 DDH 464 EAST VEIN 1100 LEV.  
DRILLED 3' TO MAKE ROOM FOR A  
VALVE ON A 5' PIPE. CLEANED MUD  
IN 1270 X-CUT WHILE WAITING FOR AN  
INSERT FOR THE REAMER BIT. GOT THE  
INSERT AND FOUND OUT THAT THE "38"  
DID NOT WORK. HAD TO GO TO THE SURFACE  
TO GET A "53". GOT STARTED ON REAMING  
THE HOLE. GOT MORE GYPSUM FROM  
780 PILLAR.

9 MAR 83 DDH 464

REAMED THE HOLE 5' DEEP. PUT IN  
THE 2" PIPE. I HAD TO DRIVE IT IN  
WITH THE DRILL. PUT IN TWO 6' BOLTS  
TO HOLD IT. WENT UP TO 180 LEVEL  
TO GET A WATER REMOVER FROM THE  
AIR LINE. I HAVE TO MODIFY IT FOR  
USE AS A GROUTER ON THE PIPE I  
PUT IN FOR DDH 464. CHECKED OUT THE  
GRAVITY TRAM ABOVE 180 LEV. AND THE  
OLD SHAFT AREA ON 180. GOT MORE  
GYPSUM. ALSO GOT A PIECE OF SPHALERITE  
LOELLINGITE FROM 1015 ST. 180 LEV. THAT  
HAS STRANGE MICROS IN IT. # 484



10 MAR 83 DDH 464 EAST VEIN 1100 LEVEL

⊙ GOT THE PIPE FITTINGS FOR THE  
GROUTER AND GROUTED THE VALVE.  
WENT TO 1540 U.C.P. AND SET UP THE  
JUMBO DRILL.

11 MAR 83 1540 U.C.P. 1500 Lev.

FINISHED JUMBO DRILL SET UP.  
DRILLED UP-HOLES. 450'.

14 MAR 83 DDH 464

DRILLED FROM 5'6" TO 35'. 5'6"-24'  
GREEN ROCK (VERY HARD); 24' TO 35'  
WHITE ROCK. THE VALVE SET-UP I AM  
DRILLING THRU SEEMS TO BE WORKING OK.  
GOT MORE GYPSUM.

15 MAR 83 DDH 464

DRILLED FROM 35' TO 67'. 35' TO 64'  
WHITE ROCK; 64' TO 67' GREEN ROCK.  
SET UP ROD PULLER. GOT ANOTHER  
GYPSUM SPECIMEN.



16 MAR 83 1110 STOPE 800 LEVEL

WORKED WITH MIKE HALLOWICH.  
WE SCALED AND BOLTED. 25 BOLTS.

17 MAR 83 1020 STOPE 1200 LEVEL

HELPED DOUG BOLT. 10 BOLTS. I  
USED THE LHD TO FILL THE CRIB.  
TRAMMED 15 CARS WHILE DOUG  
MUCKED. DRILLED AND FIRED 10 BLOCK  
HOLES. GOT SOME WILLEMITE XLS.

18 MAR 83 1220 U.C.P. 700 LEV.

HELPED STEVE YANECKO JR. LOAD  
7 1/2 BAGS OF ANFO. WIRED UP  
AND FIRED AFTER EVERY ONE ELSE  
GOT UP TO THE ADIT. FOUND SOME  
KRAISSLITE IN A SLIP ON THE  
SOUTH RIB. THE SLIP DIPS APPROX.  
45° WEST & STRIKES NORTH.



21 MAR 83 DDH 464 1100 LEVEL  
DRILLED FROM 67' TO 100'. 67' TO 71'  
GREEN ROCK; 71' TO 83' WHITE ROCK;  
83' TO 85' GREEN ROCK; 85' TO 100' WHITE  
ROCK. CHECKED OUT 740 PILLAR. EAST  
VEIN MINED, WEST VEIN ORE STILL THERE.  
SAW A SLIP WITH OPEN POCKETS BUT COULD  
NOT GET ANYTHING. BROUGHT OUT A  
780 PILLAR GYPSUM.

22 MAR 83 1020 STOPE 1200 LEV.  
HELPED ROY MILLER. WE FIRED 2 MISHOLES  
IN A DRIFT ROUND. DRILLED AND FIRED  
A LARGE STRIP ON THE FOOTWALL OF THE  
EAST BRANCH.

23 MAR 83 HAD TO GO TO NEWARK FOR  
GRAND JURY DUTY. GOT PICKED TO SERVE ON  
THE TUESDAY GRAND JURY FOR ELEVEN MONTHS.

24 MAR 83 DDH 464  
DRILLED FROM 100' TO 125'. ALL WHITE ROCK.  
CAME UP AT 1:30 PM TO TAKE A TEST FOR  
A BLASTING LICENSE.



25 MAR 83 MINE RESCUE TRAINING

USED THE CHEMOK BREATHING APPARATUS ON A PRACTICE RESCUE. WENT TO 1220 U.C.P. ON 700 LEVEL AND PUT BOB SVECZ IN THE NEW STRETCHER. PULLED HIM UP THE MANWAY. USED THE MCCAAS ON THE SURFACE TO PRACTICE ON A TIRE FIRE.

28 MAR 83 DDH 464. 1000 ST. 1100 LEV.

CORED FROM 125' TO 155'. 125 TO 130.5 WHITE ROCK; 130.5 TO 131 ORE; 131 TO 141 WHITE ROCK; 141 TO 155 PYROXENE ZONE WITH LOTS OF FRANKLINITE.

29 MAR 83 GRAND JURY DUTY

30 MAR 83 1110 ST. 800 LEV.

TRAMMED ON 900 LEVEL AFTER SPENDING THREE HOURS ON TRACK REPAIRS. DID SOME FILL PREP IN THE STOPE.



31 MAR 83 1110 STOPE 800 LEVEL

WORKED ON FILL PREP. GOT SOME NORBERGITE FROM 1220 X-CUT. GOT SOME PYRITE MICROS FROM 1250 STOPE.

5 APR 83 JURY DUTY

6 APR 83 ANNUAL SAFETY TRAINING.

7 APR 83 1110 STOPE 800 LEV.

PUT UP CRIBBING. GOT SOME PIECES OF AN AMPHIBOLE FROM THE F/W.

8 APR 83 1110 STOPE 800 LEV.

FINISHED NORTH CRIB AND NORTH MANWAY TUBE. MOVED ALL TOOLS SOUTH TO THE SOUTH CRIB AREA.

THE FILL CREW IS GOING TO START FILLING THE NORTH END WHILE WE ARE WORKING ON THE SOUTH END. (BOLTING AND MUCKING)



11 APR 83 FILL CREW

FINISHED FILLING 1060 U.C.P. ON  
430 LEVEL AND MOVED TO 1220 U.C.P.  
ON 700 LEVEL. INSTALLED A PUMP  
AND DISCHARGE HOSES UNDER THE  
CHUTE ON 900 LEVEL AND STARTED  
RUNNING FILL.

12 APR 83 GRAND JURY DUTY

13 APR 83 1110 ST. 800 LEVEL

TRAMMED ON 900 LEVEL. 60 CARS.  
HAD TROUBLE WITH WEAK BATTERIES  
IN THE MOTOR. SCALED LOOSE AT 1580 N  
IN THE EAST VEIN DRIFT. NO SPECIMENS.

14 APR 83 1110 ST. 800 LEVEL

TRAMMED AGAIN. 66 CARS. GOT SOME  
PIECES OF CALCITE FROM THE SELIG-  
MANNITE LOCATION.

15 APR 83 1110 STOPE 800 LEVEL  
DRILLED DOWN THE MUCK PILE AND  
PUT 5 BOLTS IN THE HANGING WALL.  
CONTINUED BOLTING ON TOP. 16 BOLTS.  
WE WANTED TO FIRE BLOCK HOLES  
BUT A TRAMMING HOSE BLEW OUT ON  
THE EIMCO 911.

18 APR 83 1110 ST. 800 LEV.  
TRAMMED ON 900 LEVEL. 78 CARS. HAD  
TO STOP AND CHARGE THE MOTOR 4 TIMES.

19 APR 83 JURY DUTY

20 APR 83 1110 ST. 800 LEVEL  
TRAMMED ON 900 LEV. 78 CARS. HAD TO  
STOP AND CHARGE THE MOTOR 4 TIMES.  
SCALED LOOSE IN 1120 STOPE. THERE IS  
GAHNITE AND RHODONITE IN THE NORTH END.

21 APR 83 1110 ST. 800 LEV.  
SCALED AND BOLTED. 25 BOLTS.



22 APR 83 1110 STOPE 800 LEV.

TRAMMED ON 900 LEVEL. 78 CARS.  
HAD TO CHARGE THE MOTOR 4 TIMES,  
TIGHTENED UP LOOSE FISH PLATES  
IN THE TRACK. TOOK HOME TWO PIECES  
OF ZINCITE ORE.

25 APR 83 1060 U.C.P. 430 LEVEL

DRILLED UP-HOLES WITH JACKLEG WHILE  
BOB WILLIAMSON JUMBO DRILLED. TOTAL  
OF 700'. GOT SOME LOELLINGITE IN  
SPHALERITE FROM THE BLACK WILLEMITE ZONE.

26 APR 83 JURY DUTY

27 APR 83 1660 U.C.P. 1600 LEVEL

RUSSMAN FIRED DOWN THE RED ORE LAST  
NITE. WE WASHED DOWN THE MUCK PILE  
AND SET UP TO BOLT. 10 BOLTS.  
SCALED DOWN LOTS OF BIG LOOSE.

28 APR 83 1660 U.C.P. 1600 LEV.

SPENT THE WHOLE SHIFT SCALING AND FIRING DOWN BIG LOOSE.

29 APR 83 1110 STOPE 800 LEVEL

WORKED ON THE FILL CREW. HAD TO MAKE ABOUT 8 PIPE CONNECTIONS BEFORE WE STARTED. WE ARE USING THE NEW FILL - CRUSHED LIMESTONE FROM LIMECREST. IT BUILDS UP FAST AND SEEMS TO HOLD CEMENT BETTER THAN THE SAND PREVIOUSLY USED.

2 MAY 83 1060 U.C.P. 430 LEVEL

JIM BEDNAR AND I DRILLED UP-HOLES WITH THE JUMBO AND JACKLEG. 475'.

3 MAY 83 1660 U.C.P. 1600 LEVEL

SCALED AND BOLTED THE BROW. 17 BOLTS. SCALED SOME BIG PIECES OFF THE BROW. HAD TO FIRE TO GET THEM DOWN.  $\frac{1}{2}$  STICK. GOT MOST OF A LARGE FRANKLINITE IN 3 PIECES.



4 MAY 83 1660 U.C.P. 1600 LEVEL  
SCALED AND BOLTED. 10 BOLTS.

DRILLED 10 BLOCK HOLES AND BROKE  
THEM WITH WEDGE PINS. GOT SOME  
QUARTZ XTALS IN CALCITE FROM THE  
H/W OF AN OLD STOPE IN THE 1020 AREA.

5 MAY 83 DDH 464 1000 ST. 1100 LEV.

DRILLED FROM 155' TO 175'. 155' TO  
168' - PYROXENE ZONE; 168' TO 175' LOOKS  
LIKE ORE. NEEDS LAMP TEST.

6 MAY 83 1060 U.C.P. 430 LEVEL

BEDNAR FIRED ABOUT FIVE ROWS  
BACK FROM THE HANGING WALL SLOT  
YESTERDAY. WE SCALED AND BOLTED.  
13 BOLTS. SINCE THE MUCK PILE WILL  
BE TOO HIGH AT THE H/W AND TOO LOW  
AT THE CRIB WE SLUSHED SOME MUCK  
TOWARDS THE CRIB. GOT 2 PIECES OF  
LOELLINGITE IN SPHALERITE.



DATE ISSUED: August 9, 1982

1540 UP - MINING

Contract # 844

1400 Level

Breaking raises if required will be part of this Contract and will not be paid as a separate development contract.

The base used to calculate this Contract will be 8.5 tons per man shift.

It will include the following operations:

1. Drilling uppers with jackleg or stoper, 3.0' between rows and 2.5' between holes, inclination of holes will not be less than 65° from the horizontal and not more than 70°; drilling intermediate rib holes 18" apart;
2. Drilling test holes to establish mining limits.
3. Drilling strip holes or benches with jackleg or stoper;
4. Loading and blasting of all drill holes that are required;
5. Scaling and roof bolting as required;
6. Secondary blasting (blockholing);
7. Mucking out ore with slusher;
8. Handmucking;
9. Final clean-out (complete ore removal to bare fill floor and clean F.W. and H.W.):
10. Trammung all ore on level below;
11. Complete hydraulic fill preparation includes:
  - A. Putting up steel crib to proper height including tightening of all crib bolts and shimming if required;
  - B. Putting up manway pipe to proper height; and tightening bands;
  - C. Drainage pipe installation to proper height and tightening band if required;
  - D. Picking up and hanging all equipment above what will be finished fill elevation;
  - E. Chute and crib clean out (removal of all muck);
  - F. Whatever materials that are required to finish elevating cribs, manways and vent pipe as filling progresses, an ample supply of timber that will be required to complete filling of the working place.
12. All pipe work (air, water, and hydraulic fill pipe) that is required;
13. Ventilation work (air movers, etc.);
14. All work must be done in a safe manner and according to the General Foreman's instructions.

*David W. Smith*

D. W. Smith  
Superintendent of Operations