

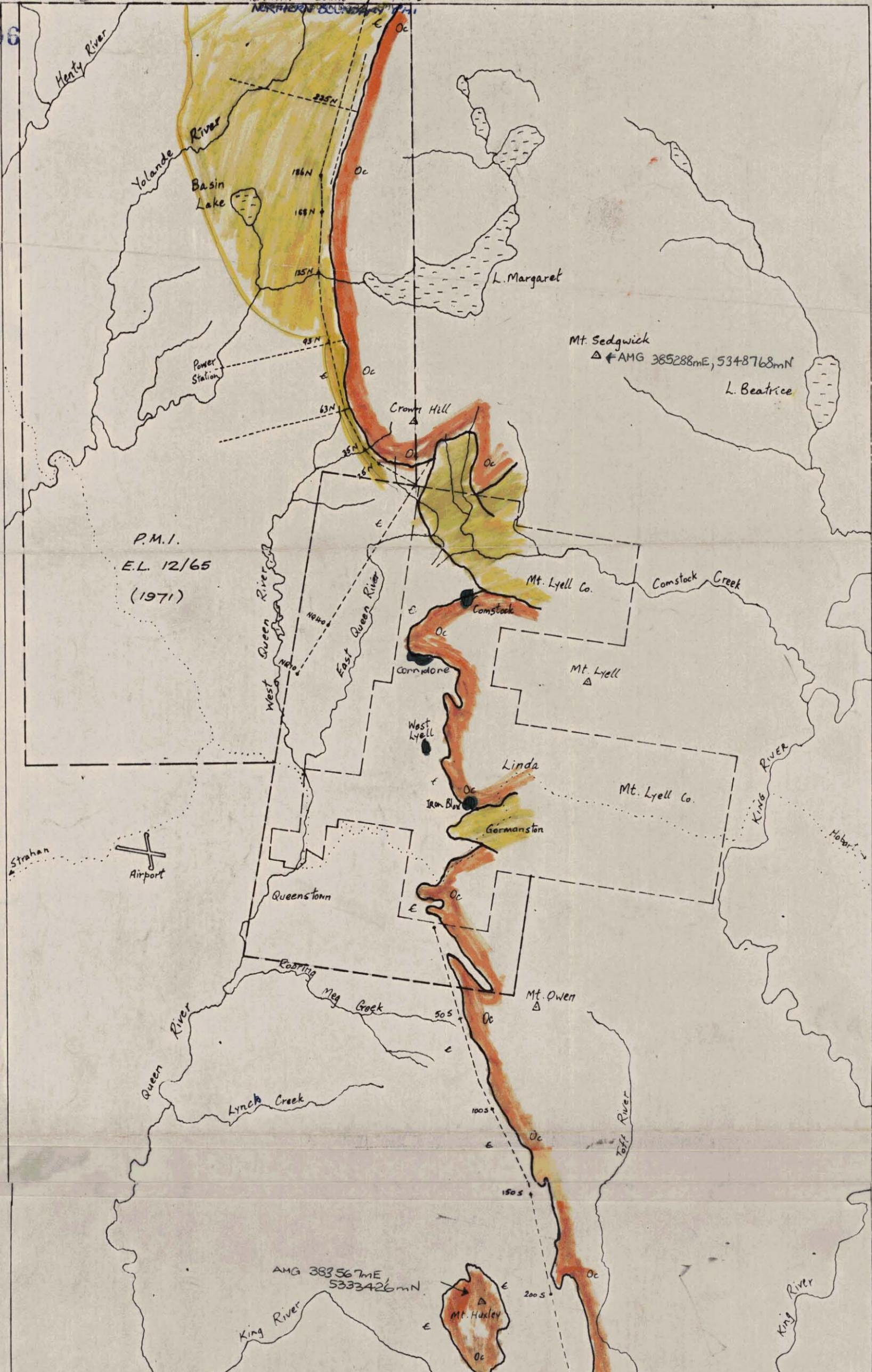
**IP TRAVERSES**  
**QUEENSTOWN AREA**

**E L 12 / 65**

**68\_512**

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1. Queenstown Area – IP Traverses 1 inch : 1 mile
  
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  - d) Area Mt Sedgwick – Line Detail 1
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Geology & Soils



P.M.I.  
E.L. 12/65  
(1971)

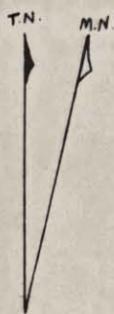
Mt. Sedgwick  
△ AMG 385288mE, 5348768mN  
L. Beatrice

AMG 383567mE,  
5333426mN

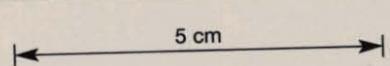
Southern Boundary P.M.I.

68-512

### QUEENSTOWN AREA IP TRAVERSES



SCALE 1" to 1 mile



- i.p. Survey Line - - - - -
- Major roadway - - - - -
- Cambrian - Ordovician Contact

AMG REFERENCE POINTS ADDED



Pa/2T

M.F.

29 MAR 1968

MILITARY GEOGRAPHICAL SERVICE  
IN SERVICE  
CHECKED BY: P. J. ...

AREA: Sedgwick  
 LINE: Sedgwick  
 SPREAD: 500'  
 FREQ: 3.8 Mc Z: 5 cps  
 TRANSMITTER: Single foil  
 PLOTTED BY: P. J. ...

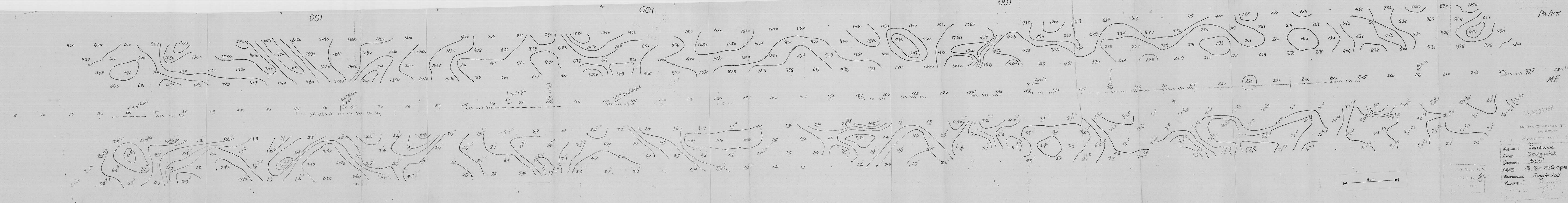
001

001

001

001

001



-1 MAY 1968

McPIAR GEOPHYSICS PTY. LTD.  
E.P. SURVEY

CLIENT: PICKAND MATHER

Area: QUEENSTOWN

Line: ROARING MEG

Length: 500 FT

Freq: 2.5 AND 0.3 CPS

Electrode: SINGLE ALFOIL

Plotted by: S.Z.

Checked by: N.T.

Date: 24-1-68

CHECKED *JA*  
INTERPRETED *EL*  
DISTRIBUTED *AK*

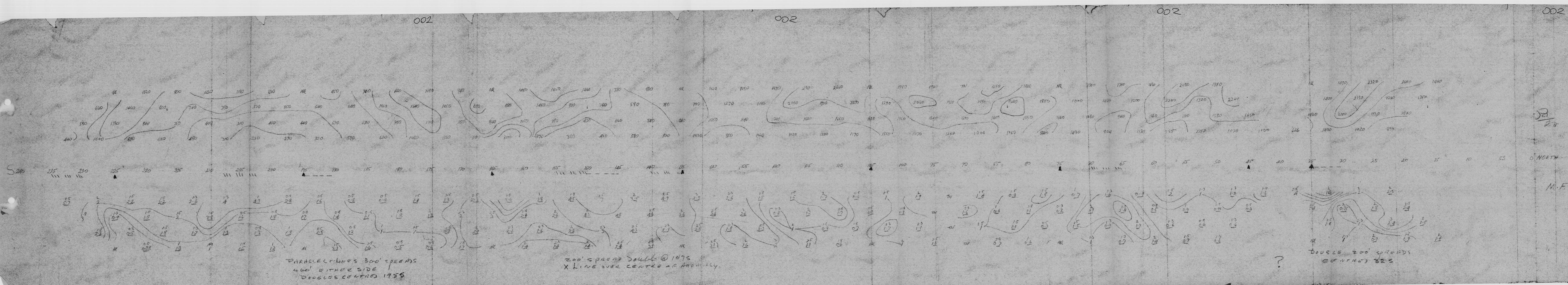
DISTRIBUTION  
4 PRINTS  
S.Y.D.N.B.Y.

127006

002

5 cm

20



003

003

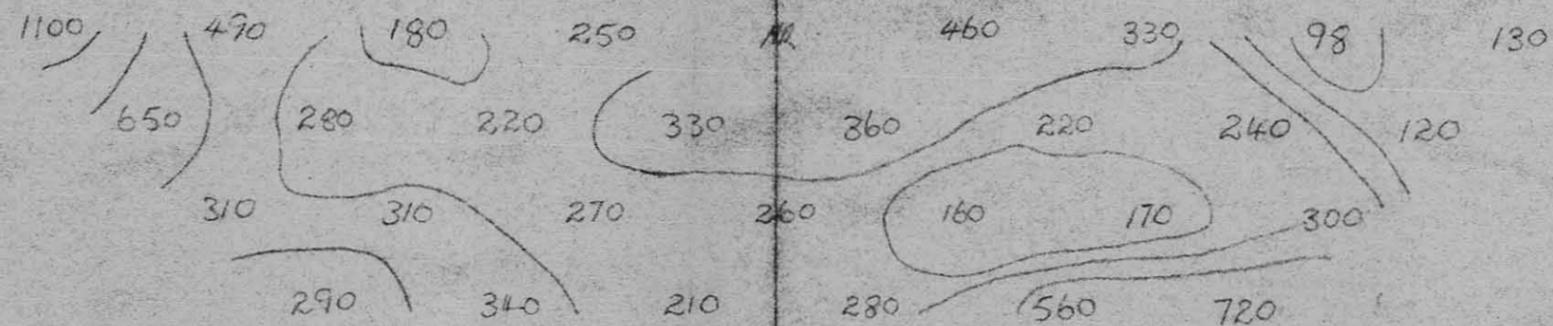
30 APR 1968

M.P. GEOPHYSICS PTY. LTD.  
I.P. SURVEY

Pickands Mather

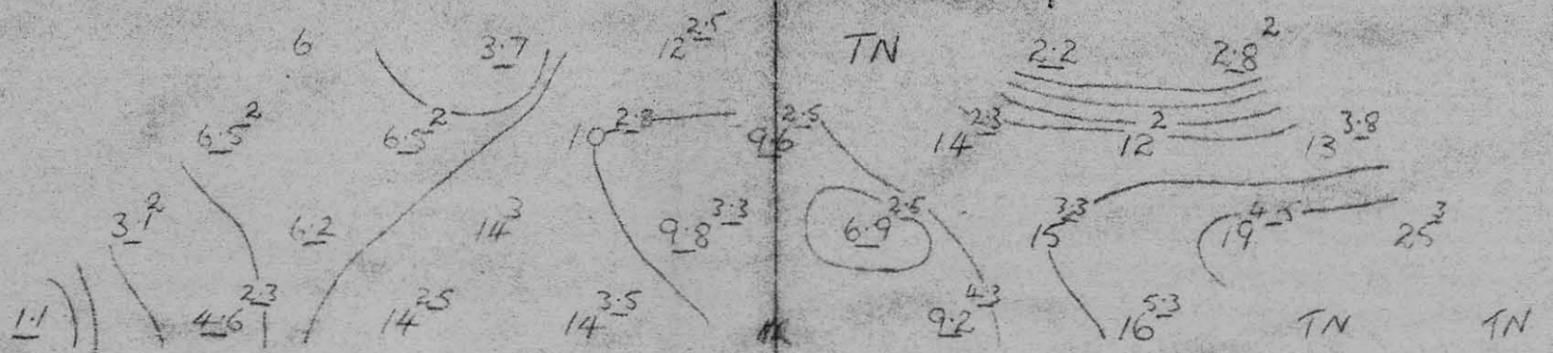
Area	M Sedgwick
Scale	Detail 1
Sound	300'
Traces	2.5 and 3 c.p.s
Electrodes	Single Foil
Flatten	17 miles
Checked by	SZ
Date	25 <sup>th</sup> April 1968

Pa/2π



High Tension Wire

M.F.

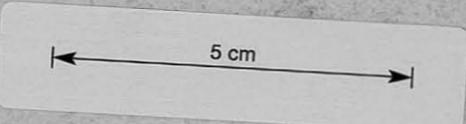


LOCATION ~~225~~??

225 + 00 N

CHECKED *[initials]*  
 INTERPRETED *[initials]*  
 DISTRIBUTED *[initials]*

127007



2(d)

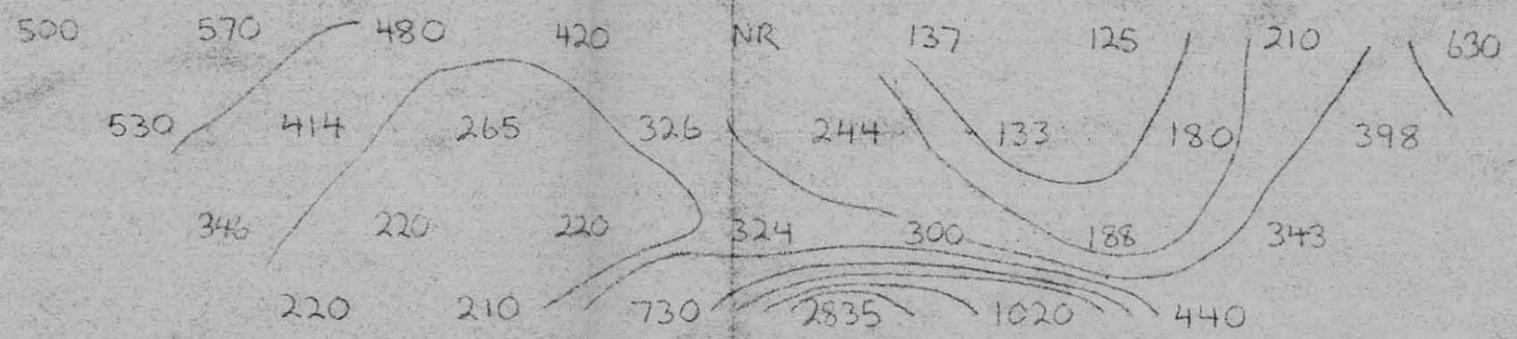
30 APR 1968

McPHAR GEOPHYSICS PTY. LTD.  
11 GURVEY

CLIENT RICHARDS MATHER

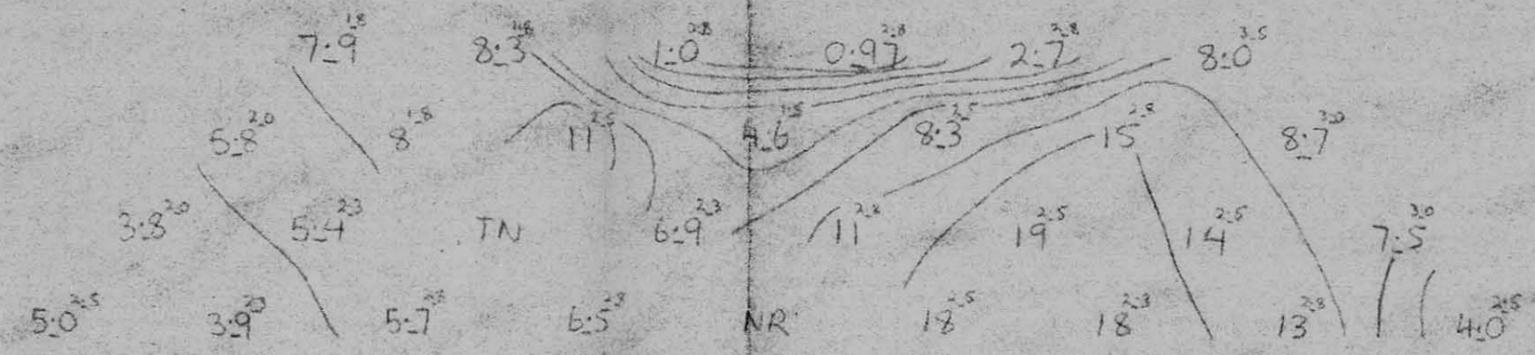
Area:	QUEENSTOWN
Line:	M.F. SEDWICK DETAIL 2
Spread:	300'
Freq:	2.5 AND 0.3 cps
Fl. modes:	SINGLE ALFOIL
Filtered by:	S.Z.
Checked by:	N. MILES
Date:	26-4-68

*Pa / 2π*

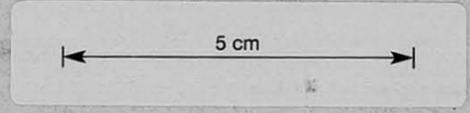


24w 21 18 15 12 9 6 3w 0 3E 6 9 12 15 18E

LOCATION ~~23250N~~ 23  
233+00N



M F



CHECKED	GA
INTERPRETED	EB
DISTRIBUTED	6.

127008

004

004



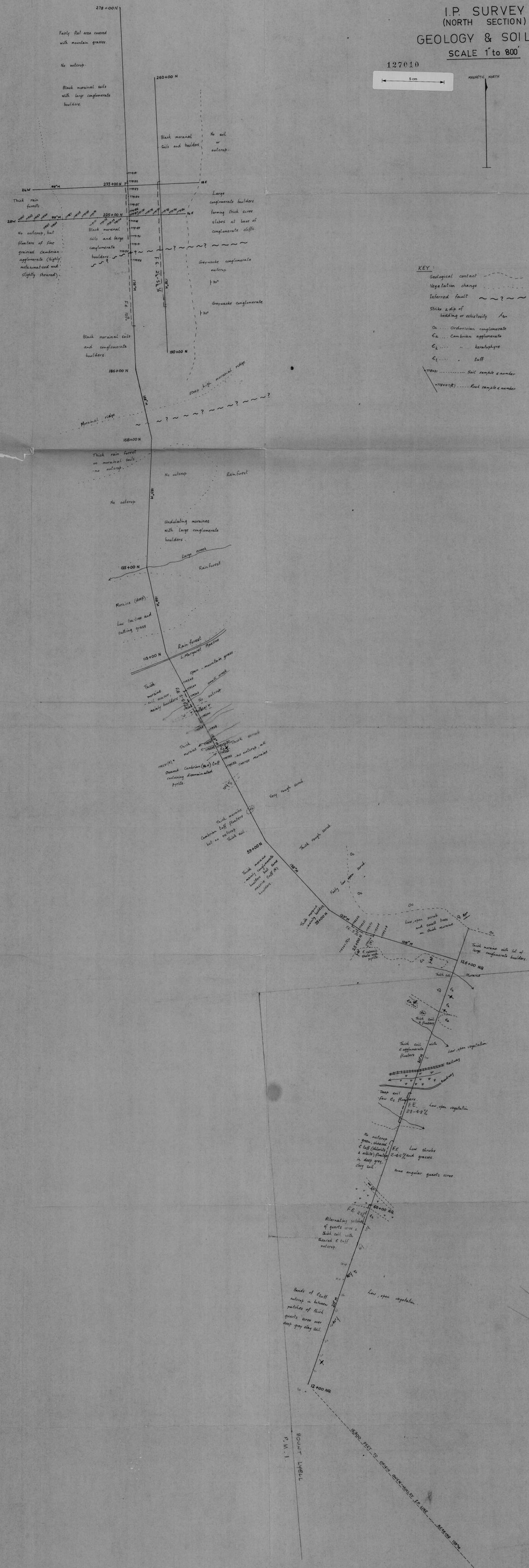
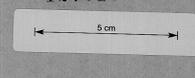
# QUEENSTOWN AREA

## I.P. SURVEY (NORTH SECTION)

### GEOLOGY & SOILS

SCALE 1" to 800'

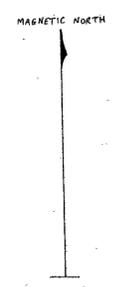
127010



- KEY:**
- Geological contact
  - Vegetation change
  - Inferred fault
  - Strike & dip of bedding or schistosity
  - Oc ... Ordovician conglomerate
  - Ca ... Cambrian agglomerate
  - E<sub>k</sub> ... keratophyre
  - E<sub>l</sub> ... Luff
  - 77801 ... Soil sample number
  - 77801(B) ... Rock sample number

127011

QUEENSTOWN AREA  
I.P. SURVEY  
(SOUTH SECTION)  
GEOLOGY & SOILS  
SCALE: 1" to 800'



15900 FEET - ORIGIN NORTH QUEEN I.P. LINE - BEARING 319° M

10+00 E  
Short trees and scrub over vein quartz conglomerate some  
Soils are developed from moraine material and residual Cambrian volcanic bedrock  
Outcrop is limited because of some  
Area of high relief with steep rough gullies.

Very steep and rough near conglomerate contact

Bare rock outcrop - no soil developed

Black sand, quartz gravel soil (moraine) with large conglomerate boulders

Low mountain grass and herbs - few dry trees  
Very rough in gullies  
Outcrop very limited and deeply weathered

Plentiful outcrop - moraine soil - some quartz gravel but rather smooth

Very little outcrop  
Moraine soil & gravel with large conglomerate boulders

Small rough gullies with abundant dead wood - no outcrop

Some outcrop but not plentiful  
Low mountain grass & herbs  
Low relief

Plentiful moraine soil with quartz gravel - no boulders  
Isolated outcrop

Rough - cutting grass and dry trees  
outcrop only in oaks

No outcrop  
Thick vein quartz - moraine soil  
Very rough steep gullies - limited outcrop

Short grass, no gullies  
White vein quartz over black sandy moraine soil. Few isolated conglomerate boulders.

No outcrop  
Limited outcrop  
Thick bush

Thick rough bush - abundant steep gullies  
Limited outcrop - some soil cover - conglomerate some in limited quantity.

- KEY:
- Geological contact
  - Physiographical change
  - Dip & strike schistosity or bedding
  - Strike of schistosity or shearing
  - Anticline and syncline with plunge
  - Streams & direction of flow
  - Swamp
  - Oc ..... Ordovician conglomerate
  - Ec ..... Cambrian Cuff (sheared)

**NOTE**  
The I.P. survey line follows a sheared Cambrian - Ordovician conglomerate contact. Differential erosion has produced shear cliffs in the conglomerate which have been partly modified by thick scree slopes of fluvial, glaciofluvial, and glacial origin.  
The scree is mostly of moraine material with large quartz conglomerate boulders (up to 30 feet diameter) in black humic sandy soil containing conglomerate pebbles and vein quartz scree. Its thickness decreases away from the contact.  
Streams flowing off the contact have produced steep, narrow gullies filled with dead wood and rushes.  
Outcrop of the Cambrian volcanics is very limited and visible only in some stream valleys and on the tops of some of the higher ridges.  
The Cambrian volcanics do not vary considerably throughout the length of the line. They are medium to coarse grained cuffs which have been highly albited and chloritized with some silicification. They are highly sheared but deeply weathered.

T12-2