

**1988/30. Searching techniques for CARP (computer-assisted plan retrieval).**

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**INTRODUCTION**

As at September 1988, the CARP data base contains approximately 4000 plans dated from 1967 to 1987. Plans for 1988 have not been processed because not all allocated reports have been completed. A further 5000 plans are being processed in preparation for entry into the system. It should be noted that when searching, there may be a time lapse of up to one minute before any information is displayed.

The CARP data base consists of the following fields which may be searched on: TITLE, LOCATION, QUADRANGLE, CATEGORY, SUB-CATEGORY, AUTHOR, YEAR, DRAFTSMAN and REMARKS (this also contains report references).

A list of **standard** abbreviations is attached for the following search fields: TITLE, CATEGORY and SUB-CATEGORY, AUTHOR, DRAFTSMAN, REMARKS (reports).

**SEARCHING THE DATA BASE**

1. Firstly, the user must log onto the public data base account which resides on the PERKIN/ELMER minicomputer's disk storage.

When typing the next command, replace NAME with your **own** name or initials, then hit the RETURN key at the end of the line.

After switching on the terminal, type the following command:  
(Include **ALL** commas & the space)

**S NAME,5,DATA**

EXPLANATION:

**S** - means *SIGNON*  
**NAME** - replace this with your **own** name or initials  
**5** - the account number  
**DATA** - the password must be in capital letters

2. After SIGNON, a series of messages showing system status is displayed. Then you must type the following command to activate the plan search program:

**PLANSRCH**

3. It should be noted that ALL entries **must** end with a / , otherwise the required information may **NOT** be found.

The program requests the following data from the user:

(i) *FIRST TITLE SELECTION*

- one or more groups of words on a single line, each group of words terminated by a /. If this option is not required leave the line blank.

e.g. GOLDEN GATE/TAS MINE/LEFROY/  
 means Golden Gate **or** Tasmania Mine **or** Lefroy

Important: please note that in the above example TAS has been used instead of Tasmania. This is a standard abbreviation used within the data base. Please refer to the list of standard abbreviations when using 'key' search words because the program will NOT find all 'full' words such as TASMANIA (refer to APPENDIX 1). This also applies to the second title selection.

You may find that if you avoid entering spaces and punctuation, and use only portions of 'key' words, the success rate of searches will be higher.

(ii) *SECOND TITLE SELECTION*

- same format as for the first title selection. If you include this option with first title selection then BOTH title selections must be satisfied during a search if further items are to be checked, and this provides a 'logical and' for the title search. For example it is possible to look for underground workings from either Golden Gate, Tasmania Mine, or Lefroy by making the first title selection as follows:

GOLDEN GATE/TAS MINE/LEFROY/

and the second title selection as follows:

UG WKGS/ (refer to APPENDIX 1)

(iii) *LOCATION*

- same format as for the first title selection
- may include a town, district, or quadrangle name
- leave blank if not required

(iv) *QUADRANGLE*

- based on 1 inch = 1 mile geological map sheets
  - refer to APPENDIX 6
  - one or more quadrangles on a single line, each separated by a /.
  - leave blank if not required
  - to search regional plans use a quadrangle number of 00.
- e.g. 27/ only quadrangle 27  
 27/32/ quadrangle 27 **or** 32  
 27/32/00 quadrangle 27 **or** 32 **or** any regional plan

(v) *CATEGORY*

- refer to APPENDIX 3
- one or more single digit numbers (as per the standard list) on a

- single line each separated by a /.
- leave blank if not required

(vi) *SUB-CATEGORY*

- refer to APPENDIX 3
- one or more single digit numbers (as per the standard sub-category list) on a single line separated by a /.
- leave blank if not required

(vii) *AUTHOR*

- refer to APPENDIX 5
- one or more standard author abbreviations each separated by a /.
- leave blank if not required.

(viii) *YEAR*

- same format as for quadrangle

(ix) *DRAFTSMAN*

- refer to APPENDIX 4
- one or more standard draftsman abbreviations each separated by a /.

(x) *REMARKS*

- this usually refers to the relevant report as per the standard abbreviation list (refer to APPENDIX 2).
- one or more may be used each separated by a ; INSTEAD of a / however it is practical to enter only one report reference.

(xi) *PROCEED WITH THIS SEARCH?*

- hit the RETURN key to proceed,
- N if not

At this point, the program pauses to actually perform the search, then informs you how many records were found. If some records were found, you are then asked if you want a screenfull of information, to which you either reply Y or N. The key to the location of the required plan is its plan number, which is the first part of each record displayed on the screen or on the printout.

(xii) *PRINTOUT REQUIRED?*

- Y if required, N if not

(xiii) *MORE SEARCHES?*

- Y if required, N if not; then type BYE to logoff the system

**REFERENCES**

RICHARDSON, R. G. 1987. CARP - Computer assisted retrieval of plans (Revision 2). Unpubl. Rep. Dep. Mines Tasm. 1987/27.

APPENDIX 1

Standard abbreviations used in titles for CARP

<i>Term</i>	<i>Abbreviation</i>
AEROMAGNETIC	AEROMAG
ASSOCIATION	ASSN
BULLETIN	BULL
COALFIELD	COALFLD
CONSOLIDATED	CONSOLD
COMPANY	CO
COMPILATION	COMP
CREEK	CR
DEPARTMENT	DEPT
DIAGRAM -MATIC	DIAG
DIAGRAMS	DIAGS
DISTRIBUTION	DISTRIBTN
DISTRICT (AREA)	DIST
DIVISION -S	DIV, DIVS
EASTERN	EASTN
EXPLORATION	EXPLORTN
EXTENDED	EXTD
EXTENSIONS	EXTNS
FIGURE -S	FIG, FIGS
GENERAL	GEN
GEOCHEMICAL	GEOCHEM
GEOGRAPHY -ICAL	GEOG
GEOLOGY -ICAL	GEOL
GEOPHYS -ICAL	GEOPHYS
GOLDFIELD	GOLDFLD
GOVERNMENT	GOVT
GREAT	GT
HIGHWAY	HWAY
INCLUDED -ING	INCL
INTERPRETATION	INTERP
INVESTIGATION -S	INVESTIGTN -S
ISLAND	ID
JUNCTION	JCN
LIMITED	LTD
LONGITUDE -INAL	LONGD
MINING	MNG
MOUNT -AIN	MT, MTN
NO LIABILITY	NL
NORTH -ERN	NTH, NTHN
NUMBER	NO.
PLATE (PLAN)	PL
POINT	PT
PROJECTION	PROJECTN
PROPRIETARY	PTY
PROSPECTING	PROS
QUADRANGLE	QUAD
RAILWAY	RLY
RANGE (mountains only)	RA
REFERENCE	REF
RIVER	RIV
RIVULET	RIVT

<i>Term</i>	<i>Abbreviation</i>
SANDSTONE (s/or)	S/STONE, SANDSTONE
SECTION	SECTN
SIDING	SDG
SOUTH -ERN	STH, STHN
STATION	STN
SUBDIVISION	SUBDIV
SURVEY	SURV
SYNDICATE	SYND
TASMANIA -N	TAS
TINFIELD	TINFLD
UNDERGROUND	UG
VERSUS	V
WESTERN	WESTN
WORKINGS	WKGS
XRAY DIFFRACTION	XRD

APPENDIX 2

Standard abbreviations for reports in remarks field of the CARP data base

<i>Report Title</i>	<i>Abbreviation</i>
GEOLOGICAL SURVEY BULLETIN No.32	BULL 32
GEOLOGICAL SURVEY MINERAL RESOURCES	MIN RES 8
GEOLOGICAL SURVEY PAPERS No.4	G.S.PPR 4
GEOLOGICAL SURVEY RECORDS No.9	G.S.REC 9
GEOLOGICAL SURVEY REPORTS No.5	G.S.RPT 5
UNPUBLISHED REPORT 1978/11	U/R 1978/11
UNDERGROUND WATER SUPPLY PAPER No.5	U.W.PPR 5
TECHNICAL REPORT No.15	TEC RPT 15
ROYAL SOCIETY OF TASMANNIA PAPERS	ROY SOC TAS 114
GEOLOGICAL SOCIETY OF AUSTRALIA	GSA
AUSTRALIAN JOURNAL OF EARTH SCIENCES	A.J.E.S. 31/4
GEOPHYSICS SPECIAL REPORT No.7	GPHYS S/R 7
ECONOMIC GEOLOGY 1973	ECON GEOL 73
EXPLANATORY REPORT MACKINTOSH	EXP RPT 44
PRIVATE MINING LEASE	P/M

**APPENDIX 3**

**CARP plan categories**

**1 ENGINEERING GEOLOGY**

- 0 GROUND WATER
- 1 DAMSITES / TUNNELS
- 2 LANDSLIDES
- 3 ROAD, RAIL AND PIPELINES
- 4 FOUNDATIONS
- 5 QUARRIES AND ROCK FACES
- 6 GEOPHYSICS (seismic, resistivity etc.)
- 7 DISPOSAL SITES / TAILINGS DUMPS
- 9 MISCELLANEOUS

**2 ECONOMIC GEOLOGY**

- 0 GEOLOGICAL MAP / SECTIONS
- 1 MINE PLAN / SECTIONS (includes UG plans, locality of mines & prospects e tc.)
- 2 METALLOGENIC (shows Au, Ag, Zn, Pb etc es, eg scheelite des )
- 3 FUELS (e.g. coal, oil shale)
- 4 INDUSTRIAL / CONSTRUCTION MATERIALS (e.g. gravels, sandstone, slate)
- 5 PETROLOGICAL, GEOCHEMICAL
- 6 PRODUCTION FIGURES
- 7 STRUCTURAL DIAGRAMS
- 8 ORE/MINERAL RESERVES
- 9 MISCELLANEOUS

**3 REGIONAL GEOLOGY**

- 0 REGIONAL GENERAL
- 1 STRUCTURAL
- 2 SECTIONS
- 3 COLUMNS
- 4 SAMPLE LOCALITIES
- 5 GEOCHEMICAL
- 9 MISCELLANEOUS

**4 GEOPHYSICS**

- 0 SEISMIC
- 1 GRAVITY
- 2 MAGNETICS
- 3 AEROMAGNETICS
- 4 RESISTIVITY
- 9 MISCELLANEOUS

**5 GEOCHEMICAL**

GEOCHEMICAL

**6 PALAEOLOGICAL**

PALAEOLOGICAL

7 PETROLOGICAL/MINERALOGICAL

- 0 MINERAL DATA / COMPOSITIONS
- 1 TRIANGULAR DIAGRAMS
- 2 ISOTOPE DATA
- 3 PETROLOGY DIAGRAMS
- 9 MISCELLANEOUS

8 MISCELLANEOUS

- 0 ENGINEERING
- 1 DANGEROUS GOODS
- 2 CHEMICAL/METALLURGICAL
- 3 ADMINISTRATION
- 4 TOPOGRAPHICAL
- 9 MISCELLANEOUS

**APPENDIX 4**

**Standard abbreviations for draftsmen in CARP**

<i>Initials</i>	<i>Draftsman</i>
AJH	A.J. HOLLICK (1980- )
BEC	B.E. COOK (Mrs B.E. BIRD) (1973-1979)
CAM	C.A. MEECH (1974- )
DMH	D.M. HARDY (1969- )
GJD	G.J. DICKENS (1981- )
HMM	H.M. MACKINNON (1967-1980)
JHC	J.H. CLARKE (1979- )
JSL	J.S. LADANIWSKYJ (1975- )
KTK	K.T. KENDALL (1946-1968)
PJD	P.J. DONNELLY (1971-1974)
PBN	P.B. NANKIVELL (1962-1970,1972- )
TRB	T.R. BELLIS (1967-1979)
MRH	M.R. HILL (1976 -3mths)
VL	V. LANZLINGER (1986 - 12mths)
RMT	R.M. TURVEY (1986/87 temp position)
TGDS	Tasmanian Geological Drafting Service (contractor, Sulphur Creek)
MMH	M.M. HORAN (1987 - temp position)
JSP	J.S. PEPPER
TJW	T.J. WALSH
GB	G. BENN (1971 - Surveyor)

APPENDIX 5

Author list as at 23 September 1988

AUTHORS ORDERED BY ABBREVIATION

<i>Abbreviation</i>	<i>Author</i>
ABG	A.B. GULLINE
AJN	A.J. NOLDART
AM	A. MONTGOMERY
AMR	A.M. REID (see also PBN2)
AMR2	A.M. REID & W.H. TWELVETREES (see also AMR,WHT)
AMR3	A.M. REID & Q.J. HENDERSON
ASA	A.S. ATKINS
AT	A. TELFER
ATM	A.T. MOON
ATM2	A.T. MOON & D.J.SLOANE (see also ATM,DJS)
AVB	A.V. BROWN
AWM	A.W. McNEILL (Mt Read Project - Temporary geologist)
BC	B. COUSINS
BDW	B.D. WELDON
BEC1	B.E. COX
BM	B. MARSHALL
BMR	BUREAU MINERAL RESOURCES (B.M.R.)
BT	B. TAYLOR
CAB	C.A. BACON
CAB1	C.A. BACON & C.R. CALVER (see also CRC)
CBW	C.B. WATCHORN
CFH	C.F. HEATHCOTE
CG	C. GOULD
CGS	C.G. SARA
CJI	C.J. INGLIS
CJK	C.J. KNIGHTS
CJK2	C.J. KNIGHTS & W.L. MATTHEWS (see also WLM)
CLH	C. LOFTUS-HILLS
CLH2	C. LOFTUS-HILLS & A.M. REID (see also LH,AMR)
CLK	C.L. KNIGHT
CRC	C.R. CALVER
CRC	C.R. CALVER
CS	C. SHARPLES
CWG2	C.W. GUDGEON & C.F. HEATHCOTE (see also CFH)
CWJ	C.W. JAMES
DAP	D.A. POLYA
DCG	D.C. GREEN
DEL	D.E. LEAMAN
DEL2	D.E. LEAMAN & P.A. SYMONDS (see also DEL,PAS)
DEL3	D.E. LEAMAN & W.R. MOORE (see also DEL,WRM)
DEL4	D.E. LEAMAN & P.W. BAILLIE (see also DEL,PWB)
DEL5	D.E. LEAMAN & P.A SYMONDS & S.F. COX & N.J. TURNER &
DEL5	D.I. GROVES (see also DEL,PAS,SFC,NJT,DIG)
DEL6	D.E. LEAMAN & R.G. RICHARDSON (see also DEL,RGR)
DF	D. FRASER
DIG	D.I. GROVES
DIG2	D.I. GROVES & R.G. TAYLOR
DJ	D. JONES
DJJ	D.J. JENNINGS

DJS D.J. SLOANE  
DMD D.M. DUNCAN  
DO2 D. ORR & G.R. GREEN (see also GRG)  
DP D. PATTERSON  
DP2 D. PATTERSON & G.R. GREEN  
DRD D.R. DICKINSON  
DVS D.V. SHELVERTON  
EJS E.J. SMITH  
ELM E.L. MARTIN  
EW E. WILLIAMS  
FAR F.A. ROLBURG  
FB F. BLAKE  
FD F. DEBENHAM  
FFB F.F. BRADFORD  
FKP F.K. PITT  
FL F. LECLERCQ (non departmental)  
FLS F.L. SUTHERLAND  
FMK F.M. KRAUSE  
GAM G.A. MOORE  
GAW G.A. WALLER  
GB G. BENN  
GB2 G BENN & D.J. JENNINGS (see also GB,DJJ)  
GB2 G . BENN & B. COX (see also BC)  
GJ G. JOBSON  
GLC G.L. CLARK  
GM G. McARTHUR (Macintosh Mining)  
GRG G.R. GREEN  
GRG2 G.R. GREEN & S.M.FORSYTH (see also SMF)  
GRG3 G.R GREEN, D.J. SLOANE & S.F.COX (see also GRG,DJS,SFC)  
GT G. THUREAU  
GTE G.T. EDDIE  
GU G. URQUHART  
HB H. BELTZ  
HBS H.B. SCHELL  
HC H. CONDER  
HEC HYDRO-ELECTRIC COMMISSION (H.E.C.)  
HGK H.G. KEID  
HGK2 H.G. KEID & A.M. REID (see also HGK,AMR)  
HGK3 H.G. KEID & A.M.REID & P.B.NYE (see also HGK,AMR,PBN)  
HHM H.H. MILLER  
HK H. KAYSER  
HKW H.K. WELLINGTON  
HM H. MURCHIE  
IBJ I.B. JENNINGS  
JBB J.B. BRAITHWAITE  
JBS J.B. SCOTT  
JCF J.C. FERGUSON  
JDC J.D. COCKER  
JGO J.G. OAKES  
JLE J.L. EVERARD  
JLE2 J.L. EVERARD & D.C. GREEN (see also JLE,DCG)  
JIM J.L. MACKAY  
JS J. SPRENT  
JTS J.T. STUBS  
JWH J.W. HUDSPETH  
JWH1 J.W. HUDSPETH & R.C. DONALDSON (see also RCD)  
JWM J.W. MORLEY  
KDC K.D. CORBETT

KDC2 K.D. CORBETT & M.R. BANKS  
KGP K.G. PALMER  
KJA K.J. AUSTIN  
KLB K.L. BURNS  
KLB2 K.L. BURNS, B.MARSHALL, R.D. GEE (see also KLB, BM, RDG)  
KOR K.O. REID  
LG L. GILT  
LG2 L. GILT & C.J. INGLIS (see also LG, CJI)  
LKW L.K. WARD  
LKW2 L.K. WARD & W.H.TWELVETREES (see also LKW, WHT)  
LLW L.L. WATERHOUSE  
LR L. RICHARDSON  
MAU MAUNSELL LTD.  
MD M. DIX  
MJC M.J. CLARK  
MJC2 M.J. CLARK & N. FARMER (see also NF)  
MJD2 M.J. DANIELSON & S.G.BROWN  
MJJ M.J. LONGMAN  
MPM M.P. MCLENAGHAN  
MPM2 M.P. MCLENAGHAN & P.R. WILLIAMS (see also MPM, PRW)  
MRB M.R. BANKS  
MS2 M. SOLOMON & K.O. REID (see also KOR)  
NF N. FARMER  
NJT N.J. TURNER  
PA P. ALLAN  
PAS P.A. SYMONDS  
PBN P.B. NYE  
PBN2 P.B. NYE & A.M. REID  
PCS P.C. STEVENSON  
PCS2 P.C. STEVENSON & P.L.F. COLLINS (see also PCS, PLC)  
PCS2 P.C. STEVENSON & W.R. MOORE (see also PCS, WRM)  
PGL P.G. LENNOX  
PJJ P.J. LEGGE  
PK P. KOMYSHAN (Mt Read Project - 1986)  
PLC P.L. COLLINS (P.L.F. COLLINS)  
PLC2 P.L. COLLINS, D.E. LEAMAN, & W.R. MOORE (see also DEL, WRM, PLC)  
PLC3 P.L. COLLINS & P.R. WILLIAMS (see also PRW, PLC)  
PRW P.R. WILLIAMS  
PWB P.W. BAILLIE  
PWB2 P.W. BAILLIE & G BENN (see also PWB, GB)  
QJH Q.J. HENDERSON  
RAT R.A. THIRKELL  
RCD R.C. DONALDSON  
RCD2 R.C. DONALDSON & C.J.KNIGHTS  
RCD3 R.C. DONALDSON & A.T.MOON (see also RCD, ATM)  
RCD4 R.C. DONALDSON & W.R. MOORE (see also RCD, WRM)  
RCD5 R.C. DONALDSON & V.M. THREADER (see also VMT)  
RDB R.D. BEATTIE  
RDG R.G. GEE  
RGR R.G. RICHARDSON  
RHC R.H. CASTLEDEN  
RHC2 R.H. CASTLEDON & C.R. CALVER (see also CRC)  
RHM R.H. MUIR  
RSB1 R.S. BANNERMAN  
RSB R.S. BOTTRILL  
SFC S.F. COX  
SMF S.M. FORSYTH

SW S. WHEELLEN  
 TBM T.B. MOORE  
 TGS T.G. SUMMONS  
 TGS2 T.G. SUMMONS & K.O. REID (see also TGS,KOR)  
 TGS3 T.G. SUMMONS & P.L.F. COLLINS (see also TGS,PLC)  
 VMT V.M. THREADER  
 VMT2 V.M. THREADER & D.E. LEAMAN (see also VMT,DEL)  
 VMT3 V.M. THREADER & C.A. BACON (see also VMT,CAB)  
 WAT2 W.A. TURNER & C.F. HEATHCOTE (see also CFH)  
 WCC W.C. CROMER  
 WCC2 W.C. CROMER & D.J. SLOANE (see also WCC,DJS)  
 WCH W.C. HODGSON  
 WEB W.E. BAKER  
 WEH W.E. HITCHCOCK  
 WG W. GRUN (Inspectorate)  
 WHC W.H. CUNDY  
 WHT W.H. TWELVETREES  
 WHW W.H. WILLIAMS  
 WLM W.L. MATTHEWS  
 WLM2 W.L. MATTHEWS & W.C. CROMER (see also WLM & WCC)  
 WRM W.R. MOORE  
 WRM2 W.R. MOORE & J.L. MACKEY (see also WRM,JLM)  
 WRT W.R. TINDAL  
 WW W. WILSON

AUTHORS ORDERED BY SURNAME

Abbreviation	Author
KJA	K.J. AUSTIN
PA	P. ALLAN
ASA	A.S. ATKINS
CAB	C.A. BACON
CAB1	C.A. BACON & C.R. CALVER (see also CRC)
JBB	J.B. BRAITHWAITE
RDB	R.D. BEATTIE
WEB	W.E. BAKER
FB	F. BLAKE
FFB	F.F. BRADFORD
GB	G. BENN
GB2	G BENN & D.J. JENNINGS (see also GB,DJJ)
GB2	G . BENN & B. COX (see also BC)
HB	H. BELTZ
KLB2	K.L. BURNS, B.MARSHALL, R.D. GEE (see also KLB,BM,RDG)
KLB	K.L. BURNS
MRB	M.R. BANKS
RSB1	R.S. BANNERMAN
RSB	R.S. BOTTRILL
AVB	A.V. BROWN
PWB	P.W. BAILLIE
PWB2	P.W. BAILLIE & G BENN (see also PWB,GB)
BC	B. COUSINS
WCC	W.C. CROMER
WCC2	W.C. CROMER & D.J. SLOANE (see also WCC,DJS)
JDC	J.D. COCKER
KDC	K.D. CORBETT
KDC2	K.D. CORBETT & M.R. BANKS
BEC1	B.E. COX
HEC	HYDRO-ELECTRIC COMMISSION (H.E.C.)
SFC	S.F. COX
HC	H. CONDER
RHC	R.H. CASTLEDEN
RHC2	R.H. CASTLEDEN & C.R. CALVER (see also CRC)
WHC	W.H. CUNDY
MJC	M.J. CLARK
MJC2	M.J. CLARK & N. FARMER (see also NF)
GLC	G.L. CLARK
PLC	P.L. COLLINS (P.L.F. COLLINS)
PLC2	P.L. COLLINS, D.E. LEAMAN, & W.R. MOORE (see also DEL,WRM,PLC)
PLC3	P.L. COLLINS & P.R. WILLIAMS (see also PRW,PLC)
CRC	C.R. CALVER
CRC	C.R. CALVER
RCD	R.C. DONALDSON
RCD2	R.C. DONALDSON & C.J.KNIGHTS
RCD3	R.C. DONALDSON & A.T.MOON (see also RCD,ATM)
RCD4	R.C. DONALDSON & W.R. MOORE (see also RCD,WRM)
RCD5	R.C. DONALDSON & V.M. THREADER (see also VMT)
FD	F. DEBENHAM
MJD2	M.J. DANIELSON & S.G.BROWN
MD	M. DIX
DMD	D.M. DUNCAN
DRD	D.R. DICKINSON

JLE2 J.L. EVERARD & D.C. GREEN (see also JLE,DCG)  
 JLE J.L. EVERARD  
 GTE G.T. EDDIE  
 JCF J.C. FERGUSON  
 DF D. FRASER  
 SMF S.M. FORSYTH  
 NF N. FARMER  
 ABG A.B. GULLINE  
 CG C. GOULD  
 DCG D.C. GREEN  
 RDG R.G. GEE  
 DIG D.I. GROVES  
 DIG2 D.I. GROVES & R.G. TAYLOR  
 LG2 L. GILT & C.J. INGLIS (see also LG,CJI)  
 LG L. GILT  
 GRG3 G.R. GREEN, D.J. SLOANE & S.F. COX (see also GRG,DJS,SFC)  
 GRG G.R. GREEN  
 GRG2 G.R. GREEN & S.M. FORSYTH (see also SMF)  
 WG W. GRUN (Inspectorate)  
 CWG2 C.W. GUDGEON & C.F. HEATHCOTE (see also CFH)  
 WCH W.C. HODGSON  
 WEH W.E. HITCHCOCK  
 CFH C.F. HEATHCOTE  
 QJH Q.J. HENDERSON  
 CLH2 C. LOFTUS-HILLS & A.M. REID (see also LH,AMR)  
 CLH C. LOFTUS-HILLS  
 JWH J.W. HUDSPETH  
 JWH1 J.W. HUDSPETH & R.C. DONALDSON (see also RCD)  
 CJI C.J. INGLIS  
 IBJ I.B. JENNINGS  
 DJ D. JONES  
 GJ G. JOBSON  
 DJJ D.J. JENNINGS  
 CWJ C.W. JAMES  
 HGK H.G. KEID  
 HGK2 H.G. KEID & A.M. REID (see also HGK,AMR)  
 HGK3 H.G. KEID & A.M. REID & P.B. NYE (see also HGK,AMR,PBN)  
 HK H. KAYSER  
 CJK C.J. KNIGHTS  
 CJK2 C.J. KNIGHTS & W.L. MATTHEWS (see also WLM)  
 CLK C.L. KNIGHT  
 FMK F.M. KRAUSE  
 PK P. KOMYSHAN (Mt Read Project - 1986)  
 DEL D.E. LEAMAN  
 DEL5 D.E. LEAMAN & P.A. SYMONDS & S.F. COX & N.J. TURNER & D.I. GROVES  
 DEL5 (see also DEL,PAS,SFC,NJT,DIG)  
 DEL2 D.E. LEAMAN & P.A. SYMONDS (see also DEL,PAS)  
 DEL3 D.E. LEAMAN & W.R. MOORE (see also DEL,WRM)  
 DEL4 D.E. LEAMAN & P.W. BAILLIE (see also DEL,PWB)  
 DEL6 D.E. LEAMAN & R.G. RICHARDSON (see also DEL,RGR)  
 FL F. LECLERCQ (non departmental)  
 PGL P.G. LENNOX  
 MJL M.J. LONGMAN  
 PJL P.J. LEGGE  
 AM A. MONTGOMERY  
 GAM G.A. MOORE  
 BM B. MARSHALL  
 TBM T.B. MOORE

GM G. McARTHUR (Macintosh Mining)  
 HM H. MURCHIE  
 HHM H.H. MILLER  
 RHM R.H. MUIR  
 ELM E.L. MARTIN  
 JLM J.L. MACKEY  
 WLM W.L. MATTHEWS  
 WLM2 W.L. MATTHEWS & W.C. CROMER (see also WLM & WCC)  
 MPM M.P. MCLENAGHAN  
 MPM2 M.P. MCLENAGHAN & P.R. WILLIAMS (see also MPM,PRW)  
 WRM W.R. MOORE  
 WRM2 W.R. MOORE & J.L. MACKEY (see also WRM,JLM)  
 ATM A.T. MOON  
 ATM2 A.T. MOON & D.J.SLOANE (see also ATM,DJS)  
 AWM A.W. McNEILL (Mt Read Project - Temporary geologist)  
 JWM J.W. MORLEY  
 PBN P.B. NYE  
 PBN2 P.B. NYE & A.M. REID  
 AJN A.J. NOLDART  
 DO2 D. ORR & G.R. GREEN (see also GRG)  
 JGO J.G. OAKES  
 DAP D.A. POLYA  
 DP D. PATTERSON  
 DP2 D. PATTERSON & G.R. GREEN  
 KGP K.G. PALMER  
 FKP F.K. PITT  
 FAR F.A. ROLBURG  
 RGR R.G. RICHARDSON  
 LR L. RICHARDSON  
 AMR A.M. REID (see also PBN2)  
 AMR2 A.M. REID & W.H. TWELVETREES (see also AMR,WHT)  
 AMR3 A.M. REID & Q.J. HENDERSON  
 BMR BUREAU MINERAL RESOURCES (B.M.R.)  
 KOR K.O. REID  
 PAS P.A. SYMONDS  
 HBS H.B. SCHELL  
 JBS J.B. SCOTT  
 CS C. SHARPLES  
 PCS P.C. STEVENSON  
 PCS2 P.C. STEVENSON & P.L.F. COLLINS (see also PCS,PLC)  
 PCS2 P.C. STEVENSON & W.R. MOORE (see also PCS,WRM)  
 CGS C.G. SARA  
 TGS T.G. SUMMONS  
 TGS2 T.G. SUMMONS & K.O. REID (see also TGS,KOR)  
 TGS3 T.G. SUMMONS & P.L.F. COLLINS (see also TGS,PLC)  
 JS J. SPRENT  
 DJS D.J. SLOANE  
 EJS E.J. SMITH  
 FLS F.L. SUTHERLAND  
 MS2 M. SOLOMON & K.O. REID (see also KOR)  
 JTS J.T. STUBS  
 DVS D.V. SHELVERTON  
 AT A. TELFER  
 RAT R.A. THIRKELL  
 WAT2 W.A. TURNER & C.F. HEATHCOTE (see also CFH)  
 BT B. TAYLOR  
 GT G. THUREAU  
 WHT W.H. TWELVETREES

NJT	N.J. TURNER
VMT	V.M. THREADER
VMT2	V.M. THREADER & D.E. LEAMAN (see also VMT,DEL)
VMT3	V.M. THREADER & C.A. BACON (see also VMT,CAB)
WRT	W.R. TINDAL
MAU	MAUNSELL LTD.
GU	G. URQUHART
GAW	G.A. WALLER
CBW	C.B. WATCHORN
BDW	B.D. WELDON
EW	E. WILLIAMS
WHW	W.H. WILLIAMS
HKW	H.K. WELLINGTON
LKW	L.K. WARD
LKW2	L.K. WARD & W.H.TWELVETREES (see also LKW,WHT)
LLW	L.L. WATERHOUSE
PRW	P.R. WILLIAMS
SW	S. WHEELEN
WW	W. WILSON

APPENDIX 6

Geological atlas quadrangles

