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GEOLOGY AND GEOPHYSICS.

RECORDS.

1959/88



PEGMATITES IN THE HUCKITTA 4-MILE SHEET AREA

bу

D.R. Woolley

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PEGMATITES IN THE HUCKITTA 4-MILE SHEET AREA

by

D.R. Woolley

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SUMMARY

About 350 pegmatite veins have been mapped in the Huckitta 4-mile sheet area and information concerning these is presented in tabular form. Strikes have been recorded for 154 pegmatites, and the distribution of strike directions is shown graphically in rose diagrams. These diagrams indicat a preferred east - west strike over most of the area. Four maps at a scale of one mile to one inch show the location of each pegmatite, eleven of which are considered to be worth prospecting for muscovite.

Introduction

During regional mapping of the Huckitta 4-mile sheet area by a Bureau of Mineral Resources field party (K.G.Smith, J.W.Smith, J.M.Pulley, R.R. Vine, D.R. Woolley) in 1957-58, a large number of pegmatite veins was examined. These veins intrude Precambrian basement consisting of granite and rocks of the Arunta Complex (mainly schists and gneisses) with some basic igneous rocks. Some of the pegmatites contain commercial quantities of muscovite, and a brief summary of details concerning the pegmatites in this area has been compiled as an aid to further prospecting. The pegmatites have been plotted on maps at a scale of one mile to one inch, adapted from base maps provided by the Division of National Mapping. (Plates 1 - 4).

Three of these maps are complete one-mile sheets (sheets 5/371, 5/372, 5/362), while the fourth is a portion of sheet 5/370, and together they cover that part of the Huckitta 4-mile sheet area which contains the great majority of recorded pegmatites. About half a dozen pegmatites have been seen in other parts of the Huckitta 4 - mile area, and approximately another half dozen occur just outside this area, along the southern boundary.

A number has been assigned to each pegmatite, which is the point number of the locality at which the pegmatite was recorded, taken from the field notebooks. These points are recorded on air photographs held by the Bureau of Mineral Resources in Canberra. In two places, several pegmatites have been recorded from within a very small area, and here, instead of a separate dot for each pegmatite, a dotted line has been drawn around the area and the numbers of the pegmatites concerned placed outside. The pegmatites mentioned in the text as being worthy of prospecting are marked by an asterisk. Centre points of the aerial photographs used in compiling the maps are shown by a circle, with the photo number directly underneath.

Location of a point on the ground from maps such as these, which have only a small amount of topographic detail, could be difficult, especially in the flat sandy country so common in this area. In order to alleviate this position as much as possible, topographic features such as quartz ridges and small isolated hills have been added to the maps where feasible.

The scope of this report does not include a description of methods for the production and marketing of mica, which are covered in earlier publications by Owen and Turnbull (1950) and Joklik (1955).

Field Occurrence

Approximately 350 pegmatites have been examined in the field, and these range from a few feet to several hundred yards long, and from a few inches to fifty yards wide. Quartz and feldspar are by far the most abundant minerals, and in many cases compose 100% of the pegmatite. Muscovite and biotite are also common; muscovite has been mined in the Plenty River area for some time. Tourmaline is very widespread and crystals up to two feet long have been seen. Other minerals which occur rarely in the pegmatites are beryl, garnet, and apatite.

Most of the pegmatites recorded here are discordant, although a few appear to be concordant. Of the latter type, all that can be said in many cases is that they strike parallel to the foliation of the country rock. It is possible that in many cases the dip is not the same as that of the country rock, and hence many of these may also be discordant. Some of the pegmatites show zoning, and several have been seen which have a quartz core. Discordance, zoning, and the presence of a quartz core are features regarded by Joklik (1955 p.178) as favourable for the presence of commercial quantities of muscovite.

A list of the pegmatites recorded in the area is given in Table 1 which shows, where known, the strike of the pegmatite and of the enclosing country rock, the dimensions, the minerals present, and whether any mining or prospecting operations have been carried out. The location of these pegmatites is shown on the accompanying maps, plates 1 - 4.

In many cases it has not been possible to measure the strike of a pegmatite body, generally due to the poor outcrop, or to the irregular and ramifying nature of some of them. A tabulation of the strikes of 154 discordant pegmatites is shown in Table 2, and also in the rose diagrams, Figures 1 - 4. For the plotting of these results, a division of the southern part of the Huckitta 4 - mile sheet area has been made as follows, into probable structural units: -

- (a) The south-eastern area, occupying that part of the Huckitta sheet which lies south and east of the Jervois Range.
- (b) The Bonya area, which extends north and west from the southern tip of the Jervois Range.
- (c) The Plenty River area, extending west from areas (a) and (b) to the western boundary. This area includes most of the Plenty River mica field as at present known.

In Tables 1 and 2, the directions shown are magnetic. In the rose diagrams, the directions have been adjusted to true north (declination $5^{\circ}E$). In these diagrams, 10° divisions have been used, starting at 5° .

Fig. 1 represents the 24 discordant pegmatites examined in the south-eastern area, and shows a pronounced maximum in the east - west direction.

Fig. 2, for the Plenty River area, also has a strong maximum in the east - west direction, but there is a greater scatter in this diagram, which represen \$3 90 pegmatites. There is also a suggestion of secondary maxima in thenorth - west and in the north - east directions.

Fig. 3, for 40 pegmatites in the Bonya area, does not show any strongly favoured direction. Although there are two directions (350° and 325°) in which there is some concentration, there are no pegmatites with strikes in the intermediate direction (340°), and hence it is doubtful if there is any general preference for a north-westerly direction. The most obvious feature of this diagram is the absence of the strong east - west maximum present in Figs. 1 and 2.

Fig. 4 combines the first three figures, and is a plot of all discordant pegmatites in the Huckitta 4 - mile sheet area whose strikes are known. It shows a strong east - west maximum, with 30% of the pegmatites having a strike between 75° and 105°, symmetrical about the 90° direction. There is also a secondary maximum in the north-west direction.

Joklik (1955, p.135) gives a synthesis of the directions of strike of steeply dipping pegmatites in the Hartz Range area, which occurs to the south-west of the Plenty River field. He divides the pegmatites into four groups, with strikes as follows:-

(a) 95° - 100° (b) 140° - 150° (c) 50° - 70° (d) About - 180°

Some of the pegmatites in this synthesis are from the Plenty River area, from relatively large mines (Dinkum mine, Whistleduck mine).

There is thus some similarity in the trends of the pegmatites in the two areas, particularly in the east - west direction, and in the north-west direction. The concentration of strikes with a north-easterly direction is only shown in the south-western part of the Huckitta 4-mile sheet area, and nowhere is there any indication of a preferred north - south orientation.

The reason for the preferred direction of the pegmatites under consideration is not clear, but a possibility is that those having an east— west strike were emplaced in tension joints resulting from a stress field such as that shown in Fig.5. With a shear couple acting in the direction shown, the main tension zones would trend east—west, and emplacement of pegmatites would most likely have occurred in such zones. The main shear direction in this field would be in a northwest direction, parallel to the couple, and this may have formed zones of weakness along which a secondary concentration of pegmatites could have been emplaced. This hypothesis implies that the pegmatites

were emplaced later than the main folding of the Arunta Complex in the area, since the folding formed in this stress field would have north - south axes, perpendicular to the compression. But the field evidence available suggests that the main fold axes in the Precambrian of the Huckitta area have an east - west trend. An alternative possibility is that the east - west pegmatites were emplaced in tension joints resulting from a release of the stress which caused the east-west folding. (Joklik 1955. p.111).

Recommendations for prospecting.

Joklik (1955 p.178) lists several suggestions for prospecting, and observations by the Bureau of Mineral Resources field party on mines opened since that time confirm the validity of these suggestions. They are:-

- (1)The pegmatite should be
 - (a) Discordant
 - (b) Coarse grained
- (2)The pegmatite should contain only small amounts of
 - (a) Graphic pegmatite(b) Biotite
- (3)The pegmatite should be well zoned.
- (4)The presence of a prominent tabular quartz core is desirable
- (5)The predominant feldspar in the pegmatite should be plagioclase, not microcline
- (6)The presence of some book mica at the surface is desirable.

Several of the pegmatites examined in the field are considered to be worth prospecting for mica, and a brief description of these is given below. The reference numbers are the point numbers used in the field notebooks of the Bureau of Mineral Resources field party.

- Southeast part of sheet 5/372, about two miles north of the Marshall River. Here there is a large; quartz vein, containing tourmaline, with soil cover on each QT side, which is thought to be the quartz core of a large pegmatite.
- Southern part of sheet 5/371, about three miles south-south-east of Dead Horse Soak. This is a strongly 2687 south-east of Dead Horse Soak. This is a strongly zoned pegmatite, discordant, with weathered muscovite QFT are showing at the surface. FATE gove?
- Southern part of sheet 5/371, about one mile south of Dead Horse Soak. This has a good quartz core, and is of very large dimensions (300' x 12'). A few small 2697 prospecting pits have been sunk here, but further investigation is considered warranted.

 12 ft x 100 yd

 F Mu Q Prosperted
- Central southern part of sheet 5/371, about two miles 4841 northwest of the Ophir mine. This pegmatite has a rough zoning, with a poorly developed quartz core. Q.F.B. Jones
- 4843 Approximately one mile north-east of 4841. Quartz core, with poor zoning, and a concentration of weathered mus-covite flakes at the surface.

Chiesty core. B. s

- Near southern margin of sheet 5/362, just west of the southern tip of the Jervois Range. This is a discordant pegmetite about 30 yards wide, containing large amounts of tourmaline, with weathered flakes of muscovite at the surface.
- About one mile north of 2102. Large pegmatite mass, containing books of muscovite up to one inch across and half an inch thick.
- In south-west part of sheet 5/362, about three miles north-east of the Bonya copper mine. This pegmatite is several hundred yards long, discordant, with some weathered muscovite at the surface.
- About two hundred yards north of 2149. Discordant, with a well developed quartz core. Contains tourmaline but no mica seen at the surface.
- Western part of sheet 5/372, about three miles north of the junction of Thring Creek and the Marshall River.

 Very large mass of pegmatite, about 750 feet long, containing tourmaline and muscovite. Probably discordant, but the country rock is strongly croded.

 750 plant.
- About one mile southwest of 1550. Very large quartz vein, 1000 feet long and up to 30 feet wide, containing small amounts of muscovite and tourmaline. This is probably the quartz core of a large pegmatite and costeaning along the margins, which are soil covered, may reveal muscovite.

Most of the above mentioned pegmatites occur outside the present Plenty River mica field, and a considerable extension of the field appears to be a possibility. The most encouraging areas for prospecting seem to be:-

- (a) An eastward extension of the present field, to about the longitude of the junction of Thring Creek and the Marshall River. Pegmatites are fairly common in this area, and several have been seen which may contain good quantities of muscovite. Further east, in the extreme south-east corner of the Huckitta 4-mile sheet area, pegmatites are badly weathered and do not seem to be so numerous (this area has extensive soil and sand cover). Only one pegmatite has been seen which is regarded as being worth prospecting.
- (b) The Bonya area, extending for several miles west from the western end of the Jervois Range, and north from the main road from Alice Springs to Queensland. Pegmatites are very common in this area, and some have been seen which are very promising. Apart from those shown on the map, (plates 3 and 4) there are also numerous large and irregular quartz-tourmaline veins which could be quartz cores of pegmatite veins, which are particularly common just south of the old Queensland road. No mica mines or prospects have been seen in this area.

311.7

Further prospecting in both the present Plenty River field and in possible extensions to the east, would be considerably aided by the employment of some mechanical device such as a bulldozer. This could be used to remove with reasonable speed and economy the large amounts of soil and sand which obscure many of the pegmatites, and hence allow a quick appraisal of their mica bearing possibilities.

REFERENCES

JOKLIK, G.F., 1955 - The geology and mica fields of the Harts Range, Central Australia. Bur.Min.Res.Aust.Bull. 10.

OWEN, H.B. and TURNBULL, W., 1950 - Production and marketing of mica. Bur.Min.Res.Aust.Pamphlet 1.

TABLE I

PEGMATITES IN THE HUCKITTA AREA

Abbreviations:

Q	-	quartz	T -	tourmaline
F	-	feldspar	Irreg	irregular
M	-	mica	Ran	random
Mu	_	muscovite	Gran	granite
В		biotite	D -	discordant
Вe		beryl	C -	concordant
Λ		anatito		

Number	Photo	Strike of Pegmatite Degrees Magnetic	Strike Country Degree Magneti	Rock s	Dimensions	Romarks
7	13/5115	340	020	· ·		
9	11	285	?			
11	11	320	275 .			
12	#1	330	055			
13	11	310	?			
14	11	320D	?			
15	11	300	020			
16	ii ,	310D				
17	11	320D				
17	11	040C				
23	11	360	310			Paulina Mino
25	11	050	050			Mined
26	ίι	?	;		•	Mined
27	13/5113	345	065			Prospected
38	11	340	270	3' w:	ide	
39	11	?	?	Large	e,irreg.	Prospected
40	. 11	270	?			Prospected
41	11	270	?	Up.t	10'wi đ e	Prospected
43		275	285			
44	11	300	?			Mined
45	11	?	?		•	Prospected
46	11	· ?	?			Prospected
47	11	C	270			Mined
48	11	?	?			Prospected
49	ル ・ ン	?	270			Prospected
50	II .	270	295	3'wi	de	Prospected
51	11	D	290			Prospected
52	' 11	?	290			Mined
53	11	230	?			Prospected
57	11	010	350		· · ·	Prospected

Number	Photo	Strike of Pegmatite Degrees Magnetic	Strike Country Degrees Magneti	Rock	Dimensi	ons Remarks
58	13/5113	?	?			Prospected
59	tt	?	?			Mined
60	Ħ	?	?			Prospected
61	11	?	070			Prospected
64	14/5077	070	?	1-6'	wide	
66	11	?	?	81	wide	
67	11	?	?			Prospected
69	11	?	?	60'	long	
71	11	?	?	61	x 100'	
74	13/5109	300	300			
75	13/5111	270	270			
100	12/5163	090	090			
103		?	?			Prospected
104	II	105	105			Prospected
327	13/5117	30	?	20'	wide -	QFMuB Mined
329	11	?	?			QFMuB
330	H	?	?			
333	14/5073	150-175	?			QFMuB Prospected.
334	11	090	065			QFMuBTBe Minos
336	13/5119	095	095			QMuBF
408	13/5119	110	140			QFMuB Mincd
409	11	095	?	6 '	wide	QFMu Mined
410	11	125	?	6'	wide	QMu Mined
411	11	080	?	•		QMu Mined
432	10/5013	?	.?			QFT
436	11	?	?			
439	11	?	granite			QFT
440	11	?				QFT
472	10/5015	?	11	Sma	111	CT QF
473	11	?	11		all	QT
563	12/5163	230	230	?		
564	11	C	295		4' wide	
621	12/5165	285	275		3'wide	QFM Prospected
642	11/5193	290	290		3' wide	
645	,,	280	300		3'wide	
719	10/5127	C .	360		?	
809	11/5191	C	320		ral feet	wide
816	11	С	280		1' wide	
820	11	C	330		3' wide	
821		;	granite	La:	rge	QFM

Numbe	r Photo	Strike of Pegmatite Degrees Magnetic	Strike Country Degrees Magnet	Rock Dimensions s	Remarks
1003	13/5125	010	010	Small	
1008	H	?	granite	?	
1012	11	020	?	?	
1026	10/5009	?	025	?	r
1038	,;- n	070	?	? ·	
1039	ff.	?	065	Small	
1097	12/5157	ramifying	granite	?	QFMuT
1098	11	11	11	?	QF
1110	12/5161	?	11	?	QFB
1115	17	?	?	?	QF
1121	11	?	?	?	QF
1137	11	?	?	?	QF
1185	13/5115	175	130	?	QFMuB Mined
1187	. 11	050	?	?	Prospected
1253	11	?	090	?	OFMuB Prospected
1254	TT -	?	030	?	QFMu Mined
1256	11	315	?	?	QFT Mined
1257	11	020	120	90'x 4-10'	Mincd
1258	- 11	040	?		Mined
1259	Ħ	160	• ?		Mined
1342	13/5113	? ·	030		QFM Mined
1344	Įt	150	?		QFMu Mined
1346	11	020	?		QFMu Mined
1347	11	070	?		Q Minod
1348	11	O4OD	?		Prospected
1543	13/5127	210	300	1' wide	MuFTQ
1544	11	D	320	1' wide	MuFTQ
1547	11	260	270	1'x 300'	FQ
1548	"	?	300		0.TT
1549	11	?	020	Small	QTF
1550	**	170	?	750' long pt	QTMuF
1551	11	330	?	8-30'x1000 yes.	Q ·
1552	1) IT	015	?	8'x1000 yds.	Q
1554	11	320	15	3'x 200'	QFTMu
1555 1556		280 ?	050		QFTMu
1556 1557			020	C	OMN
1557 1558		Random	340 015	Small 1'x 10'	QTMu
1558 1562	14/5063	055 290	015 ?	1 · X · 10 '	QFMu QMu
1573	13/5125	290 360	?		QMu QMu
1574	13/3123	320	; ;		Ama
1714		320	:		

Number	Photo	Strike of Pegmatite Degrees Magnetic	Strike (Country l Degrees Magnetic	Rock Dimensions	Remarks
1577	13/5125	Random	300		QFT
1580	15/5015	310	?		QMu
1581	15/5017	Random	?		QF
1583	*1	255	?		
1 586	tt	285	015		QMuF Prospected
1593	15/5015	255	?		QMu
1595	11	?	285		QMu
1596	11	265	?		
1598	15/5017	?	010		
1604	14/5065	250	250		
1605	11	Random	260		QFT
1606	11	D	260		QT
.1610	11	Random	. 240		QT
2091	11/5209	C	0-20	Several yds. wide	QFMT
2099	11	C	360	Very large	
2102	11	060	075	30 yds. wide	QFMT
2104	11	?	360	Very large	QFM Relation to country rock obscure.
2105	11	360	?	11	QFM
2113	11/5207	240	?		QFM
2115	11	C	160	10 yds.wide	QFM
2116	11	Random	?	Small	Several, varying strikes.
2119	11	, H	100	1-2' wide	QFMT
2121	Ħ	?	010	?	QFM
2122	11	?	igneous	?	QFM
2125	11	. 170	?	50 yds(plus)wide	QFMT
2126	11	?	080	Small patches	
2149	11	С	020	2-3' wide	QT
2149	11	140	020	Several ft.x hun	dreds of yds.QFM.
2150	11	150	?	6' wide	QFM Good quartz core
2151	"	170	igneous	?	
2152	11	55	150	6 yds. wide	
2154	11	180	010	Several yds.wid	e . Several
2155		1,70	?	8 yds. wide	
2156	11	165	180	6 yds.wide	
2157		145	?	Up to 20 yds.wide	. Several
2158	11	Random	granite	Small	
2167	"	110	140	6' wide	
2202	11	Random 	080	?	
2207	12/5153	"	100	?	
2208	•	055	100	?	
2235	11	200	igneous	5 yds.wide	

Numbos	r Photo	Strike of Pegmatite Degrees Magnetic	Strike Country Degrees Megnati	Roc k Di	mensions	Remarks
2244	11/5195	C	140	Few fe	et wide	Several
2251	12/5153	C	195	Small		Several
2251	11	070	195	Large		
2253	11	030	` 1 80	?		
2256	11	irreg.	granite	?		
2258	İI	100	и.	?		
2259	tt	Random	Ħ	?		
2260	11	150	Ħ	?		
2260	11	115	H	6'x severa	l hundred	yds.
2288	. 11	- C	130.	?		
2294	11	. С	?	?		
2297	11	Random	075	?		QFT
2302	11	11	?	?		
- 2317	12/5155	?	granite	Small		QFT
2363	11/5205	070	130	3'wide		
2365	, II	085	130	Several	yds. wide	.QFT
2366	11	?	120		yds.x severed yards	
2379	11	Irreg.	105	?	•	
2380	11	C	110	Small		
2381	II	200	090	20 yds.	wide	
2394	11	Random	?	?		
2395	11	Ħ	granite	Variable		QFMT
2397	11	C	115	Large		
2418	11/5203	?	granite	?		
2421	11	?	140	Small		
2502	9/5071	010	010	20' wide	(QFM .
2547	11	110	?		(QF
2603	11/5211	040	?		. (QFMu
2604	n	120	005			Numerous
2620	11	170	065		•	
2650	15/5019	?	?	ti.		QFT
2651	11	?	305	?		QF
2652	II	ram.	290	6" x 6'	(QFBT
2653	II	335	290	Small		?
2655	11	045	290	1' x 5 y		FMuQT .
265 7	tt .	330	290.	8' x 100		FQT
2657	11	290D	290	2' x 30		FQT
2657	11 ,	290	290	Small		QTMu
2657	Ħ	045	290	Small		QT
2658		290	040	9' x 40		QFT
2660	11	3.40	340	Small		FQT
2661	H	035	330	Variable	:	FQBT

Numbe	r Photo	Strike of Degmatite Degrees Magnetic	Strikeóf Country Dogrees Magnetic	Rock	Remarks
2663	15/5019	?	?	?	OFT
2669	15/5021	300	?	Medium (2)	QFMu, QBMu
2673	15/5019	?	?	Large	QFM.Quartz core.
2674	11	340	275	?	QFT
2679	11	ram.	270	small	?
2682	. "	ti	280	clots	QFT
2686	11	11	300	clots	QFT
2687		085	320	large	QFT(core), FQTB. Zoned.
2689	Ħ	050	050	small	FQT
2690	11	030	290	small	FQT
2692	11	360	290	small	?
2695	it	320D	320	medium	FQB
2697	11	320	?	12'x 100 yds.	FMuOt Quartz core. Prospected.
2698		D	330	small	QMu
2699	11	050	280	150 yds.long	QT
2700	ff.	045	320	12yds x 25 yds.	FQMuBT Small mine
2700	11	035	320	?	QMuFT
2701	11	010	310	10' x 20 yds.	QMu
2707	11	55D	?	Up to 100yds.long	
2708	II	360	080	Large FQMuB.Qu	artz core. Ophir mine.
2711	14/5053	ram.	275	small	QF
2712	14/5053	275	?	small	Q
2718	14/5051	270	280	2' x 4 yds.	QFMu.
2720	14/5051	080	gran.	3'x 6 yds.	Q
2646	15/5021	D	360	?	QT
2648	11	45	340	1'x .8'	QT :
2649		?	330	small	QMuT
2724	13/5137	280	280	12yds x 40 yds.	QMu
2730 2732	13/5137	280	? 295	12yds x 250yds.	QMu (core) FQMu(margin)
2736	11	ram. 350	?	10'x 25 yds.	Q. Quartz core?
2752	14/5055	ram.	080	variable	QF
2753	14/5055	ti chir.	340	variable .	QF
2755	11	11	360	small	QF
2756	11	280	330	variable	QFB
2757	tt i	ram.	315	?	FQM
2758	m ·	270	315	6"x 20'	Q. Quartz core?
2759		270	285	variable	QT. Quartz core.
2760	ij	?	?	large	QMuF
2761	11	. ?	?	,	QFMu
2762	11	060D	60	18"x 30 yds.	QFM

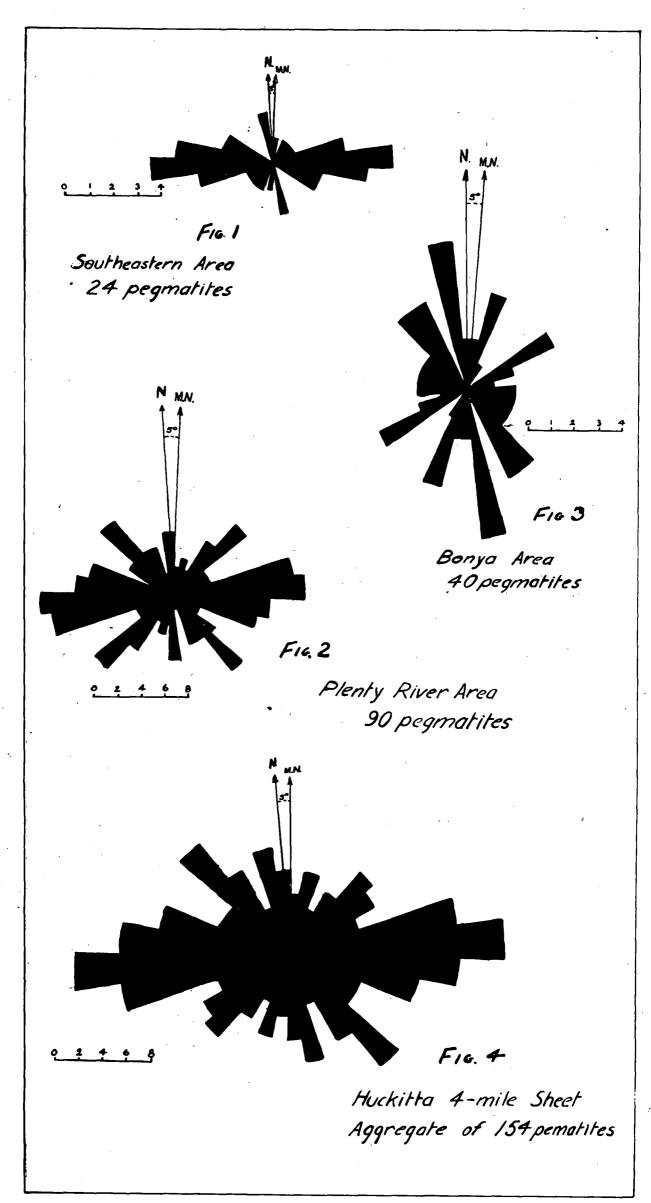
Number	r P _h oto	Strike of Pegmatite Degrees Magnetic	Strike o Country Degrees Magnetic	Rock	Remarks •
2763	14/5055	ram.	045	small	
2776	14/5057	355C	355	small	
2777	14/5057	285	?	?	QM·
2778	14/5057	ram.	285	small	QFM
2780	11	ram.	gran.	small	
2770	13/5131	ram.	gran.	small	
2775	11	ram.	325	small	
2784	12/5151	010	010	5'x 80 yds.	QFM
2785	11	350	010	10'x 40 yds.	QT
2786	11	010	010	variable	QFMuT
2786A	11	010	010	large	QF
2787	11	010	010	medium	QMuT
2792	12/5149	320	gran.	9"x 10'	FQT
2794	11	310	gran.	6'x 20'	FQT
2 7 95	11	?	035	?	QFT
2797	11	270	gran.	?	QMuT
2798	11	270	gran.	?	QT
2799	11	?	070	?	QFMuT
3000	10/5013	020	070		QFMuT
3002	11	?	11		QFT
3115	11	?	11		QFT
3116	11	140	11		
3119	11	105	11		
3122	Ħ	?	11		QF
3123	11	?	11		QF
3124	11	?	ti .		QFT
3126	11	;	11		
3130	11	D	11		QFT
3135	**	?	Igneous		QFT
3138	11	090	Granite	small	QFT
3140	11	Random	11		QFT
3152	11	3	***		QFMuT
3154	11	?	11		QFT
3159	11	?	n		QFTMu
3168	11	?	n		
3170	11	?	II		QFMu
3172	11	?	11		
3177	11	?	n		
3178	##	?	Ħ		QFT
3185	11	?	105		QF
3188	11	135	?		
3193	Ħ	?	150		

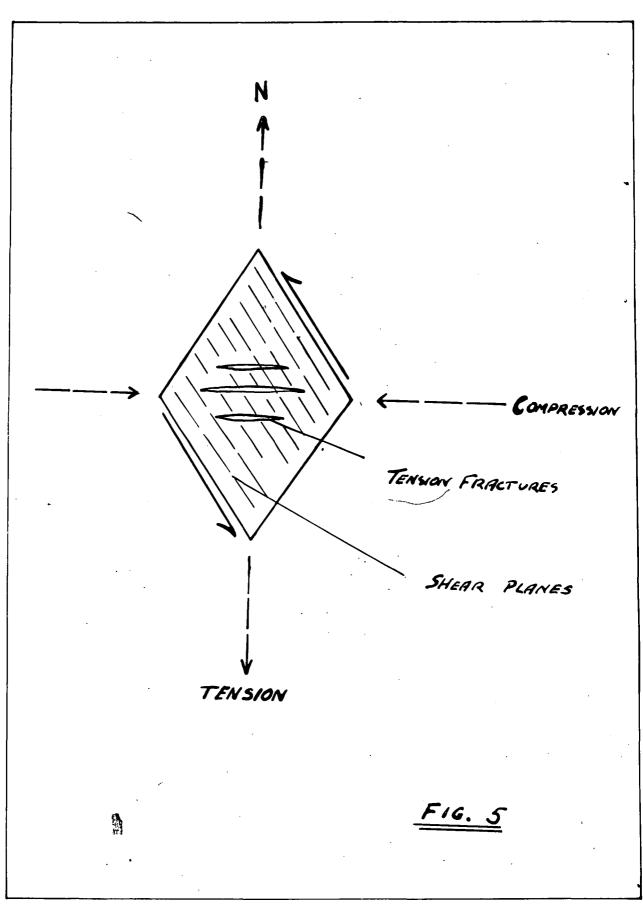
Numbe:	r Photo	Strike of Pegmatite Degrees Magnetic	Strike Country Degrees Magnet:	y Rock Dimension s	s Remarks
3196	10/5011	?	?		QFT
3197	11	?	Granite		QFT
3199	11	?	160		QFT
3 200	ıi	?	Granite		QF
3202	11	?	ti		QFQTMu
3210	10/5011	?	11		QFTMu
3211	11	?	11		•
4510	12/5147	ram.	gran.	small	FQMuT
4514	11	ram.	11	11	FQ
4517	11/5123	080	11	H	QT
4633	12/5145	030	iı	variable	Q
4647	12/5143	260	11	medium	QMu
4800	14/5077	?	300	11	QMuTF Prospected
4830	15/5017	325	080	?	QFTB
483 i	11	?	?	small	QFMu Prospected
4832	iı	?	350	medium	QFMuT
4833	11	?	?	?	QFMuT Prospected
4834	11	?	010	medium	QMuF Prospected
4835	11	?	?	?	FQMu Quartz core.
4839	15/5019	D	020	medium	FQ
4840	11	?	?	?	QFMu.Quartz core.
4841	11	ram.	?	large	QBF zoned.
4843	H	?	?	medium QFMu	B.Quartz core,zoned.
4845	11	075	310	variable	QFMu
4847	11	090	315	variable	QF
4847X	15/5019	?	?		QMu Prospected
4848	15/5017	?	?	?	QF
4850	Ħ	280	D	12yds.x 100yds.	QMu(core),QFMu
4851	11	?	?	small QFMu.	Zoned, Mined. Quartz core.
4846X	n	?	D	medium	QFMu
4868	14/5089	080	325	large	QFMuTB Prospected
4873	H	?	?	medium	Q Quartz core?
4882	14/5073	90D	090	25yds x120 yds.	QFMuBTA. Millers
4883	11	90D	090	-	Knob mine.
4884	11	; 30D	290	3'x 400 yds. ?	QMuB Prospected QFMuBT Prospected
4885	11	: 280D	290 ?	: 5 ' x 25 yds	QMu Prospected
4886	If	Patch	050	Patches	QMu QMu
4887	11	280	?	modium	QFMu prospected
4888	11	?	: ?	large	QFMuT Minc
4889	11	: 060	: 80	7yds.x 20 yds.	ΩFMu Mine
FVOJ		000	00	IJUDIA LU JUDI	VOT THE INITIE

Numbe	r Photo	Strike of Pegmatite Degree Magnetic	Strike of Country Ro Degrees Magneti;	ock Dimension	s Remarks
4890	14/5073	?	?	?	QFMuB Prospected
4891	11	?	?	?	QFMuBT Prospected
4892	11	?	?	· ?	QFMuBT Prospected
4893	11	270D	?	7yds.x 50 yds	.QFMuBTA Mined
4895	11	270	?	medium	Q Quartz core?
4896	ff	?	?	medium	FQMuBT Prospected
4858	15/5013	?	?	variable	QMu Mine
4874	14/5077	080	?	medium	QMuFT Prospected
4875	**	080	?	medium	QFMuTB Prospected
4876	11	080	300	6'x 40 yds.	QM
4946	12/5175	080	060	variable	Quartz core

TABLE 2.

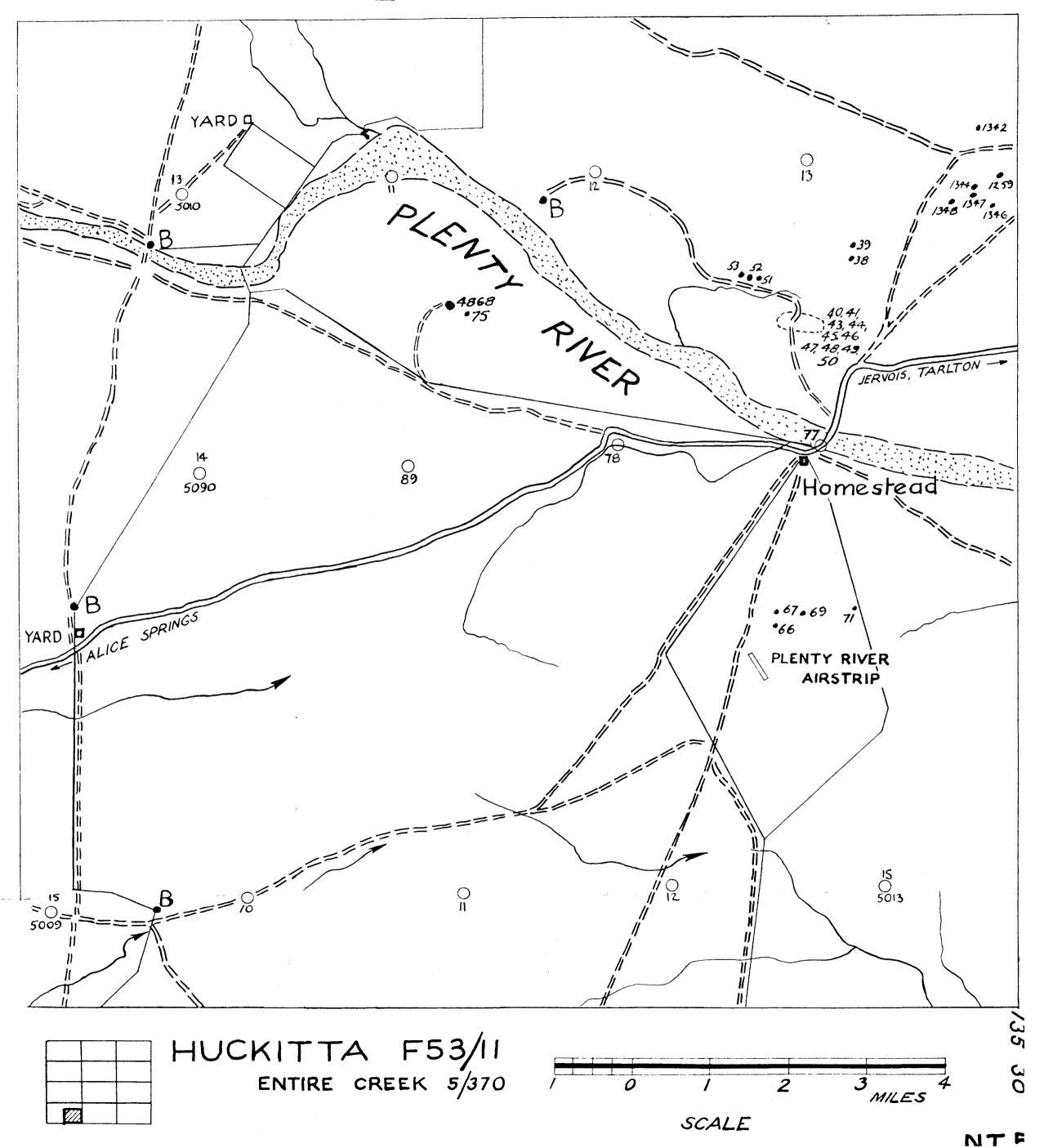
STRIKE Degrees Magnetic	010	020	030	040	050	060	070	080	090	100	110	120	130	140	150	160	170	180
SOUTHEAST AREA (24 pegmatites)	1	_	1	1	1	1	1	3	5	4	2	2	-	_	-	_	2	_
BONYA AREA (40 pegmatites	2	4	1	. -	-	4	2	1	2	2	2	2	2	4	4	-	6	2
FLENTY AREA (90 pegmatites)	2	3	2	5	8	3	3	10	11	8	7	2	4	8	4	4	1	5
TOTAL (154 pegmatites)	5	7	4	6	9	8	6	14	18	14	11	6	6	12	8	4	9	7





NT 53 B - 7

PLATE 1



LEGEND

ROAL

=== VEHICULAR TRACK

FENCE

•B BORE

MINE OR PROSPECT

• 2604 PEGMATITE LOCALITY

* • 1551 PEGMATITES PARTICULARLY WORTH

PROSPECTING.

HILL FEATURE

CLIFF

AIR PHOTO CENTRE POINT, WITH RUN
52.15

NUMBER AND PHOTO NUMBER

