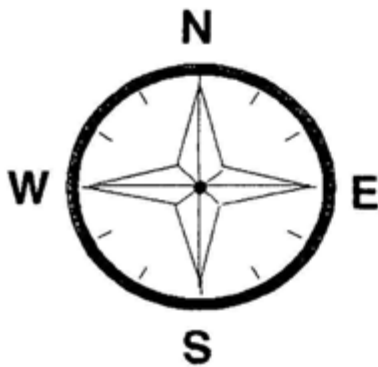




NORTH CALEDONIAN MINING

Operations Manager - Allan Whiting
PO BOX 60
PINE CREEK NT 0847
Phone (089) 76 1309



CRISTEL MACKNEY
TITLES ADMINISTRATION BRANCH



SUBJECT: REPORT ON EXPLORATION AND MINING MCN 4187

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|--|----------|
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| 3. Clean Process Water Bore | \$8,000 |
| 4. Buildings and Services | \$42,000 |
- Which includes access road, storage containers, administration building, control room, process plant building and floors, dirty and clean process water tanks, potable water tank and pipe, power generation 36 K.V.A., fuel tank

5. Process Equipment \$47,000
Which includes feed hopper, conveyor x 4, jaw crusher x 1, scalping screen x 1, rolls crusher x 1, F.O.B. x 1, vibrating feeder x 1, ball mill x 1, magnetic separator x 1, amalgam barrel x 1, recycle retort x 1, smelting furnace x 1
6. Sample and Assay Equipment \$7,000

The above are the major cost items associated with MCN 4187. As you can appreciate there are many more indirect costs.

There is \$148,000 of capital just with the above. The business input to date has been over \$200,000 and as yet no return, although we do have 257 grams of gold unsold at a value of just over \$4,000. This is gold recovered from bulk samples of all claims and leases held by myself:

MCN 4187
MCN 541
MLN 788
MLN 137

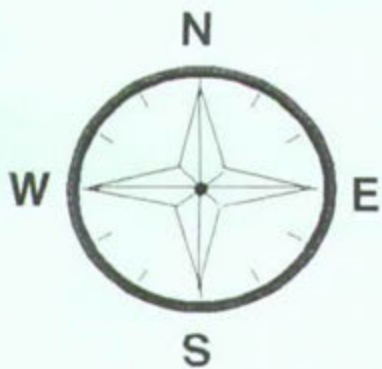
Your field inspectors are most welcome to inspect at any time.

Yours sincerely,



ALLAN D. WHITING
OPERATIONS MANAGER

CR 94 / 451



NORTH CALEDONIAN MINING

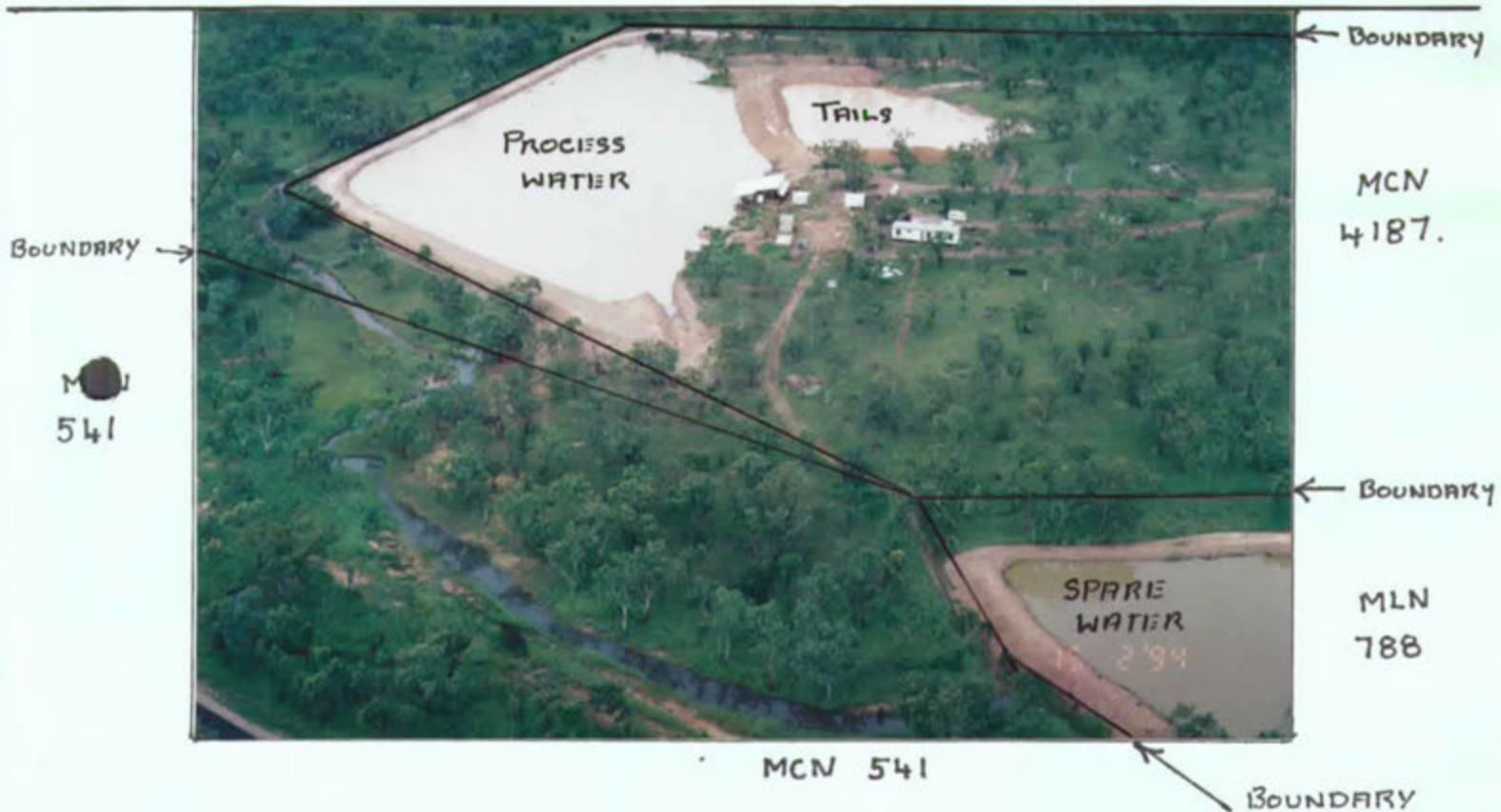
Operations Manager - Allan Whiting

PO BOX 60

PINE CREEK NT 0847

Phone (089) 76 1309

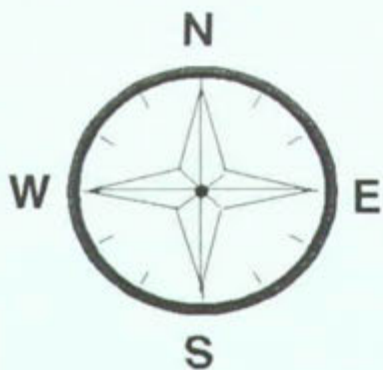
BN 47509



AIRIAL VIEW OF WORKS UNDERTAKEN ON MCN-4187

DATE 15-2-94

CR94/451



NORTH CALEDONIAN MINING

Operations Manager - Allan Whiting

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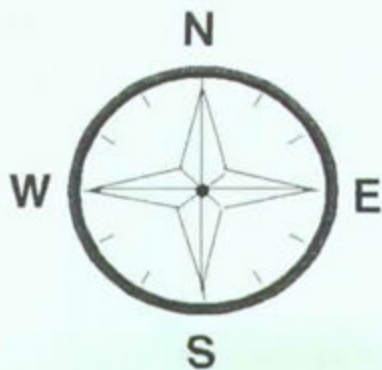
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ACCESS ROAD TO MLN-788 AND MCN-4187
OFF KAKADU HIGHWAY. 3 K.M. FROM PINE
CREEK.

CR 94 / 451



NORTH CALEDONIAN MINING

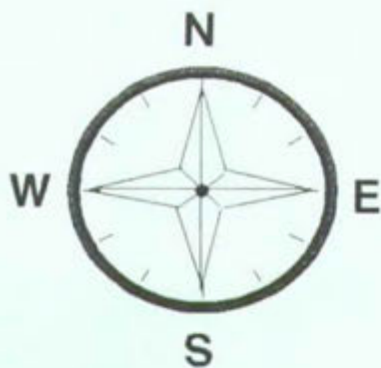
Operations Manager - Allan Whiting
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PINE CREEK NT 0847
Phone (089) 76 1309

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NORTH EAST CORNER POST AND BOUNDARIES
OF MCN - 4187.

CR 94 / 451



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Operations Manager - Allan Whiting

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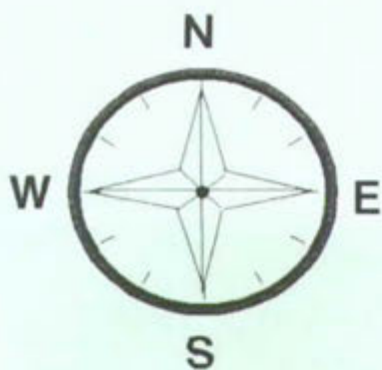
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EAST CORNER POST OF MCN-4187

CR94/451



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Operations Manager - Allan Whiting

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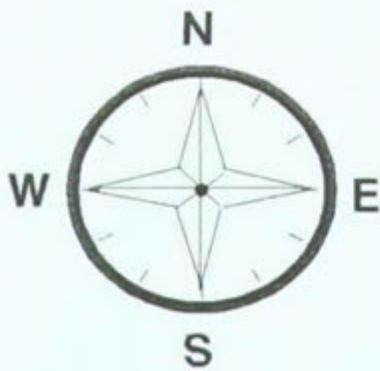
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FUEL TANK AND POWER GENERATOR ON MCN-4187.

CR94/451



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Operations Manager - Allan Whiting

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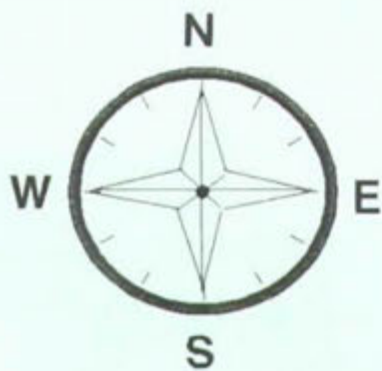
Phone (089) 76 1309

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PROCESS PLANT BUILDING & PROCESS WATER DAM
IN THE BACKGROUND.

CR 94 / 451



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Operations Manager - Allan Whiting

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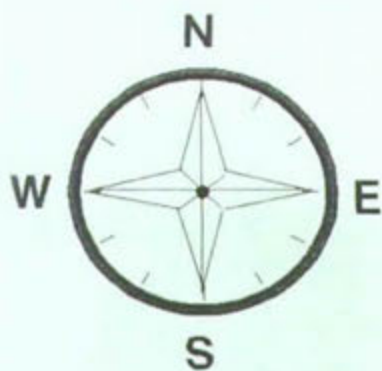
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FEED HOPPER NOT YET IN POSITION.

CR94/451



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Operations Manager - Allan Whiting

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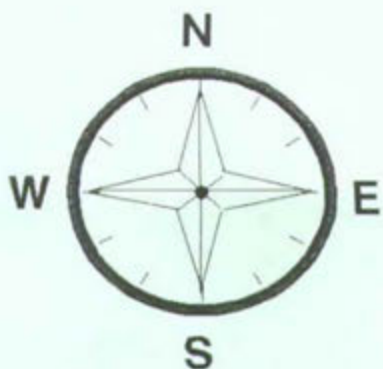
Phone (089) 76 1309

BN 47509



ROLLS CRUSHER NOT YET IN POSITION.

CR94/451



NORTH CALEDONIAN MINING

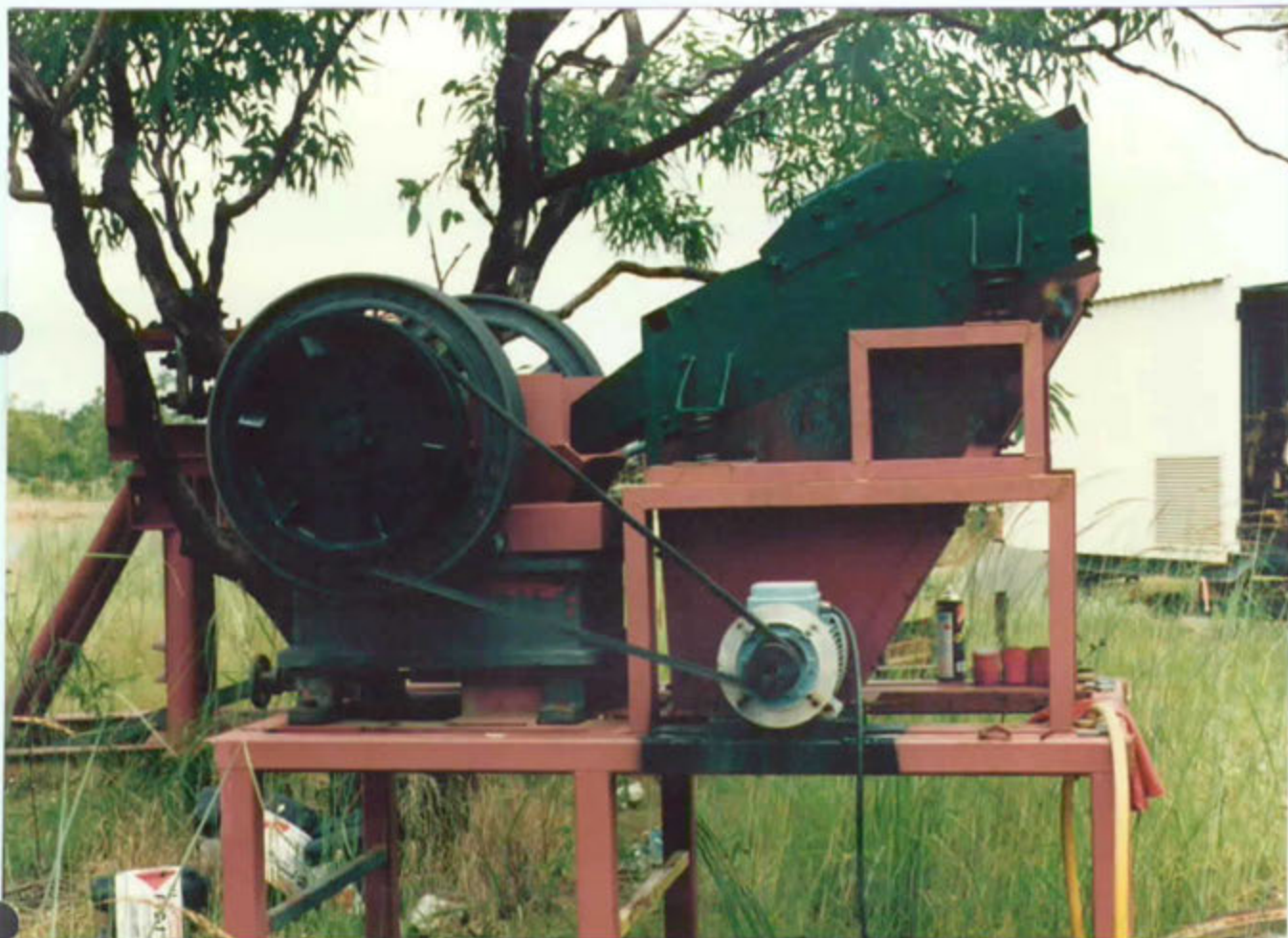
Operations Manager - Allan Whiting

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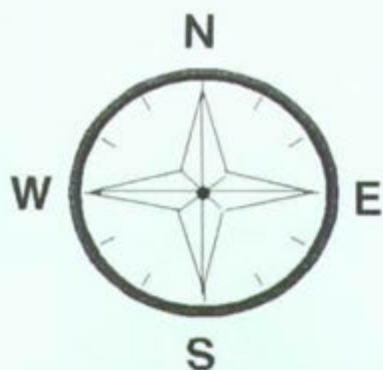
Phone (089) 76 1309

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JAW CRUSHER NOT YET IN POSITION.

CR94/451



NORTH CALEDONIAN MINING

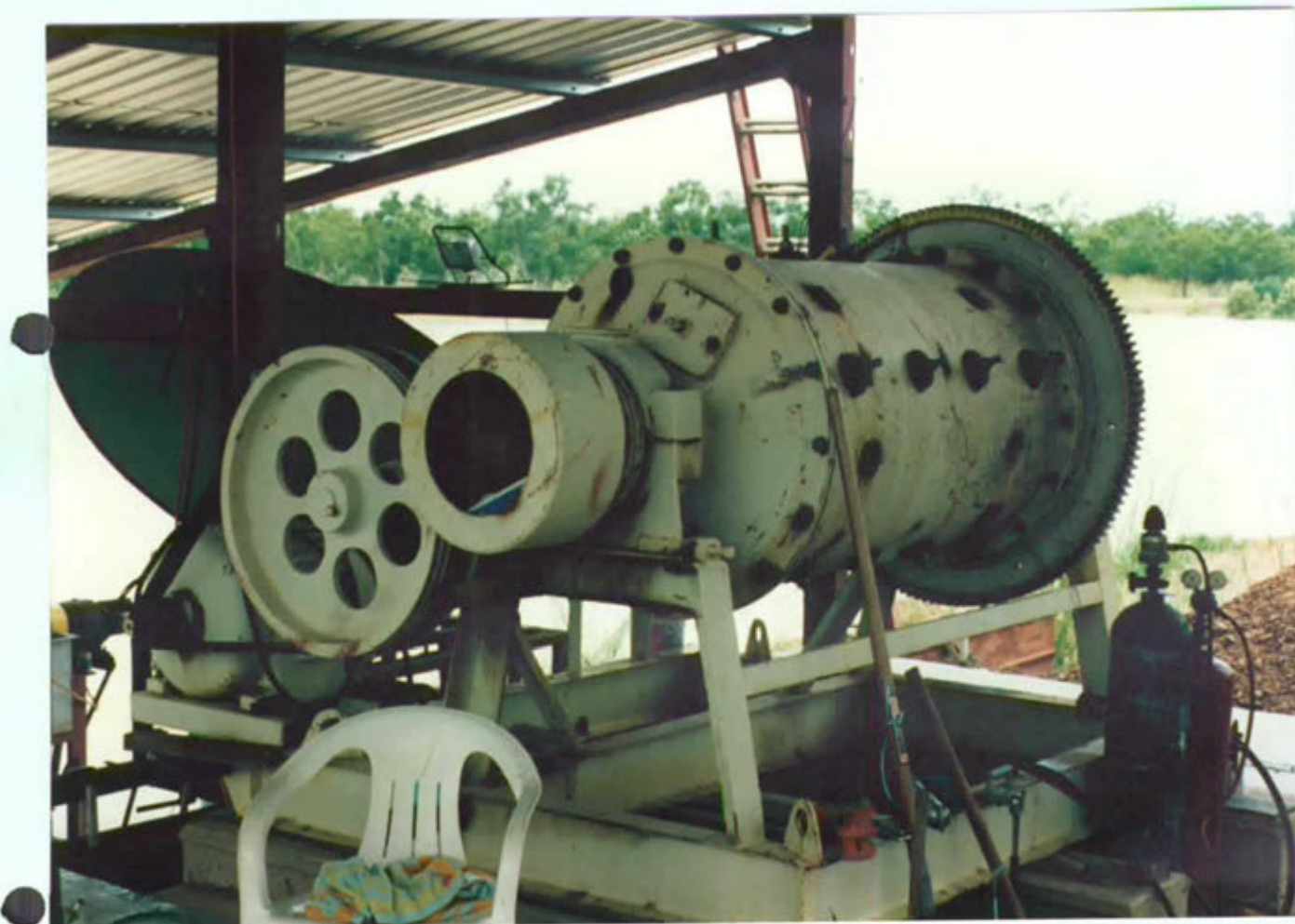
Operations Manager - Allan Whiting

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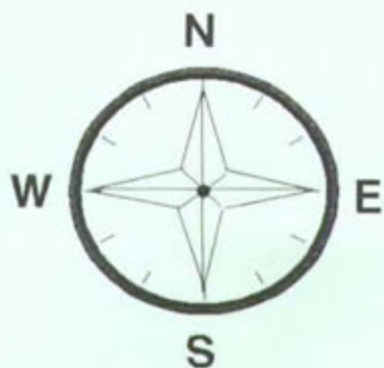
Phone (089) 76 1309

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BALL MILL BEING INSTALLED IN POSITION.

CR 94 / 451



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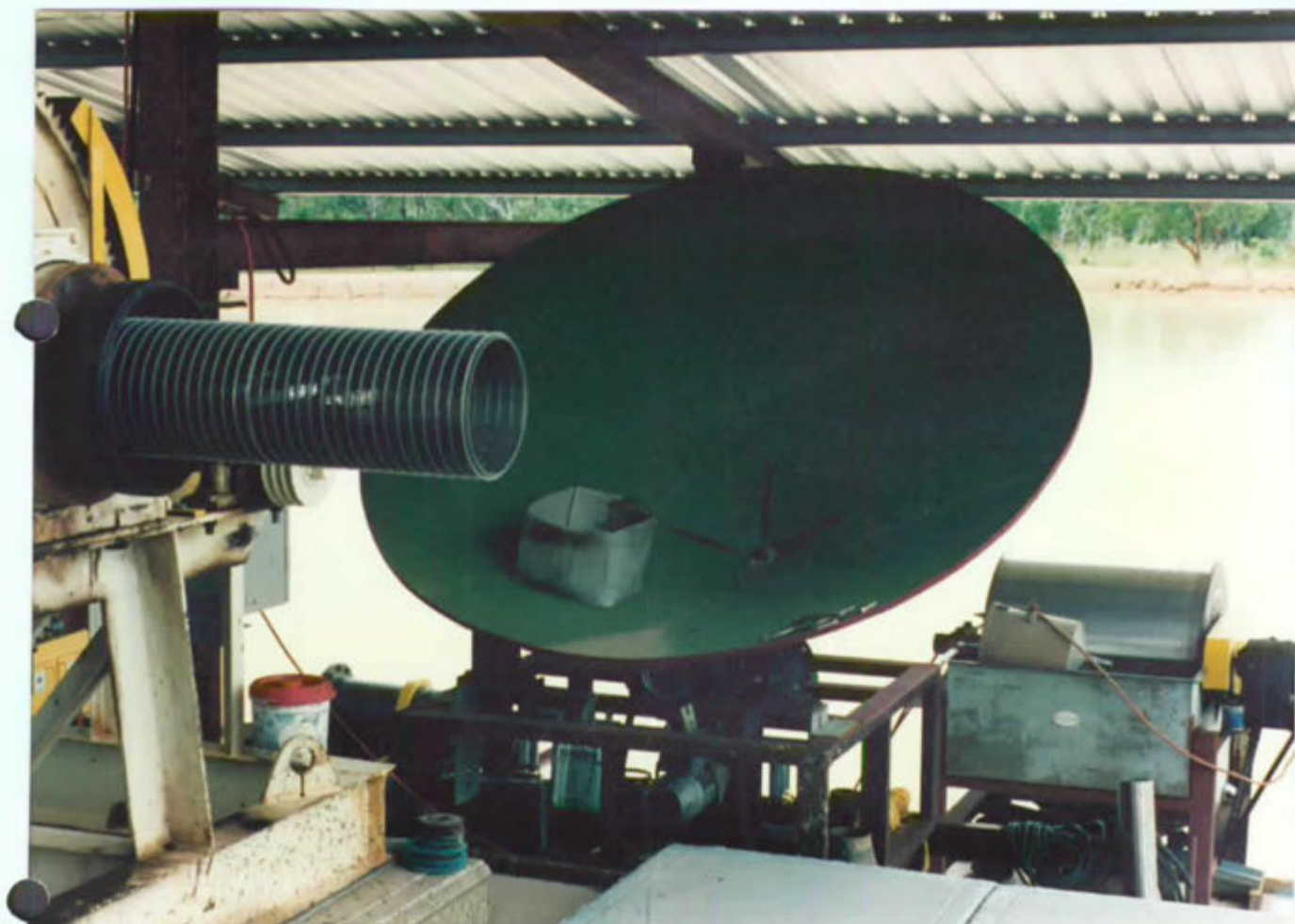
Operations Manager - Allan Whiting

PO BOX 60

PINE CREEK NT 0847

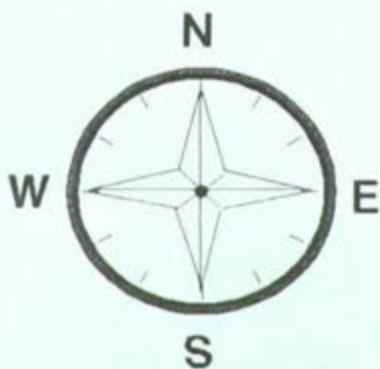
Phone (089) 76 1309

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RECOVERY CONE IN POSITION.

CR94/451



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PO BOX 60

PINE CREEK NT 0847

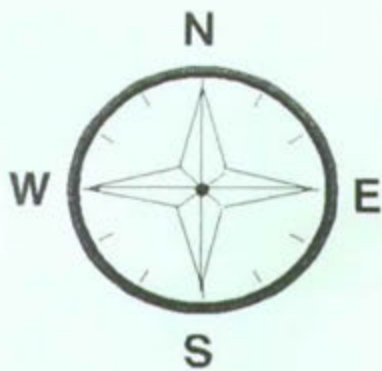
Phone (089) 76 1309

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AMALGUM BARREL IN POSITION.

CR94 / 451 



NORTH CALEDONIAN MINING

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PINE CREEK NT 0847

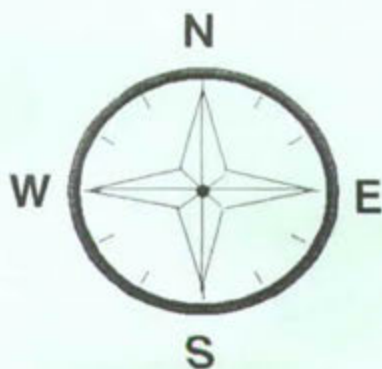
Phone (089) 76 1309

BN 47509



DRUM MAGNETIC SEPIERATOR IN POSITION.

CR94/451



NORTH CALEDONIAN MINING

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PINE CREEK NT 0847

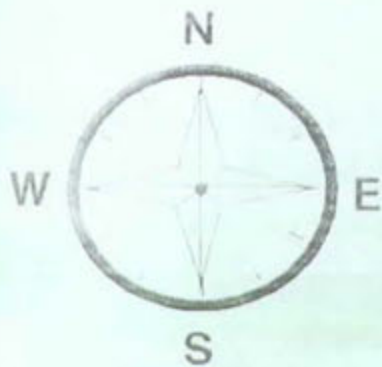
Phone (089) 76 1309

BN 47509



MERCURY RETORT AND PRESSURE FILTER IN POSITION.

089 76 1309



NORTH CALEDONIAN MINING

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Phone (089) 76 1309

BN 47509



SMEETING FURNACE IN PLACE.

CR94/451

JIA01083 15212

3 21 0 2



9603

PINE CREEK



QAS 2867c
22.8.93

RUN 1
9595 - 9603

11,000'ASL
1:20,000



Qascophoto

WITHOUT BOUNDRIES
OUTLINED.

CR 9414



PINE CREEK



QAS 2867c
22.8.93

RUN 1
9595 - 9603

11,000' ASL
1:20,000



Qascophoto

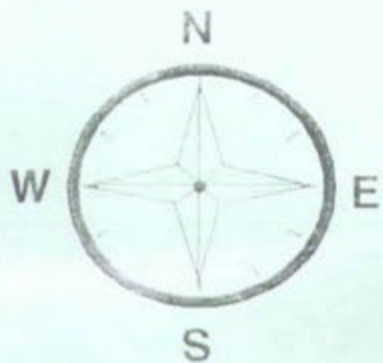
9602

WITH BOUNDARIES
OUTLINED

==

11/15/12

11/15/12



NORTH CALEDONIAN MINING

Operations Manager - Allan Whiting

PO BOX 60

PINE CREEK NT 0847

Phone (089) 76 1309

BN 47509



DIRTY PROCESS WATER TANK IN POSITION.

CR94/451

ADDITIONAL NOTES ON PARAGRAPH 2 OF THE
REPORT ON EXPLORATION AND MINING MCI 4187

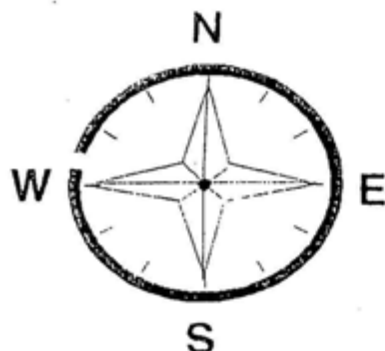
MINING OCCURRED FOR THE PURPOSE OF
DAM CONSTRUCTION BOTH TAILINGS AND PROCESS
WATER AND SOME BENCHING FOR PROCESS
PLANT LOCATION.

AS THIS MINING OCCURRED WE PANNED FOR GOLD

THE ONLY AREA GOLD WAS FOUND WAS IN THE
NORTH WEST CORNER OF THE TAILS DAM AND
THIS IS THE AREA REFERRED TO IN THE
~~SUPPLEMENTARY~~ SUPPLEMENTARY NOTES.

allen





NORTH CALEDONIAN MINING

Operations Manager - Allan Whiting
PO BOX 60
PINE CREEK NT 0847
Phone (089) 76 1309

BN 47509

CRISTEL MACKNEY
TITLES ADMINISTRATION BRANCH

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.../2

- | | | |
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MCN 541
MLN 788
MLN 137

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Yours sincerely,

ALLAN D. WHITING
OPERATIONS MANAGER

SUPPLEMENTARY NOTES ON EXPLORATION OF MCN 4187

19 JULY 1994

88

HISTORY

MCN 4187 is the mineral claim which will locate all of the services and processing plant, therefore it was not desirable to find gold deposits where these services were going to be located.

SURFACE DRILLING

This is done with a 2-SDK-8 Bobcat fitted with a 100mm auger and will drill to a depth of 1 metre.

SAMPLING AND ASSAYING

Sampling: Material from these one metre holes were planned for colour "gold".

Assaying: Samples from these holes "if gold was identified" would then be assayed. This involved a 10kg sample of dirt being crushed and ground to a powder and concentrated.

Concentrate Preparation: Magnetics were separated from the concentrates, the residual material being gold and other metals were subjected to aqua regia digestion "100ml aqua regia".

This aqua regia leaching of concentrates was left to leach for seven days. That would or should have been enough time to bring all gold into solution.

After one week leaching time all thirteen solutions were filtered.

For ease and convenience and because I required an average, all thirteen filtered solutions were put into one for additional processing.

Unfortunately individual samples were no longer.

A net result was 1200ml of solution ready for processing. The 1200ml was reduced to 200ml of solution by boiling on a hot plate for 2½ hours +.

The 200ml of solution was then diluted by adding an equal amount of distilled water.

The end result was a beaker with 400ml of gold bearing solution.

Precipitation occurred by adding *sodium sulfite* to the solution thus creating *gold sulfite solid* as a precipitant. When smelted a small gold bead weighing 0.57g was the end result.

This one gold bead was assayed by the local assay lab at 99.76% gold.

<u>Result:</u>	TOTAL BULK DIRT SAMPLE	=	130 kg
	GOLD PRODUCED	=	0.57 g
	AVERAGE GRADE	=	4.3 g/t

LOCATION OF ORE BODY

The gold was located just down from a quartz outcrop in the north west corner of the tailings dam on MCN 4187.

The quantity of the bulk sample was:

1 BOBCAT BUCKET = 500 kg DIRT

Where the positive holes were located there were two bobcat buckets of dirt removed for batch processing - $1000\text{kg} \pm \times 13$ positive holes. A total of 13 tonnes

BULK SAMPLES

Each 1000kg bulk sample was crushed and ground in a slurry by:

1. 12 x 8 jaw crusher; and
2. Ball mill to $< \frac{1}{2}\text{mm}$
3. Concentrated by cone separator
4. Magnetics removed by a revolving drum magnetic separator; and

from there concentrates were subject to aqua regia digestion. A result of 120g of gold at 99.46% assayed by Assaycorp, Pine Creek.

TOTAL TONNES TREATED	=	13 $\pm$
GOLD RECOVERED	=	120g at 99.46%
	=	9.2 g/t

FACTORS OF ERROR

1. Ball mill was not cleaned out before testing occurred, therefore there may have been gold in the mill from the Togar Operation at Union Reef.

HISTORY OF AREA

1. There is evidence of previous workings where the samples were taken.
2. The scattered remains of an old style dwelling.
3. Hand tools and parts scattered around shallow holes indicates previous interest.

These are processes undertaken.

A.D. WHITING
OPERATIONS MANAGER



REXEL

BOARDROOM FILE

RED 80/BRF/A4
A4, No. 13035RD



5 010255 708885 >

**NYREX 80
SERIES**

CR94/451