

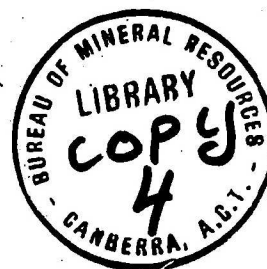
DEPARTMENT OF
MINERALS AND ENERGY



BUREAU OF MINERAL RESOURCES,
GEOLOGY AND GEOPHYSICS

002417

RECORD 1975/28



GEORGETOWN 1:100 000 GEOLOGICAL SHEET

PRELIMINARY COMPILATION AND DATA SHEETS

by

J.H.C.BAIN, B.S.OVERSBY and I.W.WITHNALL

BMR
Record
1975/28
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GEORGETOWN 1:100 000 GEOLOGICAL SHEET: Preliminary compilation
and data sheets

The following geological maps reproduced here at approximately 1:100 000 scale are preliminary unchecked field compilations prepared at 1:25 000 scale by the BMR-GSQ Georgetown Geological Party during the June-September 1974 field season.

Petrographic and other laboratory studies are in progress, and may result in changes to these maps; such changes will be incorporated in the preliminary edition 1:100 000 scale map scheduled for printing in late 1975.

Notification of errors or omissions and the provision of additional information for incorporation in the preliminary map would be appreciated.

Copies of these maps and observation point overlays at 1:25 000 scale can be obtained from the Copy Service, Australian Government Printer (Production), P.O. Box 84, Canberra, 2600.

GEORGETOWN 1:100 000 GEOLOGICAL MAP

REFERENCE TO ACCOMPANY PHOTOSCALE COMPILATION SHEETS (1:26 000 APPROX)

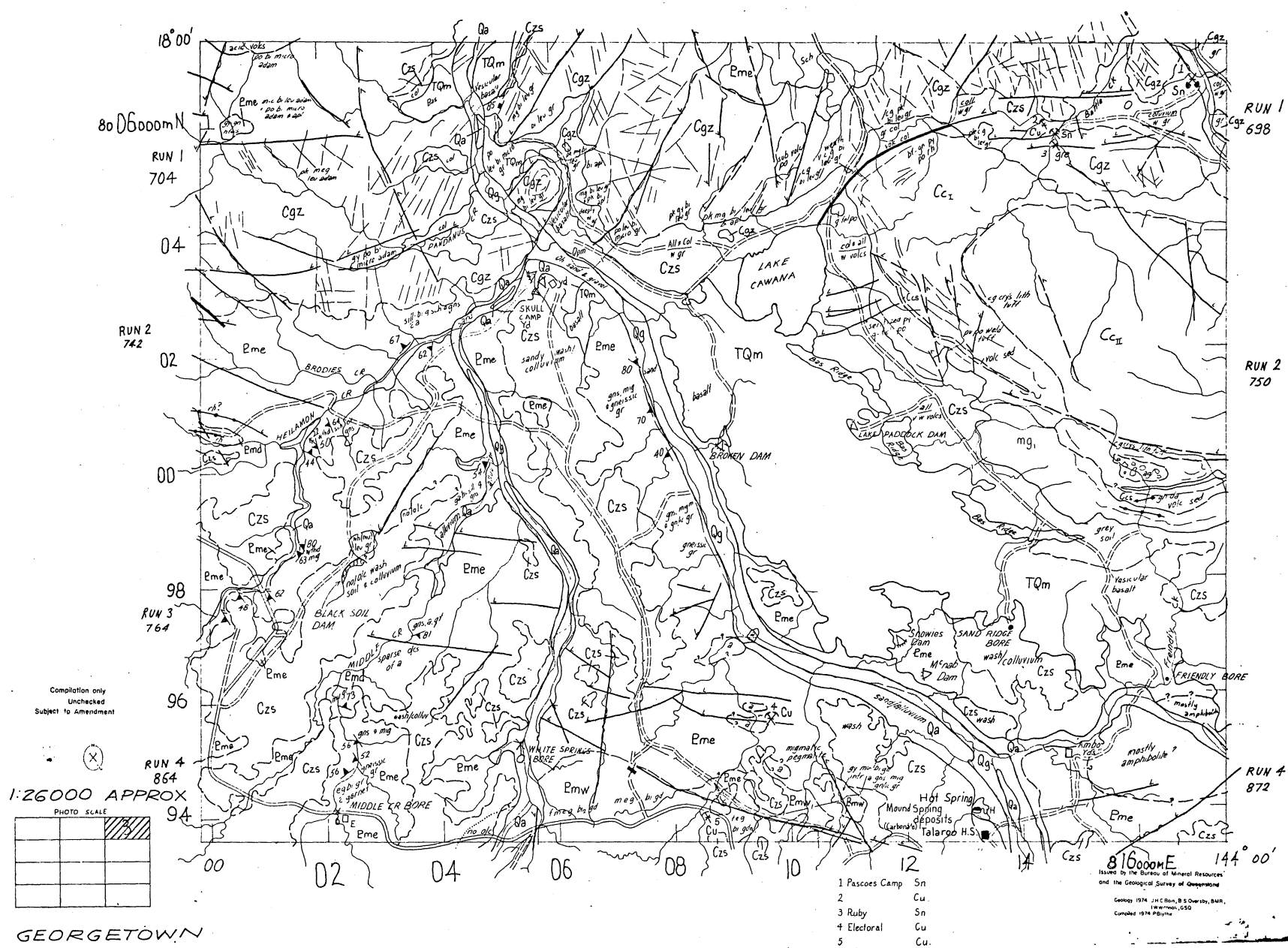
CENOZOIC	QUATERNARY		[Og]	River gravel & sand	
			[Qa]	Aluvium (includes some Og)	
			[Czs]	Colluvium	
	TERTIARY - QUATERNARY	M'Bride Basalt	[TQm]	Vesicular ovine basalt	
MESOZOIC		Gilbert River Formation	[M]	Buff quartzose conglomerate, sandstone & siltstone	
PALAEOZOIC	PERMIAN	"Dambo Granodiorite"	[Pd]	Dark grey hornblende biotite granodiorite; grey-pink biotite leucadamellite; pink aplite	
			[Cn _{viii}]	Grey-purple medium coarse porphyritic (quartz-feldspar) rhyolite	[Cn ₆]
			[Cn _{vii}]	Grey-purple fine porphyritic (quartz-feldspar) rhyolite; buff-red m. porph. (feldspar) rhyolite	[Cn ₅]
			[Cn _{vi}]	Buff-purple coarse porphyritic (quartz-feldspar) rhyolite	[Cn ₄]
			[Cn _v]	Buff purple f.m. porphyritic (quartz-feldspar) rhyolite commonly flow banded, crystal lithic tuff, agglomerate	[Cn ₃]
		Newcastle Range Volcanics	[Cn _{iv}]	Dark green porphyritic & aphanitic andesite	[Cn ₂]
			[Cn _{iii}]	Grey f.m. porphyritic (feldspar) rhyolite, commonly flow-banded, crystal lithic tuff, agglomerate	[Cn ₁]
			[Cn _{ii}]	Buff, purple, grey medium coarse porphyritic (quartz-feldspar) rhyolite	
			[Cn _i]	Not present on Georgetown sheet	
			[ad]	Porphyritic, amygdaloidal & aphanitic andesites in unassigned units	
			[Cns]	Lithofeldspathic & volcaniclastic siltstone, sandstone, conglomerate (I-IV in main range, I + in eastern range)	
	CARBONIFEROUS	"Cumbana Volcanics"	[Cc _{ii}]	Grey-pink coarse crystal-lithic tuff	
			[Cc _i]	Grey-purple fine medium porphyritic (quartz-feldspar) rhyolite; agglomerate	
			[Ccs]	Volcaniclastic sandstone	
			[rh]	Buff-red fine-medium porphyritic & slightly porphyritic (quartz-feldspar) rhyolite, Locally flow-banded and brecciated.	
			[ad]	Dark green-grey porphyritic - aphanitic andesite & basalt (?)	
		Upper Palaeozoic hypabyssal rocks	[mg ₁]	Red coarse porphyritic (quartz-feldspar) microgranite	
			[mg ₂]	Buff coarse slightly porphyritic (quartz-feldspar) microgranite	
			[mg ₃]	Buff-red coarse porphyritic (feldspar) microgranite with groundmass chlorite	
			[mg ₄]	White-buff non porphyritic microgranite & granophyre	
		Elizabeth Creek Granite	[Cgz]	Medium even grained biotite leucadamellite, porphyritic biotite microgranite, pink aplite, gneiss	
		"Digger Creek Granite"	[Pmd]	Grey-pink, buff muscovite & biotite - muscovite leucogranite, aplite & pegmatite (± garnet & sillimanite)	
		"White Springs Granodiorite"	[Pmw ₁]	Grey, fine-medium even grained biotite granodiorite	
			[Pmw ₂]	Grey porphyroblastic biotite-muscovite leucadamellite	
		Forsayth Granite	[Pmf]	Grey, leucocratic to melanocratic coarsely porphyroblastic foliated biotite granite & adamellite	
			[Pmf ₁]	Grey porphyroblastic muscovite-biotite leucogranite	
				Various unassigned leucogranites	
		"Lighthouse Leucogranite"	[Pml]	White, foliated very leucocratic muscovite (biotite) granite	
		"Mistletoe Granite"	[Pmm]	Dark grey, foliated biotite schlieren granite	
		"Cobbold Metadolerite"	[Pmc]	Metadolerite, amphibolite	
PROTEROZOIC	MIDDLE PROTEROZOIC	Robertson river Metamorphics	[Pmr]	Schist, quartzite, gneiss, plus small unmapped bodies of Pmc & various granites	
			[Pmr ₁]	Quartzite, schist (plus small unmapped bodies of Pmc & various granites)	
		Einaleigh Metamorphics	[Pme]	Gneiss, migmatite, schist, quartzite (plus small unmapped bodies of a & various granites)	
			[a]	Amphibolite	

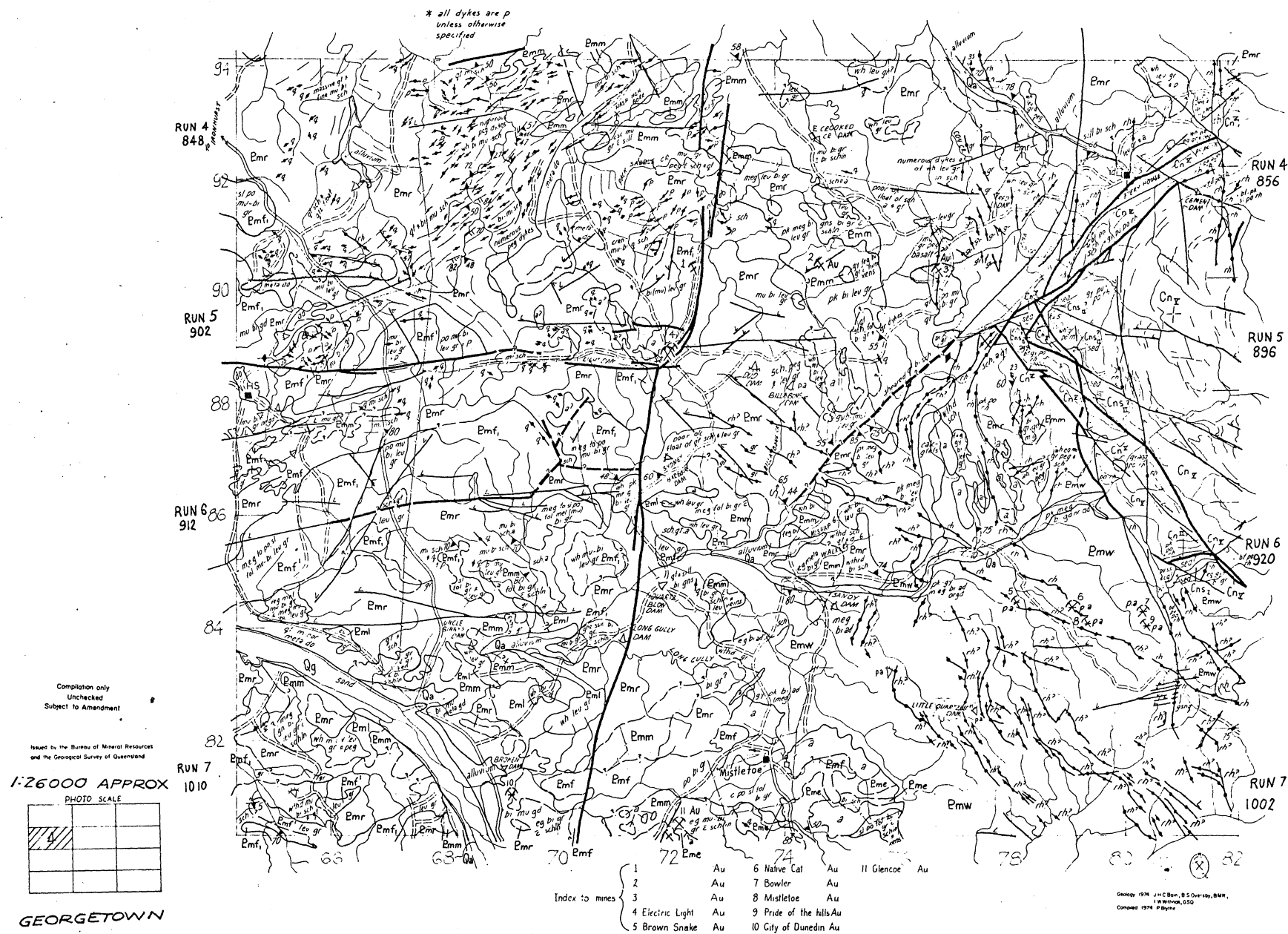
about 1500-1200 m.y.
"Georgetown Granite Complex"

1,700-1,500 m.y.
"Enderby Metamorphic Complex"

alt	altered
am	amphibolite
an, ad, and	andesite
adam	adamellite
agg	agglomerate
apl	aplite
aph	apophytic
hndd	banded
bi	biotite
bf	buff
brec	breccia
cg, cgl	conglomerate
c	with
col, colluv	colluvium
crys	crystal
calc	calcareous
do, dol	dolerite
dac, da	dacite
f e.g.	fine even grained
fel, fs	feldspar
f m e.g.	fine medium even grained
fol	foliated
gr	granite
gy	grey
gd	granodiorite
gn	green
gns	gneiss
ga	garnet
gnfic	gneissitic
gfels	granofels
gsn	gossanous, gossan
hfels	hornfels
gre	greisen
hbl, hb	hornblende
intr	intrusive
leuco, leu	leucocratic
lith	lithic, lithology
mu	muscovite
mi	mica
m	medium
mig	migmatite
no, nyc	no outcrop
m e.g.	medium even grained
mela	melanocratic
mup	muscovite pegmatite
num	numerous
po, por, porphs, phry, porphyritic, po:phry	
pu	purple
p	pegmatite
py	pyritic
pa	position approximate
pk	pink
peg	pegmatite
q	quartz
qt, qtz	quartzite
rh	rhyolite
rd	red
sl	slightly
sil, sill	sillimanite
ss	sandstone
sist	siltstone
schin	schieren
ser	sericite
sch	schist
volcs	volcanics
v e.g.	very coarse grained
vw	very weathered
w, whd, whed, weathered	
xens	xenoliths

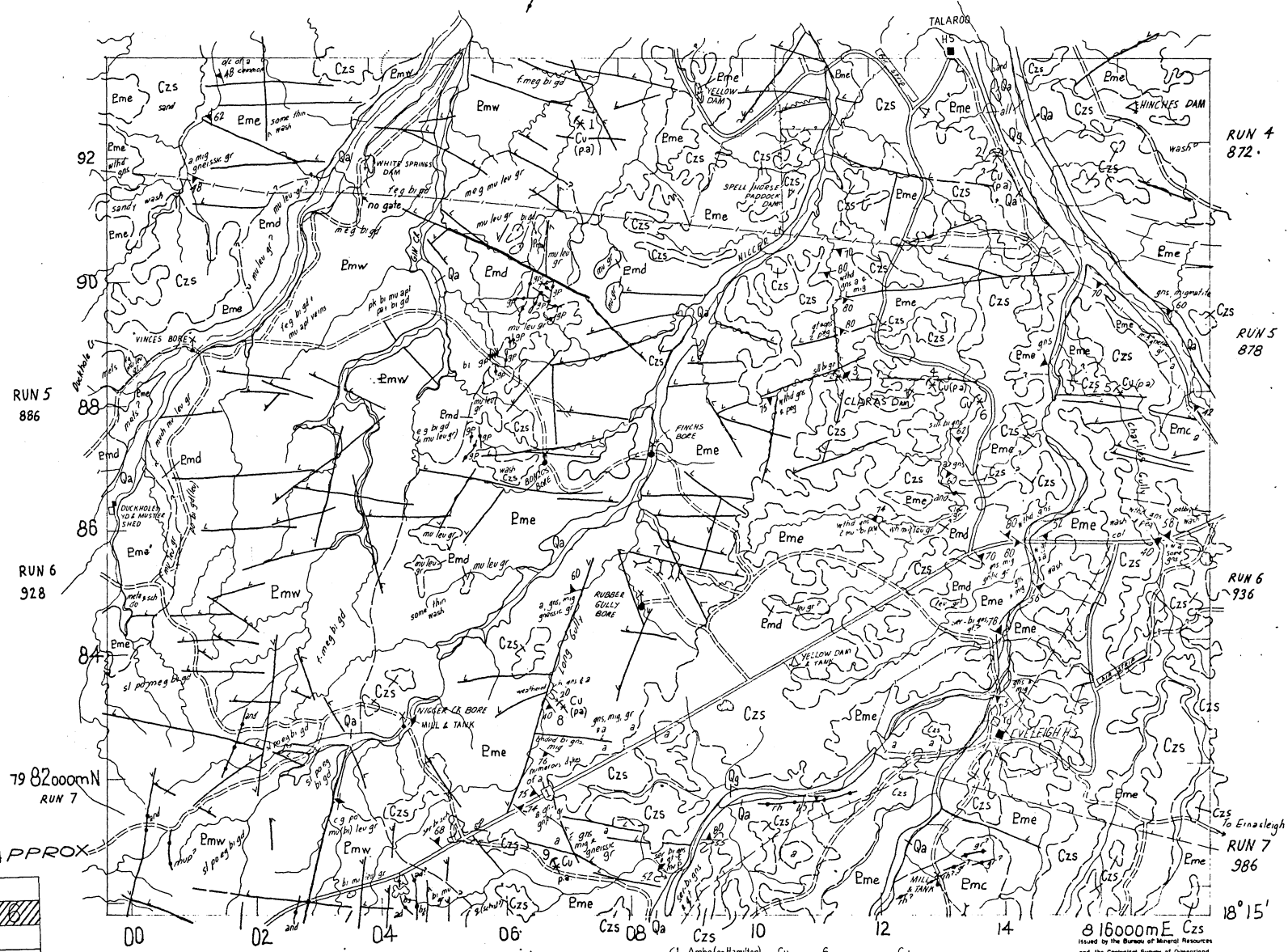
	Geological boundary
	Fault showing relative horizontal movement
Where location of boundaries and faults is approximate, line is broken, where inferred, boundaries, folds and faults are queried, where concealed, faults are shown by short dashes	
	Plunge of drag-fold
	Shear zone
	Strike and dip of strata
	Prevailing strike and dip of strata
	Strike and dip of strata, dip not measured
	Dip < 15°
	Dip 15°-45°
	Dip > 45°
air photo interpretation	
	Horizontal
	Trend line
	Lineament
	Joint pattern
	Direction of plunge
	Strike and dip of joints
	Strike and dip of joints - dip not measured
	Vertical joints
	Horizontal joints
	Strike and dip of foliation
	Strike and dip of foliation - dip not measured
	Vertical foliation
	Horizontal foliation
	Strike and dip of second generation foliation
	Foliation with plunge of lineation (crenulation)
	Foliation with plunge of lineation (mineral elongation)
	Platy flow - inclined
	dyke or vein - q quartz, rh rhyolite, gr granite, da dacite, ad, an, and, andesite, bs basalt.
	Minor mineral occurrence
	Prospect minor, abd
	Mine, abd
	Alluvial workings, abd
	Battery or smelter, abd
	Costean
	Cu
	Au Gold
	Ch Chalcopyrite
	Cu Copper
	Fl Fluorite
	Mo Molybdenum
	Nb Niobium (columbium)
	Pb Lead
	Sn Tin
	U Uranium
	Zn Zinc





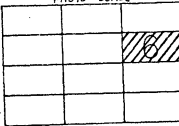


* g p mu lev gr/p



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PHOTO SCALE



GEORGETOWN

Index to Mines

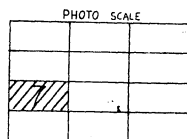
1	Ambo (or Hamilton)	Cu	6	Cu
2	Talaroo	Cu	7	Cu
3		Cu	8	Cu
4		Cu	9	Cu
5		Cu		

816000mE Czs
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Geology 1974 2 = C.B.M.R. B.S. Geology, B.M.R.
at Mineral, G.S.Q.
Compiled 1974 B.M.R.

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GEORGETOWN

Index of Mines

1 Diamond Jubilee	Au	11 Overland Telegraph	Au	21 Lady Marie ?	Au	31 Black Blow	Au	41 Lingers Die	Au	51	Au
2 Victoria	Au	12 Suero Meliora ?	Au	22 Harp of Erin	Au	32 Big Wonder	Au	42	Au		
3 Colganerie	Au	13 City of Sydney ?	Au	23 Chance	Au	33	Au	43	Au		
4 Melbourne Exhibition	Au	14 North Star ?	Au	24 Gladstone	Au	34	Au	44	Au		
5 Ancient Briton	Au	15 Better Luck ?	Au	25 Owens	Au	35	Au	45	Au		
6	Au	16 Victoria ?	Au	26	Au	36	Au	46 Whod a thought?	Au		
7 Lord Byron	Au	17 Paxo ?	Au	27	Au	37	Au	47 Home Rule	Au		
8	Au	18	Au	28 Comstock (Big Ben)	Au	38	Au	48	Au		
9 Papa	Au	19	Au	29	Au	39	Au	49	Au		
10 St George	Au	20	Au	30	Au	40 Golden Bar	Au	50	Au		

Geology 1974 J.M.C. Brown & S. Overbury, BMR.
1:26000, GSD
Compiled 1974 P. Byrnie

7978000m

RUN 8
18

RUN 9
130

766000m

RUN 7
1010

RUN 7
1002

RUN 8
1026

RUN 9
122

RUN 10
138

GEORGETOWN

DUNROBIN

MAYDAY

SPRINGCREEK DAM

ROSEGLIN DAM

MT SULLIVAN DAM

GREEN HOLCOMB DAM

HEISS DAM

DAVEY DAM

PINCHERS DAM

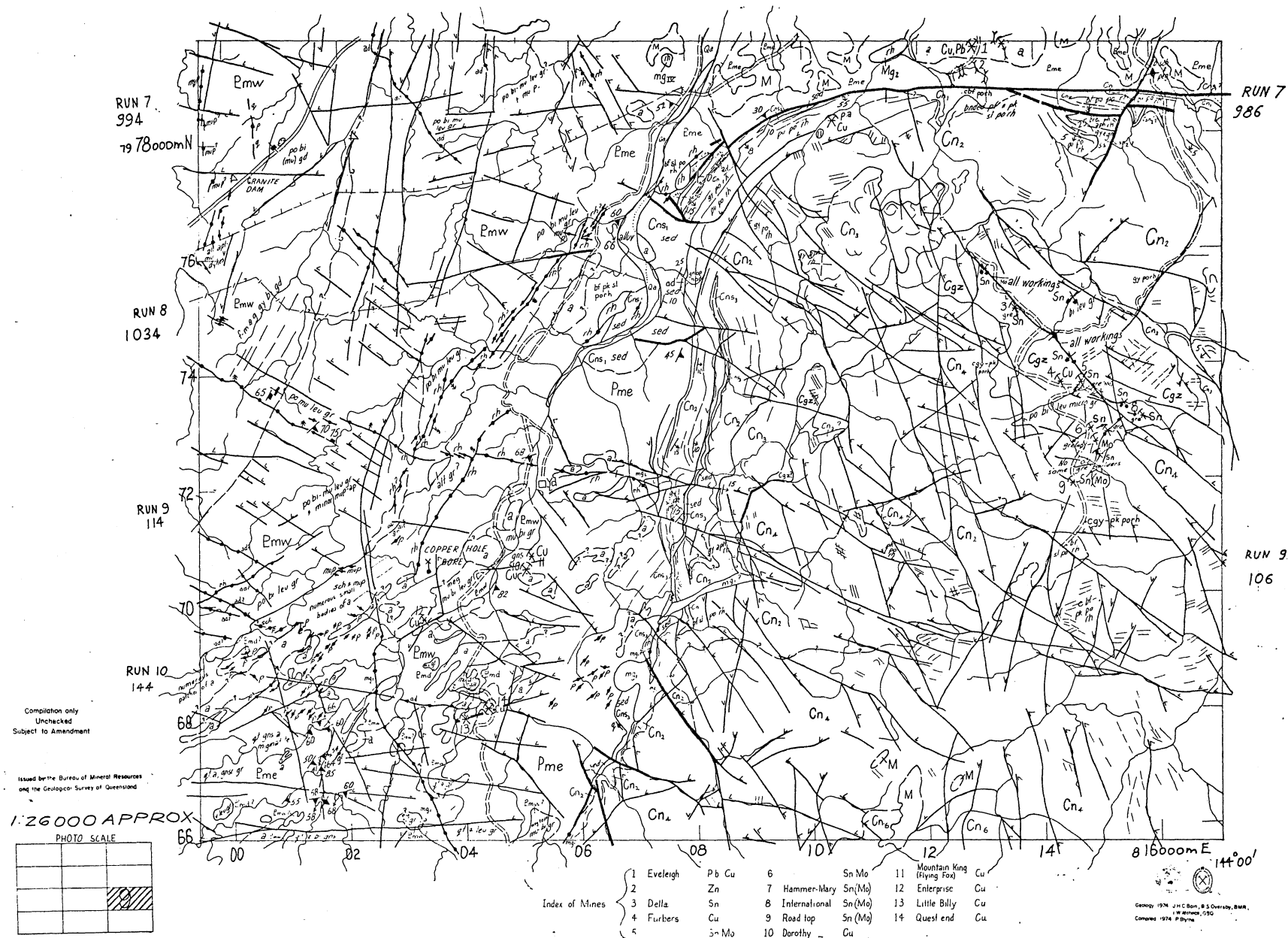
OVERLAND DAM

Donnyville

Reservoir

crushing plant (abd)

quarry



RUN 11
184

RUN 12
416

RUN 13
274

RUN 10
138

RUN 11
176

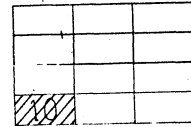
RUN 12
408

RUN 13
282

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GEORGETOWN

Index of
Mines

1	Au	11	Ironclad	Au	21	Au	31		Au	41	Drednaught	Au	51	Au		
2	Overland Route	Au	12	I	Au	22	Au	32	Cornel	Au	42	Nelson	Au	52	Au	
3		Au	13		Au	23	Au	33		Au	43	Lallah Rooka	Au	53	Au	
4	Kerry Lass	Au	14		Au	24	Au	34		Au	44		Au	54	Deceitful Susan	
5	Black Wall	Au	15	Marchioness	Au	25	Au	35		Au	45		Au	55	Merry Monarch	
6	Brandy Smash	Au	16	Poverly	Au	26	Au	36		Au	46		Au	56	Bulcher Bird	
7		Au	17		Au	27	Au	37		Au	47	Roundwater hole gully	Au	57		
8		Au	18		Au	28	North Star	Au	38		Au	48	Stockman pa	Au	58	
9		Au	19	Eclipse ?	Au	29		Au	39	Larrikan	Au	49	Dairymaid	Au	59	
10	Glasgow (City of)	Au	20	Black Diamond pa	Au	30		Au	40	Tivoli	Au	50		Au	60	

Geology 1974 J.H.C. Brown, B.S. O'Leary, B.M.P.
Compiled 1974 P. Bayne

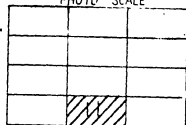


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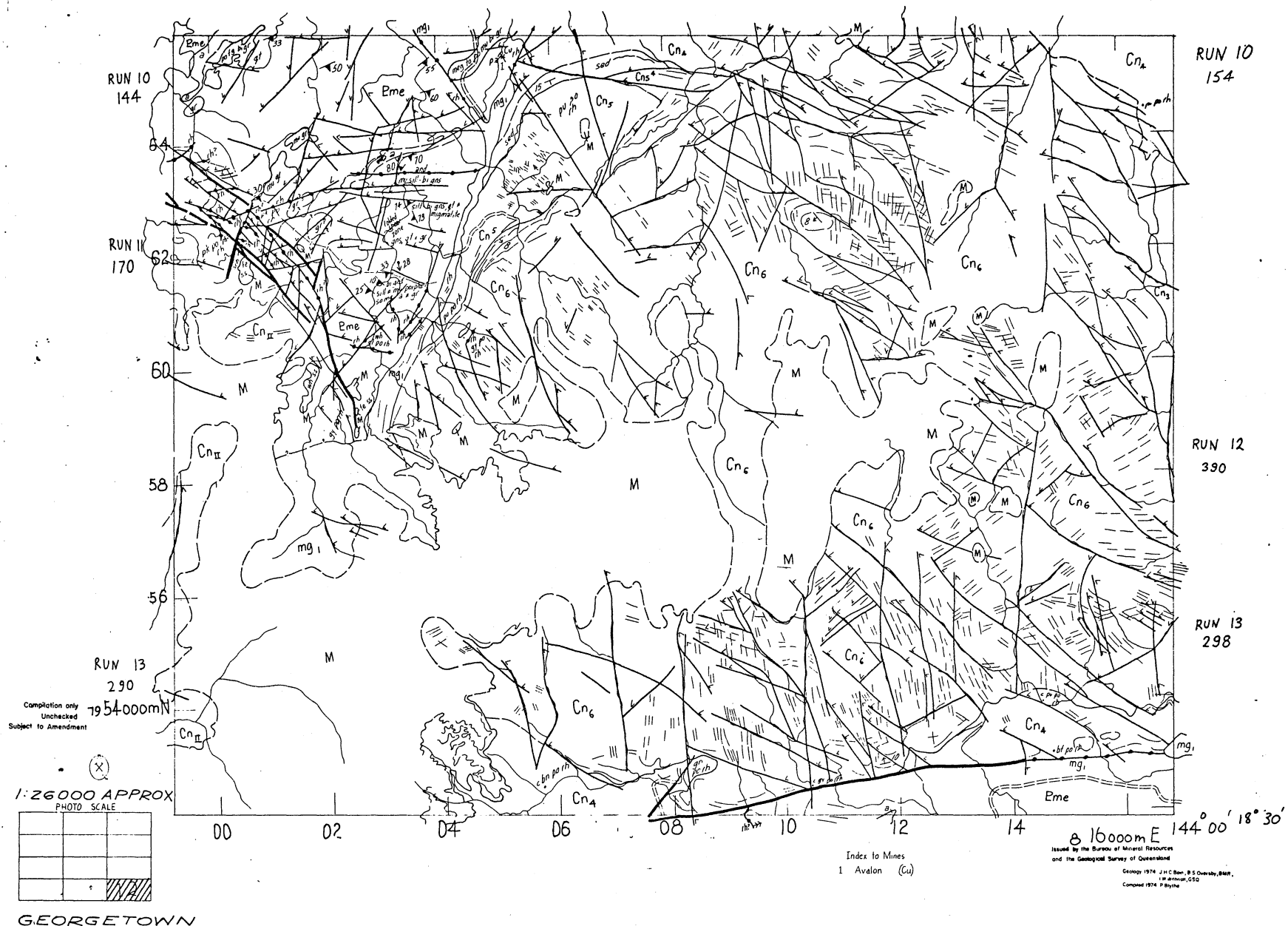
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PHOTO SCALE



GEORGETOWN

Geology 1974 J.H.L. Barr, B.S. Quaresima, B.N.M.
1:26000, 1974
Compiled 1974 P. Byrne



143° 30' 766000mE 68 70 72 74 76 78 80 82
 18° 00'

8006000mN

04

02

YF

00

YE

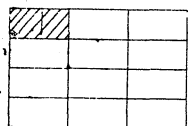
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OBSERVATION POINT
 OVERLAY

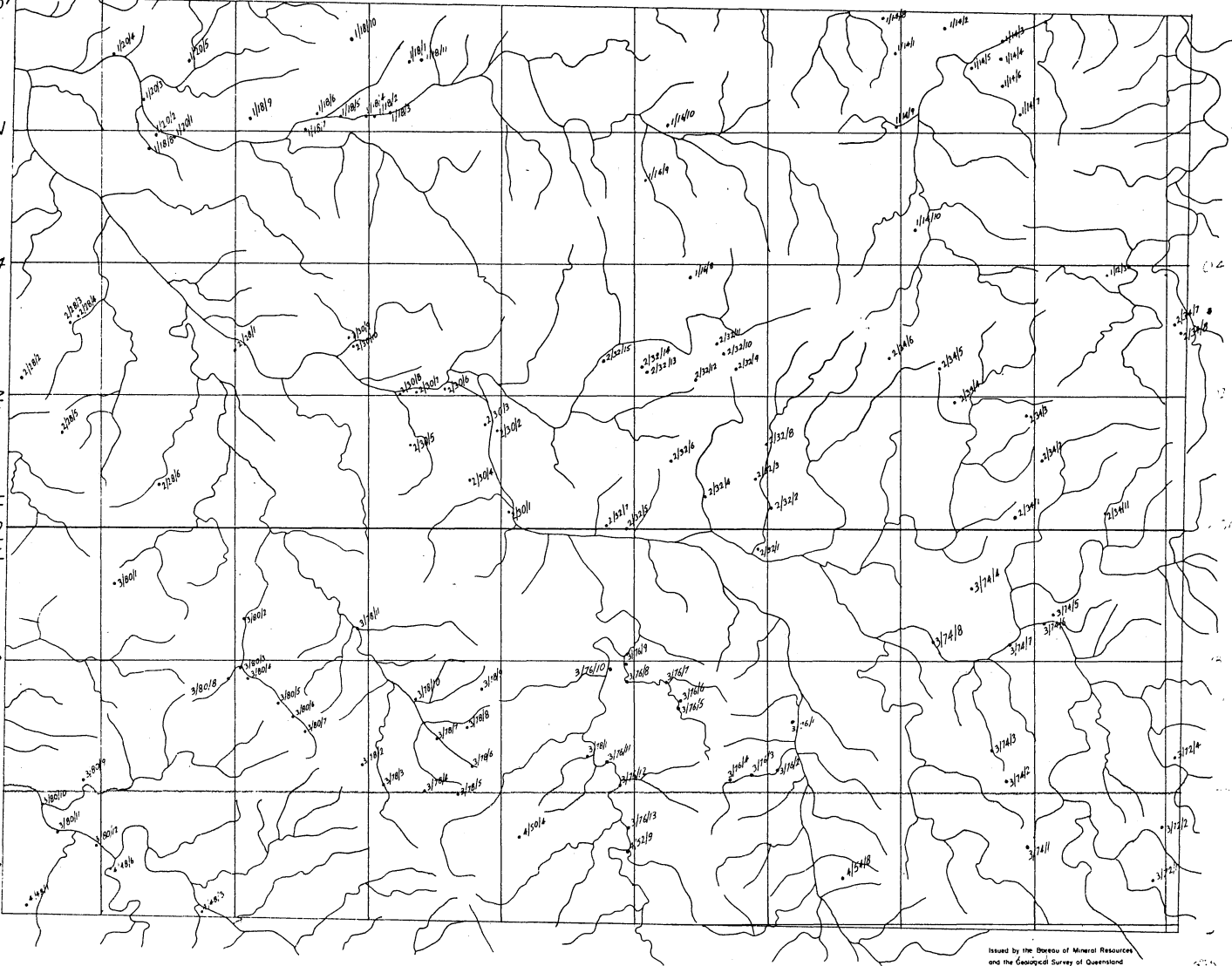
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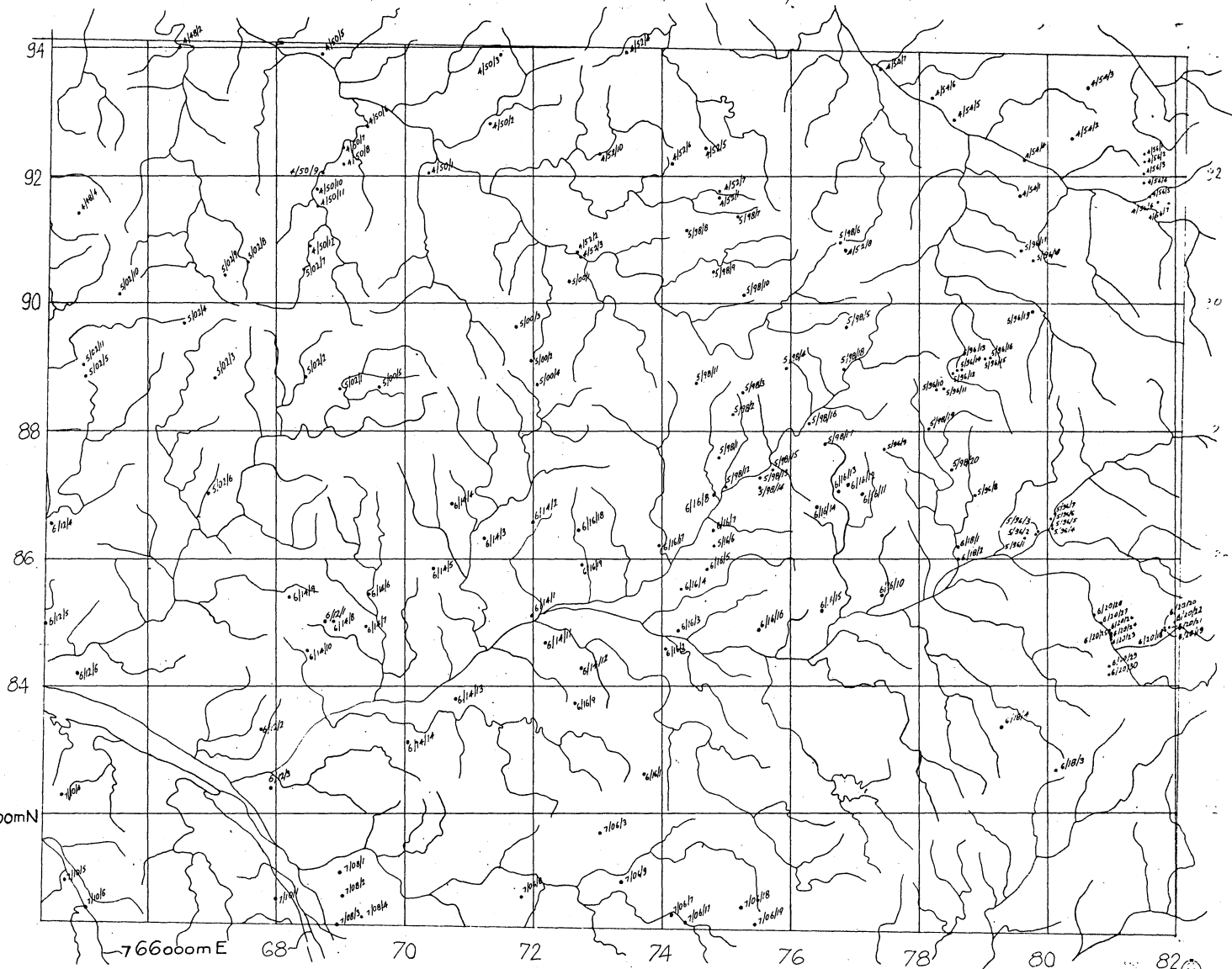
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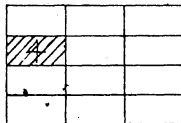


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7982000mN

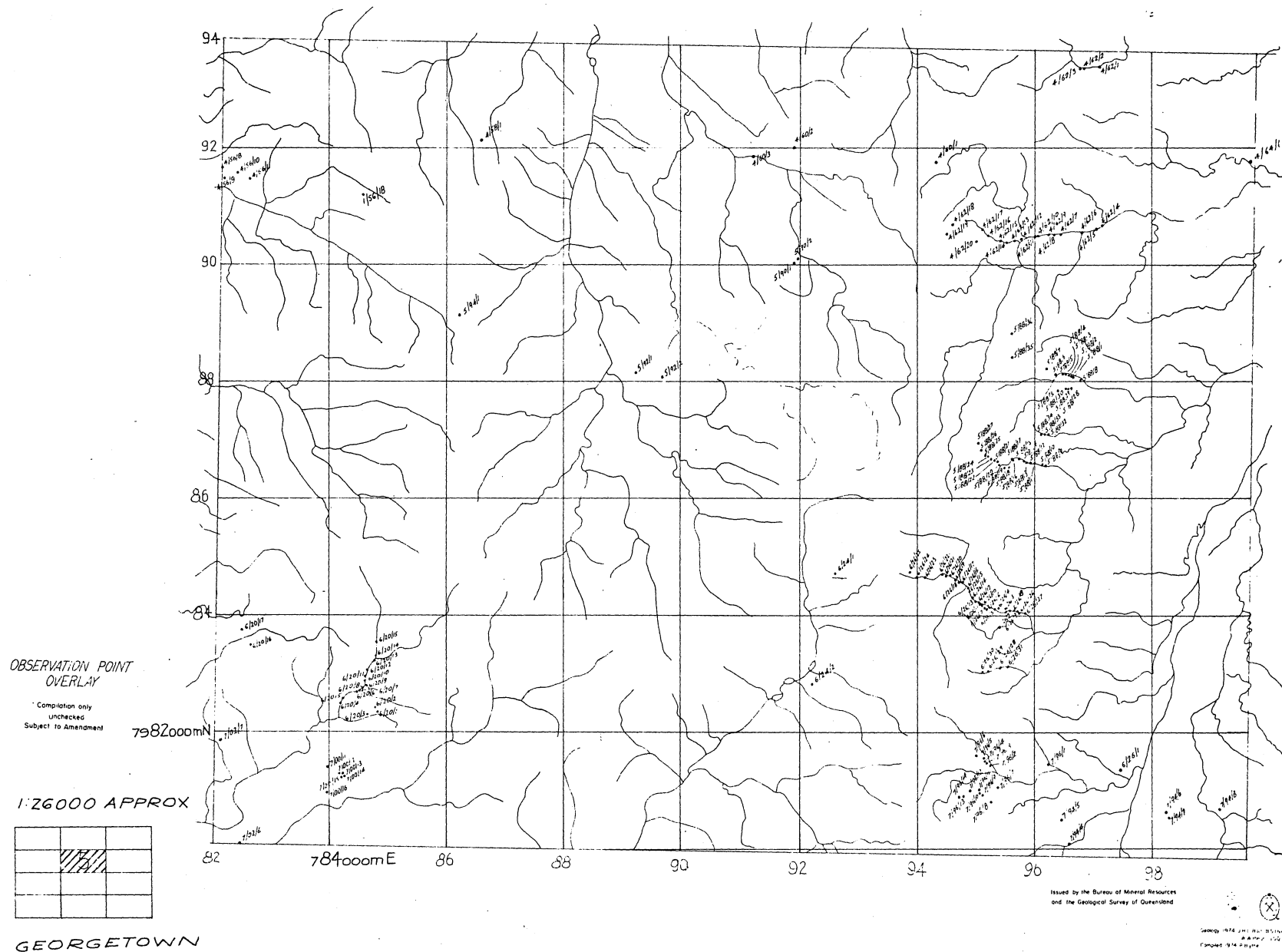
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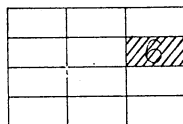
Geology 1974 J.H.C. Bow, B.S. Overby, B.M.R.
1:26000 1:25000
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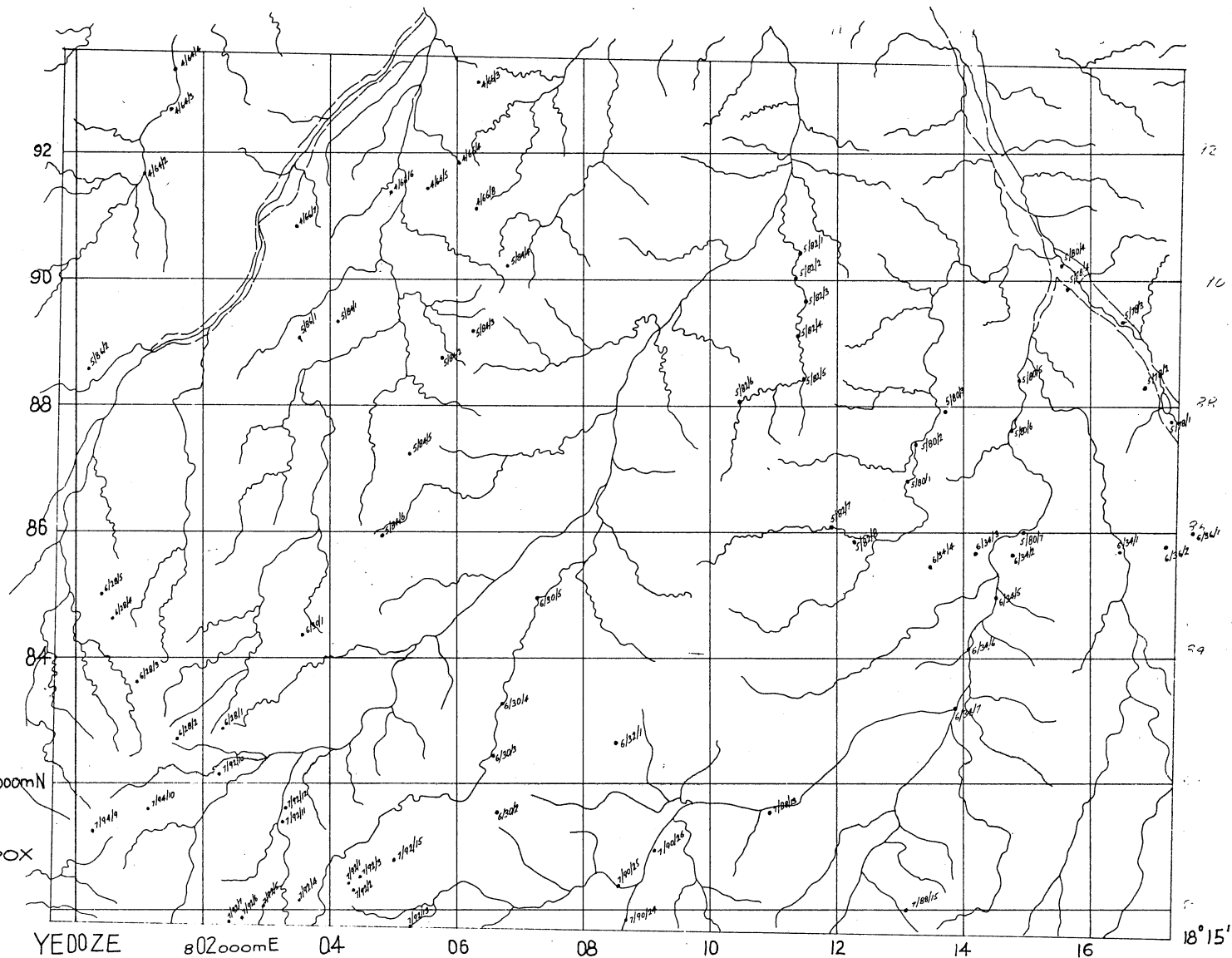
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79 82000mN

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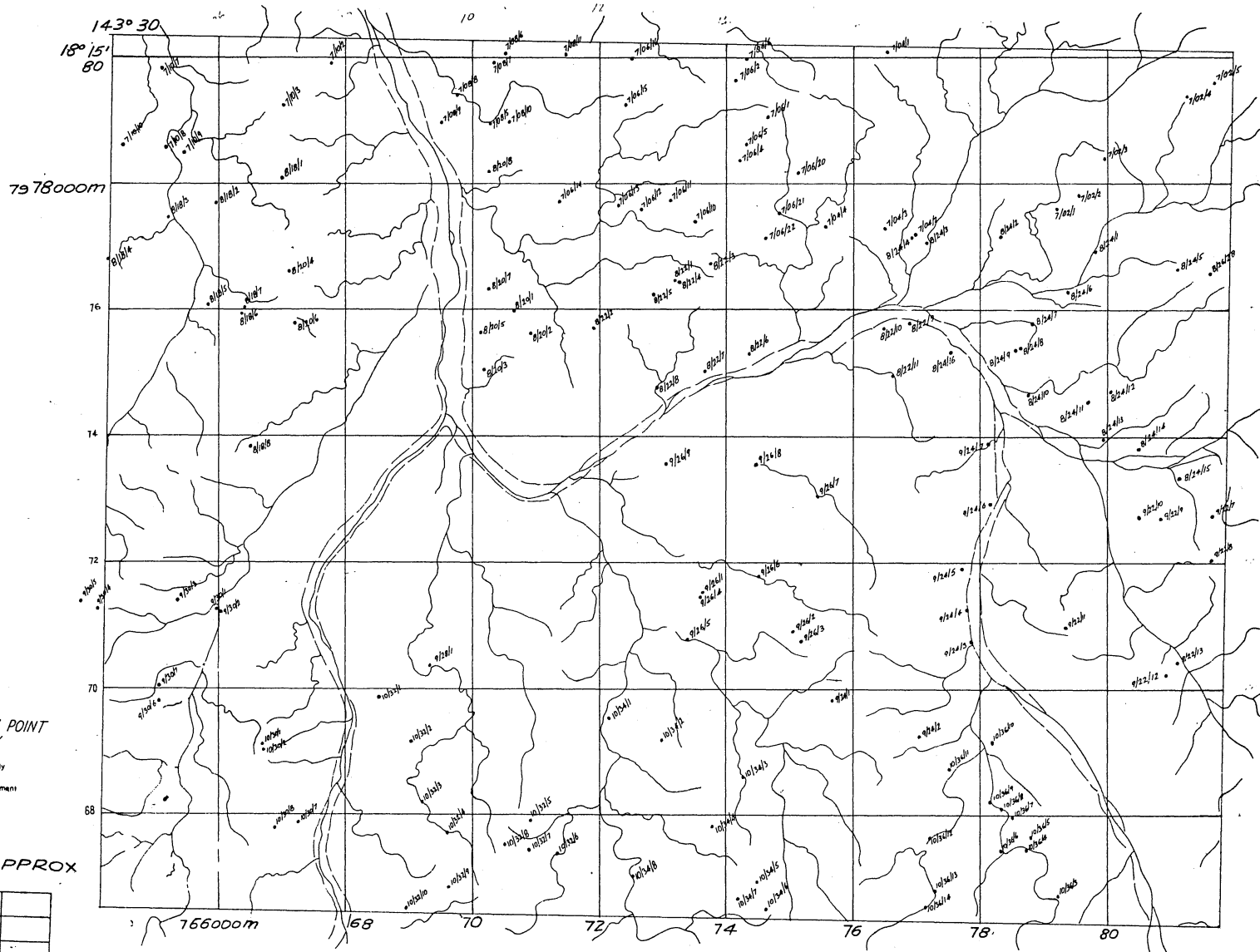
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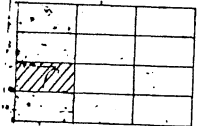
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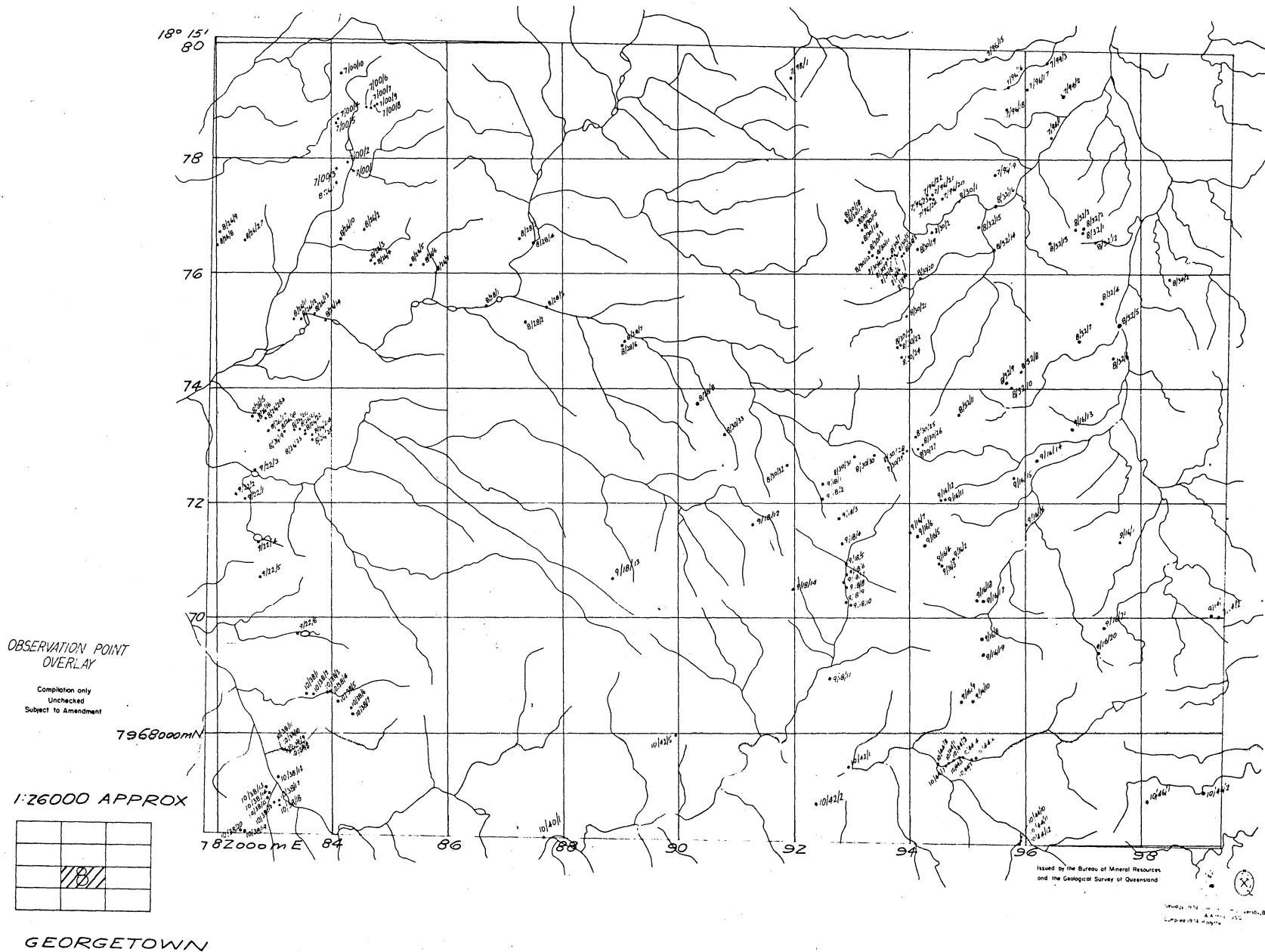


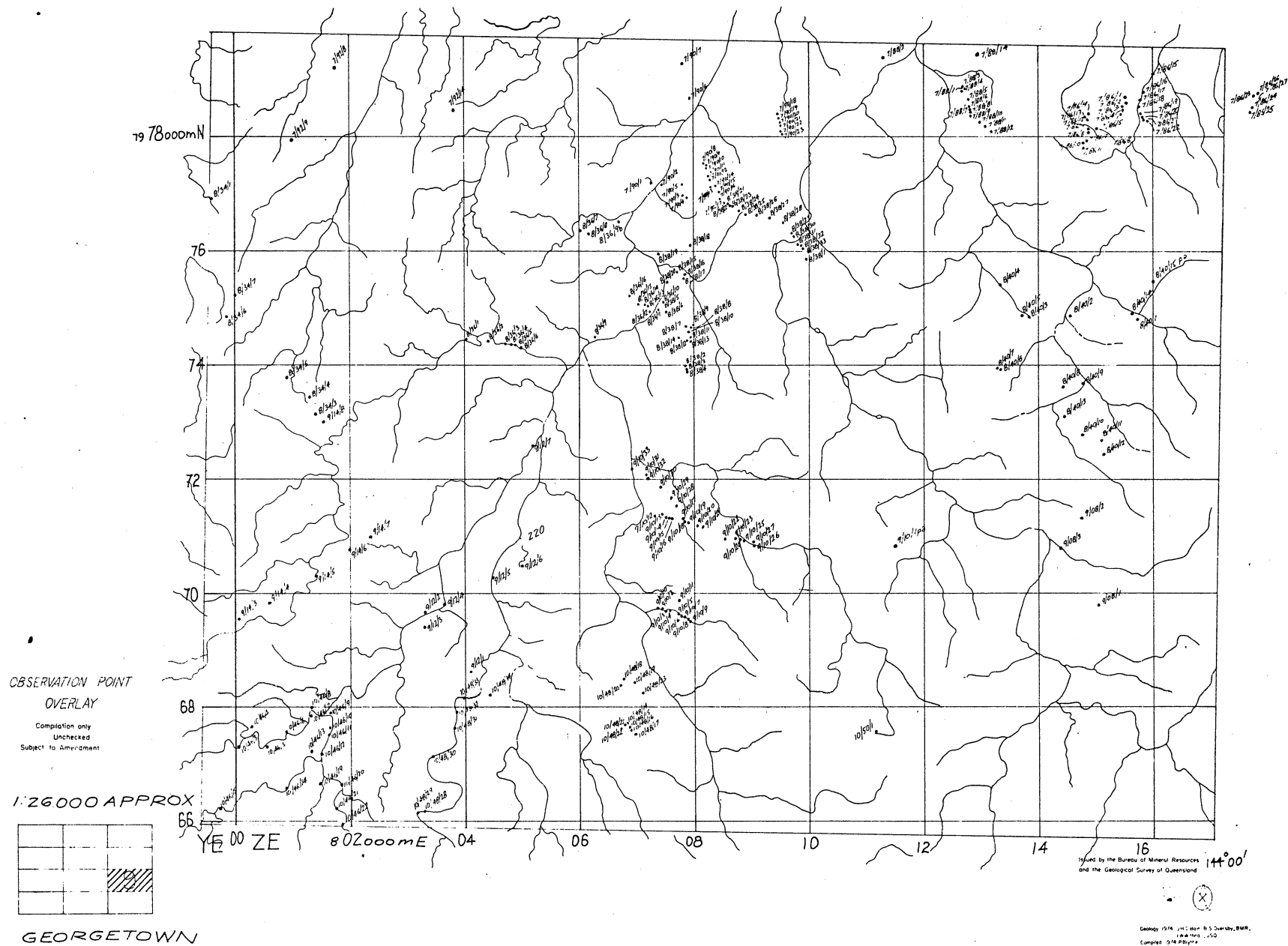
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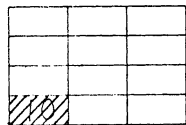
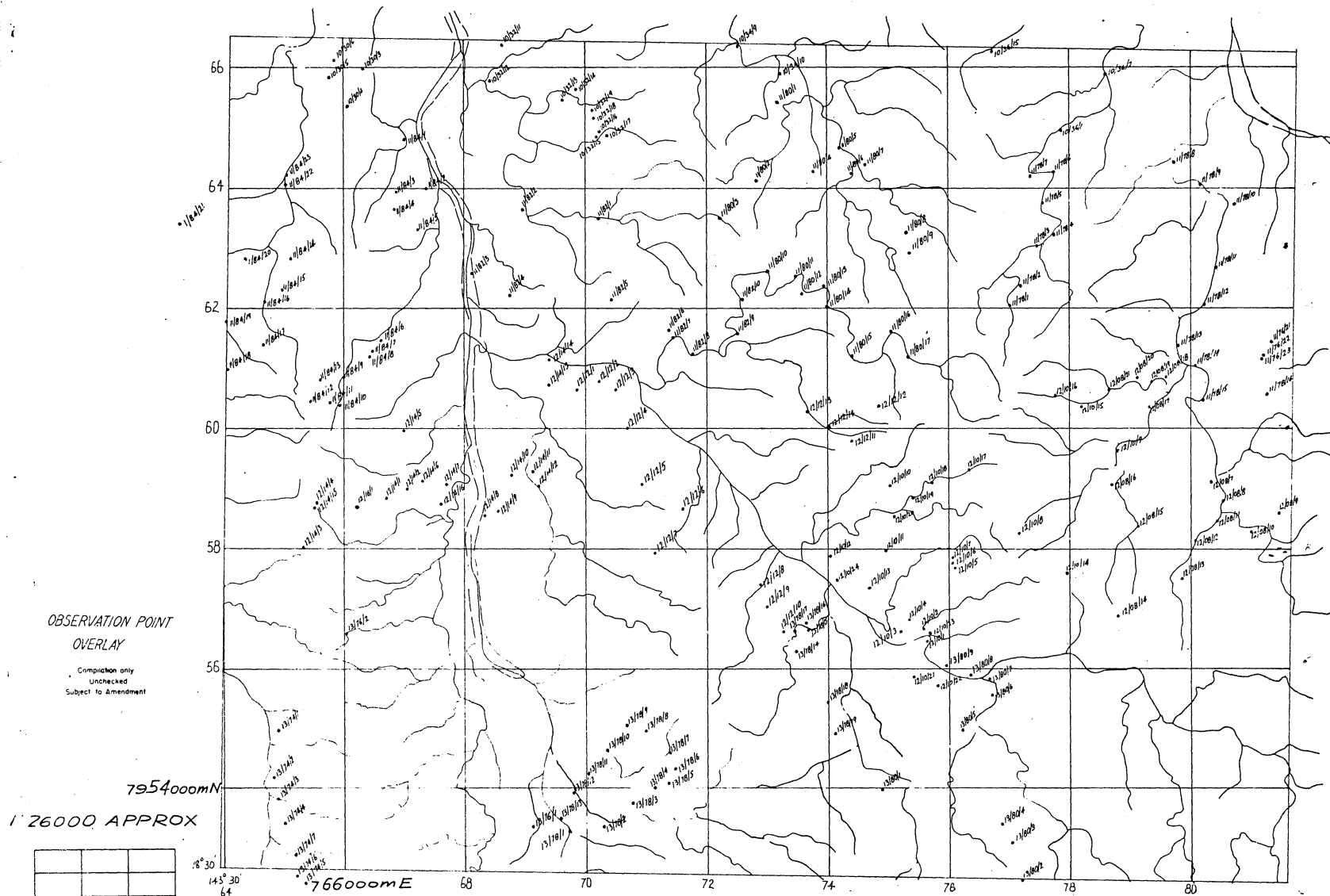
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Geology 1971 J.M.C. Bar. 8.5 Overseas, B.M.R.
1:26000, 1:500
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GEORGETOWN

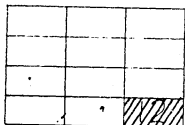
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Geology 5/74 1:100,000 B.S. Overbury, B.M.P.
 1:100,000 1/74
 Compiled 1974 Payne

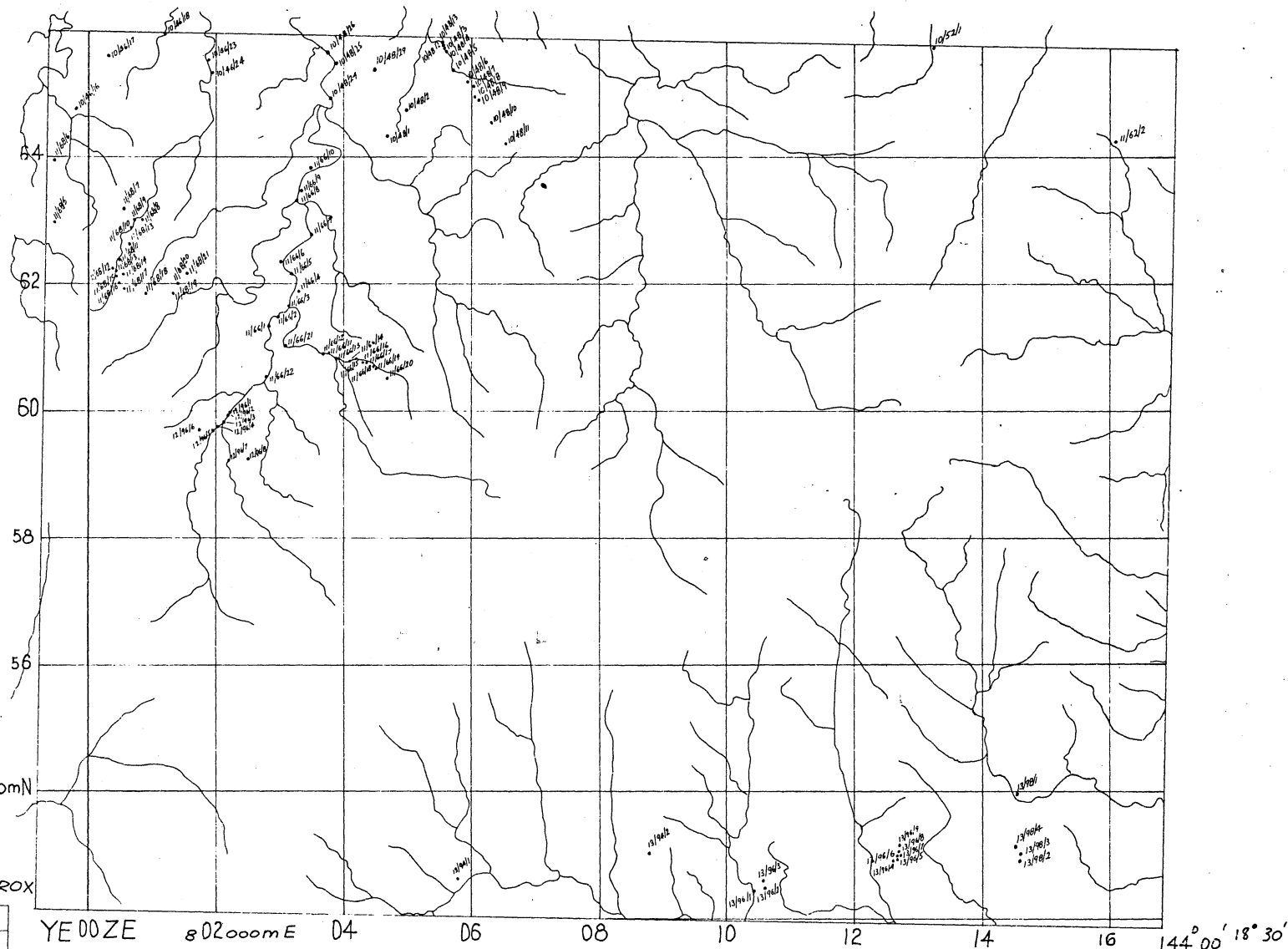
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