

METHUEN TWP. BLACK GRANITE
OPAP FINAL SUBMISSION REPORT

31C12NW0031 OP92-232 METHUEN



010

LOCATION

SOUTHERN ONTARIO MINING DIVISION - TWEED
METHUEN TWP. NORTH HALF AREA
W¹/₂ LOT 10 CON III
CLAIM MAP SHEET Q3053
NTS BANNOCKBURN 31 C/12
UTM CO-ORDINATES 4946500 N
271500 E

LAT 45° 38'

LONG 77° 52'

ACCESS

NORTH FROM HWY #7 + #30 INTERSECTION IN HAVELOCK
25 MILES. ONE MILE SOUTH OF TWIN LAKES ON THE
WEST SIDE OF THE ROAD

GEOLOGY

THE PROPOSED BUILDING STONE QUARRY IS IN AN
ANORTHOSITIC GABBRO OR "BLACK GRANITE".

OBJECTIVES

- COMPLETE SECOND STAGE STRIPPING PROGRAM
- WASH STRIPPED ROCK
- TAKE PLUG AND FEATHER SAMPLES
- CUT AND POLISH SAMPLES
- GET SAMPLES AND PROPERTY IN A PRESENTABLE
FORM TO SHOW INTERESTED PEOPLE.

WORK DONE

A 1006 DRESSER CRAWLER LOADER WAS HIRED FOR 6 DAYS TO STRIP AN AREA OF ABOUT 300'X100' AND 140' X 70'.

THE NEXT STEP WAS TO WASH THE STRIPPED AREA WITH A 2" HONDA PRESSURE PUMP AND UP TO 400' OF FIRE HOSE. THE WASHING TOOK 13 DAYS WITH 2 PEOPLE, ONE USUALLY ON THE HOSE AND ONE HAND STRIPPING WITH A SHOVEL. THE AREA CLEANED UP QUITE WELL AND EXPOSED THE ROCK MORE THAN ADEQUATELY.

I WAS THEN IN CONTACT WITH PAUL KINGSTON AND CHRIS PAPERTZIAN FROM THE TWEED M.N.D.M. OFFICE, AND EXPLAINED THAT I WANTED TO TAKE SOME TEST BLOCKS FOR SAMPLES WITH A DRILL AND PLUG AND FEATHERS. THEY VISITED THE PROPERTY AT THAT TIME AND BROUGHT ME THEIR PIONJÄR DRILL AND A FEW SETS OF PLUGS AND FEATHERS. THEY LOOKED OVER THE PROPERTY WITH US AND MADE SUGGESTIONS AS TO HOW AND WHERE SAMPLES MIGHT BE TAKEN.

7 DAYS WERE SPENT DRILLING AND TRYING TO PLUG AND FEATHER SAMPLES FROM 9 DIFFERENT LOCATIONS. SAMPLES WERE SUCCESSFULLY TAKEN FROM 6 LOCATIONS. FOUR OF THE 6 LOCATIONS WERE ON THE STRIPPED AREA. THE OTHER 2 WERE ON THE TRAIL INTO THE PROPERTY AND ON THE COUNTY ROAD THE PROPERTY IS ACCESSED FROM.

THE FOUR SAMPLE LOCATIONS ON THE STRIPPED AREA ARE MARKED "NE", "SE", "NW", "SW", ON THE MAP.

A SAMPLE BLOCK OF ABOUT 1ft^3 WAS TAKEN FROM EACH SAMPLE LOCATION. THE SAMPLES WEREN'T JUST TAKEN OFF THE EDGE OF THE ROCK. WE TRIED TO TAKE ABOUT 12" OFF THE EDGE OF THE ROCK, THEN TAKE ANOTHER 8" OR 12" PIECE, THEN BREAK THE ENDS OFF THIS PIECE SO THAT WE ARE LEFT WITH A SAMPLE WITH 4 FRESH SIDES. THIS LEAVING 4 OR 5 1ft^3 PIECES AT EACH SAMPLE SITE FOR FUTURE REFERENCE.

THE SAMPLES WERE THEN LOADED BY HAND INTO MY TRUCK AND TAKEN HOME.

DURING THE SAMPLING, THE OUTCROP WAS COVERED WITH A COUPLE OF INCHES OF SNOW, WHICH WAS WASHED AWAY WITH RAIN SHORTLY AFTERWARDS. WITH THE SNOW GONE, WE THOUGHT IT BEST TO PUT A QUICK 10'X10' GRID ON THE ROCK TO MAP THE STRIPPED AREA AND QUICKLY GRADE THE OUTCROP ACCORDING TO POTENTIAL BLOCK SIZE FROM SURFACE FRACTURES AND CRACKS.

A GRADE, BEING OVER 50% OF THE ROCK 3'X6' OR OVER WITH LITTLE OR NO PINK STRINGERS.

B GRADE, BEING OVER 50% OF THE ROCK 2'X4' OR OVER WITH LITTLE OR NO PINK STRINGERS

C GRADE, BEING SMALLER PIECES THAN A BUT MORE WASTE AND PINK STRINGERS.

HAVING SAVED MONEY BY BORROWING THE DRILL AND SAMPLING EQUIPMENT FROM THE MNDM IN TWEED, WE HAD EXTRA MONEY TO SPEND 4 DAYS IN THE LAPIDARY ROOM AT MNDM TWEED, MAKING SAMPLES.

FROM EACH OF THE 6 SAMPLES, 2 OR 3 SMALLER SAMPLES WERE SAWN AND POLISHED USING THE 24" AND 16" SAWS AND THE COARSE AND FINE POLISHERS. ALTHOUGH SOME "PITTING AND PLUCKING" IS INEVITABLE USING "VIBRA" POLISHERS, THE SAMPLES TOOK A GOOD POLISH AND TURNED OUT VERY SMOOTH.

RESULTS

THE GRAIN SIZE AND COLOUR AND OVERALL APPEARANCE AND POLISH OF THE 4 SAMPLES TAKEN FROM THE STRIPPED AREA ARE EXTREMELY CONSISTANT. THE ROCK LOOKS GOOD.

THE GRADING OF THE POTENTIAL BLOCKS BY SURFACE FRACTURES, INDICATES A VERY FAVORABLE HILL FOR STARTING A QUARRY IN THE 100+00S → 200+00S
45+00E → 20+00W AREA.

THE 140'X70' AREA STRIPPED ON THE NEXT RIDGE WEST WAS A LAST MINUTE IDEA BECAUSE THE STRIPPING WENT WELL ON THE MAIN RIDGE, AND SHALLOW OVERBURDEN ON THE WEST RIDGE MEANT SOME CHEAP INFORMATION WHICH I THINK TURNED OUT TO BE VALUABLE. THE RIDGE IS GOOD ROCK WITH MEDIUM TO LARGE BLOCK POTENTIAL.

THE AREAS TO THE NORTH AND SOUTH OF SAMPLE AREA "SE", HAS GOOD MEDIUM TO LARGE BLOCK POTENTIAL, BUT THEY WOULD PROBABLY BE MINED BY EXPANDING OUTWARD FROM AREA "SE".

RECOMMENDATIONS

THE NEXT STAGE FOR THIS PROPERTY IS TO START TO QUARRY LARGE BLOCKS.

QUARRYING LARGE BLOCKS MAY INVOLVE DIAMOND WIRE SAWING, DRILLING AND WEDGING, POSSIBLY SOME BLASTING. IT WILL SHOW HOW THE HORIZONTAL SHEETING IS GOING TO EFFECT THE MINING, POSSIBLY ELIMINATING LIFTER HOLES AND WEDGING OR BLASTING INITIALLY. THE USE OF THE DIAMOND WIRE SAW MIGHT NOT BE NECESSARY AT THE FIRST WITH THE PRESENCE OF PROMINENT VERTICAL JOINTING.

THE BEST PLACE TO START TO QUARRY WOULD BE IN THE VICINITY OF SAMPLE AREA "SE", WHERE SOME MEDIUM BLOCKS ARE IMMEDIATELY AVAILABLE, THEN LARGE BLOCKS ARE AVAILABLE WITH MINIMAL WASTE AND WORK.

MORE STRIPPING AND WASHING, WITH THE FILL FROM THE STRIPPING BEING USED FOR ROADBUILDING IS ALSO NECESSARY TO MAKE THE QUARRYING EASIER AND FOR MOVING EQUIPMENT AROUND.

INITIALLY, A LOADER OR EXCAVATOR, DUMP TRUCK, AND FLOAT COULD BE USED ECONOMICALLY FOR MOVING LARGE BLOCKS.

William J. Brown
William Brown

13:00
1 155.23

• 14.380

YOUR RECEIPT
Thank you
Call again

03-01-92

HOME
HARDWARE
HAVELOCK
GST R102417409

11-23-92

1 \$5.09
\$5.09 ST
\$0.28 TX1
\$0.32 TX2
\$4.59 TL
\$6.00 CA
\$1.41 CG

YOUR RECEIPT
THANK YOU

3-25-92
HAVELOCK
GST R102417409

3-25-92
3110168 4.000

MEATS 15 \$4.40
MEATS 15 \$4.40
MIS ST \$2.96
SALE \$1.20
TAX \$1.11
CASH \$10.01
TOTAL

A 11 52

J.C.'S COUNTRY
FRIED CHICKEN

22354000 17:06
THANK-YOU

BARLT 19.99
SUBT 19.99
GST 1.40
PSTF 1.40
TOTL 22.99
CASH 100.00
CHNG 77.01

25/11/92

J.C.'S COUNTRY
FRIED CHICKEN

Pump Gas

Pump Gas

100.00

100.00

DECEMBER 5/1992.

RECEIVED FROM WILLIAM A. BROWN
\$3200.00 FOR HELPING ON THE
BLACK GRANITE JOB.

William J. Brown.

RECEIVED FROM WILLIAM A BROWN
\$700.00 FOR HELPING ON THE
BLACK GRANITE JOB.

Paul Brown

RECEIVED FROM WILLIAM A. BROWN
\$600.00 FOR HELPING ON THE
BLACK GRANITE JOB.

Lick Murray

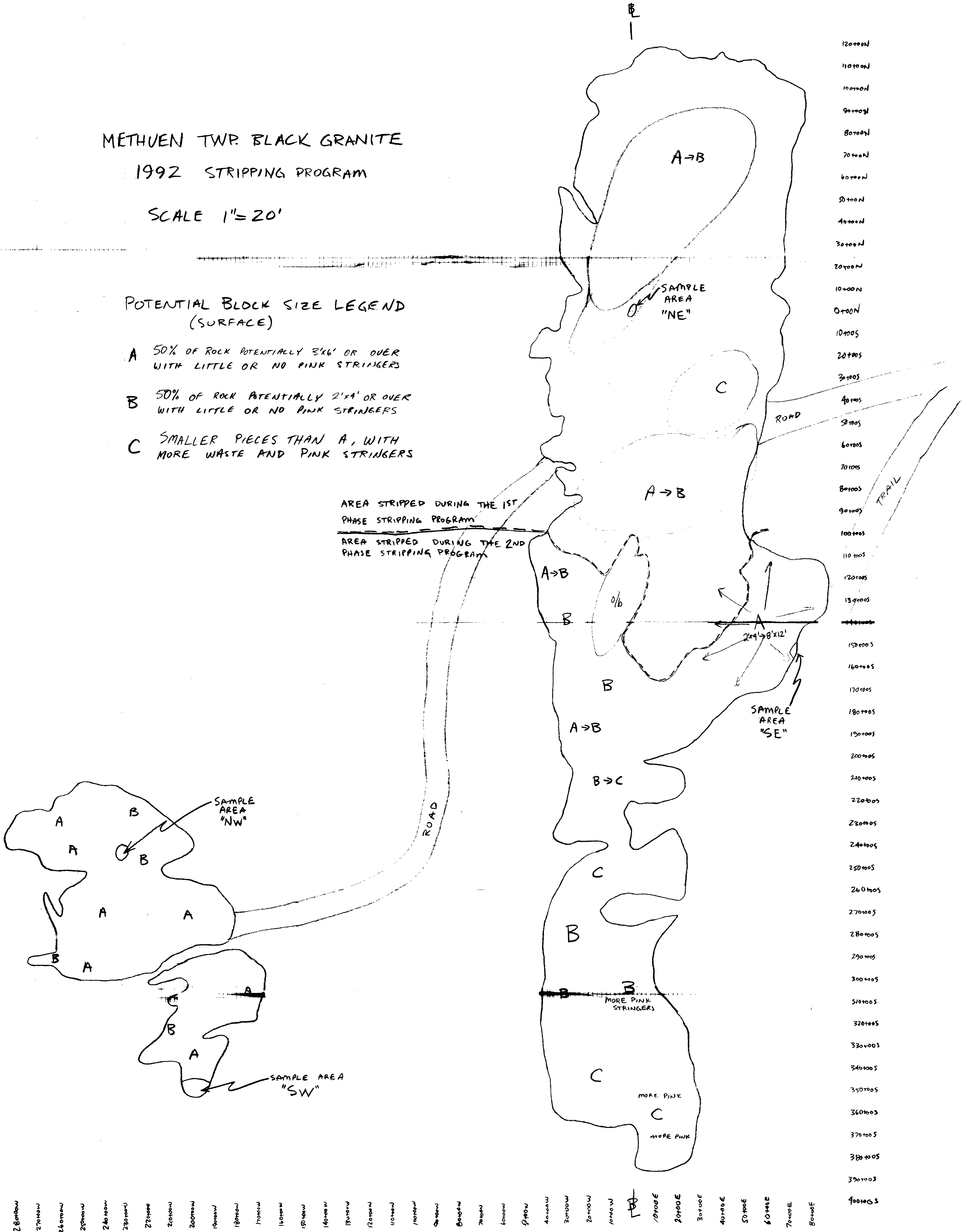
METHUEN TWP BLACK GRANITE

1992 STRIPPING PROGRAM

SCALE 1"=20'

POTENTIAL BLOCK SIZE LEGEND (SURFACE)

- A 50% OF ROCK POTENTIALLY 3'x6' OR OVER WITH LITTLE OR NO PINK STRINGERS
- B 50% OF ROCK POTENTIALLY 2'x4' OR OVER WITH LITTLE OR NO PINK STRINGERS
- C SMALLER PIECES THAN A, WITH MORE WASTE AND PINK STRINGERS



28000W 27000W 26000W 25000W 24000W 23000W 22000W 21000W 20000W 19000W 18000W 17000W 16000W 15000W 14000W 13000W 12000W 11000W 10000W 9000W 8000W 7000W 6000W 5000W 4000W 3000W 2000W 1000W 0 1000E 2000E 3000E 4000E 5000E 6000E 7000E 8000E

