

21 MAY 81 1540 U.P. 1500 LEV.

FINISHED BOLTING RIBS, 8 BOLTS,
JARREL WENT TO 1600 TO TRAM. THE
CHUTE HUNG UP AFTER 27 CARS AND
WE HAD TO FIRE. I SLUSHED
AFTER LUNCH. HAD TO GO BACK TO
1600 AT 2:30 TO STOP JARREL,
HE PULLED TOO MANY CARS, WE
HAVE TO LEAVE THE ORE RAISE FULL
IN ORDER TO WORK AROUND IT.

22 MAY 81 1540 U.P. 1500 LEV.

SLUSHED. HAD MORE ORE THAN
EXPECTED. PULLED 19 MORE CARS,
HAD TO FIRE CHUTE AGAIN.

26 MAY 81 DDH 445 1020 U.P. 500 LEV.

DRILLED FROM 54' TO 83', HIT BLACK ORE
AT 74'. HAD TO CLEAN STUCK CORE OUT
OF BARREL. HAD TO LEAVE IT IN THERE ON
APRIL 8TH.

27 MAY 81 DDH 445 & 446 1020 U.P. 500 LEV. ⁶²⁵

DRILLED FROM 83' TO 94'. ALL ORE, BLACK GRADING TO RED (WITH ZINCITE). HOLE FINISHED. RESET DRILL TO +30° AND STARTED DDH 446. DRILLED 0' TO 7'. ALL WHITE ROCK. WE ARE TRYING TO FIND THE BOTTOM OF THE MAIN MASS OF THE BLACK WILLEMITE ZONE.

28 MAY 81 DDH 446 1020 U.P. 500 LEV.

DRILLED FROM 7' TO 54'. HIT BLACK ORE AT 45'. CHECKED OUT 1140 U.P. AT LUNCH TIME. NADA. THIS PILLAR WAS ABANDONED A FEW YEARS AGO.

29 MAY 81 DDH 446

DRILLED FROM 54' TO 94'. 54' TO 60' WAS GRAY ROCK WITH FLUORITE. 60' TO 94' BLACK ORE WITH UNALTERED WILLEMITE FROM @ 85' TO @ 90'. SEE SPEC # 424. WATER COLOR WAS RED-BROWN WHILE DRILLING THIS ORE. GOT A PIECE OF FLUORITE CORE FROM @ 56'. THIS HOLE IS FINISHED.

1 JUN 81 DIAMOND DRILL 500 & 600 LEV. ⁶²⁷

PACKED UP GEAR ON 500 LEVEL AND MOVED TO 600 LEVEL. WE HAVE TO SET UP IN 1040 X-CUT TO DRILL A HOLE FOR 1020 U.P. BEGAN RESTORING AIR AND WATER PIPES TO 1040 X-CUT.

2 JUN 81 DDH 447 1020 U.P. 600 LEV.

WORKED ON AIR AND WATER PIPES IN 1040 X-CUT. BOLTED 1040 X-CUT. 8 BOLTS. RAMAGE MADE US PROP AN OLD CHUTE IN 1080 X-CUT. CHECKED OUT 1010 STOPE AT LUNCH TIME. CHECKED OUT KEEL AREA. SAW LARGE FRANKLINITE (2") AND APATITE XLS IN CALCITE.

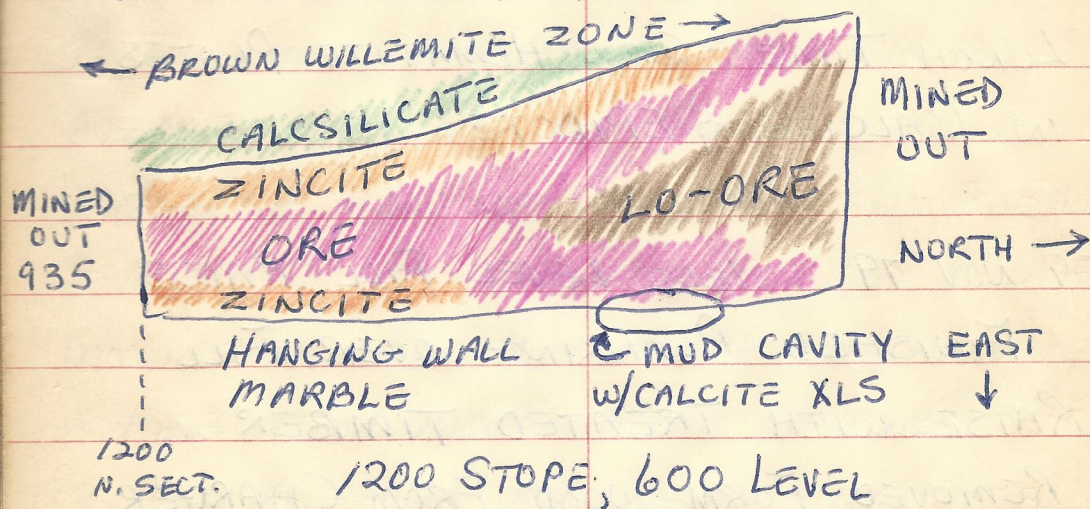
3 JUN 81 DDH 447

FINISHED BOLTING 1040 X-CUT. 5 BOLTS. FINISHED REPAIRS ON AIR AND WATER PIPES. SET UP DIAMOND DRILL. USED "38" TO MAKE A HOLE IN DRIFT WALL TO FACILITATE COLLARING DDH 447.

628
4 JUN 81 DDH 447 1020 U.P. 600 LEV.

DRILLED 45' 0' - 42' WHITE ROCK.

42' - 45' GREEN ROCK. CHECKED OUT
1200 STOPE, 600 LEVEL. THIS IS A BLOCK
OF ORE IN THE EAST VEIN NORTH OF
935 STOPE.



5 JUN 81 DDH 447

DRILLED FROM 45' TO 75', GREEN ROCK
TO 55', RED ORE W/ZINCITE TO 75'.

HAD SEVERE ICING PROBLEM IN DRILL UNTIL
9 A.M.

8 JUN 81 DDH 447 1020 U.P. 600 LEVEL.

DRILLED FROM 75' TO 86'. RAMAGE STOPPED US BECAUSE FILL WATER FROM 1060 U.P., ABOVE 500 LEVEL, IS RUNNING INTO 1040 STOPE. NO WATER IS COMING OUT INTO 1040 CROSS CUT ON 600 LEVEL AND HE FEARS THAT IS MAY BE BUILDING UP A DANGEROUS HEAD OF PRESSURE. DUTCH AND I WENT TO 800 LEVEL TO WORK IN A MUD DITCH. CHECKED OUT 740 PILLAR AND GOT A FEW MINOR MCGOVERNITE SPECIMENS. #428

9 JUN 81 1660 U.P. 1680 LEVEL

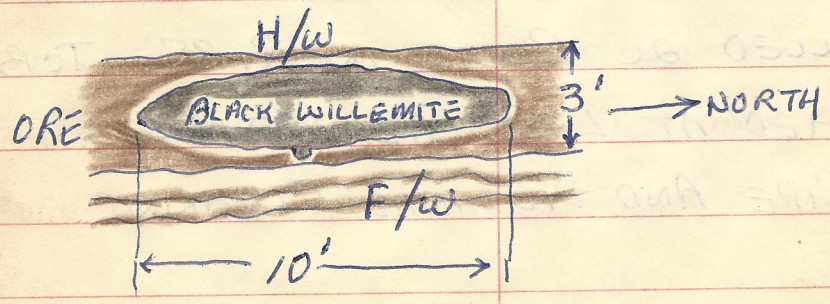
WORKED WITH BOB WILLIAMSON. HE PUT IN 14 BOLTS. WE SET UP AN AIR TUGGER TO DROP THE SLUSHER BUCKET DOWN THE CRIB. IT WILL BE REPLACED BY A HEAVIER ONE. THE BUCKET IS NOW STUCK IN THE CRIB BOX AND WONT GO UP OR DOWN.

10 JUN 81 1660 U.P. 1680 LEVEL 630

BOB WENT UP INTO THE CRIB BOX AND PRIED THE SLUSHER BUCKET OFF THE PIECE OF ROCK IT WAS STUCK ON. WE FINALLY GOT IT OUT OF THE CHUTE AND TOOK IT OUT TO THE STATION IN AN ORE CAR. BROKE DOWN THE NEW BUCKET AND HOISTED IT UP INTO THE PILLAR. SLUSHED AND TRAMMED. 22 CARS. FIRED A MISS-HOLE.

11 JUN 81 1660 U.P. 1680 LEV.

HELPED BOB SCALE AND BOLT. ALSO DRILLED AND FIRED A FLAT BENCH AND 7 BLOCK HOLES. CHECKED OUT 1360 STOPE. A SMALL PIECE OF ORE WAS LEFT IN THE NORTH END. IT INCLUDES THE LARGE BLACK WILLEMITE MASS SEEN LAST YEAR.



VIEW LOOKING UP AT VEIN FROM FLOOR.

12 JUN 81 1660 U.P. 1680 LEVEL.

631

HELPED BOB SCALE AND BOLT. 5 BOLTS.
SLUSHED AND HAND MUCKED. DRILLED
35' ON NEXT FLAT BENCH. LEFT EARLY
FOR A DENTIST APPOINTMENT. PICKED UP
A HUMITE SPECIMEN FROM 1680 SHAFT
STATION. FLUORESCED POORLY.

15 JUN 81 1660 U.P. 1680 LEVEL.

ROY CAME BACK TO WORK BUT BOB
TOOK OFF SO I WOUND UP IN 1660 AGAIN.

ROY FINISHED THE BENCH. 70'. I
SLUSHED AND LOADED BENCH. 50 POUNDS
ATLAS POWERMAX. FIRED AT QUITTING
TIME.

16 JUN 81 1220 U.P. 800 LEV.

STEVE AND I TOOK TURNS BOLTING. 20 BOLTS.
DRILLED AND FIRED A SMALL STRIP ON THE
SOUTH RIB. 12'. THE RICH RED ORE THAT
PRODUCED MANY FINE SPECIMENS BELOW 800
LEVEL IS NOW MOVING OUT OF THE SOUTH
RIB.* (30' ↑ 800 LEV.). GOT SOME CHLOROPHOENICITE
AND "REPLACED ZINCITE" SPECIMENS. (SEE MAP)*
(29 FEB 80)*

17 JUN 81 1220 U.P. 800 LEVEL.

STEVE AND I TOOK TURNS BOLTING,
25 BOLTS. FIRED A HANGER. THE
1240 TRANSVERSE STOPE WAS BOLTED
WITH LAG AND WEDGE ANCHOR BOLTS, THE
ENDS OF WHICH STICK OUT OF THE NORTH
RIB OF 1220 U.P. THE HANGER WAS HELD
UP BY ONE OF THESE BOLTS. GOT THE
STENCH ALARM AT 2:10 P.M. FIRE DRILL.
GOT MORE "REPLACED ZINCITE". THE MATERIAL
REPLACING ZINCITE CONTAINS MINUTE SPECKS
OF NATIVE COPPER INCLUDING SOME CUBIC XTALS.
ALSO GOT SOME MICROS (HODGKINSONITE?) FROM
A VEIN POCKET JUST BELOW THE ZINCITE.

18 JUN 81 1220 U.P. 800 LEVEL

HELPED STEVE PUT IN 6 BOLTS. THEN THE
DRILL WATER RAN OUT. STEVE STARTED MUCKING
AND I WENT DOWN TO 900 LEVEL TO TRAM.
25 CARS. A TIMBER BROKE IN THE CHUTE
AND WILL HAVE TO BE REPLACED TOMORROW.

19 JUN 81 1220 U.P. 800 LEVEL

REPAIRED BROKEN TIMBERS IN CHUTE.
WENT UP TO THE PILLAR AND MUCKED
WITH CRAVO. STEVE BOLTED AND DRILLED
TWO STRIPS. WE LOADED AND FIRED STRIPS.
GOT SOME RED WILLEMITE XTALS FROM A
LENSE OF PINK CARBONATE NEAR FOOTWALL.
1260 U.P. BONUS PAID TODAY. #230.

22 JUN 81 SHAFT

FILLED IN FOR KEN HENDERSON AS CAGEMAN.

23 JUN 81 935 STOPE 500 LEV.

WORKED ON FILL CREW. GOT SOME SAMPLES
FROM A SILICATE NODULE IN THE HANGING WALL.

24 JUN 81 935 STOPE 500 LEV.

WORKED ON FILL CREW. SAW LOELLINGITE XTALS
AND DODECAHEDRAL FRANKLINITES (TO 1 1/2")
IN THE BLACK ORE IN 1060 U.P.

25 JUN 81 935 STOPE 500 LEVEL

WORKED ON FILL CREW. PIPE PLUGGED AT 10AM.
HAD TO GO TO 340 AND 180 LEV. TO BLOW OUT
FILL PIPES. PICKED UP MISC. ORE SAMPLES.

26 JUN 81 935 STOPE 500 LEVEL

WORKED ON FILL CREW. HAD TO SHUT DOWN THREE TIMES DUE TO EXCESS WATER. WE ARE GETTING FILL FROM THE SURFACE MIXING STATION. THE WATER PRESSURE IS VERY HIGH. THIS MAKES THE FILL HOSE HARD TO HANDLE. THE FILL SPRAYS OUT SO FAR THAT IT IS HARD TO GET IT WHERE YOU WANT IT. WALKED UP TO 340 LEVEL AT LUNCH TIME AND GOT SOME WOLLASTONITE.

29 JUN 81 935 ST. 500 LEV & 1250 ST. 800 LEV.

WORKED ON FILL CREW. FINISHED CAPPING 935. REARRANGED FILL PIPE CONNECTIONS ON 340LEV SO COOLING WATER FROM SURFACE COMPRESSORS CAN BE PUMPED INTO MARSHALL SHAFT. WENT TO 800 LEV. AND STARTED FILLING 1250 STOPE. BROUGHT HOME WOLLASTONITE FROM 340 LEV. AND A "TEPHROITE IN ORE" SAMPLE FROM 935.

30 JUN 81 1540 U.P. 1500 LEV.

HUMBERTO RESTREPO AND I USED TWO JACKLEGS TO DRILL UPPERS. 450'. A ROCK FELL ON MY NEW BOOT AND I DISCOVERED IT HAD NO STEEL TOE (THE BOOT). OUCH!

1 JULY 81 1200 STOPE 600 LEV.

635

DRILLED FOOTWALL WITH JACKLEG. 215'.

HANK RIKER DRILLED UPPERS WITH JUMBO. 400'. CHECKED OUT 1180 U.P. ON LUNCH BREAK. THEY ARE TAKING ANOTHER CUT IN LEAN ORE. NO SPECIMENS.

2 JUL 81 1570E. STOPE 1200 LEVEL

SLUSHED AND BOLTED. 15 BOLTS. STEVE NOVAK PULLED 30 NEW CARS. WENT TO 1020 STOPE ON LUNCH BREAK AND GOT SOME WEST VEIN MICROS.

3 JUL 81 1340 U.P. 1100 LEV.

CLIFF FIRED LAST NIGHT. ED STOLL AND I SCALED LOTS OF LOOSE, TOOK DOWN 4 BIG CHANDELIERS, SCALED THE RAISE, REPAIRED LADDERS, AND PUT IN 6 BOLTS.

✓ GOT SOME QUARTZ XTALS FROM A SHEAR. THIS IS THE SAME SHEAR THAT PRODUCED ALLACTITE 10' BELOW.

15 JUL 81 ON VACATION

VISITED HARVARD UNIVERSITY. SAW
MATRIX OF URANINITE CRYSTAL.

IT IS PINK CALCITE WITH $3/4$ INCH
FRANKLINITE XLS, ZOELLINGITE, RED
FLUORITE, SPHALERITE. THERE IS
TYPICAL GRANULAR BLACK WILLIMITÉ
ORE ON ONE SIDE. THE PINK CALCITE
IS BURNED ORANGE AND BROWN TO
A RADIUS OF ABOUT $3/4$ INCH AROUND
THE SITE OF THE URANINITE XL. A LETTER
FROM CHAS. KEY EXPLAINING HOW HE GOT
IT SAYS IT CAME FROM 500 LEVEL.

1060 U.P. HAS BLACK ORE IN IT NOW
WHICH CLOSELY RESEMBLES THE MATRIX.

20 JUL 81 1060 U.P. 500 LEV.

SET UP JUMBO AND DRILLED UPPERS.

162 FEET. DIDN'T SEE ANY URANINITE.

21 JUL 81 1060 U.P. 500 LEV.

DRILLED UPPERS WITH JUMBO. 280'. GOT SOME
KIND OF CRYSTAL, FROM BLACK ORE.

22 JUL 81 DDH 447 1020 U.P. 600 LEV.

REPLACED AN AIR HOSE AND SPUD.
SOMEONE TOOK IT WHILE I WAS
WORKING ELSEWHERE. DRILLED FROM
86' TO 106'. ORE W/ZINCITE TO 97'.
JUGGY ORE 97' TO 100'. MUD ZONE
100' TO 106'.

23 JUL 81 DDH 448 1020 U.P. 600 LEV.

SET DRILL FOR NEW HOLE. DRILLED TO 50',
ALL WHITE ROCK. GOT SOME ARSENOPYRITE
XTALS FROM 1040 X-CUT. THEY ARE IN
FRANKLIN MARBLE FROM CENTRAL CORE.

24 JUL 81 DDH 448

DRILLED FROM 50' TO 85'. WHITE ROCK
50' TO 58.5'. LEAN ORE 58.5' TO
67'. ORE (NO ZINCITE) 67' TO 80'.

SCALED LOOSE IN KEEL AREA ON LUNCH
TIME. SAW SOME LARGE BLUE APATITE
XLS. WILL HAVE TO FIGURE A WAY TO
GET ONE OUT. THEY ARE IN THE
FRANKLINITE ZONE.

27 JUL 81 DDH 448 1020 U.P. 600 LEV.

DRILLED FROM 85' TO 107'. ORE (NO ZINCITE) 85 TO 102'. LEAN ORE 102'-106'. MUD ZONE 106'-107'. WENT TO KEEL AREA AT LUNCH TIME. GOT SPECIMENS OF BROKEN APATITE XLS. THEY HAVE A RIM OF A LIGHT CREAM MINERAL.

RESET DRILL FOR DDH 449. Δ -17°; 14° SOUTH OF WEST. COLLARED HOLE AND DRILLED TWO FEET IN WHITE ROCK.

28 JUL 81 DDH 449 1020 U.P. 600 LEV.

DRILLED FROM 2' TO 50'. WHITE ROCK TO 44'. GREEN ROCK TO 49'. WHITE 49-50'.

29 JUL 81 DDH 449

DRILLED FROM 50' TO 78'. LOST DRILL WATER IN A CRACK AT 59'. HIT ORE AT 59'.

CHECKED OUT 1200 STOPE AT LUNCH TIME. GOT SOME CALCITE XLS FROM A LARGE CAVITY IN THE HANGING WALL.

30 JUL 81 DDH 449 1020 U.P. 600 LEV.

DRILLED 78' TO 92'. ORE TO 86', WHITE
ROCK TO 91', MUD TO 92'. TOOK DOWN
MACHINE AND COLUMN AND MOVED TO NEW
SET-UP. SET THE COLUMN ACROSS THE
DRIFT AND STARTED DRILLING DDH 450.
($\Delta -40^\circ$ AT 280°). THIS WILL CHECK ORE
IN 1060 N. SECTION BELOW 600 LEV.

DRILLED 5' ALL WHITE ROCK. FOUND A LENS
OF QUARTZ IN THE FOOTWALL OF 1010 STOPE.
INSIDE THE QUARTZ IS CALCITE, INTO WHICH
QUARTZ XTLS PROJECT. GOT 2 PIECES.

31 JUL 81 DDH 450

DRILLED FROM 5' TO 46'. HIT GREEN
ROCK FROM 20 TO 21' AND 24 TO 46'.
BROUGHT OUT MORE QUARTZ FROM
1040 X-CUT IN F/W OF 1010 STOPE.

~~MORRISTOWN DAIRY~~

DOVER ADVANCE WEDS, JUL 29.
1981

Investors buy Sussex mine

NASHVILLE, Tenn. (AP) — The Natural Resources Group of Gulf & Western Industries Inc. announced it has agreed to sell a Pennsylvania zinc plant, an Illinois facility and a New Jersey mine to a group of private investors.

Gordon Smith, vice president of communications for Natural Resources, said Tuesday that one of the investors is William E. Flaherty, executive vice president of Natural Resources. He will become president and chief executive officer of the new company, Smith said.

The sale of portions of the Nashville-based New Jersey Zinc Co. includes a zinc dust plant in Depue, Ill., the Palmerton zinc plant in Palmerton, Pa., and the Sterling Mine in Ogdensburg.

Smith said the New Jersey mine supplies ore to the Pennsylvania plant which produces zinc oxide, zinc dust, zinc powder and zinc alloys.

He said investors were asked to keep current employees at the plants and mine.

The combined sales of the operations are about \$125 million a year, Smith said. The price of the sale was not disclosed.

He said the sale will be closed Sept. 15, subject to approval by the board of directors and completion of financing.

3 AUG 81 DDH 450 1020 U.P. 600 LEV.

DRILLED FROM 46' TO 71.5'. WHITE ROCK AT 47'. LEAN ORE AT 56'. GOOD ORE AT 61'. SOME OF THE WILLEMITE IS THE GLASSY YELLOW TYPE. BROUGHT HOME A GNEISSIC RHODONITE - GAHNITE FROM 1100 X-CUT.

4 AUG 81 DDH 450 & 451

DRILLED FROM 71.5 TO 85'. ORE TO 81'. 81' TO 82' WHITE ROCK. 82'-85' MUD ZONE.

RESET COLUMN AND DRILL TO 260° WITH γ - 32°. COLLARED DDH 451 AND DRILLED TWO FEET OF MARBLE. CHECKED 1200 STOPE AT LUNCH TIME. THERE IS A BAND ON THE F/W OF LARGE GRAINS OF ALL ORE MINERALS SHOWING POTENTIAL FOR XTALS.

5 AUG 81 DDH 451

DRILLED FROM 2' TO 49'. ALL WHITE ROCK.



6 AUG 81 935 STOPE 500 LEV.

WORKED WITH RESTREPO TODAY. I FINISHED DRILLING A STRIP ON THE F/W. TRAMMED ORE - 40 CARS. DRILLED BLOCKHOLES - 20. LOADED STRIP AND BLOCKHOLES. FIRED. GOT SOME GALENA - SPHALERITE FROM THE FOOTWALL.

7 AUG 81 935 ST. 500 LEV.

SCALED LOOSE AROUND STRIP ROUND. PUT LADDERS AND PIPES BACK IN RAISE. TRAMMED ORE. 76 BIG CARS. GOT SOME WILLEMITE SPECIMENS.

10 AUG 81 935 ST. 500 LEV.

JUMBO DRILLED. 250'. BROKE A FITTING ON THE TRACK AIR MOTOR. HAD TO GET AN "EASY OUT" FROM THE SHOP TO FIX IT. HUMBERTO AND I TOOK TURNS DRILLING BLOCKHOLES AND A SMALL STRIP. FIRED 65 BLOCK HOLES AT QUITTING TIME. BROUGHT HOME A GALENA FROM A F/W CALC SILICATE.

11 AUG 81 935 ST. 500 LEV.

JUMBO DRILLED. 320'. HAD TO WAIT AN HOUR IN AM FOR POWDER AND CAPS. HAD TO BREAK DOWN MANWAY SET UP TO DRILL OVER IT AND THEN PUT IT BACK TOGETHER. FINISHED H/W ROWS AND MOVED DRILL TO SOUTH END. RESET THE BOOMS TO DRILL FOOTWALL. GOT A PIECE OF RED AND GREEN.

12 AUG 81 935 STOPE 500 LEVEL

JUMBO DRILLED. 600 FEET.

13 AUG 81 935 STOPE 500 LEV.

JUMBO DRILLED. 560 FEET.

14 AUG 81 935 STOPE 500 LEVEL

JUMBO DRILLED. 535 FEET.

17 AUG 81 935 STOPE 500 LEV.

JUMBO DRILLED. 460 FEET.

18 AUG 81 DDH 451 1020 U.P. 600 LEV.

DRILLED 49' TO 75'. LEAN ORE 59' TO 71'.

GOT SOME PRETTY ORE FROM 1200 STOPE.

19 AUG 81 DDH 451 1020 U.P. 600 LEV.

DRILLED 75' TO 88'. WHITE ROCK TO 78'. GREEN ROCK TO 88'. HOLE FINISHED. MOVED GEAR TO STATION. DRILLED 2 HOLES AND WEDGED SOME QUARTZ SPECIMENS OFF THE 1040 X-CUT LOCATION. #443

20 AUG 81 DDH 452 1020 U.P. 500 LEV.

WAITED ON 600 STATION UNTIL 9:30 AM FOR CAGE. MOVED GEAR TO 500 LEVEL AND SET UP AT PREVIOUS 1020 N. SECT. DRILL ~~STATION~~ ^{SITE}. PUT DRILL AT \angle OF -28° AND DRILLED 7'. GREEN AND WHITE ROCK. BROUGHT OUT A QUARTZ SPECIMEN FROM 1040 X-CUT (600 LEV.).

21 AUG 81 DDH 452

DRILLED FROM 7' TO 55'. ALTERNATING GREEN AND WHITE ROCK.

24 AUG 81 DDH 452

DRILLED FROM 55' TO 85'. GREEN AND WHITE TO 63'. ORE TO 70'. ORE W/ZINCITE TO 79'. ORE TO 85'. CHECKED OUT OLD 1100 U.P. SAW LOTS OF FLUORITE IN F/W OF BLACK ORE.