

S. OF DALTON RIVER

DALTO  
JULY 10/83  
59°01' / 129°21'

DACITE - FINE GRAINED, LIGHT GREEN  
OCCASIONAL 1-2 SMALL CLEAVED  
(FLAKES) CRYSTAL PER 5 SQ. CM  
CHLORITE STRINGERS - HAIR LIKE  
1 PER 3 SQ. CM - NO FOLIATION  
GENERAL DIP - VERTICAL

CARBONATE ALT. TO DACITE - TALL  
BRIGHT BRICK RED SURFACE & ROCK  
COARSE GRAINED, SILICEOUS  
KERNALS 1-2MM DIAM, CALC-SILIC  
STRINGERS 1/2 CM WIDTH NO-FOLIATION  
FRACTURING STRONG  
RED CARB. MATRIX  
BED A 2.5M WIDE  
ROUGH WEATH. SURFACE, BRITTLE

83-MW-44 - DACITE - LIGHT GREEN

41040

- FINE GRAINED, SILICEOUS  
CHLORITIC.

- PY, CPY

- PY IN "CLOUD" BLEBS ALONG  
FRACT. SURFACE, CPY RIMS TO  
PY CLOUD, RUSTY OXIDES

- ASSOC. WITH SILICEOUS - CHLOR.  
STRINGERS

- PY DIST. THRO' DACITE MASS.

"CLOUDS" UP TO 1CM LONG X 1/2CM  
V RADIATE FROM STRINGERS  
1/4CM SEPARATION

- PY - SILVER/BLACK FLAKY  
RATHER THAN CUBES

- BORNITE RARE BUT SEEN

- FLAT, HARD RUSTY WEATH. SURFACE

673960

DALTO 104P/3W

41041

83-MW-45 - LIGHT GREEN DACITE

- SIMILAR TO #44 BUT

IS SAMPLE OF MORE SILICEOUS  
AREA, PY, CPY, BORNITE

SPHAL(?) PRESENT

- STRINGERS TO 1 CM WIDE

- SLIGHTLY DARKER GREEN COLOUR  
TO MASS, SLIGHTLY MORE  
COARSE GRAINED

- SILICA DARK TO BLACK IN  
PLACES

- RUSTY ALT. ZONE 2MM AROUND  
PY FLECKS

DACITE - COARSE GRAINED 2MM

(ANDRETTIC) - SILICA, EPIDOTE, CHLORITE GRAINS  
INAEQUAL PROPORTIONS

- VERY LITTLE PY

- SOME HAIRLIKE CHLORITIC VEINLETS

- ROUGH WEATHERING + TALC

- DARK GREEN COLOUR

83-MW-46

41042

DACITE

Flow Bands  
LIGHT GREEN TO GREY

- 1/4 CM WIDE CHLORITE STRINGERS

- HOST OF 1' QUARTZ VEINS (SEE 83-MW-47)

- CARBONATE ALTERATION

GREY BECOMES RUSTY WITHOUT TEXTURAL CHANGE

- SILICA RICH NON-CARBONATE PENETRATED AREAS HAVE PY DISSEM.

- CPY FLECK 1/4 CM DIAM IN CHLORITE STRINGER

- PY, CPY ASSOC. WITH CHL STRINGERS

83-MW-47

- QUARTZ VEIN 29°/60°W

41043

1' INIDE - OUTCIPS 15-18" ~~SPACE~~

- RUSTY ALTERATION, SOME CARBONATE ALT., CHLORITE AT BOUNDARIES TO HOST DACITE

- VUGGY & RUSTY WEATHERING

- PY IN QUARTZ SEEN ONCE

83-MW-48

- QUARTZ VEIN 12' VERT. ABOVE ~~BELOW~~ #47 (E)

4-6" WIDE 30°/60°W

- WHITE - SAME AS #47  
6' LONG

3RD VEIN 2' ABOVE (W) #47

3-4" WIDE 2-3' LONG

2 QUARTZ SILICA VEINS OCCUR OCCUR ABOVE (W)

(45)

83-MW-48 - CPY IN QTZ

41044C SMALL FLECKS 1/4 CM DIAM

FOUND 2-4 CM SPACING

SM. ANT PY WITH CPY

DACITE HOST.

✓

83-MW-49 - QTZ FLOAT

41045C  $\bar{c}$  PY / CPY / PYRRHO

LIGHT DACITE MATRIX

83-MW-50 - DACITE / PY

41046C

✓

LOOKS LIKE  
FRACTURES  
PYRRHO  
ONLY

83-MW-51 - DACITE 166° / 74° (?)

41047C MASSIVE PYRRHO & DISSEM PY

GRID 1

SILICIOUS - VERY

POSSIBLE POD 40' x 20'

SOME CHALCO.

DALTO  
59d' / 129' 21"

41048C

JULY 11/83

83-NW-52 (45° STRIKE)

RUSTY HILL - CARB-SILICEOUS  
ALTERED DACITE (?)

SM. AMT PY - PYRRHOT. - 1 FLECK

RUSTY GOSSEAD

BRITTLE

41049C

83-NW-53

DARK DACITE

DISSEM. PYRRHOT / PY

SILICEOUS / CHLORITIC

- DACITE OUTCROP 2" QTZ VEIN  
+ SEVERAL SMALL STRINGERS

180° /  
180° / 72E°

QTZ VEINS + R 67/51° N

UP TO 16" WIDE

NO PY / CH SEEN OR PYRRHOT

CARB. ALT.

SILICA RICH - RESIST. WEATH  
AROUND. ROUGH JAGGED  
SURFACE

ORANGE-RED - DACITE

PALE GREEN 2 VERY FINE

DISSEM. PYRRHOT

BLEACHED - VERY LITTLE

CHLORITE.

Shear 98° / 90

Qtz 75° / 85° N

54

41050C

↳ end of book

55 2" QTZ VEIN + 46° / 44° N  
DACITE - PY

41059C



MOVE CAMP JULY 18/83  
(SET UP)

DALVO

JULY 19/83

PROSPECTING, MAPPING - SAMPLING OF SHOVELS

DACITE - fine grained - medium grained  
- very little py. assoc.  
- fract  $38^{\circ}$  /  $159^{\circ}$ W - mega fract.  
- fracture - chlorite filled fractures  
all directions through rock mass  
- some silica assoc. with chl.  
fillings - no py

Quartz Veining - Zones 3m apart  
- 3cm x 2.0m long  
- barren of sulphides some  
iron oxide stain  
- host - med. gr. dacite  
- to be sampled on grid

Some dacites more altered - weather  
routely but have flat, smooth fract  
along cleavage planes - weathering  
does not deeply penetrate rock  
hard - silicified & weathering not cruggy  
but rather surface slaking only.

## Sulphide Showing

BASELINE ESTABLISHED 50m @ 170°

TALUS SAMPLES TAKEN EVERY 5m

L0+155 - 4 SAMPLES @ 5m intervals

L0+305 - 4 SAMPLES @ 5m "

TOTAL 19 TALUS, 3 ROCK SAMPLES

DACITE - FINE GRAINED, LIGHT GREEN

SILICEOUS & CHLORITE RICH

HAIRLINE FRACTURES THROUGHOUT

ROCK & TEND TO HAVE SULPHIDES ASSOC.

FRACTURE PLANES & (STRONG) CLEAVAGE

PLANES HAVE SULPHIDES SMEARED

ALONG SURFACE. F. 38°/58° W

DACITE - COARSE GRAINED, ALSO LIGHT

GREEN COLOUR, TEXTURE FRESH + WEATHERED

MORE COARSE, DISSEM. SULPHIDES

~~THE~~ PRESENT BUT NOT ABUND.

LESS SILICEOUS, CHL. CHARACTER

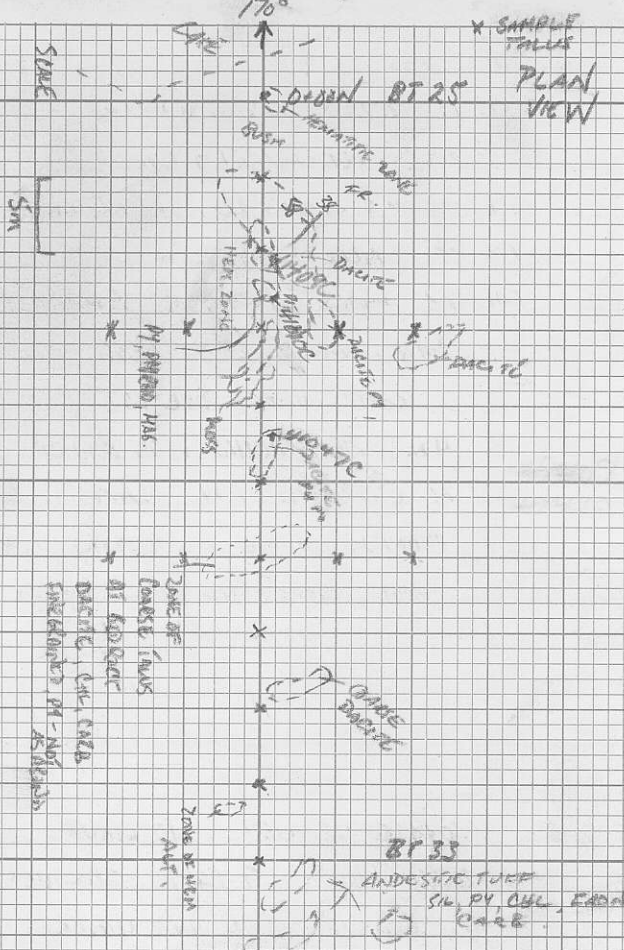
STRONG WITH FINE FRACTURES

CHL. FILLED - SOME PY - PYRRHO

GRAIN SIZE UP TO 4MM, FOLIATION &

ROUNDING OF GRAINS WEAK

MINOR CARBONATE ALTERATION



July 19/83  
 M. P. WEBSTER



## HEMATITE ZONES -

SMALL ZONES MAX  $\frac{1}{2}$  m x  $\frac{1}{2}$  m  
OF RUSTY-RED ALTERED DACITE  
OUTCROPPING IS LIMITED  $\therefore$  CAUSE OR  
CONTACT UNCERTAIN. SULPHIDES NOT  
GREATER AROUND  $\therefore$  MAY BE WEATH EFFECT  
TRENCHING WAS DONE & THESE RED  
ZONES ARE FOUND WITH DEEPEST TRENCHING  
 $\frac{1}{2}$  -  $\frac{3}{4}$  m. PY, PYRHO, HAS FOUND  
DISSEM WITH RARE CPY "FLAKES" (1-2mm)  
WITH PYRHO. DACITE IS SILICIFIED & CHL  
LESS PROM. THAN IN THE COARSE DACITE

## ANDESITE TUFF

DARK GREEN, MED-COARSE GRAIN  
TUFF, LESS SILICIFIED, SOME  
CARBONATE ALT. UNEVENLY DISTRIBUTED  
THROUGH ROCK, QTZ-CARB STRINGERS  
(1 per 50cm sq.) + CHL AND MINOR  
DISSEM SULPHIDES - low line fract  
WITH <sup>very little</sup> SOME PY VISIBLE IN MATRIX

CARBONATE ALT. IS STRONGEST IN ANDESITE

IT IS HOWEVER <sup>INCONSISTANT</sup> SPOTTY + BEST NOTED IN STRINGERS

CHLORITIC ALT - IS THROUGHOUT ROCK, CONCENTRATED  
IN STRINGERS AND IS MOST AROUND IN ANDESITE

# MINERALIZATION

SULPHIDES - DISSEMINATED PYRITE  
PYRRHOTITE  
MAGNETITE  
CPY

BETWEEN STATIONS 0+055 AND 0+255  
MINERALIZATION IS BEST

RUSTY IRON OXIDE STAINING IS STRONGEST  
HERE; VUGGY - WHITE-YELLOW WITH DISSEM.

PY IS ALSO FOUND AT THE SURFACE AT  
0+155 - THIS WHITE WEATHERED DACTILE  
IS ONLY LOCATED AT THIS PLACE AND  
CONSISTS OF A FEW SMALL ~~ROCK~~

ROCKS AT IMMEDIATE OUTCROP SURFACE

PYRITE IS MOST ABUNDANT SULPHIDE,  
MAGNETITE + PYRRHOTITE 2ND ABUND  
CPY OCCURS AS DISSEM. FLECKS WITH  
OTHER SULPHIDES - CPY ASSOC WITH PYRRHO/MAG

SULPHIDES TEND TO MASS ALONG FRACTURE  
PLANES. CHLORITE IS NOT PROMINANT  
FRACTURE FILLING BUT IS PRESENT.  
SILICA IS ALSO FRACTURE FILLING

PY, PYRRHO, CPY + MAG ARE FOUND  
DISSEM. THROUGH ROCK.

NO CARBONATE ALT IN FINE DACTILE  
SOME " " " COARSE DACTILE  
BUT IT IS INTERMITTENT THROUGH ROCK

## OVERVIEW

SHOWING HAS GENERAL STRIKE 170°  
DIP IS UNCLEAR (EVEN WITH TRENCHING!)  
THERE IS NO CONTINUATION TO THE  
NORTH ACROSS THE SMALL LAKE (60m)  
AND TO THE SOUTH - NO OUTCROP!  
POSSIBLE POD OF MINERALIZATION OR TO SOUTH  
WEATHERING OF LESS RESISTANT ROCK IS

SAMPLE 41409 C -

DACITE - RUSTY WEATHERING

- IRON OXIDE STAINING

$\approx 58^{\circ}/38^{\circ}W$  - CHL/SILICA IN HAIRLINE SPINDLES

- PY, PYRHO, CPY (flocks) & MAG

FOUND  $\frac{1}{2}$  CM THICK ALONG

FRACT PLANE

- DISSEM. SULPHIDES

SAMPLE 41410 C

DACITE - IRON OXIDE WEATH. SURFACE

- PY, PYRHO, MAG, CPY (flocks)

- CONC. ON FRACT. & DISSEM

- SULPHIDES ~~NOT~~ ABUND. THRD

DACITE

DALTO  
S-MAPPING  
PROSPECT  
JULY 20/83

## ROCK TYPE 1

### ANDESITE TUFF

DARK GREEN - COARSE GRAINED, UP TO 5mm, GRAINS GENERALLY ROUNDED HORNEELED, FOLIATION TRENDS VARY OUTCROP TO OUTCROP BUT ALIGNMENT OF LONG AXIS OF GRAINS APPARENT SILICIFICATION PRESENT BUT LESS PERVASIVE THAN IN DACITES, MINOR PYRITE AND FEW (IF ANY) QUARTZ STRINGERS

- WEATHER SURFACE

GENERALLY ROUGH, BLOCKY ~ IRON STAINING

- EPIDOTE ALTERATION

APPROX. 25-30% OF GRAINS BUT WILL ALSO VARY - 30% MAX.

- FRACTURING TRENDS

(WILL VARY AS WELL 20° E-W, SPACING 10 CM AVE.

IS RARE

- CARBONATE ALTERATION

- SOME DISSEMPY MAY OCCUR BUT MUST BE MAINTAINED ACCORDINGLY

- CHLORITIC ALTERATION

STRONG, DARK FINE GRAINED CRYSTALS ROUNDED, UP TO 5mm LONG AXIS, 3mm WIDTH EVENLY DISTRIBUTED THROUGH MATRIX

- P4

- FINER GRAINED ANDESITES SHARE ALL ABOVE DESCRIPTION - ANY

GRAIN ALIGNMENT, FLOW PATTERN OR INCONSISTENCIES IN GRAIN SIZE IS INDETERMINABLE AS ROCK IS TOO FINE GRAINED AND MASSIVE

## ROCK TYPE 2

DACITE TUFF - COARSE GRAINED

LARGER CLASTS, LIGHT & DARK DACITE (ANDESITE?)

UP TO 2CM LONG AXIS 1.5CM WIDTH

FOLIATION OF CLASTS LESS PROMINENT THAN TYPE 1

FINE DACITE MATRIX, MINOR PYRITE, PYRHO

- SILICIFIED, BUT NO (VERY

VERY FEW) QUARTZ STRINGERS

- CHLORITE ALT. MEDIUM

PERVASIVENESS, CLASTS VARY INDIVIDUALLY

- NO CARBONATE ALT.

- WEATHERED SURFACE, FLAT &

SMOOTH OR FRACTURED SURFACE, LIGHT

RUSTY IRON STAIN OXIDES, BLOCKY <sup>FRACT.</sup> SPACING 8-10CM

- NARROW FRACTURES

DISCORDANT TO SLIGHT CLAST FOLIATION

VISUALLY IRON STAINED, SOME HAVE

SILICA ASSOCIATED BUT MAJORITY ARE

HAIR LINE FRACTURES ALL DIRECTIONS, NO ALT <sup>ASSOC.</sup>

- INDIVIDUAL CLASTS HAVE

OWN FRACTURE PATTERN

- FINER ZONES UP TO

2CM THICK WITHIN THIS UNIT, MINOR ALT

SULPHIDE, NO. CARB., HAIR FRACT.

# ROCK TYPE 3

## DACITE TUFF - MED. GRAINED

GRAINSIZE TO <sup>5mm</sup> 3MM, VERY SLIGHT FOLIATION  
FINE GRAINED MED-LIGHT GREEN DACITIC  
MATRIX

- SILICIFICATION STRONGER  
AND STRINGERS MORE ABUNDANT. STRINGERS  
ARE DISCORDANT TO FOLIATION OF GRAINS AND  
ARE FRACTURE FILLING, AVE 1/2 CM WIDTH

- CARBONATE ALTERATION  
ASSOCIATED WITH SILICA STRINGERS - ROCK  
MASS SILICIFIED ONLY

- PYRITE, PYRROTITE, MAGNETITE  
CHALCOPYRITE FOUND IN QUARTZ/CARB STRINGERS  
DISSEM OF PYRITE, PYRROTITE IN MATRIX (MAG.  
COBE SIZE VERY FINE UP TO 1/2 CM LENGTH (CPY)  
SULPHIDES IN STRINGERS IN FLAT MASSES UP TO  
3MM LENGTH

- FRACTURES HAIR-LINE AND  
RUSTY, CARBONATE ALT. AND VUGGY IN SMALL  
ZONES UP TO 1CM LONG 1/2 WIDE. ALONG  
FRACTURE

- CLEAVAGE/FRACT. MORE  
CLOSELY SPACED 4-5 CM, ROCK GENERALLY  
BRITTLE

- QUARTZ VEINING, NARROW  
AND INTERMITTENT. WIDTH 3-5CM, PYRITE  
PYRROTITE, MAG(?), VERY LITTLE CPY FOUND  
VEINS WIDELY SPACED - METERS ~~2~~ 15m-20m  
AND TREND

118/46° W - QZ VEIN 2-3cm + FRACT

18/78° W - FR.

# FLOW BANDED

ROCK TYPE 4

DACITE - FINE GRAINED, LIGHT GREEN

VERY SILICEOUS, MASSIVE, FINEGRAINED,

FLOW BANDED IN PLACES

- BANDS  $\perp$  to FRACTURING

BANDS ARE DARKER GREEN, UP TO 1MM WIDE

AND ARE OFFSET BY HAIRLINE FRACTURES UP TO 1CM

- NO CARBONATE ALTERATION

- SILICA OCCURS ALONG FRACTURES

AS WHITE TO CLEAR, COLOURLESS TO GREEN & SOME

BLACK FRACTURE FILLINGS. CRYSTAL STRUCTURE

BEST VISIBLE ~~ONLY~~ IN THOSE FRACTURES GREATER

THAN  $\frac{1}{2}$  CM WIDE. QUARTZ VEINING MAY BE

UNRELATED TO THE FILLING OF FRACTURES THROUGH MATR

(SEE QUARTZ VEINING NOTES)

- FRACT. SURFACES RUSKY & SMOOTH

BUGGY OR ERODED ZONES RARE

- PYRITE, PYRROHITE, CPY, MAGNETITE

1CM  
OCCUR AS FLAKES UP TO 3-4MM DIAM PRIMARILY

IN FRACTURES - SOME DISSEM. IN MATRIX

"CLOUD" TEXTURE TO SULPHIDES, PYRROH RIMMED WITH  
R ALONG FRACT. PLANE

CPY IN PLACES. CPY/PYRROH/MAG ASSOC. (?)

- INDIVIDUAL GRAIN SILICA (GREEN) & SULPHIDES MAY BE FOUND IN MATRIX (AVE SIZE 2-3MM DIAM)
- FRACTURES (HAIRLINE) MAY CROSSCUT EACH OTHER, GENERALLY CONTINUOUS THROUGHOUT ROCK.
- WEATHERED SURFACE - LIGHT GREEN TO WHITE, SOME IRON OXIDES MAY INFLUENCE HARD, SMOOTH SURFACE GENERALLY TO A LIGHT RUSSY COLOUR.

### ROCK TYPE 5

~~SAND~~ THIN LIMESTONE BEDS UP TO 4CM THICK FOUND WITHIN DACITE  
 NO MINERALIZATION OR MARBULIZATION TO LS.  
 BEDS ARE THIN & WAVY & NO ABSOLUTE STRIKE/DIP CAN BE MEASURED

### ROCK TYPE 6

PILLOW BASALT



41449C - DARK, FINE GRAINED  
ANDESITIC TUFF

- MINOR DISSEM PY, NO. CPY
- MASSIVE, STRONGLY JOINTED  
WITH SILICEOUS CHAL

41448C - QUARTZ VEINING  
09/72°W

- QTZ VEIN 12cm WIDE x 4m
- STRIKE NOT CONSISTANT - TO  
NEXT HILL BUT IS STRAIGHT - NO BEND
- 2 SMALL PARALLEL VEINS TO EAST  
1m (6cm wide) & 5m (6-7cm wide)
- NO VISIBLE SULPHIDES BUT SOME  
IRON STAIN PRESENT.

41449C - ~~COARSE~~ MED GRAINED DACITE  
DISSEM PY & RUSTY SPECKS  
MINOR MAGNETITE, SILICIFIED  
NO CARB. ALT.

- PART OF LARGE MASS is NOT  
ISOLATED ZONE
- REPRESENTATIVE SAMPLE

SILTS 240 + 241 - see data sheet.

JULY 21/83

- 41446C - DACITE - MED GR.  
- IRON OXIDE STAIN  
- HARD, FLAT JOINTING  
10° / 110° E, 152° / 65° N  
- PY, PYRRHO, MAG. DISSEM.

- 41445C - QUARTZ VEIN 11° / 62° E  
- SOME RUSTY STAIN  
- NO VISIBLE SULPHIDES  
- 10cm / 8m long  
- STRIKE - straight but not  
continuous

- 41444C - QUARTZ PATCHES  
STRIKE  $\approx$  10°  
- PATCHES (4) ALL 25cm x 25cm  
ALONG STRIKE - 10m apart  
- IRON OXIDE  
- <sup>TAUBS</sup> chip sample of each patch  
to make 1 sample  
- assume vein structure

- 41443C - DACITE - MED GR.  
- PY, PYRRHO, RP4 (small amt)  
DISSEMINATED THROUGH  
ROCK  
- SILICEOUS / CHLORITIC  
- WEATH. SURFACE FLAT  
SMOOTH, IRON STAINING

41442 C - QUARTZ VEIN

34°/82°E 16cm X 30m

- PYRITE IDENTIFIED BUT VERY DISSEM
- SOME IRON STAINING
- MOST MED GR. DACITE

41441 C - QUARTZ VEIN

33°/61°W 6cm X 1.5m

- PYRITE FOUND & QUARTZ FAIRLY RUSTY - RUSTY STREAK ~~DOWN~~ ALONG STRIKE & IN VEIN CENTRE 1cm wide
- MOST MED GR DACITE

41440 C - ANDESITE TUFF

- MASSIVE, FINE GR DISSEM. PY

- BHL / SILICEOUS

HOST FOR 41059 C

QUARTZ VEIN

VEIN CURVES  $\approx$  20cm max width & TAPERS

July 22/85

- 41450C - MED GRAINED DACITE
- MINOR PY, SILICEOUS & CHLORITE PRESENT IN HAIR FRACTURES
  - SOME ~~BASE~~ IRON OXIDE ON SURFACE.

PILLOW BASALT -

NORTH PORTION OF PROPERTY

- DACITES - med. & fine - flow bands  
SOME PY DISSEM  
- well jointed - strong
- Qtz SERICITE SLIST - LARGE PY  
CUBES 1cm x 1/2 cm DISSEM.  
62°/68°S  
- qtz veins large up to 1 1/2 cm  
in width

check out - ls beds

- silicified, mildly marbled ls
- interbedded with volcanic dacite
- carbonate alteration to Qtz stringers in area
- no strike/dip measurable as beds pinch & swell to  $\approx 1-1.5m$  thick
- some intermixing of dacite & ls clasts of dacite 5-6 cm diam seen in ls

Posts SW, SS, SW45 - stand up.

CAMP MOVE TO

EAGLE CLAIMS

July 23/83 planned  
at 10:00 am