

896411

Point Counts
Highland Valley

HYDROFLUORIC

Normal Hydrofluoric Acid 10-15
rinse

dip in 5% Barium chloride

rinse { SODIUM
COBALTINITRITE REAGENT
cobaltic nitrate

rinse not under running water.

cover surface with acid, SODIUM SALT
RHODIZONATE ^{IC} ~~Sulfate~~
Acid potassium salt.

reagent .05 grams in 20 ml
distilled water.

3-352

not marked sheet 1; * sheet 2; □ sheet 3; Δ sheet 4
 ● D3 & D2

GUICHON

1	2	3
		no sample
9✓	4	15 ✓✓
	9✓	23 ✓✓
32✓	27✓	26 ✓✓
	58✓	32
37✓	86✓	46
		68
68✓	92✓	70
88✓	100	103
119	108✓	
	135*	111
	180	130✓
144*		199
153✓	cut	200
155✓	202✓	204
207		207
		267 ^b
134	78	170
	81	172
238	(102?)	
239		285
		297

NOT CUT YET

not cut Betsaida

Guichon(?)

BETHSAIDA

1	2	3
<p>142° 145° 162° 166A° 169B° 184° 187° 202° 204° 254°^Δ</p>	<p>213° 220° 247° 248°</p>	<p>214° 216° 218° 220° 222° 225° 233° 235° 238° 244° 259° 288° 290° 294°</p>
		<p>6-12°</p>

BETHLEHEM

1	2	3
<p>120*</p> <p>✓ 73*</p> <p>✓ 80*</p> <p>173A°</p> <p>179°</p> <p>205°</p>	<p>113* - missing ?</p> <p>✓ 161*</p> <p>182* (not cut)</p> <p>✓ 215°</p> <p>✓ 216°</p>	<p>126*</p> <p>132*</p> <p>175*</p> <p>178*</p> <p>194*</p> <p>257°</p> <p>283°</p>
<p>9 ↓ 141D</p>	<p>245 (D6?)</p>	<p>5-20A[△]</p>

CONTACT BETHLEHEM

1	2	3
171°		
171°	219° contact rx	
175°		
199A°	250°	
211A° (may be a dilce)	279°(?)	
216°	277° ^Δ	
217°	291° ^Δ	
223° ^Δ		4-19
243° ^Δ		5-19
248° ^Δ 246° ^Δ		5-22
249° ^Δ 247° ^Δ		
251° ^Δ		5-24
252C° ^Δ (Bethsaida?)		

Gump LAKE

1	2	3
		304
		309A
		310

4-10

6-2

~~6-2~~

6-4

6	Gump
19	Beth
	Chat
21	Beth
25	Dikeo
33	Chat
	Lakey
15	Hybrid
6	Gump
43	Gump
23	contact
	Beth
29	Beths
214	

cut here if necessary

HYBRID

1	2	3
<p> 97A* 91* ✓ 101* ✓ 102* ✓ 195° 234A. ♣ 234B. ♣ 236. ♣ </p>	<p>249° (NOT cut)</p>	<p> 115 115 264° 273° 298. ♣ 303A. ♣ 311. ♣ </p>

CHATAWAY

1	2	3	
14 ✓		137* ✓ 179A*	
190°	217° ✓ (Bethlehem?)	186*	
		350°	
		277 ^Δ	
	306°	284 ^Δ	5-10 ^Δ
	313°	307 ^Δ	5-18 ^Δ
		312 ^Δ	
		315 ^Δ	
		321 ^Δ	

1	LEROY (?) ₂ 3		
	270 ^Δ		4-12 ^Δ
	272 ^Δ		4-15 ^Δ
	275 ^Δ		4-94 ^Δ
	301 ^Δ	274 ^Δ	
	318 ^Δ	318 ^Δ	
234C°	296 ^Δ		
	298 ^Δ		
	300 ^Δ		
	302 ^Δ		
	314A ^Δ		

D1

1-245C^Δ1-166D^Δ2-222^Δ $\frac{2}{2} = \frac{224}{243}$ ^Δ2-290^Δ~~2-299^Δ~~2-241^Δ

D2

2-91[✓] 4-20^Δ

3-131

1-158^Δ3-299^Δ

D3

3-85

1-39C

1-68

1-126^Δ

D4

D5

D6

1-156^Δ

1-21

D7

D8

D9

1-252^Δ

1-21

1-27

D10

D11

D12

1-229^Δ1-230^Δ1-127^Δ

D13

1-175A

BETH - CHAT

1	2	3
120°*	191* ✓ 193° not cut * 195 not cut	184*
120A.*	210 ✓	189* 280A △ 75
	293 △	

GUICH - CHAT

		195 ◻
		196 ◻
		197A ◻
	207° ✓	210 ◻
		281
	217A ◻ hybrid ?	tl

BETH - GUICH

192°	242 △	
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Done by: L. Shephard on stained slabs. ①

Inclusions are punched as the host
 i quartz in hornblende punch hornblende
 all plotted unknown + accessory

area
 samples
 WM 69-

	NO	K-SPAR	PLAG	MAFICS	QUARTZ	METALIC	W. A/C	u/k 4	COUNT
10d	2-44	105	418	147	119	11	—	—	800
11	716	48-9.6	268-53.6	43-8.6	133-26.6	3-.6	5-1.0	—	500
12	24-	45-9%	253-50.6	73-14.6	122-24.4	7-1.4	—	—	500
<p>← 23 OF 73 are on large h6 xis ∴ large xis 4.6% Matrix xis 10.0%</p>									
13	23-	30-6.0	301-60.2	55-11.0	106-21.2	7-1.4	1-.2	—	500
14	69-5	37-7.4	284-56.8	56-11.2	111-22.2	10-2.0	2-.4	—	500
15	69-21	66-13.2	245-49.0	78-15.6	102-20.4	7-1.4	2-.4	—	500
16	69-22	46-9.2	313-62.6	36-7.2	97-19.4	7-1.4	1-.2	—	500
17	69-22-2	24-4.8	329-65.8	54-10.8	82-16.4	9-1.8	2-.4	—	500
18	17	47-9.4	281-56.2	42-8.4	125-25.0	5-1.0	—	—	500
19	2-302	61-12.2	269-53.8	54-10.8	107-21.4	7-1.4	2-.4	—	500
20	3-321	73-14.6	259-51.8	72-14.4	85-17.0	8-1.6	3-.6	—	500
21	2-306	48-9.6	253-50.6	66-13.2	124-24.8	7-1.4	2-.4	—	500
22	4-15M	105-21.0	219-43.8	56-11.2	117-23.4	3-.6	—	—	500
23	25	44-8.8	303-60.6	36-7.2	111-22.2	5-1.0	1-.2	—	500
24	* 21	36-7.2	295-59.0	64-12.8	95-19.0	9-1.8	1-.2	—	500
25	* 67	54-10.8	254-50.8	42-8.4	141-28.2	8-1.6	1-.2	—	500
26	* 69-11	55-11.0	284-56.8	39-7.8	114-22.8	7-1.4	1-.2	—	500
27	* 69-13	63-12.6	286-57.2	15-3.0	129-25.8	5-1.0	2-.4	—	500
28	* 68	67-13.4	235-47.0	28-5.6	162-32.4	7-1.4	1-.2	—	500
29	* 14	66-13.2	290-58.0	18-3.6	121-24.2	5-1.0	—	—	500
30	* 20	27-5.4	292-58.4	66-13.2	107-21.4	8-1.6	—	—	500
31	* 12	48-9.6	297-59.4	16-3.2	136-27.2	3-.6	—	—	500
32	7f + 90 6?	18-3.6	282-56.4	79-15.8	114-22.8	7-1.4	—	—	500
33	69-15	46-9.2	191-38.2	47-8.4	211-42.2	9-1.8	—	—	500

LARGE SCALE (6 porphyry) probably 9
 9 Guichon

1-190 ✓

Diffractometer

run gave 3% gtz

all plotted

SAMPLE No.	K-Sp	PLAG	MAFICS	QUARTZ	METALIC	OTHER	COUNT
6h-3-350	42-8.4	258-51.6	61-12.2	22-22.4	17-3.4		500
LARGE CRYSTALS ONLY							
7e-1-245		371-74.2	21-4.2	103-20.6	5-1		500
SMALL CRYSTALS							
7e-1-245	PHENO XT					GROUND MASS	
	216-43.2	69-13.8	37-7.4	17-3.4	4-.8	157-31.4	500
PLAG + QUARTZ							
6h-1-190		531-	148-29.6		21-4.2		500
7e-1-251	49-9.8	264-52.8	50-10.	132-26.4	4-.8	1-.2	500
7e-3-307	46-9.2	246-49.2	62-12.4	143-28.6	3-.6		500
6g-3-210	16-3.2	211-42.2	126-25.2	135-27	10-2	2-.4	500
6h-3-257	10-2	242-48.4	54-10.8	190-38	4-8		500
7e-3-170	16-3.2	211-42.2	106-21.2	138-27.6	29-5.8		500
7f-3-306	42-8.4	239-47.8	62-12.4	147-29.4	10-2		500
6h-1-171	35-7.	300-60.	40-8.	121-24.2	4-.8		500
7e-5-10	37-7.4	244-48.8	49-9.8	159-31.8	6-1.2		500
rod-3-31	76-15.2	221-44.2	84-16.8	112-22.4	7-1.4		500

all plotted

SAMPLE NO	K-SPAR	PLAG	MAFICS	QUARTZ	METALIC	OTHER	COUNT
Te-5-18	63-12.6	280-56	84-16.8	69-13.8	4 .8		500 ✓
10d 2-173	29-5.8	267-53.4	85-17	106-21.2	13-2.6		500 ✓
10d 6h-1-199A	93-18.6	233-46.6	30-6	136-27.2	8-1.6		500 ✓
7f 2-300	98-19.6	244-48.8	34-6.8	120-24	4 .8		500 ✓
7f 6h-3-236	69-13.8	²⁴² 48 -48.4	94-18.8	83 16.6	12-2.4		500 ✓
Te-3-315	59-11.8	287-57.4	56-11.2	91-18.2	7-1.4		500 ✓
Te-5-20A	45-9	298-59.6	39-7.8	110-22	8-1.6		500 ✓
Te-1-134	41-8.2	300-60	79-15.8	75-15	5 1.		500 ✓
Locations to Here Plotted Feb '72							
11a-1-78	49-9.8	291-58.2	43-8.6	112-22.4	5-1		500 ✓
11a-1-74	37-7.4	329-65.8	51-10.2	75-15	8 1.6		500 ✓
11a-2-199 -1	43-8.6	244-48.8	78-15.6	130-26	5-1		500 ✓
11a-3-136	45-9.0	305-61	23-4.6	124-24.8	3 .6		500 ✓
11a-1-108	50-10	313-62.6	40-8	92-18.4	5 .10		500 ✓
11a-2-199	41-8.2	259-51.8	82-16.4	112-22.4	6 1.2		500 ✓

(4)

all plotted

SAMPLE NO	K-SPAR	PLAG	MAFICS	QUARTZ	METALIC	OTHER	COUNT
11a-1-76	7-1.4	341-68.2	47-9.4	100-20.	5-1.		500
3-132	69-13.8	270-54.	53-10.6	105-21.	3-.6		500
11a-1-109	65-13.	278-55.6	30-6.	121-24.2	6-1.2		500
11a-4-107	38-7.6	325-65.	38-7.6	90-18.	9-1.8		500
11a-3-134	47-9.4	278-55.6	36-7.2	134-26.8	5-1.		500
7e-4-18	47-9.4	265-53.	40-8.	141-28.2	7-1.4		500
7e-4-18A	8-1.6	292-58.4	32-6.4	159-31.8	10-2.		500
6h W.M 69-10A	117 117 23.4	188-37.6	43-8.6	147-29.4	5-1.		500
11a W.M 152	142-28.4	167-33.4	56-11.2	128-25.6	7-1.4		500
10d-1-2	32-6.4	64-12.8	87-17.4	107-21.4	10-2.		500
10d-1-28	69-13.8	244-48.8	91-18.2	91-18.2	5-1.		500 ✓
10d-1-56	78-15.6	234-46.8	108-21.6	70-14.	10-2.		500
10d-2-10	57-11.4	293-58.6	98-19.6	46-9.2	6-1.2		500 ✓
10d-1-59	83-16.6	242-48.4	79-15.8	93-18.6	3-.6		500
10d-3-89	83-16.6	294-49.6	99-19.8	59-11.8	11-2.2		500

NT

all plotted

	SAMPLE NO	K-SPAR	PLAG	MAFICS	QUARTZ	METALIC	OTHER	COUNT
10d	2-36	57-11.4	256-51.2	88-17.6	90-18.	9-1.8		500 ✓
10d	3-78	2	.4 349-69.8	117-23.4	14-2.8	18-3.6		500
10d	3-101	86-17.2	260-52.	87-17.4	60-12.	7-1.4		500 ✓
10d 10a	3-120	47-9.4	301-60.2	106-21.2	34-6.8	12-2.4		500 ✓
10d	2-63	28-5.6	320-64	94-18.8	50-10.	8-1.6		500 ✓
10d	3-127	54-10.8	288-57.6	84-16.8	63-12.6	11-2.2		500 ✓
6h	2-262	12-2.4	299-59.8	25-5.	160-32.	4-.8		500 ✓
7e	2-260	20-4.	276-55.2	41-8.2	156-31.2	7-1.4		500 ✓
6a	-6-9	20-4.	260-52.	111-22.2	105-21.	4-.8		500
6a	1-285	19-3.8	330-66.	24-4.8	120-24.	7-1.4		500 ✓
6a	1-290	68-13.6	290-58.	17-3.4	124-24.8	1-.2		500 ✓
6a	6-6	33-6.6	292-58.4	103-20.6	62-12.4	12-2.4		500 ✓
6a	3-332	54-10.8	250-50.	85-17	105-21.	6-1.2		500 ✓
6a	4-41	14-2.8	296-59.2	120-24.	70-14	-		500 ✓
6a	3-331	34-6.8	297-59.4	82-16.4	78-15.6	9-1.8		500 ✓

all plotted

104-3-36	25.11.4 330-213 RR 150 90-18 P-1.8
104-3-38	4.344 100 11.300 14.300 18-3.8
109-3-101	80.175 300-258 17.4 60-15.7-1.4
104-3-120	H7-P4 301-100 100 25.20-6.8 12-3.4
104-3-123	38.214 330-14 24 180 20-10.8 1.4
109-3-127	34.108 300-214 94-118 63-14.2 11-3.3
104-3-128	12.344 200 25.2 110-33.4-8
104-3-130	4.314 330 11-33 102-31.4-8
104-3-132	10.318 10-318 330-14.24 48 150-24.7-1.4
104-3-134	18.135 200 25.2 11-33 102-31.4-8

3-326 - Small amount of ^{Chalcopyrite} ~~(Chalcopyrite)~~

104-3-135	24.108 330-20 25.17 102-31.6-1.3
104-3-136	11.318 200 25.2 11-33 102-31.4-8
104-3-137	24.108 330-20 25.17 102-31.6-1.3

all platted

MS

	SAMPLE NO.	K-SPAR	PLAG.	MAFICS	QUARTZ	METALIC	OTHER	COUNT
ba	3-3 4 ⁵⁴	43- 8.6	296-59.2	85-17	69-13.8	7-1.4		500 ✓
ba	-6-5	40- 8.0	274-54.8	102-20.4	82-16.4	2- .4		500 ✓
ba	-1-283	4- .8	330-66.	103-20.6	63-12.6	-		500 ✓
ba.	3-352	9- 1.8	339-67.8	60-12.	89-17.8	3- .6		500 ✓
ba	3-330	37- 7.4	277-55.4	92-18.4	91-18.2	3- .6		500 ✓
ba	-6-7	42- 8.4	307-61.4	56-11.2	91-18.2	4- .8		500 ✓
ba	3-338	19- 3.8	308-61.6	103-20.6	69-13.8	1- .2		500 ✓
ba	-4-43-15	3.0	296-59.2	157-31.4	29- 5.8	3- .6		500 ✓
ba	3-340	22- 4.4	265-53.	111-22.2	90-18.	12-2.4		500 ✓
7d	3-324	42- 8.4	305-61.	69-13.8	79-15.8	5- 1.		500 ✓
ba	-4-43	-	313-62.6	146-29.2	34- 6.8	7- 1.4		500 ✓
6h	3-326	45- 9.	280-56.	55- 11.	114-22.8	6- 1.2		500 ✓
7d	3-324	49- 9.8	268-53.6	60-12.	118-23.6	5- 1.		500 ✓
	3-326-1							
6a	-1-288	67-13.4	291-56.2	27-5.4	122-24.4	3- .6		500 ✓
v6a	5-27	65-13.	264-52.8	23-2.6	142-28.4	6- 1.2		500 ✓
7d	3-328	68-13.6	266-53.2	52-10.4	109-21.8	5- 1.		500 ✓

plotted

SAMPLE NO	K-SPAR	PLAG	MAFICS	QUARTZ	METAL	OTHER	COUNT
11b-7-62	18-3.6	282-56.4	125-25.	70-14.	5-1.		500
10d-7-68	55-11.	291-58.2	194-38.8	46-9.2	14-2.8		500
10d-7-66-1	16-3.2	236-57.2	181-36.2	56-11.2	11-2.2		500
10d-7-73	68-13.6	277-55.4	52-10.4	94-18.8	9-1.8		500
10d-7-71	59-11.8	266-53.2	98-19.6	67-13.4	10-2.		500
10d-7-70	12-2.4	322-64.4	131-26.2	25-5.	10-2.		500
10d-7-72	—	177-70.8	51-20.4	5-2.	17-6.8		250
6a-4-42	3-.6	304-60.8	110-22.	43-8.6	8-1.6	EPIDOT 32-6.4	500
10d-3-115	—	277-55.4	180-36.	31-6.2	12-2.4		500
6a-4-39	—	348-69.4	95-19.	52-10.4	5-1.		500
10d-2-189	14-2.8	306-61.2	93-18.6	83-16.6	4-.8		500
10d-7-69	46-9.2	338-67.6	46-9.2	55-11.	15-3.		500
6a-2-324	32-6.4	295-59.	71-14.2	97-19.4	5-1.		500
6h-2-326	62-12.4	268-53.8	50-10.	115-23.	5-1.		500
6h-2-326-1	56-11.2	278-55.6	40-8.	122-24.4	4-.8		500

	SAMPLE N ^o	K-SAR	PLAG	MAFICS	QUARTZ	METAL	OTHER	COUNT
	7e-1-254 4,11 ✓	66 13.2	258 51.6	20 4.	151 30.2	5 1.		500
10d	7-66 ✓	26 5.2	302 60.4	87 17.4	65 13.	20 4.		500
	11a-1-73 ✓	18 3.6	307 61.4	36 7.2	134 26.8	5 1.		500
10d	1-28-S ✓	44 88.	282 56.4	69 13.8	96 19.2	9 1.8		500