

Rock Sample Record Sheets

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to Accompany

GEOLOGICAL, GEOCHEMICAL, GEOPHYSICAL
AND DIAMOND DRILLING REPORT

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ACTION:	
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UNUK, COUL, ICEY, BOU, KNIP AND IRV CLAIM GROUPS

UNUK RIVER AREA

SKEENA MINING DIVISION
NTS 104 B/9 AND 104 B/10

Held under option by:

GRANGES INC.
2300-885 WEST GEORGIA STREET
VANCOUVER, B.C.
V6C 3E8

GEOLOGICAL BRANCH
ASSESSMENT REPORT

19,675

February 7, 1990

B.E. GABOURY
(E.J. SEAGEL)

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
R/5/3	Δ0+700m	"Aerial Fe stained cliffs"	o/c Samples taken in strongly graphitic, unconsolidated soft spongy qtz within shear/-faulted zone,								
R/5/4	Δ0+700		" " " " " "								
R/5/5	Δ0+1500m		cf R/5/1 → strongly graphitic								
R/6/1	10+00m		o/c + talus dacitic to andesite, weak foliation, Fe stain, 1% py								
R/6/2	15+00		o/c; massive dacite/andesite, locally feld. phyrlic								
R/6/3	15+63		Talus, dacitic tuff (from cliffs), 3-5% py.								
R/6/4	?										
R/9/1	1+75s	~10m E. of creek	graphitic argillite, 10-20% Qtz. st. kwk, 1-3% py, Tr. py								
R/9/2	5+75s		Graph. argillite, Tr. py, minor Qtz vnlts								
R/9/3	6+55s		f.g. feldspathic dacite tuff, to lapilli tuff, 3-5% py								
R/9/4	9+10s		Graph. argillite, locally silicified + brecciated 2-5% py								
R/9/5	9+50	15m. W.	Cliffs: f.g. dacite locally banded Rhyolite, 5-10% py, brx								
R/9/6			Graph. argillite, slaty, 1-3% py in thin vnlts.								
DBR-1	300m E of TR17	6+00	Slivery gouge, gossan zone								
DBR-2	"	"	o/c veinlets 1-2% py, lim.								

St 1

St 1

St 1

shipment 2

Traverse **312** Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
R-12-1	0+00		Sandstone/siltstone, laminated, w 3-5% py blebs in st								
R-12-2											
R-8-1	Δ0+100m		Float rock sample of qtz-carb vein material within a mid grey andesitic tuff								
R-8-2	Δ0+620		Float sample of fresh, unaltered mid grey, glassy dark i diss pyrite.								
R-8-3	Δ0+700		Float sample of dk grey andesitic tuff, some lithic (lapilli) clasts, cut by anastomosing pyrite-qtz veinlets to 3mm.								
R-8-4	Δ0+800		Float boulder of 'gritty' mid grey andesitic tuff with qtz carb veins rimmed by a black sub-metallic mineral with a conchoidal fracture. Boulder has tectonic brecciation and cementation by carbonate								
R-8-5	Δ0+850		Float sample of mid grey dark i pyrite stringers + disseminations 5-10%								
R-8-6	Δ0+860		Outcrop sample of mid grey, brecciated, andesitic tuff, 1-2% diss pyrite. Carbonate cementation. From bounding sur face of shear								

sh 1.

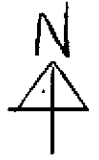
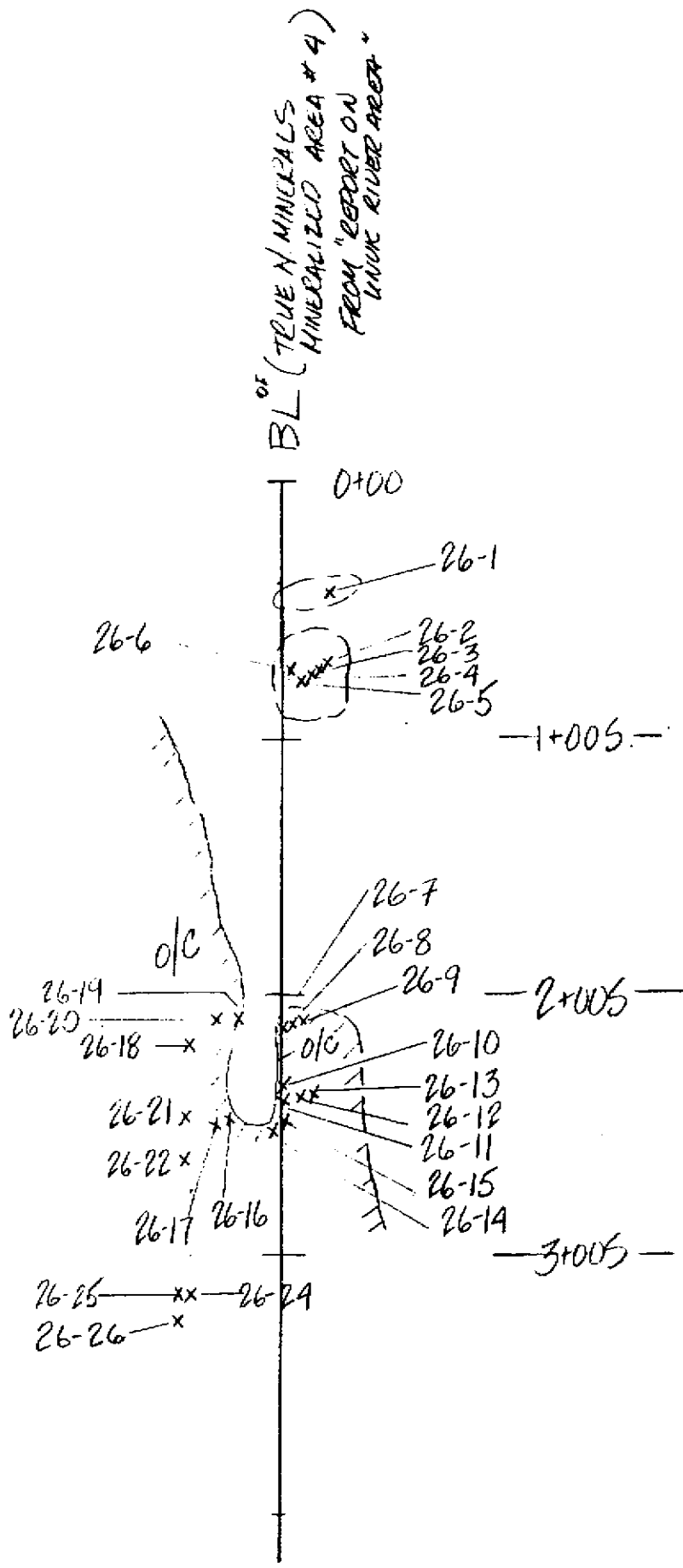
Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
R-21-1	110m at	Az 300 from A	brecciated dacite w 1-2% diss. py; qtz carb siltstns		1.4				90	
R-21-2	180m at	Az 300 from A	lithic arkose w qtz-carb siltstns						120	
R-21-3	20m at	Az 330 from R-21-2	lithic arkose/tectonic bx; qtz-carb, 1-3% py		1.4					
R-21-4	150m at	Az 280 from R-21-3	black brecciated siltstone w 3-5% py, gal (+tetrah?) float	165	404		927 ⁸¹⁷²		165	
R-21-5	~ 10 m	Az 360 from R-21-4	black brecciated siltstone w 1-3% py, silicif.	355					455	
R-21-6	~ 10 m	Az 340 from R-21-4	black brecciated siltstone w 1-3% py, silicif.		1.2				130	
R-21-7	~ 10m	"	"							
R-24-1	~ 2960ft.		Strongly foliated (sheared?) graphitic argillite with ribbon quartz and vuggy quartz cavities		1.0					

TRAV. 26 (SAMPLING.)

Rock Sample Record Sheet

Sample No.	Location SEEMAD 1:2500	Description CHIP-QUARTZ SAMPLING. ACROSS STRIKE	(m) SA. LENGTH	Geochem.					
				Au	Ag	Cu	Zn	Pb	As
R-26-1		Silicified argillite 1% py	0.7		.8				
R-26-2		"cherty" siltstone, silicified 2-3% f.g. py	1.3	110	1.8				
R-26-3		" argillite 2-3% py	1.0		.8				
R-26-4		Sheared argillite - 4-5% diss py	1.5	220	5.8		341		95
R-26-5		Sheared silic'd argillite 3-4% py	1.3	455	1.2				
R-26-6		Silty argillite 3% py	1.7		1.2				
R-26-7		Sheared siltstone 1-2% very fine py			4.2				95
R-26-8		moderately sheared argillite with 8" QV, diss py			1.6				
R-26-9		grab 80% quartz 4-5% diss py minor blebs			1.6				
R-26-10		Quartz Vein 30%/70% Sheared Arg. 1% py ^{in sh argillite}	1.0		1.2				
R-26-11		Quartz Vein, 10% Arg. 2-3% pyrite a large euhedral/cubus	1.0						
R-26-12		Sheared arg. 1% fine diss. py.	1.3		2.0				
R-26-13		Sheared siltstone with 1% py 10% quartz veins	1.0		1.6				65
R-26-14		sheared siltstone with 20-25% Quartz Veins 1-2% py	0.75		2.4				
R-26-15		25 R-26-14	0.75		2.2				
R-26-16		sheared argillite 1% diss fine py, folded Q. Vein 10"	2.0						
R-26-17		Sheared argillite, 2% diss fine py, minor qtz veining	2.0		1.4				50
R-26-18		sheared strongly silic'd siltstone "cherty" 3-4% py	1.7						
R-26-19		Sheared argillite, 1% py	1.6		1.4				50
R-26-20		sheared siltstone, minor Q. Veins 3-4% py	1.3		1.0				
R-26-21		Sheared siltstone 2-3% py	3.0		1.0				
R-26-22		Quartz (Carbonate minor) trace py ^{vein}	1.8						
R-26-23		strongly silic'd siltstone 2% py							
R-26-24		sheared argillite 2-3% py	1.5	80	1.2				
R-26-25		" "	1.5		1.6				
R-26-26		banded rhyolite (folded) gossamer in blebs, 1-3% py Quartz stockwork in silic. turf, poorly laminated 1-3% py	1.0						



CHANNEL SAMPLING
LOCATION MAP
Scale 1:2500
JULY 14, 1989

x Channel sample location.

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.					
			Au	Ag	Cu	Zn	Pb	As
R/30/1	- The following samples are taken on TRAV 32 between the Datum and 40+50m	O/C sample, composite chip, taken below toe in site (40). Highly & stained interbedded argillites / greywackes and andesite tuffs. Pyrite predominantly along fracture planes / joints. Bedding overturned steeply to east.						
R/30/2	≈ 40+50m	1-5 ^m dist Pyrite laminated siltstones within 1 1/2 m wide shear zone trending 028°, dip > 80° West.						
R/30/3	Adjacent to, along dyke & 15m west of spur.	1 1/2 m wide shear in siltstones (cont of above shear!). Near massive sphalerite, galena, minor pyrite. 15cm fault gorge.						
R/30/4	7m east of 30/3	'as above' no visible sphalerite						
R/30/5	R/30/5 to R/30/8 are from a hand dug trench,	- Area of mineralisation exposed ≈ 4m x 1.5m - Bedding orientation consistent with local bedding → stratiform.						
R/30/6	10m N.W of 40. Trenching uncovered	- Strike 040° Dip 20° West - Best mineralisation confined to base of upper unit ≈ 15cm wide. Strongly carbonate altered ≈ 60% of volume. Contains massive galena + pyrite. R/30/8 trace chalco.						
R/30/7	galena rich, strongly carb							
R/30/8	altered siltstones - argillites	- Lower unit is host pelite with extensive carbonate veins ≈ 40% of volume. v.f.g. galena + pyrite. (See Notebook sketch)						

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.						
			Au	Ag	Cu	Zn	Pb	As	
33 Series	Zone 2 Cliff Top End	* All samples below are rhyo-dacite in composition* unless stated otherwise.	2770						
	-Refer to grid plan for locations								
R/33/1		Samples taken near anchor points above cliff scarping area, 20-30cm wide fractures, silicified & brecciated dacite	270	54.4	622	492	1710		
R/33/2			180	27.8			165		
R/33/3		Strongly brecciated sample (dacite) containing up to 30% pyrite, 40cm wide fracture zone	180	4.8			235		
R/33/4		Highly silicified, brecciated & pyritic fracture, 30cm wide fracture, Dacite.	310	7.8			190		
R/33/5		'as above'	478	9.2	421		210		
R/33/6		'as above' same fracture thins to 15cm	180	27.8	6619	1432	230		
R/33/7		'as above'	215	37.2	323	492	300		
R/33/8		Sample taken along 15m of poorly mineralised massive rhyodacite		19.0	3318	292	245		
R/33/9		'as above' minor pyrite-silica zones sampled	260		950	314	215		
R/33/10		Samples of altered, pyritic massive dacite, paddy distribution along thin, short fractures	120	18.6	253	206	175		

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.						
			Au	Ag	Cu	Zn	Pb	As	Sb
R/33/11		'as above' minor brecciated "fracture fill" with a pyrite matrix, (On lower bluffs)		188				110	60
R/33/12		'Paddy' pyrite rich zones within massive rhyolites		7.0				70	
R/33/13		'Paddy' brecciated pyrite rich dacite from splays at the end of a large fracture.		6.4		108		135	
R/33/14		Highly brecciated & silicified pyrite dacite within 2m wide zone of mineralisation.		4.0				75	
R/33/15		'as above'		4.6				95	
R/33/16		'as above' from smaller 60cm fracture zone		6.0				105	
R/33/17		'as above'		3.4				65	
R/33/18		Highly silicified, poorly mineralised sample taken primarily from the volcanic unit, but also includes some argillite/debris flow.		2.2				55	
R/33/19		Small, isolated, highly fractured, silicified dacite "pod".		5.2				75	255 ^{Sb}
R/33/20		Sample taken from 30-40cm wide brecciated fracture zone 5-10% Pyrite.							

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As	Cd	
R-34-1	zone 1		near massive py in silicified tuff	200	254					240	
R-34-2			fg. sltst interbedded in grey wacke/sst .5 E of fault gouge/shear zone insst with mild silicification + trace ~ 1% marcasite fracture coating			100				245	
R-34-3	300m W of	S-34-3 UNB3	bx ± 3% py & trace gal - float	130	184	55	777	900		286	
R-34-4	20m W of	R-34-3.	Encke in ocr just above a feldsp-angite dike. At least 10m wd. No structure avail. Abundant carb, blk. a. py frags. matrix mainly carb & silica sph (2-5%) and gal (<1%) trace chalcopy.	340	500	275	377	500		355	
						↑				165	
						710000					

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
R/36A/8	Δ0+40	N	'as above' veinlets trending 260°								
R/36A/9	Δ0+45	N	'as above'								
	(4m up cliff)										
R/36A/10	Δ0+10	N	Silicified andesitic lapilli tuff, f.g. pyrite along min fractures. Veinlets trending 300°								
	(4m up cliff)										
R/36A/11	Δ0+20	S	Brecciated argillite reheated by ^{Fe} carb + pyrite to 10% (diss + locally massive)						350		
R/36A/12	Δ0+22	S	'as above'						280		
R/36A/13	Δ0+29	S	Highly silicified, extensive qtz veining, strongly pyritic brecciated andesitic lithic tuff. 40-50cm wide carbonate vein (breccia filled) strike 050°						1410		
									50		
R/36A/14	Δ0+31	S	'as above' carb-qtz vein noted above strongly pyritic in sections - 30% 1% Galena noted in silicified tuff						510		
R/36A/15	Δ0+35	S	'as above' strong qtz vein developed, thin 20cm crush zone.						1120		

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
R/36A/16	AO+40S		Near massive pyrite associated with silicified & carbonated andesitic lapilli ash flows.	700						
R/36A/17	AO+45S		Fe stained, brecciated Qtz vein, poorly mineralised	840						
R/36A/18	AO+47S		3m up cliff, 25cm wide fracture. Strongly pyritic (upto 50%) & silicified. minor carb.	1420						
R/36A/19	AO+75S		No description available	530						
R/36A/20	AO+80S		Silicified & Pyritic debris turf adjacent to 30cm wide carbonate vein. 4m up cliff face	260						
R/36A/21	AO+90S		Silicified footwall sediments with pyrite stockworks (3m)	720						
R/36A/22	AO+110S		2cm x 30cm lensoidal fracture thinning at each end. Silicification of wall rock. Pyritisation within fracture.	580						
R/36A/23	AO+320N		Strongly silicified & pyritic andesitic ash flow, 40-60cm wide fracture. Strong wall rock alteration. Strong	2330						
R/36A/24		Samples taken at intervals of 2m up fracture in cliff	Qtz development, minor carb.	3690						
R/36A/25				3720						
				620						
R/36A/26	AO+340N		Moderately altered andesitic ash flow associated with trench like fracture. Poorly pyritic	600						
				570						
R/36A/27	AO+380N		3.0m wide true wide alteration zone. Strong silicification and Qtz development. Strong local pyrite content 20-30%. Generally 5%	740						

TRAN 38

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
R-38-1		4840'	qtz-carb vein in sheared cgl; up to 5% py								
R-38-2		4800'	qtz-carb vein in cgl, tr py, tr spy; shring, Az 7/1/83								
R-38-3		4785'	qtz-carb veining (axed intermed volc) up to 1% cpy								
R-38-4	30m along strike from R-38-3		qtz-carb vein in shear, ≥ 1% cpy, tr gal, tet; VG?								
R-38-5			brecciated fault, calcite vms, Qtz stgs, Tr py								
R-38-6	near stream		that drains lake; qtz-carb blow-out, sheared cgl, tr-1% cpy.								
R-38-7			5-10% py; tr gal, shred cgl → Az 350/90pE								
R-38-8			shred Andes (Az 340/75SE), lapilli tuffs; qtz carb w tr gal, cpy								
R-38-9			shred graph arg, 3-5% py shring 3-4m wide, Az 070								
R-38-10			dacitic tuff w 5% py & tr-1% aspy, trend Az 290/rot								
R-38-11			dacitic "gneissic, lentic" tuff w bxd secs; up to 20% py.								
R-38-12			same as R-38-11 but more bxd & silicified.								
R-38-13			bxd silicif tuff; 10-15% py; abundant qtz stks.								
R-38-14			Rhyodacite bx; 15-20% py (similar to Zone 1)								
R-38-15			bxd, silicif. felsic tuff w 5-10% py (stgs & dis)								
R-38-16			bxd, silicif tuff up to 20% py, possible tr aspy.								
R-38-17			tectonized debris flow, 1% py in matrix								
R-38-18	small isolated gossan.		silicif. bx w 10-15% py as stgs & dissem, ^{gossan =} 1m x 2m.								
R-38-19			shred debris flow, up to 15% py as 1-3cm wide stgs, possible								
R-38-20			more shred debris flow, up to 20% py, shear is 15-20m wide.								
R-38-21			same as R-38-20								
R-38-22	~10m N of R-38-21		5-10% py as dissem & stgs.								

AP-Zone

Zone 1 Grid, N. Extension

Rock Sample Record Sheet

D. Gaboury

Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
R-40-1	380N	595 W	Sheared dacite, 10% py, 1-3% gal, Tr	510						
R-40-2	290N	650 W	Sheared dacite tuff, 10% py, 1-3% gal, Tr cpy	100						
R-40-3	250N	575 W	Silicified, is sheared dacite tuff, 10-15% py, 1% gal,		1.6			1674	60	
R-40-4	263N	490 W	carb. breccia vein, blebs of mass py, 3-5% gal.	55.2	971				85	
R-40-5	710 W	235 N	near massive Gal, py, sphal in carb healed brx + Chalco					195		
R-40-6	163N	576 W	near massive gal, py, trace sphal and Chalco, in diabase dyke	24.0	1293			105		
R-40-7	163N	562 W	near massive gal, py, trace sphal and Chalco, in diabase dyke	7.0				225		
R-40-8	125N	560 W	10-20 cm wide Fe-carb vn, in 1m. wide fault, 10-20% py, Tr sphal, 1-2% gal	40	58					
R-40-9	180N	750 W	10-15% diss py in silic., sheared dac. tuff	330						
R-40-10	~50N	700 W	rubbly, limonitic gouge, 1m. wide shear, 10-15% py stwk,	330						
R-40-11	050N	645 W	well silic., foliated tuff, 3-5% py, diss + blebs, Tr gal	59						
R-40-12			sheared, silicified lithic tuff, py stwk, 3-5% gal,	60	41	920	6629	11221	357	
R-40-13			Silicified, weakly sheared tuff, irreg 1-5cm py vein, 1-3% gal, sph	90	4.9		3604	5387	620	
R-40-14			brecciated fault, carb-healed, 3-5% py, Tr gal, tr.	280			326	1066	197	
R-40-15			diabase dyke, weakly silicified contact zone, 1-3% py					238	129	
R-40-16			mylonitized debris flow, weakly silic., up to 15% py	230	6.9				167	
R-40-17	2400N	7450 W	silicified debris flow w 5-10% py (blebs + diss) & 5-10% asp, Tr gal	2100	6.9	206	2928	331	2952	
R-40-18	1475 N	7460 W	" " " " " " " " " "	1280	9.0		7352	3756	15288	
R-40-17	255 N	575 W	Strongly silicified lithic (garnitic) tuff, 10-15% py, Tr gal	730	2.9		667	7210	17	
R-40-18	270 N	650 W	near massive sphal. + gal, 1-2% cpy, 5-10% py	110	93.4	6362		1122	214	
R-40-19	270 N	649 W	well silicified, brecciated lithic tuff, 5-10% py, 1-2% cpy							
R-40-20	335 N	571 W	silicified tuff with py stwk, Tr Arseno,		1.9				80	
R-40-21	332 N	568 W	Strongly silicified tuff, 5-10% py, Tr Arseno.				569		51	
R-40-22			Silicified, brecciated debris flow, 5-10% py, Tr - 1% gal.	290	15.7	113	542	1122	329	
R-40-23			mylonitic shear, debris flow, sec. alt, 5% py, 1-2% gal, Tr cpy	220	6.3	24	4154	2713	304	
R-40-24			silicified, sec. lithic tuff, 5-10% py stwk + diss.	280						

assay
R-40-17
R-40-18

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.					
				Au	Ag	Cu	Zn	Pb	As
R-40-25	AP 1342N	916E	Carb vein + brecciated andesite Tuff, 10-15% py, 5% gal, Tr & As	3120	70.9	353	14166	1977	7568
zone 1 R	912N	390W	Sheared, strongly weathered debris flow, 10-20% diss py + blebs						
<u>AP zone</u>									
R-40-26			Rusty Carb. vein, with 3-5% diss. py, minor stringers	3.9			6288	224	75
R-40-27			Rusty carb. vein, 3-5% py, diss. + stringers	90			6083	204	312
R-40-28			Rusty carb vein, w. silicified tuff brk. frags 3-5% py, Qtz stnk.				4277	1971	244
R-40-29			Rusty carbon, as above, w 1cm py in, minor py blebs, 1-2% gal	140			1474	1441	308
R-40-30			Carbon. with 10cm massive py in, + patches + blebs gal upto 10%				1474	1441	308
R-40-31			Strongly sheared debris flow, seric. alt, 3-5% diss. py	200	88.8	204	6631	2209	156
R-40-32			Sheared, weakly silic. debris flow, seric. chlorite, 5% py						
R-40-33			Silicified dacitic ash-st tuff, ~5% py, diss. cubes	130	2.1		372	1392	24
R-40-34			Silicified, sheared debris flow, 3-5% py blebs in matrix	120					
R-40-35					1.1		175	658	
R-40-36			Sheared lithic tuff, seric. alt, silicified, 3-5% py				277		
R-40-37			Weakly sheared lithic tuff, 5% py, diss. blebs + stnk						
R-40-38			Weakly sheared lithic tuff, 3-5% py, possible Tr Arsen.						

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.					
			Au	Ag	Cu	Zn	Pb	As
<u>TRAV 60</u>								
R/60/1	Δ0 + 000	Qtz-carb vein material from within argillites						
R/60/2	Δ0 + 50m	Sample taken from 10cm wide vein (qtz, Hg, py) within 3m wide shear.						
R/60/3	Δ0 + 50m	Same exposure. Altered host greywackes within shear.						
R/60/4	Δ0 + 70m	1m wide zone of brecciated & silicified greywacke ↳ 2-3% coarse silvery pyrite (arsenid??)						
R/60/5	Δ0 + 250m	8m wide zone of silicification & Qtz development Qtz & minor carbonate filled tension fractures.						
R/60/6	Δ0 + 500m	Recrystallised sugary qtz - Fe carb filling fractures in greywackes / argillites. Vein 0.30m wide						
<u>TRAV 61</u>								
R/61/1	Δ0 + 80m	Strong milky white qtz developed within polymictic conglomerate. Weakly anomalous values obtain previously						
R/61/2	Δ0 80-100m	Mineralised fracture within pebble conglomerate, qtz-carb-pyrite 10%						

TRAV 62 Bou Claims (Bou 3)

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
R-62-1	bluffs at 6340'		matrix supported ^{shred} dacitic bx w hbde-rich matrix, +10% py								
R-62-2	6180'		bbde phyric andes w 5% po (± py) as dissems or in qtz veins								
R-62-3	6240'	50m at A2020 from R62-2	; shred andes w 5-10% po (± py)								
R-62-4	6290'	25m N of R-62-3	; massive wfg gray dior. w ~5% po+py.								
R-62-5		same as R-62-4	; ~50 cm wide shear in dior w up to 10% po+py								
R-62-6	30 m at A2030	from S-62-5, elev 6200'	; shred dior, 5-10% po+py.								
R-62-7	composite	float sample from qtz-bearing talus above R-62-6	; tr sulfides								
R-62-8	42 m at A2215	from R-62-7	; hbde-phyric fine dior w qtz stkwks, tr sulf								
R-62-9	same loc	at S-62-6	; large gossanous bldr of dior (?); 5-10% po+py, tr asp								
R											

300.5

1336

SHIPMENT 3

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
	803N	860W	Grab of S/Fe stained cong. btw two small splayed shears 2% py, silicic.								
	815N	921W	6" qtz vein, along shear, 1% py, sil. cong.								
	875N	820W	Sheared cong.; 2-3m shear zone w/ Fe carb./lc veining; 2-3% py								
	875N	823W	Brecciated Congl. (in shear), up to 3-4% py in veins, sheared matrix								
	600N	050W	Mid grey, lithic tuff with very fine grained pyrite.								
	(o/c 40m @ 225°)										
			from above peg.								
	1200N	775W	Strongly silicified and leached (ex pyrite) debris flow Pyrite 1-3%								
	1200N	625W	Pyritic lapilli tuff from 1m wide shear zone								
	1200N	400W	Strongly bleached, vesicly silicified, pyrite rhodaule. Some qtz veinlets noted.								
	1600N	775W	Sample of silicified & pyrite lapilli tuff within 2m wide alteration zone.								

Angie

Rock Sample Record Sheet

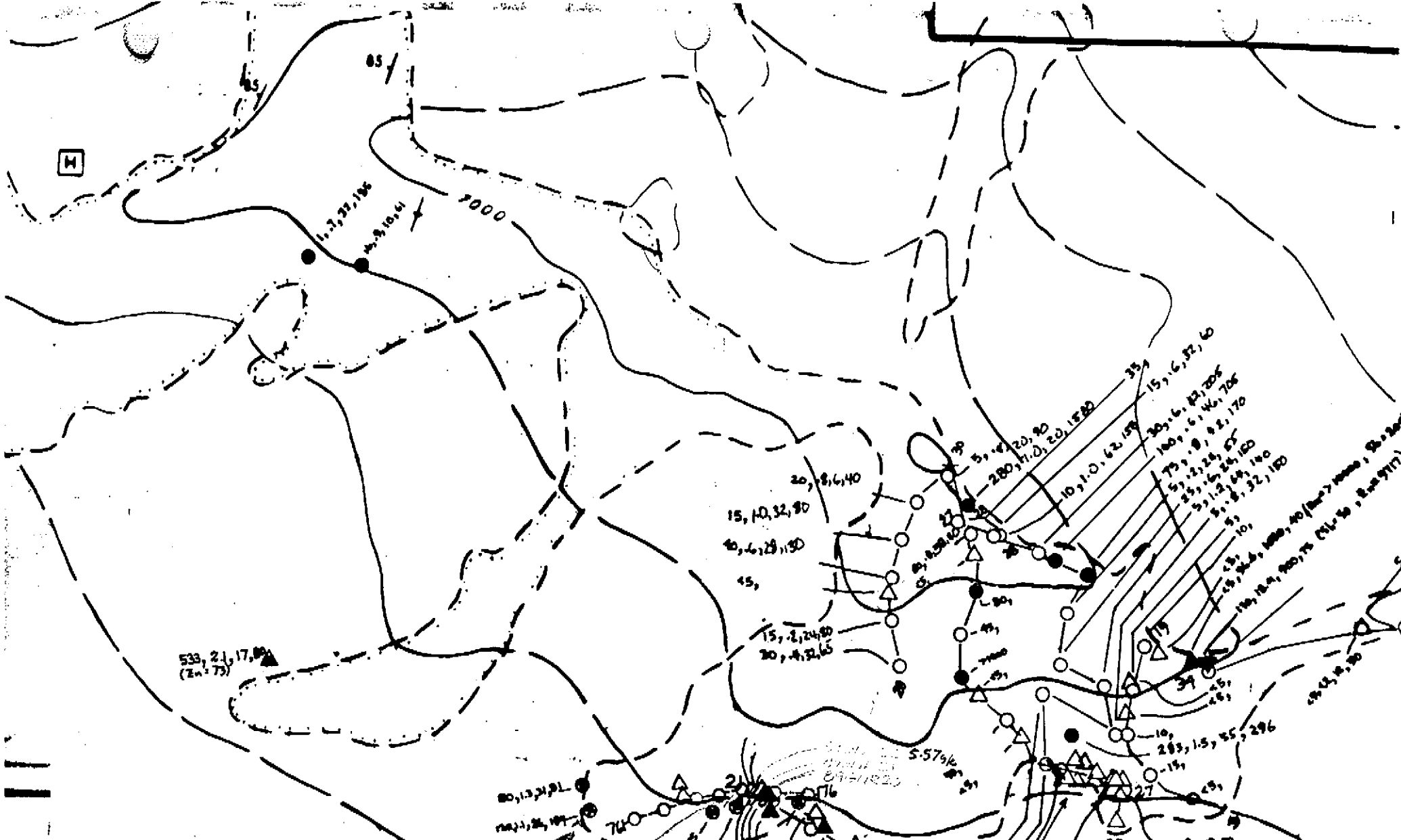
Sample No.	Location		Description	Geochem.					
				Au	Ag	Cu	Zn	Pb	As
C-R-1			Breccia from fault zone - 7% pyrite possible silt stone at contact with debris flow	6.12 ^{85.9}			535	250	7458
C-R-2			silicious breccia - 4% pyrite	6.8 ⁴²			285		1110
C-R-3			silt stone - silicified - 30% pyrite	3.5 ^{23.7}			524		5843
C-R-4			fault zone breccia - 4% pyrite	.8 ^{8.9}					1027
C-R-5			fault breccia healed with 25% pyrite	1.6 ^{12.2}			950		5992
C-R-6			silicified silt stone 2% pyrite	.7 ^{7.6}					79
C-R	1+44N-585-W		fault zone breccia - ash 3% pyrite to 4%	3.0 ⁶			14.9		10085
C-R	1+45N-585-W		" " " " pyrite 7%	2.1 ⁸			34.5	223	2190
C-R	3+50S	7+15W	brecciated dacite tuff, strong silicification						
C-R	3+80S	680W	" " " " " " 2% py						
C-R	3+78S	680W	" " " " " " 4-5% py						
C-R	3+75S	5+25W	(Kewatin Flag G-GR-15) (75 ppb) brecc'd lap. tuff very silicified 3-5% py						
C-R	3+75S	5+22W	as 3+75S, 5+25W.						
C-R	4+75W	1+70N	6" quartz vein healing fracture						
C-R	225N	590W	dacite lapilli tuff (possible boulder) 5-7% Sulphides (pyrite)						
C-R	1+50N	600W	fault "gorge" graphitic silt stone, 10-20% pyrite very fine grained						
C-R	105N	770W	taken at contact of silicified dacite debris flow and graphitic argillite 4-5% py along fractures						
C-R	1+05N	7+35W	50% silicified dacite / 50% quartz vein in shear zone.	320	3.1				252
C-R	5+20W	1+00N	silicified shys-dacite lapilli tuff 1% chss py						

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.						
			Au	Ag	Cu	Zn	Pb	As	
C-R-490S/790W		brecc'd dacite tuff, silicified, 2% py.							
C-R-425S/925W		(Kewatin sample G-GE-10) nearby from fault zone silicified siltstone with 10% Quartz py 4.5% py, brecc'd.							
C-R-455S/930W		brecc'd silicified dacite tuff 2% py	60	1.2				187	
C-R-450S/930W		" " " 2% py	240	52				1080	
C-R-7	PROSPECTOR DON'S SAMPLES	shear zone - Asp 5% sheared debris	.07	7.6		1028		48311	
C-R-8		" " talus 25% pyrite sheared	7.33	29.1		3840	303	7656	C-R-8 Ag = 209.4 Cu = 4.04 Au = 7.33 8/1
C-R-9		" " " 4% pyrite-dacite	.06	1.3		166		287	
C-R-10		" " ash vein 4% in sheared	.08	4.0		287		15	
C-R-11		these samples to be cross (grab #2) ash 5% sheared debris	.02	1.4				107	
C-R-12		referenced with (Grab #2 zone 9.06 6%)	.09	1.4		926		37845	
C-R-13	location on grid	shear zone - (T1) sheared argillite 3% pyrite	.01	1.4				137	
C-R-14		" " (T2) tuff (stibnite)	.58	10.2				77432.2	
C-R-15		" " (Grab zone 2) sheared debris ash 6%	.04	5.6		693		27952	
C-R-16		" " (Grab zone 1) sheared argillite 25% pyrite	2.32	29		50216	209	577	
C-R-335N 480W		Argillite, sheared, graphitic 2-3% py along shear planes	40	1.2		224		1223	

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
CR-A-2	450N	380W	dacitic lapilli tuff., minor diss py, minor gtz. veinlets								
CR-A-3	255N	515W	brecciated argillite and tuff - trace-3% py								
CR-A-4	268N	510W	weakly sheared debris flow. chlorite? trace biopy. py								
CR-	440S	585W	sheared argillite - weakly graphitic 1-3% diss py								
CR-	450S	600W	silicified debris flow - trace to 3% diss py.								
CR-	460S	610W	silicified sheared debris flow, 1-3% py								
②-BL00	BLO+00		Kuwatti digging on creek on South West corner of COA claims 35% massive sulfide (pyrite) in shear	7.55							
①-BL00	BLO+00		Kuwatti diggings on creek S.W. corner 6% sulfides in sheared argillite	98							
2C-21			Bottom of canyon creek in the straight brecciated limy pyritic 10% sulfide								
G-A-1	480N	350W	quartz pebbles 10% sulfide right on creek on small shear								
G-B-1			Small quartz found off fault on creek								
C-7-1			3 hundred meters south of canyon 100 meters east of creek syngenetic sulfides on small brook 30% sulfide								
CR-22	600W	270N	silicified altered tuff in shear								
	700W	180N	on small creek north of dull target creek silicified (pyritized) 4% debris flow								

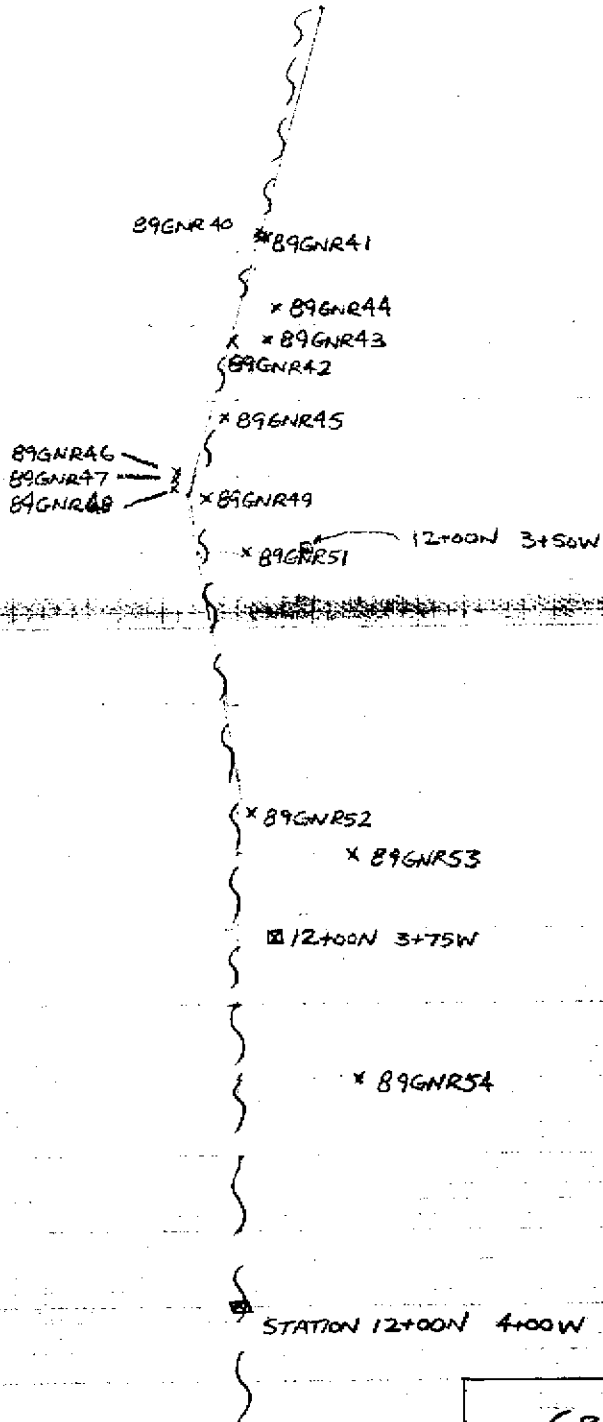
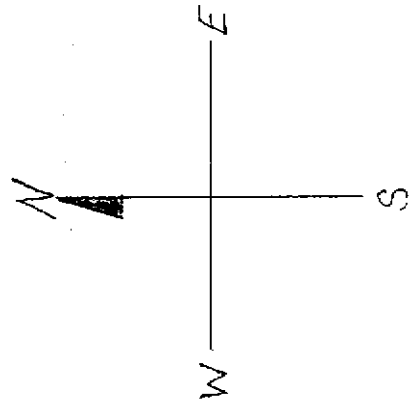


533, 21, 17, 80
(Zn: 73)

GRANGES INC.
SAMPLE LOCATIONS
BEEDEE SHOWING

DRAWN BY G.E.N. DATE: SEPT. 1899

- R-27-1: 45,
 - 27-2: 45,
 - 27-3: 45,
 - 27-4: 45,
 - 27-5: 45,
 - 27-6: 45.
- R-28-1: 45
 - 28-2: 45
 - 28-3: 45
 - 28-4: 45
 - 28-5: 45



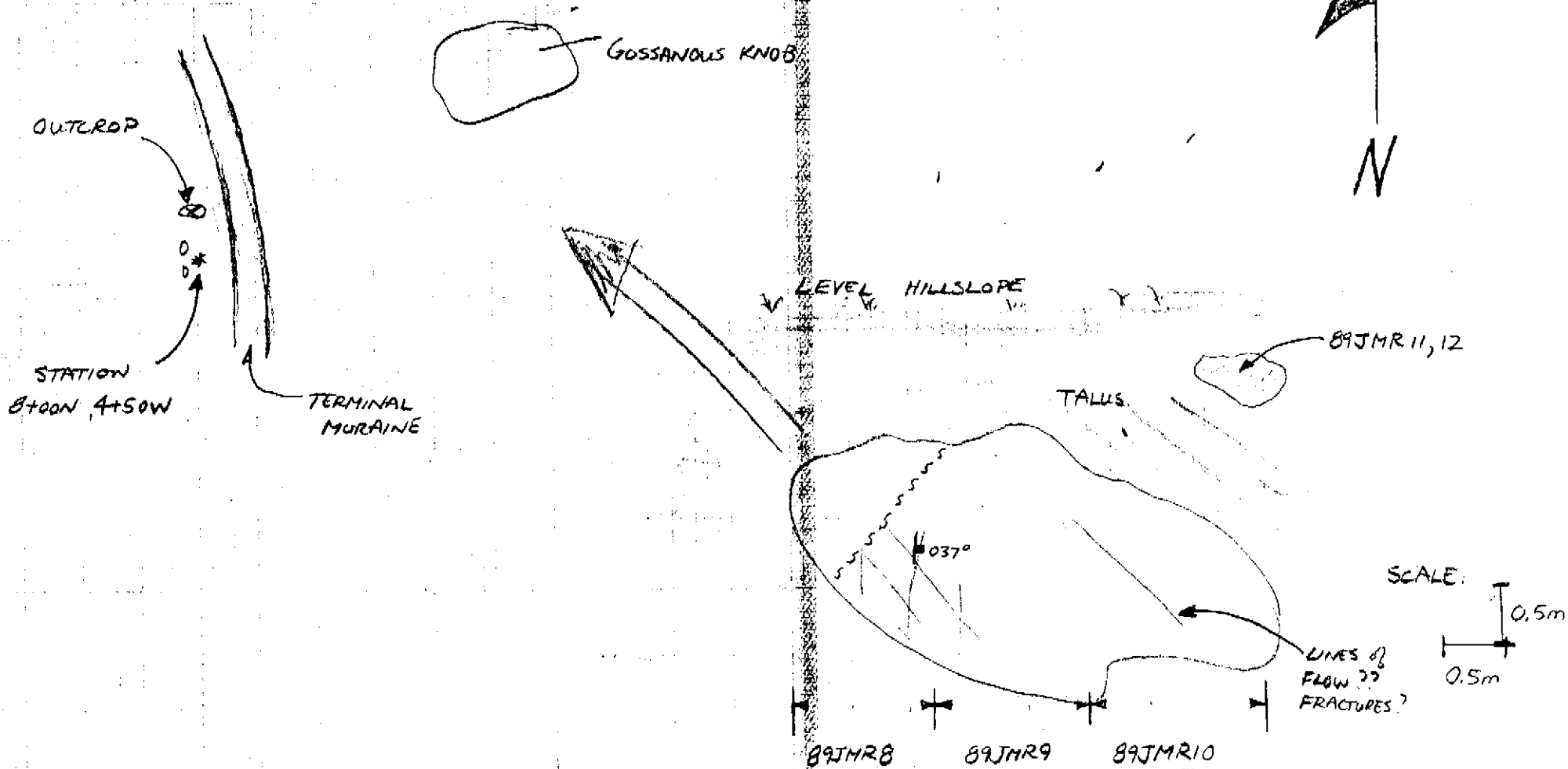
SCALE



SAMPLES COLLECTED BY GEORGE E. NICHOLSON

GRANGES INC.	
ZONE 1, SAMPLE LOCATIONS	
SEPT., 1989	DRAWN BY G.E.N.
SCALE 1:500	

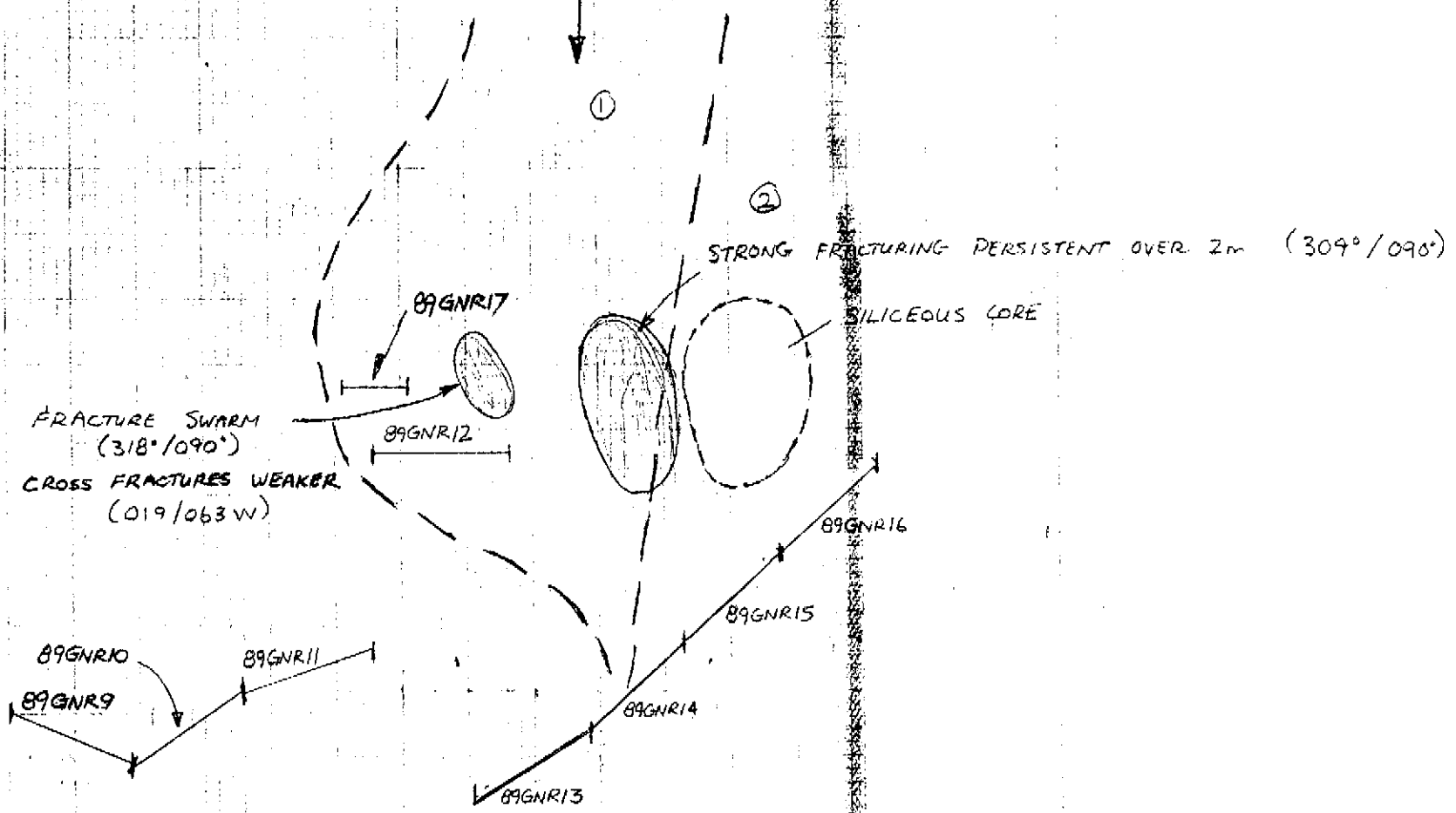
ROUGH SKETCH OF AREA.



55m and bearing
169° to station 8+00N
4+50W

GRANGES INC.	
ZONE ONE: SAMPLE LOCATIONS.	
DRAWN BY: G.E.N.	SCALE: AS SHOWN
	SEPT. /89

This gossanous, alteration zone ① is generally "weaker" than that of ②. There is less silica, less intense alteration and mineralization is more paddy.



GRANGES INC.

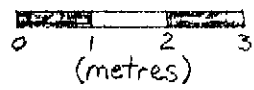
ZONE 1
SAMPLE LOCATIONS

SEPT. 1989

SCALE 1:100

DRAWN BY: G.E.N.

SCALE



⊗ 9+00N
4+00W

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989

Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.							
			Au	Ag	Cu	Zn	Pb	As		
89GNR1 19/09/89	15m NE of 1100N; 325W; J GRID	0.8m chip Qtz-carb. veining into barren green andesite tuff. weak shear east side 000/90	.02							
89GNR2 19/09/89	Top NW corner J GRID	of same o/c as 89GNR1; narrow pod (30cm x 10cm) gossanous, 5% - 10% py in mssv. diss blebs	.01							
89GNR3 19/09/89	J GRID 10m	SE of 1500N, 250W; frothy Qtz-carb. ± Sx veined andesite, possibly near contact both outcrop & subcrop.	.06							
89GNR4	R GRID 8m SE of 675W, 200N	Sample taken in creek, graphitic, local shearing (< 4cm shears) o/c occurs 25m long along creek - width across = 4m, dacite tuff w/ tr. fine diss. Sx.	.07							
89GNR5	R GRID 2+25N; 6+30W	(5m east of draw) 1.0m chip; Qtz. veining into carb. altered pockmarked dacite; diss. py. ± aspy. thrt. < 2%; poorly formed Qtz crystals + drusy covs.	.06							
89GNR6	R GRID 2+20N; 6+15W	grab from subcrop, cherty lt. grey dacite, weak epidote alteration, dk. blue veining (pass. Sx. rich?) Sx < 5% diss. py. Weakly sericitized. Py. cubic & with some striations.	.92	1.6					As = 9086 ppm.	

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989
 Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.							
			Au	Ag	Cu	Zn	Pb	As		
89GNR13		As per 89GNR12	.10							
89GNR14		As per 89GNR12, some pieces have a distinctly heavier feel; occasional limonitic weathered vugs.	.30							
89GNR15		As per 89GNR12	.16							
89GNR16		2.0m chip. As per 89GNR17, mineralization is less paddy and more disseminated; pass. tr. Aspy.	.22							
89GNR17		1.0m chip, strongly strongly oxidized gossanous dacite, Py occurs diss. in eggs up to 2cm diameter; kaolinized; section of highly oxidized zone; very little remaining original rock pass. tr. cpy.	.07							
89GNR18	NP Zone 1- Grid	2.0m chip; siliceous fine grained dacitic lapilli ash tuff; fine diss. py - tr to 2% principally along fractures; Also fine crystalline calcite as narrow stringers & along fractures; rock has conchoidal break to it; med. grey-blue on fresh surface & rusty orange brown on weathered.	.01							
89GNR19	Beedee Zone See map.	Talus at base of outcrop. Calcite veining with 1% Cpy & tr. barite; veins cross-cutting lapilli (dacite frags?) in andesite matrix - debris flow	.01							

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989
 Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
89GNR19	cont'd.		diss. py, cpy in host rock * follow up to find contact*								
89GNR20	Beedee Zone		0.9m chip., sheared argillite - carbonate - sandstone.	98	1.3						
	See map.		carb. weathered. Evidence of fluid transport - flow lines and rimming of clasts; lg. amt. (visual) of calcite along fractures and as veining.							As = 769 ppm	
89GNR21	Beedee Zone		sheared argillite - carbonate (013°/90°) veined	76	1.5						
	See Map.		* brecciated, infilled vugs w/ qtz - calcite. 0.2m chip.							As = 436 ppm	
89GNR22	Beedee Zone		30 cm chip. 088°/58 N Shear sheared and	5.57	1.6						
	See Map.		brecciated, carbonate infilled argillite, weak calcite - carbonate veining							As = 2094 ppm	
89GNR23	Beedee Zone		Sheared and brecciated argillite; carbonate veining	.42	44.5	.69%	Pb/	13%	Zn		
	See Map		and alteration, carb. infilling shears. Diss. galena up to 2% introduced with carbonate. Minor calcite crystals + veining; float.							As = 1223 ppm	
89GNR24	Beedee Zone		As per 89GNR 23	02							
	See Map										
89GNR25	Zone 2		Samples 89GNR25 to 89GNR27 all come	02							
	4972 E	4900 N	from the same narrow, weakly sheared sulphides								

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989
 Rock Sample Record Sheet

Sample No.	Location	Description	Geochem.					
			Au	Ag	Cu	Zn	Pb	As
89GNR31	7m upcreek (095°) from 500E 4825N Zone 2	Float, sheared andesite tuff contact rock, py ± aspy (5% Sx) diss. & banded, in places brxx w/ Qtz.	.10					
89GNR32	25m East of ZZ 1+20N ZONE 2	Baseline: purple red gossan, weak sheared andesite tuff, tr. diss py., occasional blebs of diss. py. minor carb. alt. 1.5m chip	.01					
89GNR33	2m above #89GNR32. ZONE 2	1.0m chip. moderate sheared andesite tuff (~1% Sx, py.), edge of shear.	.01					
89GNR34	25m away from and bearing 75° to ZONE 2	ZZ B.L. N040. Sheared contact rock, gneissic Qtz- calcite-carb.-andesite, tr. diss. py ± aspy associated w/ andesite.	.02					
89GNR35	12m north of, and on strike from 89GNR34 ZONE 2	Sheared contact rock, as per 89GNR34 except andesite predominates, 2-3% fine grained Sx; Py cubic & diss., Aspy well bladed & diss.	.12					
89GNR36	ZZ B.L. 0+40N ZONE 2	contact rock, carb. alt. sheared and. tuff. Weakly gneissic, tr - 2% diss. py, aspy	.01					
89GNR37	ZONE 2 10m east of ZZ 0+40N	dense dark green to black, sheared; tr. diss. py. possibly ultramafic? (sheared andesite?) rock between contacts units 1A	.02					

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989
 Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.							
				Au	Ag	Cu	Zn	Pb	As		
89GNR38	20m WNW (300°)		Subcrop - float contained within draw formed by from stn. 1200N 525W fault. Fault trending 106°. 10% diss. py., Zone 1 blebby in a dacite lapilli-ash tuff, tr. Galena purple-red gossanous	.04	12.9						
89GNR39	20m ENE (64°)		In same fault as 89GNR38. Strongly goethitic from stn. 1200N 525W all minerals leached out, pithy, hematitic, Zone 1 remnant boxwork and qtz veining.	.01							
89GNR40	Zone 1 1200N 375W		1.7m chip; qtz veined, yellow, kaolinized felsic volcanic, little to distinguish it by * See sketch map.*	.10							
89GNR41	As per GNR40		1.0m chip - subcropping boulders, 1.0m upcreek of 89GNR40; as per 89GNR40 but with more drusy qtz crystals infilling small cavities, minimum chalcedony veining.	.12							
89GNR42	As per GNR40		1.5m chip; kaolinized gossanous felsic volcanic veinlets < 2mm of grey chalcedonic qtz., diss. py banded	.10							
89GNR43	As per GNR40		1.1m chip: adjoins onto 89GNR42. Sheared, kaolinized rhyo-dacitic tuff; fine grained gritty sections like sandstone; near sheared contacts; minor zones of brecciation, qtz flooding in places as well microveinlets of chalcedony, pods of grey (sulphide rich?) qtz.	.06							

GRANGES INC. PROJECT 13A: UNUK RIVER
 GEORGE E. NICHOLSON ROCK SAMPLES SEPTEMBER 17-30, 1989
 Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
89GNR44	As per 89GNR40		2.1m chip sheared rhyodacitic tuff, gossanous, diss. py up to 3% tr. aspy; strongly kaolinized weathered yellow-brown.	.10						
89GNR45	As per GNR40		1.0 m chip; gritty rhyodacite; diss. py in blebs.	.01						
89GNR46	As per GNR40		1.0m chip; gtz-py up to 1mm thick x-cut kaolinized rhyodacite. Weak calcite. Diss. py, cpy, ± aspy - blebby.	.09						
89GNR47	As per GNR40		1.0m chip - sheared siliceous rhyodacite; Veined py-gtz, diss py ± aspy, 5% Sx heavy rock	.03						
89GNR48	As per GNR40		1.0m chip. Chalcedony veined (<2mm); X-cutting gtz-py veinlets, siliceous blocky felsic volc.	.08						
89GNR49	As per GNR40		0.6m chip. Sheared; gossanous, dk brown, blocky, possibly sedimentary?	.03						
89GNR50	from stn A00N, A00W go 66m bearing 235° to sample site.		1.2m chip - subcrop. Intersection of two cross faults; Cross cutting gtz. veins in a manganese stained, vuggy, brecciated, chlorite altered rhyodacite - gritty. Tr - 1% diss py in chlorite gouge	.04						

MCCAFFREY

Rock Sample Record Sheet

Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
89JMR-1	J-GRID	12100N 1+50W	FLOAT, VUGGY Qtz VEINING, FINE TO MED Py, TR. AKSEM	.02						
89JMR-2	R-GRID	2400N 6+00W	CHERTY, ARG, SOME BRECCIA, UP TO 2% Py, TR As, PbS	.05						
89JMR-3	R-GRID	SAME	SAME AS ABOVE BUT WITHOUT TR. GALENA	.03						
89JMR-4	R+GRID	SAME	SAME AS ABOVE @ "HOPPER SWAMP"	.09						
89JMR-5	R-GRID	SAME	SAME AS ABOVE	.03						
89JMR-6	R-GRID	SAME	SAME AS ABOVE	.18	474				As = 194ppm	
89JMR-7	R-GRID	3400N 6+00W	FT. IN CREEK NORTH OF SWAMP - CHERTY / ARG & Py	.01						
89JMR-8	ZONE I A.P.	8+00N 4+50W	RHYO-DACITE LAPILLI ASH FLOW TUFF, 1 METER CHIP	.10						
89JMR-9	A.P.	SAME	" " " " " "	.02						
89JMR-10	A.P.	SAME	" " " " " "	.02						
89JMR-11	A.P.	SAME	BRECCIATED RHYO-DACITE LAPILLI ASH FLOW TUFF	.14						
89JMR-12	A.P.	SAME	" " " " " "	.06						
89JMR-13	A.P.	2+00N 6+00W	.75M CHERTY DYKE = Py, CONTACT PORB DACITE, TRENDING 30°	.01						
89JMR-14	A.P.	SAME	ASH FLOW TUFF // 30° DACITE PORB, K-STAR? FINE Py, SED CONTACT	.01						
89JMR-15	A.P.	SAME	SAME AS ABOVE	.01						
89JMR-16	A.P.	SAME	SAME AS ABOVE	.01						
89JMR-17	A.P.	11+60N 7+25W	1 METER CHIP, W/O ASH FLOW TUFF, TRENDING 80°	.07						
89JMR-18	A.P.	SAME	SAME AS ABOVE	.02						
89JMR-19	A.P.	SAME	RANDOM GRAB, SAME AS ABOVE	.01						
89JMR-20	A.P.	12+00N 7+45W	1 METER CHIP, LAPILLI ASH FLOW TUFF, Py, AsPy, IN GOUGE MATRIX	.01						
89JMR-21	A.P.	SAME	SAME AS ABOVE	.01						
89JMR-22	A.P.	SAME	GRAB FROM ABOVE	.01						
89JMR-23	A.P.	12+27N 7+00W	RHYO-DACITE DEBRIS FLOW? Py, AsPy, GRAB	.06						
89JMR-24	A.P.	SAME	1 METER CHIP, FINE ASH TUFF & Py, AsPy	.19						
89JMR-25	BEEDEE	CENTER CREEK	SILICIOUS/CALCARIOUS, SPECIATED ARG, W/O VUGGY, TR. PbS, Ca, CARBONATE 180°	.02						
89JMR-26	ZONE II	49+25N 50+25E	LAPILLI ASH FLOW TUFF, Py, TR C Py, CONTACT RHYO-DAC	.06						

McCAFFREY

Rock Sample Record Sheet

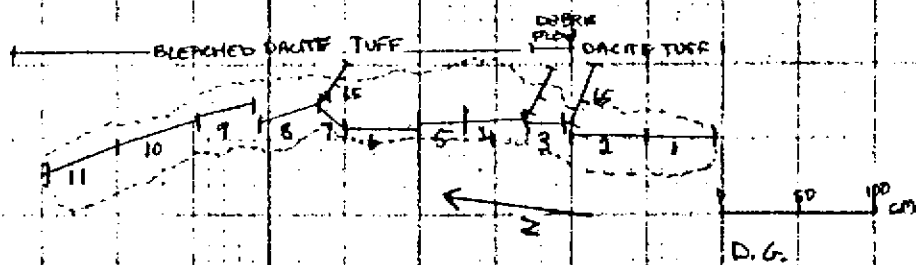
Sample No.	Location		Description	Geochem.						
				Au	Ag	Cu	Zn	Pb	As	
89JMR-27	ZONE II	49+40 N 50+25E	LAPILLI ASH FLOW TUFF, CONTACT RHYO-DACITE, FINE-CONS. Py ¹²⁰	.02						
89JMR-28	SAME	49+58 N 50+25E	ASH FLOW TUFF & QTZ STRINGERS, DESSEM Py	.02						
89JMR-29	SAME	SAME	VUGGY, W/O, BRECCIATED QTZ FILLED ARGILLACEOUS CARBONATE, WEAK Py	.04						
89JMR-30	SAME	SAME	SAME AS ABOVE ONLY >65% QTZ	.01						
89JMR-31	SAME	49+50 N 50+00E	VUGGY QTZ VEINING, >5% Py, FLOAT	.06						
89JMR-32	SAME	49+00 N 50+00E	SAME AS ABOVE, FLOAT	.01						
89JMR-33	SAME	48+50 N 49+75E	SAME AS ABOVE, FLOAT	.03						
89JMR-34	SAME	47+80 N 50+00E	CHERTY VEIN MATERIAL // TO ASH FLOW TUFF, FINE → MASSIVE Py	.06						
89JMR-35	SAME	47+50 N 50+50E	SILICIOUS CONTACT / ASH FLOW TUFF, MINOR Py, TRENDING 100°	.01						
89JMR-36	SAME	47+10 N 50+25E	RHYO-DACITE, LAPILLI ASH FLOW TUFF & Py, FLOAT	.04						
89JMR-37	WEST ZONE T. 12A	1ST CR SOUTH	FT, MASSIVE SPHALERITE, GALENA, 1%-2% Cpy, TR. BORNITE (float)	.27	12.9	1.93%	7.8	>10%	7.2	1.19%
89JMR-38	SAME	SAME	SAME AS ABOVE - ANDERITE CONTACT	.90	120.7	1.53%	Pb	>10%	7.2	1.17%
89JMR-39	SAME	SAME	SAME AS ABOVE " "	2.15	525	1.71%	Pb	>10%	7.2	1.15%
89JMR-40	ZONE I A.P.	12+50 N 3+50 W	ASH FLOW TUFF & 1%-2% Py, FT.	.03						
89JMR-41	SAME	13+00 N 3+70 W	ALTERED RHY IN SMALL DACITE SHEAR, Py, TR. Agpy, GRAB	.01						
89JMR-42	SAME	SAME	1 METER CHIP FROM ABOVE	.01						
89JMR-43	SAME	SAME	VUGGY, W/O RHYO-DACITE, ASH FLOW SHEAR, GRAB	.01						
89JMR-44	SAME	13+85 N 4+00 W	SHEARED ASH FLOW TUFF & Py, BY ²⁰	.01						
89JMR-45	SAME	13+85 N 4+10 W	CONTINUATION OF ABOVE SHEAR	.01						
89JMR-46	SAME	13+85 N 4+20 W	SAME AS ABOVE WITH CHLORITIC ALTERATION	.01						
89JMR-47	SAME	12+00 N 5+25 W	1.5 m SILICIOUS ALTERED RHYOLITE, GRAB	.01						
89JMR-48	SAME	12+50 N 5+50 W	DESSEM → MASS Py IN LAPILLI ASH FLOW TUFF, FT.	.02						
89JMR-49	SAME	SAME	SAME AS ABOVE & CHALCEDONIC QTZ, FT (NEARBY)	.01						
89JMR-50	SAME	BL 8+25 N 0+15 E	8" WIDE DESSEM Py ZONE X-CUTTING RHYOLITE	.01						
			BANDED FLOW (TRENDING N-S) 1m CHIP	.08						
89JMR-51	SAME	SAME	SAME AS ABOVE - RANDOM GRAB	.05						

SENT

1.19% Cu
1.17% Zn
1.15% Cu

ZONE ONE TRENCH ONE

STARTS AT 1250N 881W AZ 352 LOOKING EAST



SAMPLE ① 50cm SAMPLE

28 ppb Au
DACITE TUFF FINE GRAINED BLEACHED
PYRITE 1-2% DISSEMINATED - MOTTLED
BLEBS
-MOTTLED SILIC

SAMPLE ② 20cm SAMPLE

6 ppb Au
DACITE TUFF - BLEACHED - FINE GRAINED
PYRITE 1-2% DISSEMINATED MOTTLED
MINOR QUARTZ STOCKWORK WITH BERILITE
SALVAGES → SPHERULITIC + TENSION GACHES

SAMPLE ③ RHOLITE - FELDSPAR PORPHYRITIC (BLACK)

2 ppb Au
BREXIA - FAULT 103/65 (DEBRIS FLOW)
PYRITE 1-2% DISSEMINATED - MINOR
BLEBS
MINOR QUARTZ WITH TENSION GACHES
HAIRLINE STOCKWORK - 30cm SAMPLE

SAMPLE ④ SILIC DACITE - FINE GRAINED

11 ppb Au
5-10% PYRITE - BLEBS - MOTTLED
HAIRLINE STOCKWORK
FRACTURE FAULT 40cm SAMPLE

SAMPLE ⑤ DACITE TUFF - BLEACHED BRECCIATED

4 ppb Au
MODERATELY SILIC
PYRITE - 3-5% IN STOCKWORK
+ MINOR PATCHY BLEBS
MINOR QUARTZ STOCKWORK - 30cm SAMPLE

SAMPLE ⑥ DACITE TUFF - BLEACHED

1 ppb Au
BRECCIATED - MODERATELY SILIC
PYRITE 3-5% IN STOCKWORK
+ MINOR PATCHY BLEBS
MINOR QUARTZ STOCKWORK
MINOR SERICITE AROUND QUARTZ
50cm SAMPLE

SAMPLE ⑦ 20cm SAMPLE

5 ppb Au
STRONGLY WEATHERED PYRITIC FAULT
GADGE
15% PYRITE WEATHERED + LIMONITE
+ GOETHITE COATS
WEAK SILIC (SPONGY SILICA)
FAULT AT 115/60 N

SAMPLE ⑧ 40cm SAMPLE

2 ppb Au
BLEACHED DACITE TUFF - VERY
FINE GRAINED
PYRITE 3-5% IN IRREGULAR
STOCKWORK
STRONGLY FRACTURED AND
WEATHERED - GOETHITE + LIMONITE
STAINED

SAMPLE ⑨ 40cm SAMPLE

6 ppb Au
BLEACHED DACITE TUFF - VERY
FINE GRAINED
PYRITE 3-5% IN IRREGULAR
STOCKWORK
STRONGLY FRACTURED AND
WEATHERED - GOETHITE +
LIMONITE STAINED

SAMPLE ⑩ BLEACHED DACITE TUFF - 50cm SAMPLE

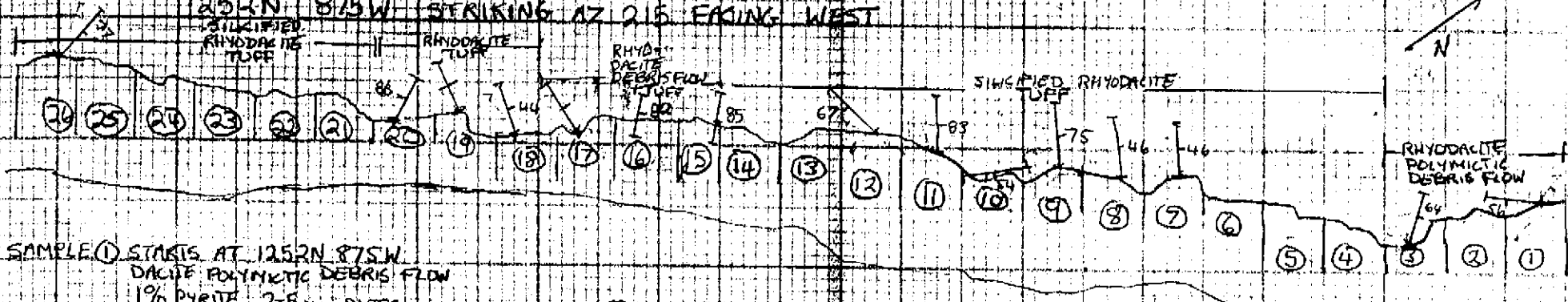
10 ppb Au
LIGHTLY SILIC
PYRITE 1-3% MINOR BLEBS +
STREAKS
VERY FINE GRAINED MINOR
QUARTZ STOCKWORK

SAMPLE ⑪ BLEACHED DACITE TUFF + FINE

1 ppb Au
GRAINED ASH TUFF - WEAKLY SILIC
PYRITE 3-5% - BLEBS
HAIRLINE QUARTZ STOCKWORK
50cm SAMPLE

ZONE ONE TRENCH TND

232N 875W STRIKING AZ 215 FACING WEST



SAMPLE ① STARTS AT 1252N 875W

- SAMPLE ① DACITE POLYMIC TIC DEBRIS FLOW
1% PYRITE 2-5mm BLEBS
FRACTURES 04/56
- SAMPLE ② DACITE POLYMIC TIC DEBRIS FLOW
PYRITE 5-15% PYRITE REPLACES
CLASTS IN DEBRIS FLOW (AVERAGE 7%)
- SAMPLE ③ RHYODACITE POLYMIC TIC DEBRIS FLOW
10% PYRITE + REPLACEMENT OF
CLASTS + VERY FINE GRAIN DISSEMINATED
FRACTURE 32/64
- SAMPLE ④ SILICIFIED RHYODACITE TUFF (SILICIFIED
ALTERED ZONE) 10% PYRITE VERY
FINE GRAINED DISSEMINATED
UP TO 15% PYRITE IN STOCKWORK
HIGHLY ALTERED - MINOR SULPHUR STAIN
- ⑤ SILICIFIED RHYODACITE TUFF - SOME
QUARTZ FLOODING - 12% PYRITE VERY FINE
GRAINED DISSEMINATED IN CLUSTERED
PATTERN 2% PYRITE 2mm THICK STRINGERS
IN STOCKWORK PATTERN - MODERATE SULPHUR
STAIN
- ⑥ SILICIFIED RHYODACITE TUFF - MODERATE
QUARTZ FLOODING
8-10% PYRITE - VERY FINE GRAINED
CLUSTERED MASSIVE - UP TO 15%
- MINOR SULPHUR STAIN
- ⑦ SILICIFIED RHYODACITE TUFF - SOME
QUARTZ FLOODING - VERY FINE GRAINED
PYRITE 12-15% - CLUSTERED MASSIVE
FRACTURES 20/46 - SPACING
INTERVAL - 8cm
- ⑧ SILICIFIED RHYODACITE TUFF - QUARTZ
FLOODED - 12% PYRITE - VERY FINE
GRAINED DISSEMINATED CLUSTERED
MASSIVE - FRACTURE - SPACE INTERVAL
8cm 120/46
- ⑨ SILICIFIED RHYODACITE TUFF - QUARTZ
FLOODED - 10% PYRITE - VERY FINE
GRAINED DISSEMINATED CLUSTERED MASSIVE
FRACTURE - SPACE INTERVAL 8cm 120/75
- ⑩ SILICIFIED RHYODACITE TUFF
QUARTZ FLOODED 124/25 + 124/52N
VERY FINE GRAINED PYRITE 12-15%
CLUSTERED MASSIVE
FRACTURE SPACE INTERVAL 8cm 026/54
- ⑪ SILICIFIED RHYODACITE TUFF
8-5% PYRITE - VERY FINE GRAINED CLUSTERED
MASSIVE - FRACTURE 125/83

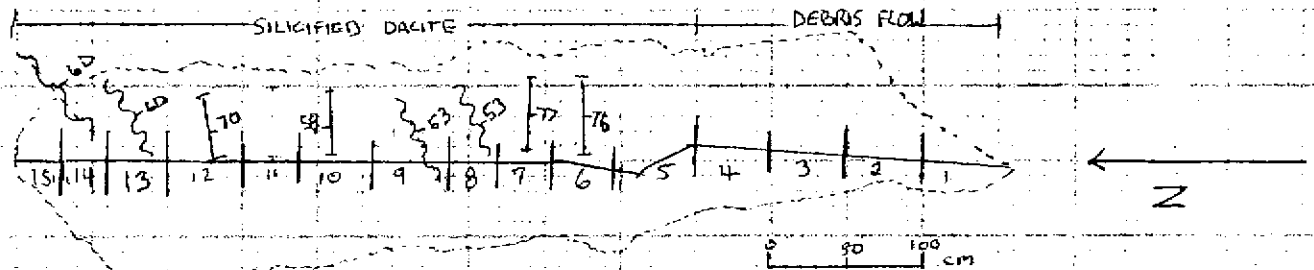
- ⑫ SILICIFIED RHYODACITE TUFF
3-8% PYRITE - VERY FINE GRAINED
CLUSTERED MASSIVE
FRACTURE SPACE INTERVAL 13cm 077/67
- ⑬ SILICIFIED RHYODACITE TUFF
5% VERY FINE GRAINED PYRITE +
2mm STRINGERS IN STOCKWORK
- ⑭ SILICIFIED RHYODACITE TUFF
3-5% VERY FINE GRAINED DISSEMINATED
PYRITE FRACTURE SPACING 3-4mm
- ⑮ RHYODACITE DEBRIS FLOW + TUFF
8% PYRITE VERY FINE GRAINED
DISSEMINATED MASSIVE
FRACTURE SPACE INTERVAL 20cm
319/85
- ⑯ RHYODACITE DEBRIS FLOW
5% PYRITE VERY FINE GRAINED
DISSEMINATED - CLUSTERED MASSIVE
FRACTURE SPACE INTERVAL 20cm 316/82
- ⑰ FAULT - RIGHT SIDE FAULT GAUGE
10cm CLAY SHEAR
FRACTURE 372/90 1cm SPACING
SILICIFIED RHYODACITE DEBRIS
FLOW - 15% PYRITE VERY FINE GRAINED
DISSEMINATED - CLUSTERED MASSIVE
BLEBS 2-3mm GRAPHITE 5%
- ⑱ RHYODACITE TUFF 5% PYRITE
VERY FINE GRAINED - DISSEMINATED
FRACTURE 285/44
- ⑲ RHYODACITE TUFF 5-10% PYRITE
VERY FINE GRAINED DISSEMINATED
PLUS 1-2mm BLEBS QUARTZ
VEINS 20cm WIDE SPACING 1cm
FOR 0cm
FRACTURE SPACING 3-10cm 280/90
- ⑳ SILICIFIED RHYODACITE TUFF
STOCKWORK ALTERATION - 2mm WIDE
- 3% PYRITE STRINGERS ALONG
STOCKWORK
FRACTURE 117/86

- ㉑ SILICIFIED RHYODACITE TUFF
3% PYRITE MINOR FRACTURES
SOME ALTERATION ALONG FRACTURES
3cm SPACING
- ㉒ RHYODACITE TUFF - SILICIFIED
5% PYRITE ALTERATION ALONG
FRACTURE - STOCKWORK - MINOR
FRACTURES
PYRITE VERY FINE GRAINED CLUSTERED
MASSIVE
- ㉓ SILICIFIED RHYODACITE TUFF
5% PYRITE - VERY FINE GRAINED
DISSEMINATED ALONG STOCKWORK
ALTERATION FRACTURES
- ㉔ SILICIFIED RHYODACITE TUFF
5% PYRITE - VERY FINE GRAINED
DISSEMINATED CLUSTERED MASSIVE
ALONG ALTERATION FRACTURE STOCKWORK
- ㉕ SILICIFIED RHYODACITE TUFF
5-10% PYRITE - VERY FINE GRAINED
DISSEMINATED ALONG FRACTURE
ALTERATION STOCKWORK
GRAPHITE
- ㉖ SILICIFIED RHYODACITE TUFF
10% PYRITE VERY FINE GRAINED DISSEMINATED
CLUSTERED MASSIVE + BLEBS
2mm QUARTZ STOCKWORK
FRACTURE 347/77
GRAPHITE

0 25 50
SCALE (cm) R6W

ZONE ONE TRENCH THREE

STARTS AT 1235N 900W AZ 180 LOOKING EAST



SAMPLE ① DEBRIS FLOW - WEAKLY SHEARED PLUS SILICIFIED MINOR SERICITE
1-2% PYRITE VERY FINE GRAINED - DISSEMINATED PLUS STRINGERS

SAMPLE ② DEBRIS FLOW - WEAKLY SHEARED PLUS SILICIFIED MINOR SERICITE
5-10% PYRITE - VERY FINE GRAINED + STRINGS + BLEBS PARTIAL PYRITE REPLACEMENT OF SOME FRAGMENTS

SAMPLE ③ DEBRIS FLOW - SHEARED WITH 15-20% PYRITE IN STRINGERS + FRAGMENT REPLACEMENT

SAMPLE ④ DEBRIS FLOW - WEAKLY SHEARED
5-10% PYRITE - STRINGERS + FRAGMENT REPLACEMENT

SAMPLE ⑤ SILICIFIED DACITE - BRECCIATED WITH MINOR QUARTZ VEINS - TENSION GASHES
5-10% PYRITE IN FINE STOCKWORK TRACE AZOICITE STAIN IN QUARTZ

SAMPLE ⑥ SILICIFIED DACITE - DARK GREY QUARTZ VEIN/STRINGERS - 2mm WIDE - PYRITE INFILLING
5% PYRITE (UP TO 15%) VERY FINE GRAINED DISSEMINATED + CLUSTERED MASSIVE - PATCHY - STRINGERS - 1mm WIDE
10cm FRACTURE SPACING 091/76

SAMPLE ⑦ SILICIFIED DACITE - QUARTZ VEINING 2mm STOCKWORK - BRECCIA FRACTURE WITH QUARTZ + PYRITE INFILLING
10% PYRITE (MAXIMUM 25%) VERY FINE GRAIN DISSEMINATED + STRINGERS (-1-2mm WIDE)
SULPHUR STAIN
FRACTURE SPACING 5-10cm 095/77

SAMPLE ⑧ SHEAR ZONE 28cm WIDE 065/53
SILICIFIED DACITE
15-25% PYRITE MASSIVE + STRINGERS ALONG FRACTURES
QUARTZ PLUS PYRITE VEINING IN STOCKWORK
SULPHUR STAIN PAUKT GAUGE

SAMPLE ⑨ SHEAR ZONE 55cm WIDE 065/53
SILICIFIED DACITE
INTENSE FRACTURES 2-30mm SPACING
PYRITE + QUARTZ VEINING ALONG FRACTURE
SULPHUR STAIN
10-15% PYRITE - VERY FINE GRAIN IN STRINGERS ALONG VEINS + DISSEMINATED MASSIVE

SAMPLE ⑩ SILICIFIED DACITE
FRACTURE STOCKWORK - MODERATE TO INTENSE - 3-5cm SPACING 269/58
8-10% VERY FINE GRAIN DISSEMINATED

SAMPLE ⑪ SILICIFIED DACITE - MINOR GREY QUARTZ STOCKWORK
MODERATE TO MODERATE FRACTURE
7-10% PYRITE DISSEMINATED MASSIVE - SOME STRINGERS - 2mm WIDE
HOMITITE + SULPHUR STAINING

SAMPLE ⑫ SILICIFIED DACITE - MASSIVE - CLUSTERED
5-7% PYRITE - VERY FINE GRAINED
PATCHY - SOME 1mm STRINGERS
MINOR FRACTURE 0.5-1-70

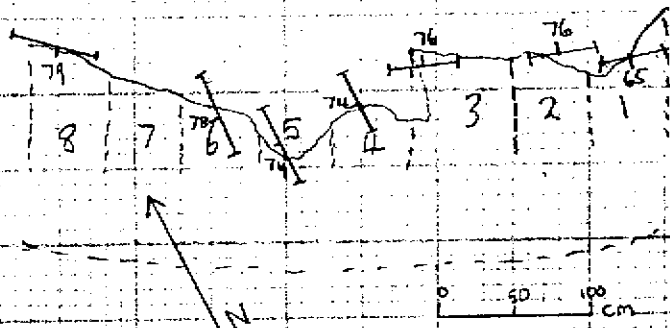
SAMPLE ⑬ DACITE TUFF
5-7% PYRITE - PATCHY - VERY FINE GRAINED DISSEMINATED CLUSTERED MASSIVE
VEINING ALONG FRACTURE - SPACING 3-12cm
049/60

SAMPLE ⑭ QUARTZ FLOODED DACITE - 25cm SAMPLE
- GREY MICROCRYSTALLINE QUARTZ
5-7% PYRITE - VERY FINE GRAINED
CLUSTERED MASSIVE
STRINGERS ALONG FRACTURE (WITH QUARTZ)
- INTENSE FRACTURES 2-3cm SPACING
049/60

SAMPLE ⑮ BLEACHED QUARTZ FLOODED DACITE
3-5% PYRITE VERY FINE GRAINED
DISSEMINATED
FRS STAIN
MASSIVE - NO FRACTURES

ZONE 1 TRENCH 4

SAMPLE 1 STARTS AT 1228 N 870 W AZ 298 LOOKING N



SAMPLE ① DACITE DEBRIS FLOW ANGULAR CLASTS 4mm - 2cm - LARGER CLASTS
BRECCIATED
~18% VERY FINE GRAINED DISSEMINATED PYRITE CLUSTERED MASSIVE
IN MATRIX (SOME REPLACEMENT CLASTS)
MINOR FRACTURES - SPACING = 3cm 140/85

SAMPLE ② DACITE DEBRIS FLOW
~15% PYRITE MOSTLY VERY FINE GRAINED DISSEMINATED IN MATRIX
CLUSTERED MASSIVE
FRACTURE SP = 8cm 223/76

SAMPLE ③ DACITE TUFF 80cm WIDE SAMPLE
10-15% PYRITE - VERY FINE GRAINED DISSEMINATED CLUSTERED
MASSIVE IN MATRIX
FRACTURE SPACES 3-15cm 223/76

SAMPLE ④ ALTERED SILICIFIED TUFF WITH GRAPHITE (DACITE)
100% PYRITE VERY FINE GRAINED DISSEMINATED - CLUSTERED MASSIVE
ALONG FRACTURE PLANES
FRACTURE MODERATE - SPACING = 1cm 215/74

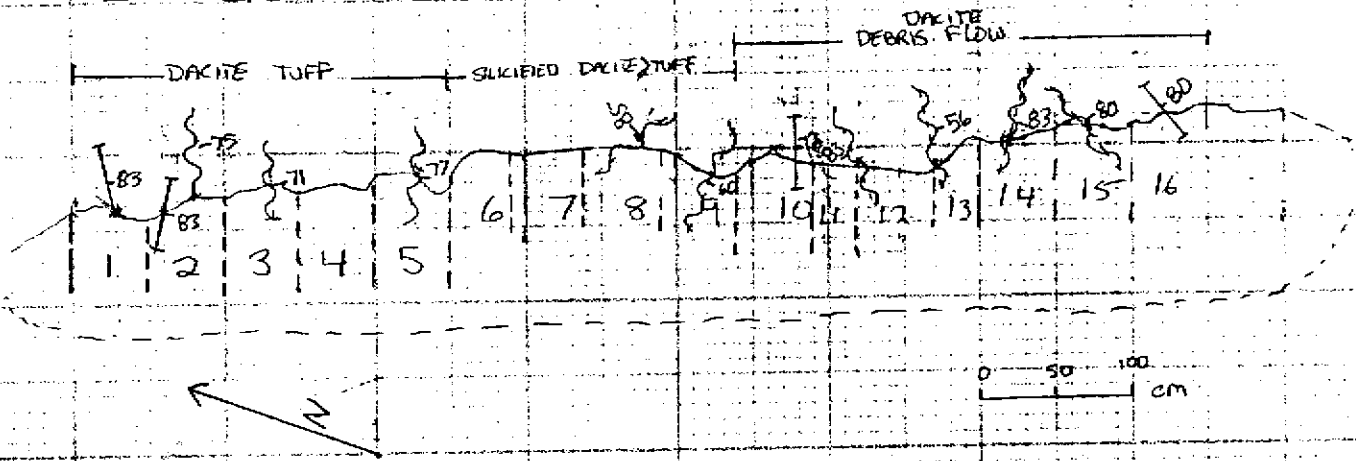
SAMPLE ⑤ ALTERED SILICIFIED DACITE WITH GRAPHITE
PYRITE - VERY FINE GRAINED DISSEMINATED - CLUSTERED MASSIVE IN MATRIX
MIN MOD FRACTURE 215/74
SOME UNALTERED PATCHES - DEBRIS FLOW

SAMPLE ⑥ SILICIFIED DACITE (ALTERED)
~4% VERY FINE GRAINED PYRITE CLUSTERED MASSIVE
MIN MODERATE FRACTURE 218/78

SAMPLE ⑦ SILICIFIED ALTERED DACITE
4% PYRITE - VERY FINE GRAINED DISSEMINATED - CLUSTERED MASSIVE
MINIMAL FRACTURES

SAMPLE ⑧ ALTERED SILICIFIED DACITE
5% PYRITE - VERY FINE GRAINED DISSEMINATED - CLUSTERED MASSIVE
FRACTURE 167/79

ZONE ONE - TRENCH 5 - STARTS AT 117.5N 840W AZ 341



SAMPLE ① DACITE TUFF - 10-15% PYRITE
 VERY FINE GRAIN DISSEMINATED
 CLUSTERED MASSIVE
 MINOR FRACTURES - SPACE INTERVAL
 20CM 058/83

SAMPLE ② DACITE TUFF - BRECCIATED STOCKWORK
 SOUTH 30CM
 VERY FINE GRAINED PYRITE - 10%
 ALONG FRACTURES - MODERATE
 INTENSITY 4-10cm SPACING 053/82
 SHEAR 5CM ACROSS 067/75

SAMPLE ③ BRECCIATED DACITE TUFF - BRECCIA
 2-4cm STOCKWORK
 10-15% PYRITE VERY FINE GRAINED
 DISSEMINATED - CLUSTERED MASSIVE
 SHEAR 15cm WIDE 077/71

SAMPLE ④ BRECCIATED DACITE TUFF - SILICIFIED
 3% PYRITE - VERY FINE GRAINED CLUSTERED
 MASSIVE - MAJOR FRACTURES

SAMPLE ⑤ SILICIFIED DACITE TUFF (QUARTZ FLOODED)
 10-15% PYRITE IN FRACTURES
 VERY FINE GRAINED DISSEMINATED
 MOD FRACTURES - SHEAR 081/77
 50cm WIDE HEAVY SULPHUR STAINING
 QUARTZ VEINING + STOCKWORK

SAMPLE ⑥ SAMPLE 40cm WIDE QUARTZ FLOODED
 DACITE TUFF - BLEACHED - 5% PYRITE
 DISSEMINATED ALONG FRACTURES
 HEAVY Fe STAINS

SAMPLE ⑦ Fe STAINED DACITE TUFF - BLEACHED
 5% PYRITE - VERY FINE GRAINED
 DISSEMINATED - CLUSTERED MASSIVE

SAMPLE ⑧ DACITE TUFF - SHEAR ZONE
 30.3/85 INTENSE SHEAR 2-4mm SPACING
 2% PYRITE - VERY FINE GRAINED DISSEM-
 INATED

SAMPLE ⑨ SILICIFIED DACITE TUFF - SHEAR ZONE
 095/60 3cm SPACING
 Fe + S STAINS
 2% PYRITE - VERY FINE GRAINED
 DISSEMINATED

SAMPLE ⑩ 30cm SAMPLE DACITE DEBRIS FLOW
 POLYMETIC 3-6mm CLASTS
 15% PYRITE - VERY FINE GRAINED
 DISSEMINATED
 MINOR FAULT 071/72

SAMPLE ⑪ DACITE DEBRIS FLOW 2-4mm CLASTS
 10% QUARTZ FINE GRAINED PYRITE
 DISSEMINATED CLUSTERED MASSIVE

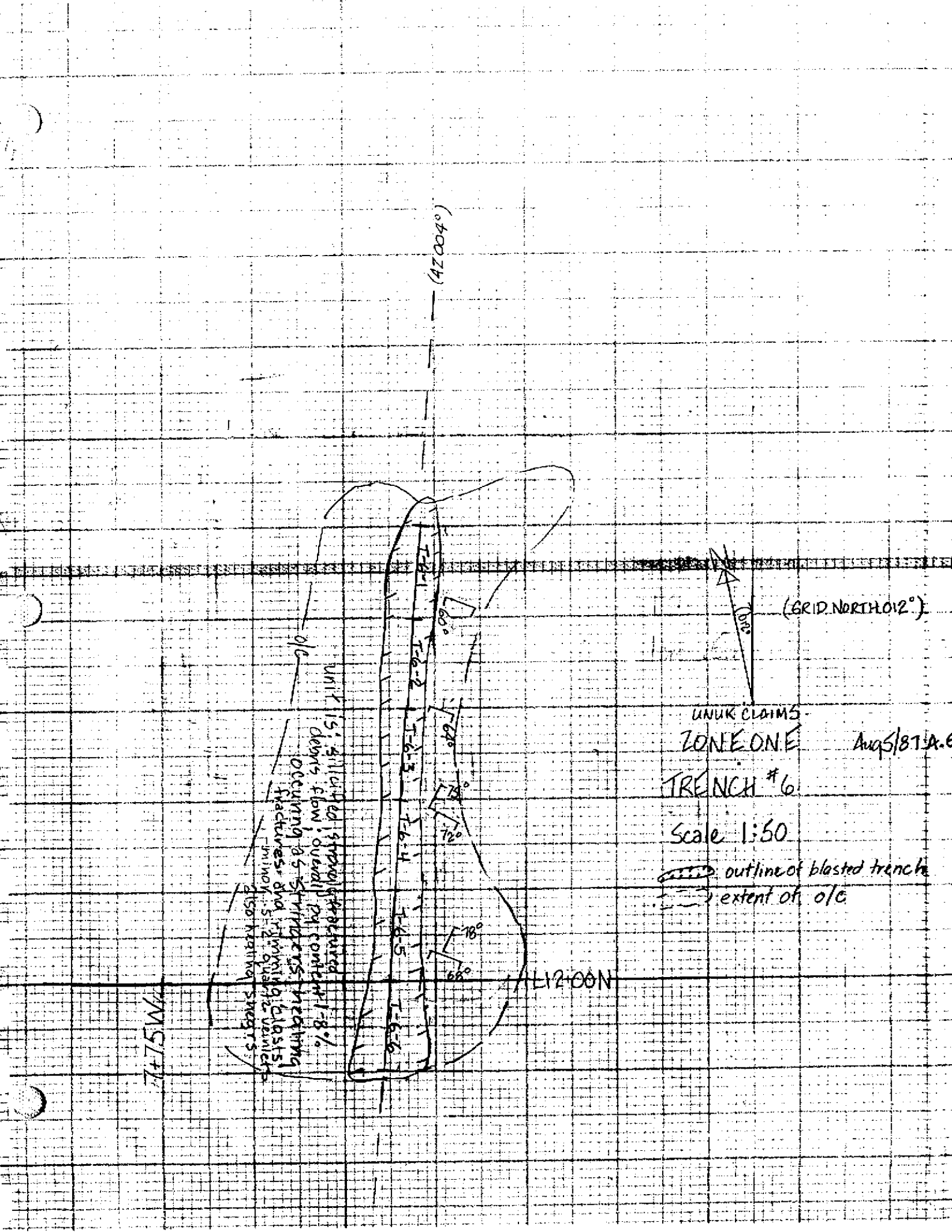
SAMPLE ⑫ DACITE DEBRIS FLOW - POLYMETIC
 PYRITE - 5% VERY FINE GRAINED
 DISSEMINATED CLUSTERED MASSIVE IN
 FRACTURE 043/83 059/56

SAMPLE ⑬ 30cm SAMPLE DACITE DEBRIS FLOW
 17% PYRITE - VERY FINE
 GRAINED DISSEMINATED - CLUSTERED
 MASSIVE

SAMPLE ⑭ DACITE DEBRIS FLOW HEAVY
 SHEAR - Fe STAIN - WHOLE ZONE
 FAULT GROOVE - CCMT CONSISTENTLY
 INTENSE SHEAR 087/83
 1% PYRITE - VERY FINE GRAINED
 DISSEMINATED

SAMPLE ⑮ DACITE DEBRIS FLOW
 PYRITE 10% - VERY FINE GRAINED
 DISSEMINATED
 INTENSE FRACTURE 2-7cm SPACING
 033/80
 Fe STAIN INTENSE HEMATITE
 REPLACED CLASTS

SAMPLE ⑯ DACITE DEBRIS FLOW
 1% PYRITE - VERY FINE GRAINED
 DISSEMINATED
 FRACTURE 033/80
 VERY INTENSE Fe STAIN



(A70040)

(GRID NORTH 012°)

UNUK CLAIMS
ZONE ONE

Aug 5/87 A.G.

TRENCH #6

Scale 1:50

outline of blasted trench
 extent of o/c

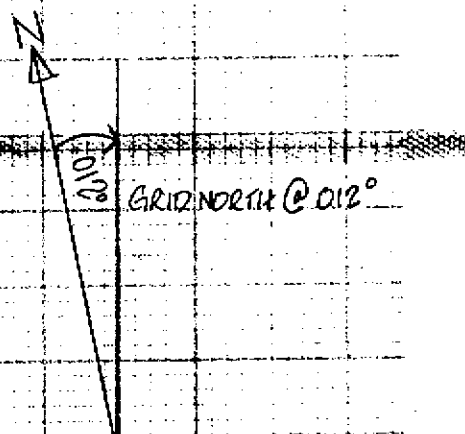
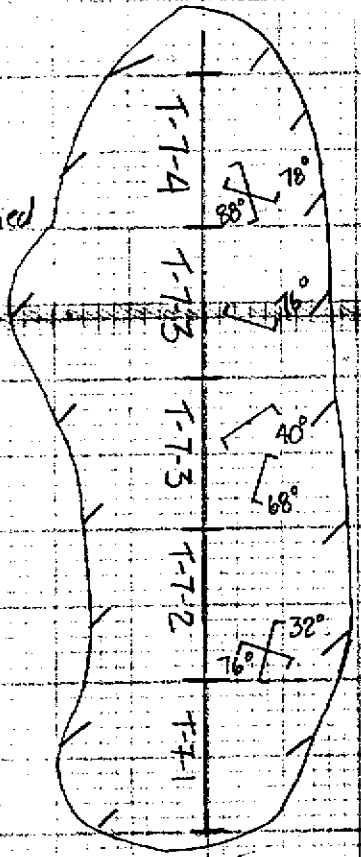
UNIT IS: silty clayey gravel & rounded
 debris flow overlain by cemented
 occurring as stringers, nodding
 fracturing and thinning of clasts;
 minor siltstone and quartz
 250' vertical swells

T-6-1
 T-6-2
 T-6-3
 T-6-4
 T-6-5
 T-6-6

L1200N

775W

Unit is a strong silicified & fractured debris flow rhyolitic in composition

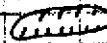
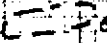


TRENCH MAP
DANUK CLAIMS
ZONE ONE
AUG 5/89
A.G.

TRENCH #7

Scale: 1:50

Sample interval: 1m

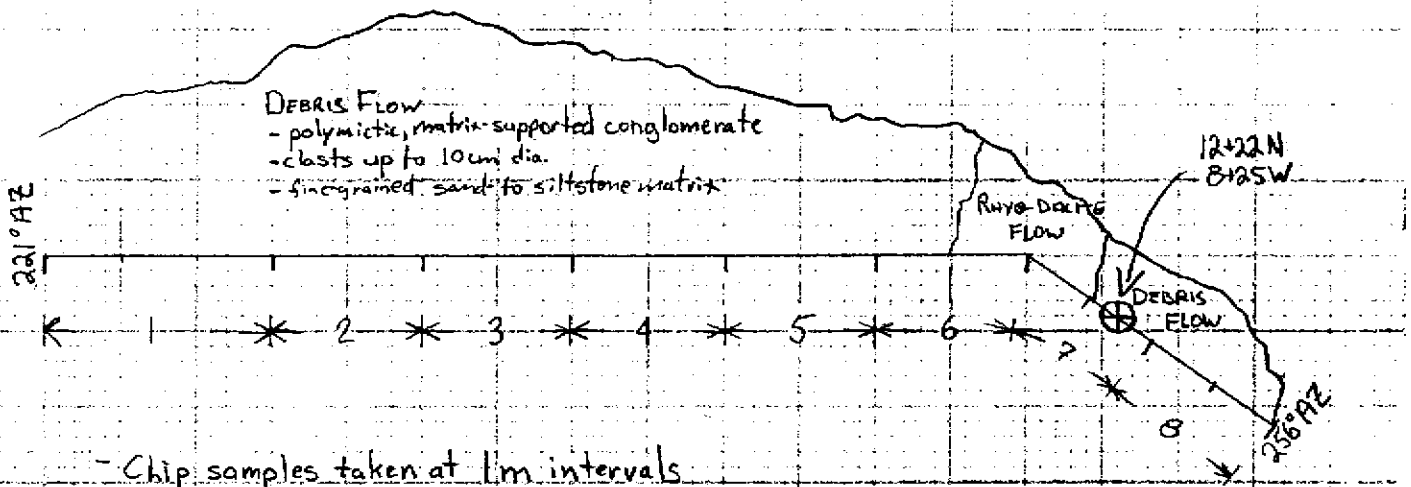
 blasted trench outline
 extent of outcrop

7+85W, 12+25N

SAMPLE LOCATION MAP
TRENCH 8

SCALE 1:50

Section looking SE



SAMPLE DESCRIPTIONS

TR8-1

- Silicified debris flow with stockwork fractures
- 1-5% disseminated py → locally concentrated in pods of up to 15% py.

TR8-2

- Silicified Debris Flow with stockwork fractures
- 1-3% disseminated py; 2% py along fractures

TR8-3

- Silicified debris flow with stock work fractures
- minor quartz veining, 2-5 mm wide
- 1-2% disseminated py; 3% py along fractures; 2% massive py in pods.

TR8-4

- Silicified debris flow with weak stock work fractures
- 1-10 mm wide quartz veins
- 1-2% dis. py; 1% py in fractures; 2% py along walls of quartz veins (rimming)

TR8-5

- Silicified debris flow with stockwork fractures
- 1% disseminated py; 5% py concentrated in pods

TR8-6

- Silicified Debris flow in contact with rhyo-dacite flow
- Debris flow section identical to sample 5; rhyo-dacite section contains minor silicification plus disseminated py

TR8-7

- Rhyo-dacite flow in contact with Silicified Debris flow
- Rhyo-dacite section the same as in sample 6; 1-2 mm wide quartz veins in Rhyo-dac.
- 1% dis. py in debris flow; 2-5% py along fractures in debris flow
- 1mm wide quartz veins in debris flow

TR8-8

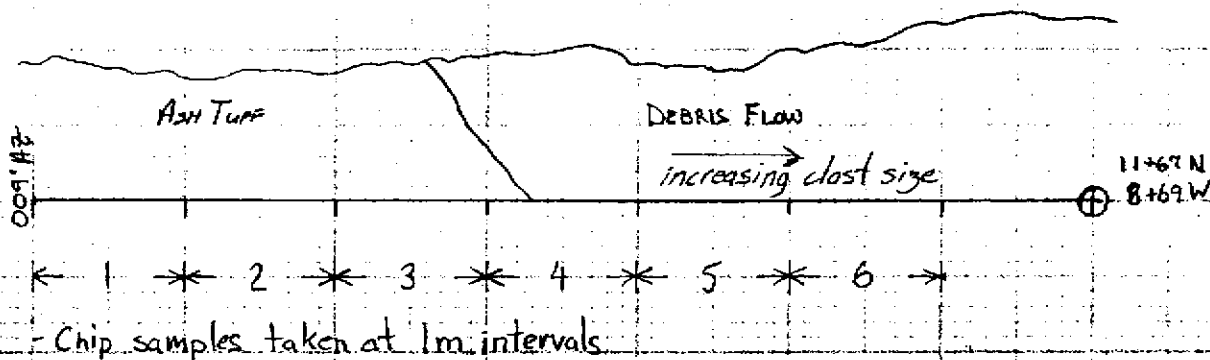
- Silicified Debris flow with weak stockwork fractures
- 2-10 mm wide quartz veins; 2% dis. py; 3-5% py along fractures.

SAMPLE LOCATION MAP

TRENCH 9

SCALE 1:50

Section looking SE



SAMPLE DESCRIPTIONS

TR9-1 - Silicified ash tuff

- 2% dis. py; 2% py along fractures and joints

TR9-2 - Silicified ash tuff

- 1% dis. py; 2% py in fractures

TR9-3 - Silicified ash tuff

- 1-6 mm wide quartz veins

- 2-3% dis. py; 2-3% py along fractures

- minor stockwork fractures

TR9-4 - Silicified debris flow

- Stockwork fractures

- 2% dis. py; 1% py in fractures

TR9-5 - Debris flow with minor silicification

- Stockwork fractures

- 1% dis. py; 5-10% py in clasts → replacement of clasts on infilling after dissolution of clasts

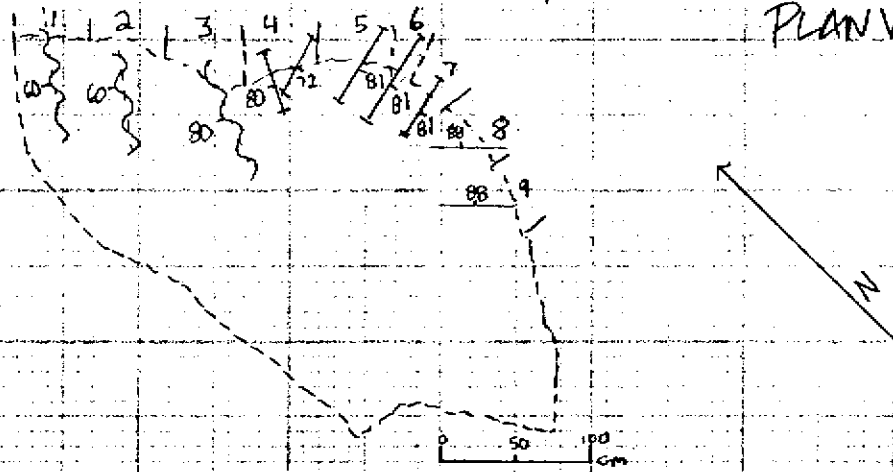
- 2-10 mm wide quartz veins

TR9-6 - Identical to sample 5 above

- minor quartz veining

AP ZONE TRENCH 1

SAMPLE ONE STARTS AT 376 N 582 W AZ 316 FACINGS



PLAN VIEW

R. Wright

SAMPLE ① QUARTZ FLOODED DACITE
 QUARTZ VEINS ALONG SHEAR 2-3mm
 1-5-10%
 2-3% PYRITE - VERY FINE GRAINED
 DISSEMINATED - MINOR BLEBS
 6-7mm
 SHEAR - INTENSE - SPACING = 2-3cm
 215/60

SAMPLE ⑥ FRACTURE ZONE - EPIDOTE ALTERED
 071/81
 QUARTZ FLOODED DACITE - HEAVY FE STAIN
 MASSIVE SULPHIDES
 15% PYRITE - VERY FINE GRAINED DISSEMINATED
 PLUS BLEBS 2-30mm
 12% SPHALERITE BLEBS - MASSIVE
 10% GALENA - BLEBS - DISSEMINATED

SAMPLE ② QUARTZ FLOODED DACITE
 ~2% PYRITE - VERY FINE GRAINED
 DISSEMINATED - UP TO 60%
 SHEAR - INTENSE SPACING 1-3cm
 215/60
 QUARTZ VEINS/STRINGERS -
 SPACING = 6-4mm 2-3mm WIDE
 10-5% ALONG SHEAR

SAMPLE ⑦ ALTERED DACITE HEAVY FE + S STAIN
 ALONG FRACTURE ZONE
 057/181
 12% PYRITE VERY FINE GRAINED
 DISSEMINATED + BLEBS + STRINGERS
 <1% SPHALERITE

SAMPLE ③ QUARTZ FLOODED DACITE
 PYRITE 2-5% VERY FINE GRAINED
 DISSEMINATED
 QUARTZ 10-20% 2-3mm WIDE
 SPACING = 4-6mm
 SHEAR INTENSE SPACING = 5-3mm
 201/80

SAMPLE ⑧ QUARTZ FLOODED DACITE
 10% QUARTZ STRINGERS 2mm WIDE
 8% PYRITE V-FINE GRAINED DISSEMINATED
 1% GALENA SMALL (<1mm) BLEBS +
 DISSEMINATED
 FRACTURE - MINOR 314/88

SAMPLE ④ QUARTZ FLOODED DACITE
 PYRITE FINE GRAINED - VERY
 FINE GRAINED - DISSEMINATED
 4-5%
 QUARTZ STRINGERS 2-3mm WIDE
 15-20% - 201/80
 FRACTURE - 072/81 EXTENSIVE
 201/80

SAMPLE ⑨ QUARTZ FLOODED DACITE
 5-8% PYRITE V-FINE GRAINED
 DISSEMINATED
 <1% GALENA
 MINOR FRACTURE 314/88

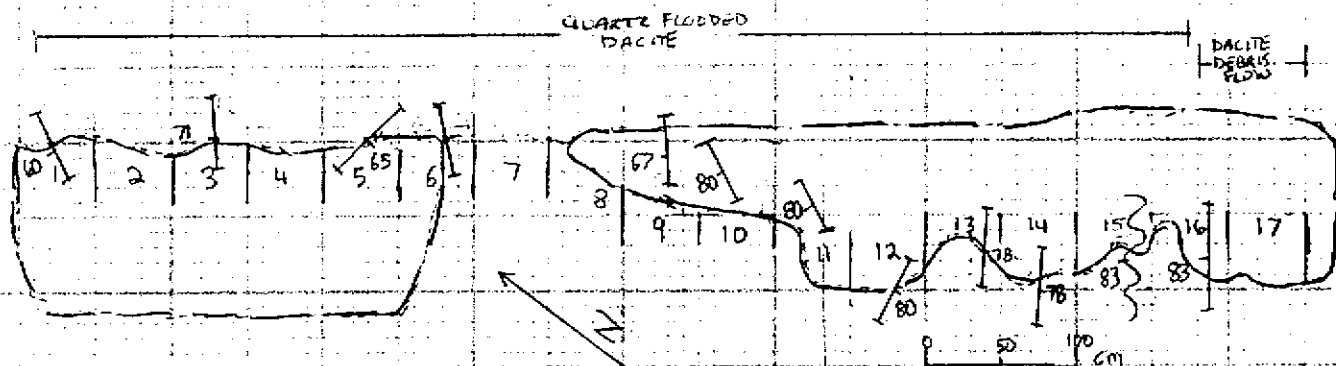
SAMPLE ⑤ FRACTURE ZONE - 071/81
 QUARTZ FLOODED DACITE
 PYRITE - 10% VERY FINE GRAINED
 FINE GRAINED DISSEMINATED
 MODERATE FE STAIN
 FRACTURE SPACING 3-10cm

⊂ outline of trench
 ↓ fractures

A.P. ZONE TRENCH 2

PLAN VIEW - R. WRIGHT

STARTS 372 N 586 W AZ 323 1-7 FACING S 8-17 FACING N



SAMPLE ① QUARTZ FLOODED DACITE - GREEN QUARTZ

6-8% V. → FINE GRAINED PYRITE - DISSEMINATED
8% QUARTZ VEINS - 2mm WIDE
MINOR FRACTURES 194/60

SAMPLE ② QUARTZ FLOODED DACITE

4-6% V. → FINE GRAINED PYRITE - DISSEMINATED
5-10% QUARTZ VEINS - 1-3mm STRINGERS
MINOR FRACTURES

SAMPLE ③ QUARTZ FLOODED DACITE

7% V. → FINE GRAINED & DISSEMINATED
5-10% QUARTZ 2-3mm WIDE STRINGERS
FRACTURE 2-5cm SPACING MODERATE INTENSITY
213/71

SAMPLE ④ QUARTZ FLOODED DACITE

7% QUARTZ VEINS - DISSEMINATED PYRITE
10% QUARTZ VEINS - 2-3mm WIDE STRINGERS
MINOR FRACTURES

SAMPLE ⑤ QUARTZ FLOODED DACITE

INTENSE FE STAIN
VEIN OF MASSIVE SULPHIDE ALONG
MINOR FRACTURE 083/65
20% PYRITE - STRINGERS & BLOBS MASSIVE
8% GALENA - BLOBS
VEIN - 7cm WIDE (WEST END)
10-12% V. → FINE GRAINED PYRITE IN HOLE

SAMPLE ⑥ QUARTZ FLOODED DACITE

30% QUARTZ VEINS - STRINGERS TRENDING AZ 204
2-3mm
10-15% PYRITE VERY FINE GRAINED DISSEMINATED
+ BLOBS
2% GALENA - BLOBS
1% SPHALGRITE BLOBS

SAMPLE ⑦ QUARTZ FLOODED DACITE

28% VERY FINE GRAINED DISSEMINATED PYRITE

SAMPLE ⑧ QUARTZ FLOODED DACITE

7% PYRITE - FINE GRAINED DISSEMINATED
25% QUARTZ VEINS - 2-3mm STRINGERS
FRACTURES FREE 104/71

SAMPLE ⑨ QUARTZ FLOODED DACITE

4% FINE GRAINED DISSEMINATED PYRITE
FRACTURE - SPACING 2-7cm
213/67

SAMPLE ⑩ QUARTZ FLOODED DACITE

40% QUARTZ VEINS
9% V. → FINE GRAINED PYRITE - DISSEMINATED
MINOR FRACTURE 190/80

SAMPLE ⑪ QUARTZ FLOODED DACITE

15-20% QUARTZ STRINGERS
10% PYRITE FINE GRAINED DISSEMINATED
FRACTURE 190/80

SAMPLE ⑫ QUARTZ FLOODED DACITE

HEAVY FE STAIN
9% PYRITE - FINE GRAINED DISSEMINATED
FRACTURE 066/80

SAMPLE ⑬ QUARTZ FLOODED DACITE

8% PYRITE FINE GRAINED DISSEMINATED
INTENSE → MODERATELY FRACTURED
4cm SPACING 041/78

SAMPLE ⑭ QUARTZ FLOODED DACITE

8% PYRITE - FINE GRAINED DISSEMINATED
SHEAR 041/78

SAMPLE ⑮ QUARTZ FLOODED DACITE - SHEAR ZONE 50cm

10% VERY FINE GRAINED DISSEMINATED
1% GALENA - BLOBS
SHEAR ZONE 217/83

SAMPLE ⑯ QUARTZ FLOODED DACITE (30cm)

DACITE DEBRIS FLOW (20cm W) MONOMICTIC
8% PYRITE - VERY FINE GRAINED
DISSEMINATED
MINOR FRACTURE 217/83

SAMPLE ⑰ DACITE DEBRIS FLOW

2% VERY FINE GRAINED PYRITE
DISSEMINATED
MINOR FRACTURES

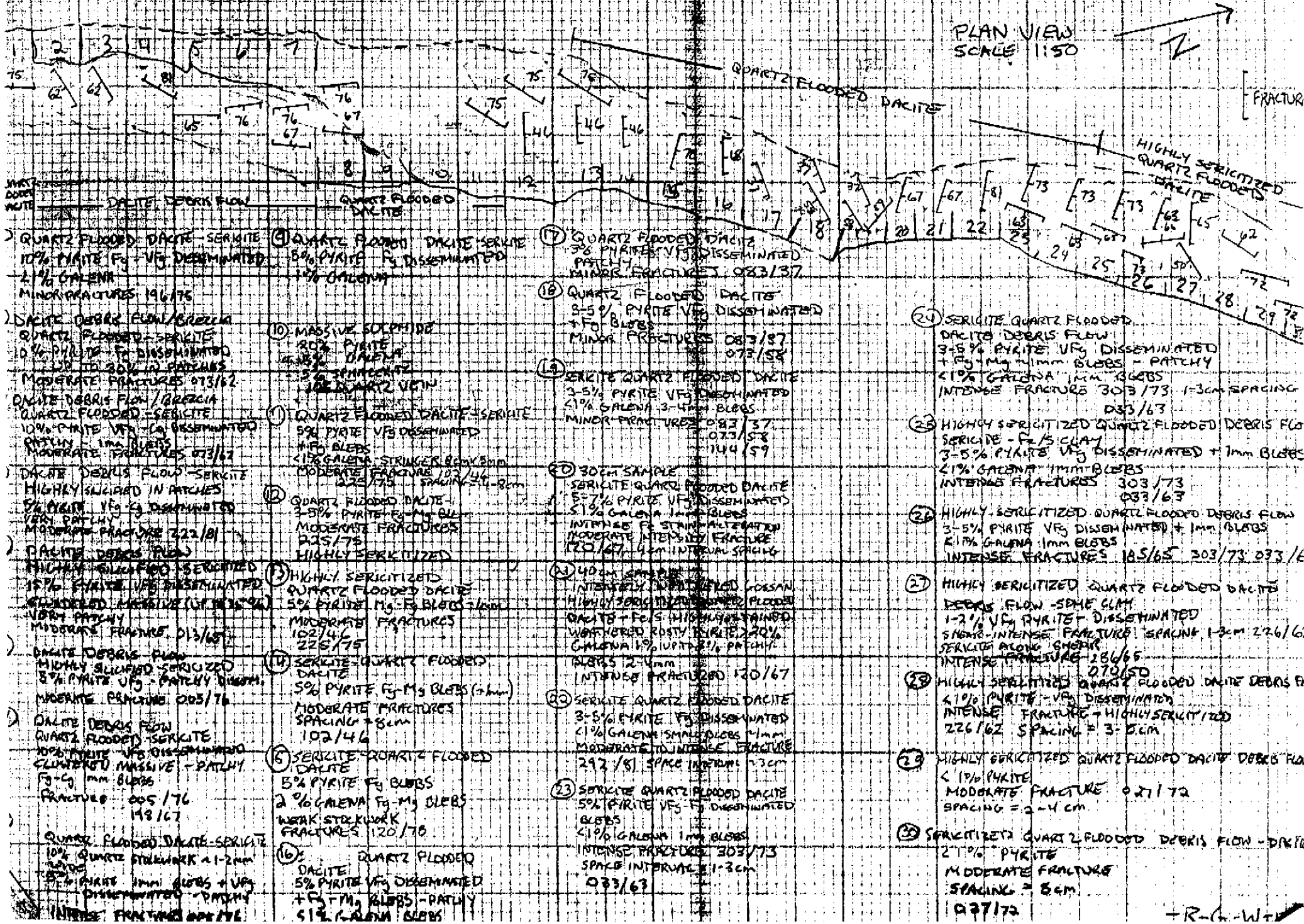
Outline of trenched area

fractures

A.P. ZONE TRENCH 3

STARTS AT STON 6HSW AZ 013 FACING West

PLAN VIEW
SCALE 1:50



1) QUARTZ FLOODED DACITE - SERICITE
10% PYRITE F_2 - V_f DISSEMINATED
1% GALENA
MINOR FRACTURES 196/76

2) DACITE DEBRIS FLOW / SERICITE
QUARTZ FLOODED - SERICITE
0% PYRITE F_2 DISSEMINATED
MODERATE FRACTURES 073/62

3) QUARTZ FLOODED DACITE - SERICITE
QUARTZ FLOODED - SERICITE
10% PYRITE V_f - C_2 DISSEMINATED
MODERATE FRACTURES 073/62

4) DACITE DEBRIS FLOW - SERICITE
HIGHLY SLICED IN PATCHES
5% PYRITE V_f - F_2 DISSEMINATED
MODERATE FRACTURES 222/81

5) DACITE DEBRIS FLOW
HIGHLY SERICITIZED
15% PYRITE V_f DISSEMINATED
MODERATE FRACTURES 013/65

6) QUARTZ FLOODED DACITE - SERICITE
HIGHLY SLICED SERICITIZED
8% PYRITE V_f - PATCHY DISSEM.
MODERATE FRACTURES 005/76

7) DACITE DEBRIS FLOW
QUARTZ FLOODED - SERICITE
10% PYRITE V_f DISSEMINATED
CLUSTERED MASSIVE - PATCHY
FRACTURES 005/76

8) QUARTZ FLOODED DACITE - SERICITE
10% QUARTZ STRENGTH $\approx 1-2mm$
5% PYRITE 1mm GLEBS + V_f
DISSEMINATED - PATCHY
INTENSE FRACTURE 071/67

9) QUARTZ FLOODED DACITE - SERICITE
8% PYRITE F_2 DISSEMINATED
1% GALENA

10) MASSIVE SULPHIDE
20% PYRITE
1% GALENA
3% SPANGITE
10% QUARTZ VEIN

11) QUARTZ FLOODED DACITE - SERICITE
5% PYRITE V_f DISSEMINATED
1% GALENA
MODERATE FRACTURE 102/46

12) QUARTZ FLOODED DACITE
3-5% PYRITE F_2 - M_2 GLEBS
MODERATE FRACTURES
225/75

13) HIGHLY SERICITIZED
QUARTZ FLOODED DACITE
5% PYRITE M_2 - F_2 GLEBS 3mm
MODERATE FRACTURES
102/46

14) SERICITE QUARTZ FLOODED
DACITE
5% PYRITE F_2 - M_2 GLEBS (3mm)
MODERATE FRACTURES
SPACING = 8cm
102/46

15) SERICITE QUARTZ FLOODED
DACITE
5% PYRITE F_2 GLEBS
2% GALENA F_2 - M_2 GLEBS
WEAK STRENGTH
FRACTURES 120/70

16) QUARTZ FLOODED
DACITE
5% PYRITE V_f DISSEMINATED
+ F_2 - M_2 GLEBS - PATCHY
5% GALENA GLEBS

17) QUARTZ FLOODED DACITE
3% PYRITE V_f DISSEMINATED
PATCHY
MINOR FRACTURES 083/37

18) QUARTZ FLOODED DACITE
3-5% PYRITE V_f DISSEMINATED
+ F_2 GLEBS
MINOR FRACTURES 083/87

19) SERICITE QUARTZ FLOODED DACITE
3-5% PYRITE V_f DISSEMINATED
5% GALENA 3-4mm GLEBS
MINOR FRACTURES 083/37

20) 30cm SAMPLE
SERICITE QUARTZ FLOODED DACITE
5-7% PYRITE V_f DISSEMINATED
5% GALENA 1mm GLEBS
INTENSE F_2 STAIN ALTERNATION
MODERATE INTENSE FRACTURE
120/67 4cm INTERVAL SPACING

21) 40cm SAMPLE
INTENSELY SERICITIZED
HIGHLY SERICITIZED QUARTZ FLOODED
DACITE + F_2 HIGHLY STAINED
WOOLY RUSTY SERICITE 20%
GALENA 1% UPTO 2% PATCHY
GLEBS 2-4mm
INTENSE FRACTURE 120/67

22) SERICITE QUARTZ FLOODED DACITE
3-5% PYRITE V_f DISSEMINATED
5% GALENA 1mm GLEBS
MODERATE INTENSE FRACTURE
292/81 SPACE INTERVAL = 7cm

23) SERICITE QUARTZ FLOODED DACITE
5% PYRITE V_f DISSEMINATED
GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURE 303/73
SPACE INTERVAL = 1-3cm
033/63

24) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ F_2 - M_2 1mm GLEBS - PATCHY
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

25) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED + 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 033/63

26) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED + 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 185/65 303/73 033/63

27) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW - SOME CLAY
1-2% V_f PYRITE DISSEMINATED
5% GALENA - INTENSE FRACTURE SPACING 1-3cm 226/66
SERICITE ALONG SHEAR
INTENSE FRACTURE 186/66

28) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
5% PYRITE V_f DISSEMINATED
INTENSE FRACTURE + HIGHLY SERICITIZED
226/62 SPACING = 3-8cm

29) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
5% PYRITE V_f DISSEMINATED
INTENSE FRACTURE 021/72
SPACING = 2-4cm

30) SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW - DIRT
2% PYRITE
MODERATE FRACTURE
SPACING = 8cm
027/72

31) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

32) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

33) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

34) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

35) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

36) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED + 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 185/65 303/73 033/63

37) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW - SOME CLAY
1-2% V_f PYRITE DISSEMINATED
5% GALENA - INTENSE FRACTURE SPACING 1-3cm 226/66
SERICITE ALONG SHEAR
INTENSE FRACTURE 186/66

38) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
5% PYRITE V_f DISSEMINATED
INTENSE FRACTURE + HIGHLY SERICITIZED
226/62 SPACING = 3-8cm

39) HIGHLY SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW
5% PYRITE V_f DISSEMINATED
INTENSE FRACTURE 021/72
SPACING = 2-4cm

40) SERICITIZED QUARTZ FLOODED
DACITE DEBRIS FLOW - DIRT
2% PYRITE
MODERATE FRACTURE
SPACING = 8cm
027/72

41) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

42) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

43) SERICITE QUARTZ FLOODED
DACITE DEBRIS FLOW
3-5% PYRITE V_f DISSEMINATED
+ 1mm GLEBS
5% GALENA 1mm GLEBS
INTENSE FRACTURES 303/73 1-3cm SPACING
033/63

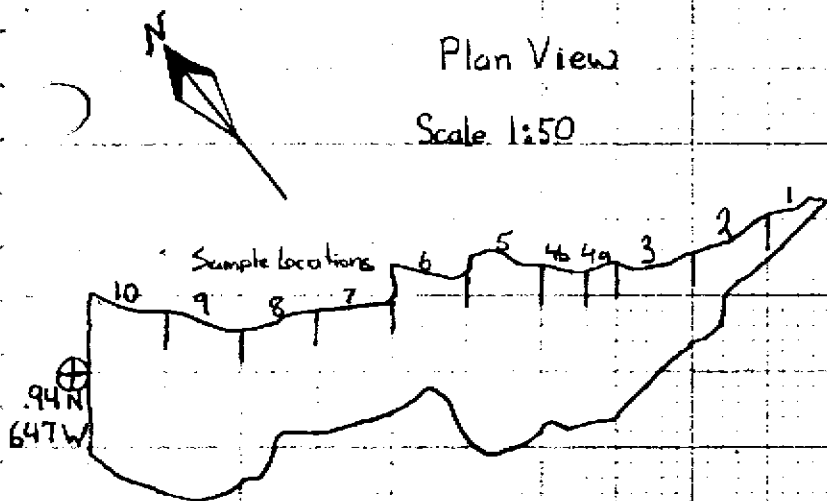
-R-G-W

ARMPIT ZONE

TRENCH 4

Plan View

Scale 1:50



Sample Descriptions

T4-1 - rhyolite
 - 1-2% disseminated py (1-3mm crystals)
 - 2mm wide drusy qtz vein w/py (~1%)
 - one 1cm wide qtz vein

T4-2 - Rhyolite
 - 2% disseminated py (1-3mm wide x-tals)
 - sparse rusty fractures

T4-3 - Rhyolite
 - 1-2% disseminated py
 - 2% py & 1% gal healing fractures
 - rusty joints w/ drusy qtz

T4-4a
 - Sample from fault → 20cm wide
 - highly weathered & leached
 - footwall portion similar to sample 4b
 - Attitude → 040°/60°SE

T4-4b footwall of fault
 - moderate to highly sheared rhyolite - Debris Flow
 - sericitized with up to 7% talc
 - 3% disseminated py

T4-5 - sericitized rhyolite Deb. Flow
 - angular clasts
 - 3-7% talc
 - 2% disseminated py
 - 2% py in blebs & fractures
 - foliation Az → undulatory, sub-parallel to fault

T4-6 - sheared-sericitized rhyolite Debris Flow
 - elongate clast bands → graphite?
 - 1-3% talc concentrated locally in shear
 - 1-2% disseminated py
 - 2-3% py in blebs & fractures

T4-7 - sheared-sericitized rhyolite Deb. Flow
 - 3-5% disseminated py
 - minor talc
 - 1% py in fractures

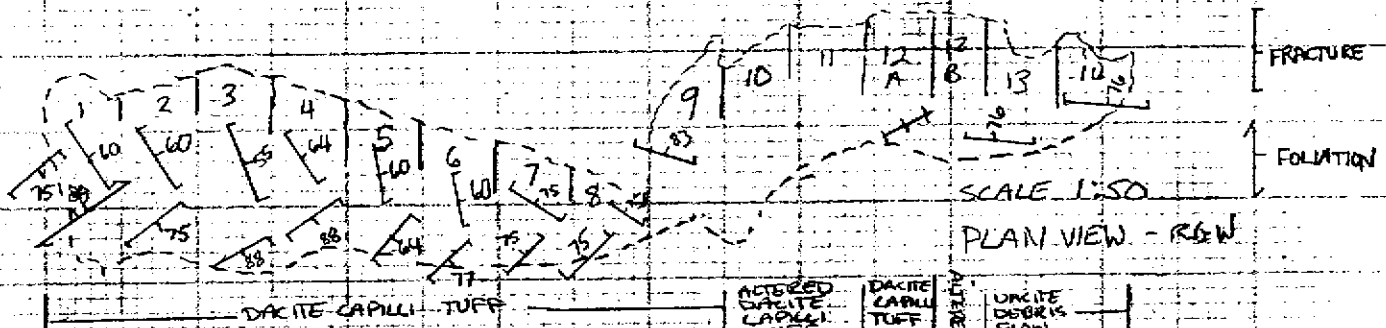
T4-8 - same as T4-7, but with stronger foliation → 025°/90°
 - trace talc

T4-9 - sheared-sericitized rhyolite Debris Flow
 - strong foln w/ 2-4% talc
 - 1-2% disseminated py
 - <1% py in fractures
 - (prominent graphite?)

T4-10 - Sericitized-rhyolite Debris Flow
 - minor shearings
 - 1-6% disseminated py
 - 1% py in fractures
 - trace talc in foln.

AP ZONE TRENCH 5

STARTS AT 250 N 690W AZ 177 FACING E



① DACITE LAPILLI TUFF - LAPILLI VARIABLE IN SIZE
 (1CM TO 4CM LONG)
 FOLIATION 328/88
 2-3% PYRITE VF_g DISSEMINATED
 MODERATE INTENSITY FRACTURE 060/60
 SPACING = 3-6CM
 142/75 9CM SPACING

② DACITE LAPILLI TUFF
 2% VF_g DISSEMINATED PYRITE + BLENDS 2-3mm
 MODERATE INTENSITY FRACTURES 060/60 3-6cm SPACING
 142/75 3-6cm SPACING

③ DACITE LAPILLI TUFF
 5% PYRITE VF_g DISSEMINATED + BLENDS + STRINGERS
 ALONG FRACTURE PLANES (< 1mm WIDE)
 INTENSE FRACTURE 070/55 4-6cm SPACING
 MILD SHEAR 154/88 1.7cm SPACING

④ DACITE LAPILLI TUFF
 5% PYRITE VF_g DISSEMINATED + BLENDS + STRINGERS
 ALONG FRACTURE PLANES (2mm WIDE)
 MODERATE FRACTURE 058/64 4-6cm SPACING
 WEAK SHEAR 146/88 < 1cm SPACING

⑤ DACITE LAPILLI TUFF
 3-5% PY VF_g DISSEMINATED + BLENDS
 INTENSE FRACTURE 083/60 3-6cm SPACING
 WEAK SHEAR 134/64 < 2cm SPACING

⑥ DACITE LAPILLI TUFF
 8-10% PYRITE VF_g DISSEMINATED + BLENDS + STRINGERS
 ALONG HAIRLINE FRACTURES
 WEAK SHEAR 140/77
 MODERATE FRACTURE 083/60

⑦ DACITE LAPILLI TUFF
 3-5% PYRITE VF_g DISSEMINATED + BLENDS
 WEAK SHEAR 035/75
 FRACTURE 318/75

⑧ DACITE LAPILLI TUFF
 5-7% PYRITE VF_g DISSEMINATED + BLENDS
 WEAK SHEAR 035/75
 FRACTURE 318/75

⑨ DACITE LAPILLI TUFF
 3-5% PYRITE - VF_g DISSEMINATED
 FRACTURE 020/83

⑩ 45cm SAMPLE
 HIGHLY ALTERED FE/S STAINED DACITE
 LAPILLI TUFF - WEATHERED TO CLAY
 710% PYRITE DISSEMINATED + BLENDS
 < 1% GALENA - SMALL BLENDS

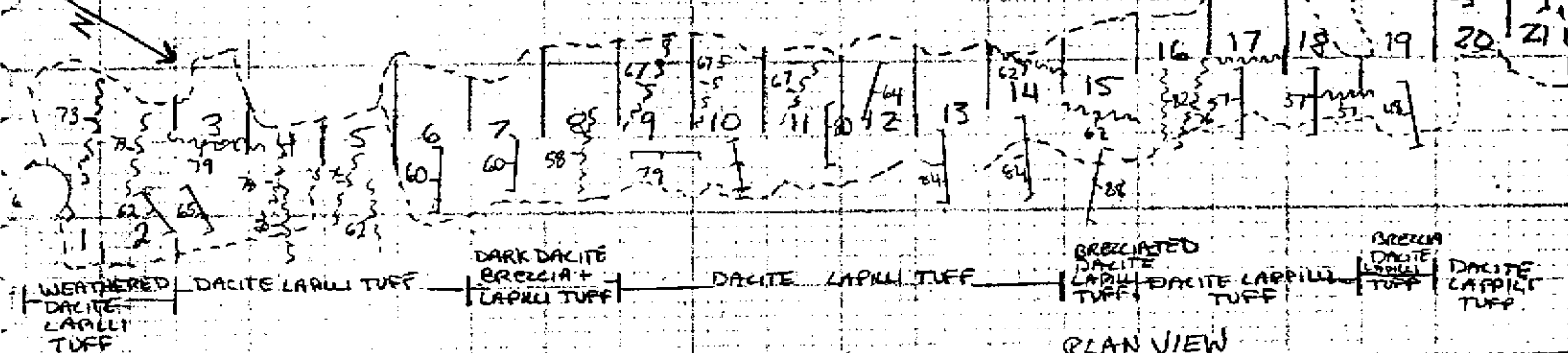
⑪ 50cm SAMPLE
 HIGHLY ALTERED FE/S DACITE LAPILLI TUFF
 - WEATHERED
 710% VF_g DISSEMINATED PYRITE BLENDS

⑫A 45cm SAMPLE
 DACITE LAPILLI TUFF
 10% QUARTZ VEIN ~ 2mm WIDE IN HAIRLINE
 FRACTURES
 3-5% PYRITE VF_g DISSEMINATED + BLENDS (< 1mm)
 WEAK FRACTURES 335/90

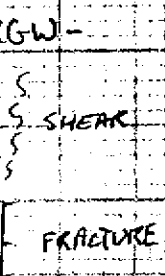
⑫-B 30cm SAMPLE
 NOT BULK ALTERED DACITE
 5% QUARTZ VEINS ALONG FRACTURES
 5-10% PYRITE IN STRINGERS IN HAIRLINE
 FRACTURES + BLENDS
 FRACTURE 335/90

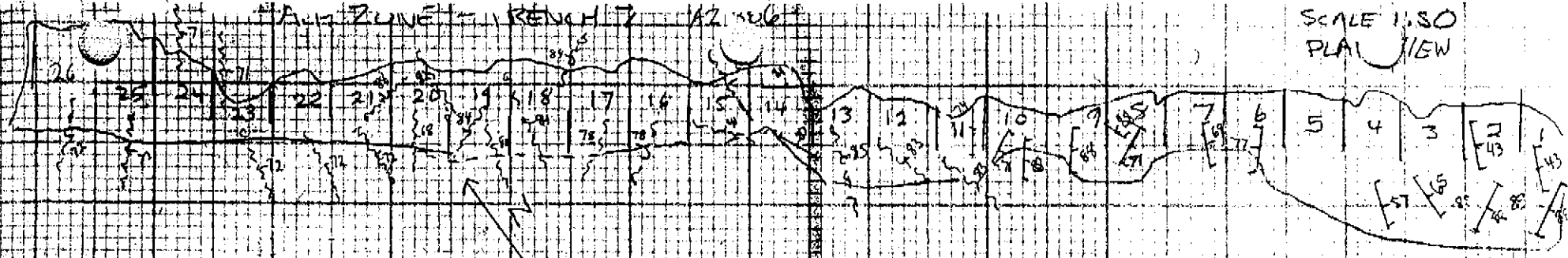
⑬ DACITE DEBRIS FLOW
 1-2% PYRITE VF_g DISSEMINATED + STRINGERS
 ALONG HAIRLINE FRACTURES
 FRACTURE 009/76

⑭ DACITE DEBRIS FLOW
 1% PYRITE VF_g DISSEMINATED + BLENDS
 WEAK SHEAR 009/76 SPACING = 3-12cm



- ① HIGHLY WEATHERED DACITE LAPILLI TUFF - INTENSE Fe/S STAIN FOLIATION IN LAPILLI 340/69
3-5% PYRITE VFg DISSEMINATED
+ SMALL BLOBS (2mm)
WEAK SHEAR 072/73
SPACING = 2-4cm
INTENSE FRACTURE 024/67
3-6cm SPACING
- ② DACITE LAPILLI TUFF - INTENSE Fe/S STAIN
2-3% PYRITE VFg DISSEMINATED + SMALL BLOBS (1mm ALONG FRACTURES)
WEAK SHEAR 072/73 SPACING = 2-4cm
INTENSE FRACTURE 024/62
SPACING = 3-6cm
- ③ DACITE LAPILLI TUFF
100% DARK GREY QUARTZ (-2-3mm WIDED ALONG FRACTURES)
SEMI STOCKWORK
1-2% PYRITE VFg DISSEMINATED + BLOBS (ALONG FRACTURES)
INTENSE FRACTURES 031/65
4cm SPACING
SHEAR 349/79 ~ 1cm SPACING
- ④ DACITE LAPILLI TUFF
4-5% PYRITE VFg DISSEMINATED + SMALL BLOBS
SHEAR 046/78
SHEAR 068/67 MORE INTENSE
- ⑤ DACITE LAPILLI TUFF
SHEARING MORE INTENSE
10-15% PYRITE VFg DISSEMINATED
SHEAR 072/62 SPACING 2-4cm
SHEAR 039/76 SPACING 4-6cm
- ⑥ DACITE LAPILLI TUFF
10-15% PYRITE VFg DISSEMINATED + STRINGERS (ALONG SHEAR)
5% QUARTZ VEIN STOCKWORK
BRECCIATION
FRACTURE 057/60 BRECCIATION
- ⑦ DARK DACITE BRECCIA + LAPILLI TUFF
15-20% PYRITE VFg DISSEMINATED + STRINGERS (ALONG SHEAR)
5% QUARTZ VEIN STOCKWORK
BRECCIATION
FRACTURE 057/60 BRECCIATION
- ⑧ DARK DACITE BRECCIA + LAPILLI TUFF
10-20% PYRITE VFg DISSEMINATED + STRINGERS ALONG SHEAR
SHEAR 062/58
- ⑨ DACITE LAPILLI TUFF
8-10% PYRITE VFg DISSEMINATED
SHEAR 081/67
MINOR SHEAR 328/79
- ⑩ DACITE LAPILLI TUFF
2% PYRITE VFg DISSEMINATED ALONG HAIRLINE FRACTURE
SHEAR 081/67
FRACTURE 230/90 SPACING 4-6cm
- ⑪ DACITE LAPILLI TUFF
5-8% PYRITE VFg DISSEMINATED ALONG HAIRLINE FRACTURES
SHEAR 081/67 4-6cm SPACING
FRACTURE 240/90
- ⑫ DACITE LAPILLI TUFF
PARTIALLY BRECCIATED
3-5% PYRITE VFg DISSEMINATED
FRACTURE 258/64
SPACING 4-6cm
- ⑬ DACITE LAPILLI TUFF
3-5% PYRITE VFg DISSEMINATED
FRACTURES 055/84 - MODERATE
- ⑭ DACITE LAPILLI TUFF
2% PYRITE VFg DISSEMINATED
WEAK SHEAR 345/62
FRACTURE 055/84
MODERATE
- ⑮ DACITE LAPILLI TUFF
BRECCIATED STOCKWORK
DARK QUARTZ
5-8% VFg DISSEMINATED
PYRITE + STRINGERS ALONG HAIRLINE FRACTURES + SMALL BLOBS
WEAK SHEAR 345/62
HAIRLINE FRACTURES
257/68
- ⑯ BRECCIATED DACITE LAPILLI TUFF - 10% ALTERATION ALONG HAIRLINE FRACTURES
DARK QUARTZ
5-7% PYRITE VFg DISSEMINATED
WEAK SHEAR 240/52
STRONG SHEAR 258/76
- ⑰ DACITE LAPILLI TUFF
5-7% PYRITE VFg DISSEMINATED + BLOBS + STRINGERS ALONG HAIRLINE FRACTURE
WEAK SHEAR 330/90
FRACTURE 063/57 SPACING 3-8cm
- ⑱ DACITE LAPILLI TUFF
5% VFg DISSEMINATED PYRITE + STRINGERS ALONG HAIRLINE FRACTURES
WEAK SHEAR 330/90
FRACTURE 063/57
SPACING = 3-8cm
- ⑲ BRECCIATED DACITE LAPILLI TUFF
5% VFg DISSEMINATED PYRITE + STRINGERS ALONG FRACTURE
044/48 (JOINT) 6-8cm SPACING
- ⑳ DACITE LAPILLI TUFF
5-10% PYRITE VFg DISSEMINATED
FRACTURE 044/48
- ㉑ DACITE LAPILLI TUFF
4-7% PYRITE VFg DISSEMINATED + STRINGERS (-1mm)
JOINT 044/48





DARK ANDESITE
3% PYRITE PATCHY BLOBS 4-6mm + VF₂ DISSEMINATED
+ STRINGERS ALONG HARLINE FRACTURES
4-5% GALENA FRACTURE SETS - VERY INTENSE
061/88 SPACING = 1.5cm
026/43

SILICIFIED DACITE - TUFF
3-5% PYRITE BLOBS < 1cm TO 2cm + VF₂ DISSEMINATED +
STRINGERS ALONG HARLINE FRACTURES + BLOBS
1-2% GALENA 1-4mm BLOBS
2 FRACTURE JOINT SETS 061/88
026/43

SILICIFIED DACITE TUFF
7-10% PYRITE BLOBS 1-4mm + VF₂ DISSEMINATED +
STRINGERS ALONG HARLINE FRACTURES
1-2% GALENA ALONG FRACTURES
INTENSE FRACTURES 060/65

SILICIFIED DACITE TUFF
15% PYRITE + ARSENOPYRITE (?) SPHEROIDAL BLOBS (4mm)
+ STRINGERS ALONG HARLINE FRACTURES + F₂ DISSEMINATED
2% GALENA BLOBS 1-4mm
INTENSE FRACTURES 019/57

SILICIFIED DACITE TUFF
15% PYRITE + ARSENOPYRITE (?) SPHEROIDAL BLOBS
+ STRINGERS ALONG HARLINE FRACTURES +
F₂ DISSEMINATED
2% GALENA BLOBS (1-4mm)
MINOR FRACTURES

SILICIFIED DACITE TUFF
10-15% PYRITE + ARSENOPYRITE (?) SPHEROIDAL BLOBS
+ STRINGERS ALONG HARLINE FRACTURES + F₂ DISSEMINATED
1-2% GALENA SMALL BLOBS 1-3mm
MODERATE FRACTURE 025/77 5-7cm SPACING

SILICIFIED DACITE TUFF
5-7% PYRITE + ARSENOPYRITE (?) SPHEROIDAL BLOBS
+ STRINGERS ALONG HARLINE FRACTURES + F₂ DISSEMINATED
1% GALENA SMALL BLOBS 1-3mm
FRACTURE 016/69

SILICIFIED DACITE TUFF
5% VF₂ DISSEMINATED PYRITE + SMALL BLOBS
1% GALENA TINY BLOBS
FRACTURE 063/71
341/88

SILICIFIED DACITE TUFF
3-5% PYRITE VF₂ DISSEMINATED + SMALL BLOBS
1% GALENA 1-2mm BLOBS
FRACTURE 041/88

SILICIFIED DACITE TUFF
3% PYRITE VF₂ DISSEMINATED + PATCHY
MINOR FRACTURE 063/71
041/88

11 SILICIFIED DACITE TUFF
5-8% PYRITE SMALL BLOBS (4mm) DISSEMINATED
WEAK SHEAR 039/183
MODERATE FRACTURE 218/74 SPACING = 4cm

12 SILICIFIED DACITE TUFF
5-7% PYRITE F₂ DISSEMINATED (4mm) BLOBS
< 1% GALENA 2mm BLOBS
WEAK SHEAR 039/183

13 SILICIFIED DACITE TUFF
20% PYRITE BLOBS + MASSIVE
1% GALENA SMALL BLOBS
SHEAR 026/85

14 SILICIFIED DACITE TUFF + MASSIVE SULPHIDES
30-40% PYRITE + F₂ DISSEMINATED + MASSIVE
3-8% GALENA + MASSIVE WITH PYRITE + BLOBS
FRACTURE MODERATE 155/80
INTENSE 304/81

15 SILICIFIED DACITE TUFF + MASSIVE SULPHIDE
MASSIVE SULPHIDE ALONG SHEAR
20-25% PYRITE + F₂ DISSEMINATED + MASSIVE
2-3% GALENA BLOBS ASSOCIATED WITH PYRITE
INTENSE FRACTURE 309/81
SHEAR - MINERALIZED 003/14

16 SILICIFIED DACITE TUFF + MASSIVE SULPHIDE
25-30% PYRITE VF₂ DISSEMINATED + MASSIVE
3-5% GALENA IN MASSIVE SULPHIDES
MASSIVE ALONG SHEAR 003/74
PATCHY OUTSIDE SHEAR 10-15% PYRITE
SHEAR 235/78

17 QUARTZ FLOODED + SERICITE DACITE DEBRIS FLOW
MASSIVE SULPHIDES IN BOTTOM 1/4 OF TRENCH
PYRITE 20% VF₂ DISSEMINATED + STRINGERS
ALONG FRACTURE
3-8% GALENA ASSOCIATED WITH MASSIVE SULPHIDE
SHEAR 235/78

18 QUARTZ FLOODED DEBRIS FLOW + MASSIVE SULPHIDES
IN BOTTOM 1/4 OF TRENCH TOP 3/4 F HIGHLY
WEATHERED - SERICITIZED (2cm)
MASSIVE BLOBS 10-20cm LONG
30% PYRITE 30% SPHALERITE 30% GALENA
10% DEBRIS FLOW 1-2% CHALCOPIRITE
10-20% PYRITE OUTSIDE SHEAR ZONE
014/84 SHEAR ZONE
044/84 SHEAR ZONE

19 QUARTZ FLOODED DACITE DEBRIS FLOW
15-25% PYRITE - VF₂ DISSEMINATED +
STRINGERS ALONG FRACTURES BLOBS
5% GALENA BLOBS

20 DACITE DEBRIS FLOW BRECCIA - SERICITIZED
5-10% PYRITE - STRINGERS ALONG HARLINE FRACTURE
VF₂ DISSEMINATED
INTENSE SHEAR 036/68
INTENSE SHEAR 187/82

21 DACITE DEBRIS FLOW
1-2% VF₂ DISSEMINATED PYRITE
WEAK SHEAR 005/72
SHEAR 256/88

22 DACITE DEBRIS FLOW
1% VF₂ DISSEMINATED PYRITE
WEAK SHEAR 005/72

23 DACITE DEBRIS FLOW
1% PYRITE VF₂ DISSEMINATED + STRINGERS
ALONG HARLINE FRACTURES
MODERATE SHEAR 036/71
FRACTURE 006/65

24 DACITE DEBRIS FLOW
1% PYRITE VF₂ DISSEMINATED + BLOBS REPLACEMENT
OF CLASTS
MODERATE SHEAR 036/71

25 DACITE DEBRIS FLOW
1% PYRITE VF₂ DISSEMINATED
MODERATE SHEAR 043/72

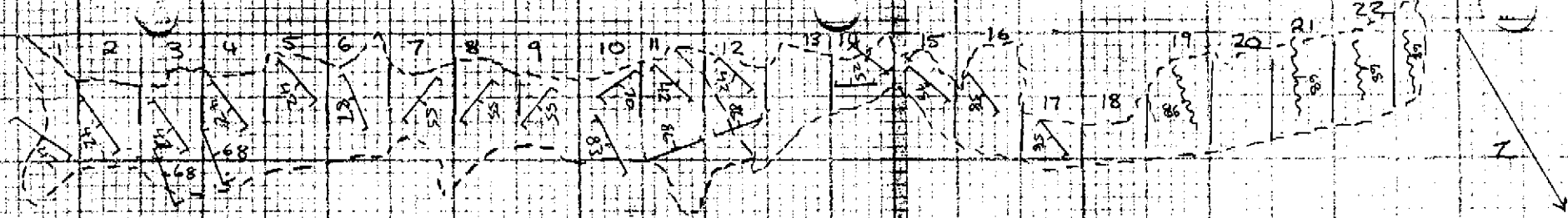
26 HIGHLY WEATHERED Fe/S STAINED
DACITE DEBRIS FLOW
PATCHY PYRITE 2-3% VF₂ DISSEMINATED
CLUSTERED UP TO 20%
MODERATE SHEAR 043/72

- R.G.W -

SHEAR

FRACTURE

AT LONG TRENCH 0 STATION - A 25 51N 72W



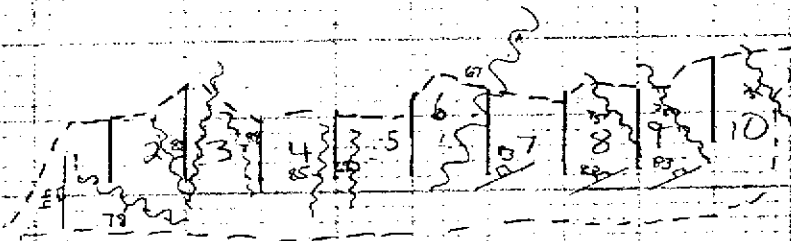
- ① QUARTZ FLOODED DACITE DEBRIS FLOW
5% QUARTZ VEIN (1-2mm WIDE) ALONG FRACTURE
10-12% PYRITE SMALL BLOSS < 1mm to 1mm
1-2% GALENA SMALL BLOSS 1-3mm + STRINGERS
<1% CHALCOPYRITE - TRACE
MINOR FRACTURE 355/42
- ② QUARTZ FLOODED DACITE DEBRIS FLOW
8-10% PYRITE SMALL BLOSS
MINOR FRACTURE 355/42
- ③ QUARTZ FLOODED DACITE DEBRIS FLOW
>20% PYRITE 1-3mm BLOSS
<1% GALENA 1-3mm BLOSS
MINOR FRACTURE 187/68
MINOR FRACTURE 355/42
- ④ QUARTZ FLOODED DACITE DEBRIS FLOW
12-20% PYRITE 1-3mm BLOSS to 4-5cm BLOSS
1% GALENA 1-5mm BLOSS
MINOR FRACTURE 189/68
MINOR FRACTURE 355/42
- ⑤ QUARTZ FLOODED DACITE DEBRIS FLOW
25-30% PYRITE 1-2mm BLOSS + STRINGERS
+ MASSIVE
1-2% GALENA
1% SPHALERITE
FRACTURE 355/42
- ⑥ QUARTZ FLOODED DACITE DEBRIS FLOW - BRECCIA
20% PYRITE <1mm + 3mm BLOSS + STRINGERS
1% GALENA BLOSS <1mm
FRACTURE 009/87
- ⑦ QUARTZ FLOODED DACITE - BRECCIA
HIGHLY SILICIFIED
20% PYRITE BLOSS + STRINGERS 1-20mm WIDE
<1% GALENA
MODERATE FRACTURE 068/55
- ⑧ QUARTZ FLOODED DACITE DEBRIS FLOW
BLACK MATRIX QUARTZ VEINING
10-15% PYRITE 1-2mm BLOSS + STRINGERS
ALONG QUARTZ VEIN
1-2% SPHALERITE 1-2mm BLOSS
<1% GALENA
MODERATE FRACTURE 068/55
- ⑨ QUARTZ FLOODED DACITE DEBRIS FLOW - BRECCIA
10-15% PYRITE <1-3mm BLOSS + STRINGERS ALONG FRACTURE
3-4% SPHALERITE - SMALL BLOSS
1% GALENA - SMALL BLOSS
- ⑩ QUARTZ FLOODED DACITE DEBRIS FLOW
HIGHLY WEATHERED Fe/S STAIN
10% PYRITE 1-3mm BLOSS
<1% GALENA SMALL BLOSS
<1% SPHALERITE
MINERAL ZONE FRACTURE 085/70
285/83
- ⑪ DACITE DEBRIS FLOW
5-7% PYRITE 1-4mm BLOSS + STRINGERS
FRACTURE 354/42
FRACTURE 000/86
- ⑫ DACITE DEBRIS FLOW - BLACK MATRIX
1-3% PYRITE 1mm BLOSS
FRACTURE 344/42
100/86
- ⑬ ARGILLITE WITH 10% CARBONATE VEINS (1-2mm)
1-3% PYRITE 1mm BLOSS
- ⑭ ARGILLITE WITH CARBONATE VEINS
1-2% PYRITE
FRACTURE 160/78
025/75
- ⑮ ARGILLITE WITH CARBONATE VEINS
1-2% PYRITE
FRACTURE 160/78
- ⑯ SILICIFIED DACITE DEBRIS FLOW - BRECCIA
5-10% PYRITE SMALL BLOSS < 3mm + STRINGERS
FRACTURE 351/58
- ⑰ QUARTZ FLOODED DACITE DEBRIS FLOW - BRECCIA
5-7% PYRITE - SMALL 1mm BLOSS
1 1mm WIDE STRINGERS
FRACTURE 351/58
- ⑱ SLIGHTLY SILICIFIED POLYMICTL DACITE DEBRIS FLOW
3-5% PYRITE BLOSS + STRINGERS
TRACE GALENA
- ⑲ POLYMICTL DACITE DEBRIS FLOW
2% PYRITE Vfy DISSEMINATED
WEAK SHEAR 010/86
- ⑳ POLYMICTL DACITE DEBRIS FLOW
2% PYRITE Vfy DISSEMINATED
WEAK SHEAR 205/68
- ㉑ POLYMICTL DACITE DEBRIS FLOW
1-2% PYRITE Vfy DISSEMINATED
WEAK SHEAR 208/68
- ㉒ POLYMICTL DACITE DEBRIS FLOW
1% PYRITE
WEAK SHEAR 208/68

FRACTURE
SHEAR

A.P. ZONE TRENCH 9 - STARTS AT 207N 742W AZ 310

PLAN VIEW

SCALE 1:50



① DEBRIS FLOW WITH MAFIC MATRIX AND DACITE CLASTS.
 10% QUARTZ VEINS 2-3mm WIDE ALONG HAIRLINE FRACTURES.
 20-25% PYRITE VF_g DISSEMINATED - CLUSTERED TO FORM BLEBS + STRINGERS ALONG HAIRLINE FRACTURES
 2% GALENA SMALL BLEBS 2-4mm
 JOINTS 041/44
 SHEAR 337/78

② DEBRIS FLOW WITH MAFIC MATRIX AND DACITE CLASTS.
 SERICITE ALTERATION
 20-25% PYRITE VF_g DISSEMINATED CLUSTERED TO FORM BLEBS + STRINGERS
 1% GALENA SMALL BLEBS
 SHEAR 177/88

③ DEBRIS FLOW WITH MAFIC MATRIX AND DACITE CLASTS
 HEAVY Fe + S STAIN + SERICITE AND CLAY ALTERATION.
 25-30% PYRITE BLEBS 2-3mm
 3% GALENA BLEBS 2-3mm
 SHEAR 197/88
 SHEAR 059/90

④ DACITE DEBRIS FLOW
 SERICITE ALTERATION
 HEAVY Fe + S STAIN
 10-15% PYRITE BLEBS + VF_g DISSEMINATED
 1% GALENA SMALL BLEBS
 SHEAR 051/85

⑤ DACITE DEBRIS FLOW
 SLIGHT SERICITE ALTERATION
 10-15% PYRITE - SMALL BLEBS + STRINGERS
 (UP TO 1cm WIDE)
 3% GALENA SMALL BLEBS
 SHEAR 051/69

⑥ SHEAR ZONE
 DACITE SILICIFIED DEBRIS FLOW BRECCIATED
 INTENSE SHEAR 069/67 to 85°
 PATCHY PYRITE 15% BLEBS + STRINGERS
 (UP TO 2cm WIDE)
 2% GALENA BLEBS
 HEAVY Fe + S STAIN

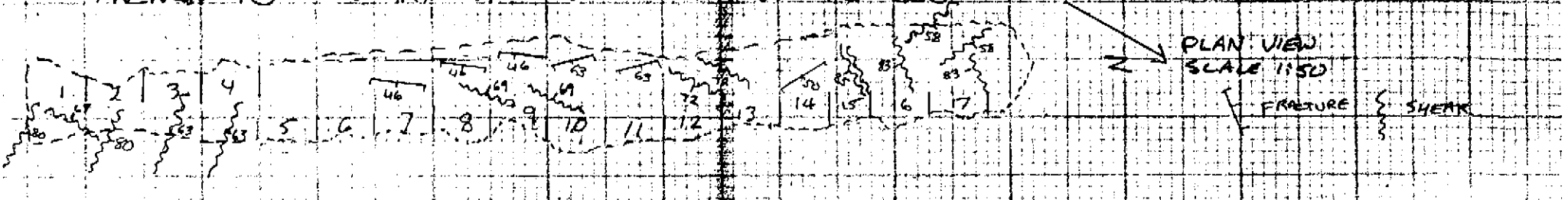
⑦ SHEAR ZONE
 SERICIZED SILICIFIED INTENSE SHEAR
 HEAVY Fe + S STAIN
 DACITE DEBRIS FLOW BRECCIATED
 CLUSTERED PYRITE BLEBS + STRINGERS
 SHEAR 069/67
 JOINTS 106/83 40cm SPACING

⑧ SILICIFIED SERICITE DACITE DEBRIS FLOW
 3-5% PYRITE BLEBS + VF_g DISSEMINATED
 + S STRINGERS + PATCHY
 SHEAR 004/75
 JOINTS 106/83

⑨ SILICIFIED SERICITE DACITE DEBRIS FLOW
 5% PYRITE SMALL BLEBS + STRINGERS
 SHEAR 004/75 INTENSE
 JOINT 106/83

⑩ SILICIFIED SERICITE DACITE DEBRIS FLOW
 10-15% PYRITE PATCHY VF_g DISSEMINATED
 + BLEBS + STRINGERS
 SHEAR 004/75 INTENSE

TRENCH 10 STARTS AT 390.5 N 56.9 W AZ 330

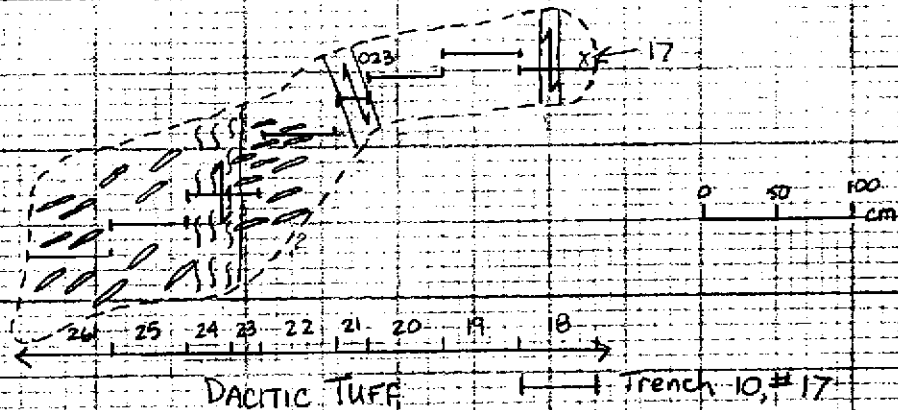


- ① QUARTZ FLOODED DACITE DEBRIS FLOW
20-30% QUARTZ VEIN ~ 10MM WIDE
WITH SLIGHT SERICITE ALTERATION
5% PYRITE Fg DISSEMINATED (+ AS?)
SHEAR 269/80 SPACING = 2-4cm
WEAK SHEAR 175/67
- ② QUARTZ FLOODED DACITE DEBRIS FLOW
20-30% QUARTZ VEINS 2-5MM WIDE
WITH SLIGHT SERICITE ALTERATION
5% PYRITE (+ AS?) Fg DISSEMINATED
SHEAR 269/80
- ③ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
25-30% QUARTZ VEIN 4-10MM WIDE
6% PYRITE (+ AS?) VFg DISSEMINATED
SHEAR 265/63
- ④ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
30% QUARTZ VEIN 3-6MM WIDE
3-5% PYRITE VFg DISSEMINATED
SHEAR 265/63
- ⑤ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
Fg STAINED WEATHERED SAMPLE
5% PYRITE VFg DISSEMINATED
1% GALENA SMALL BLOBS
TRACE SPHALERITE
WEAK SHEAR
- ⑥ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
WEATHERED
7% PYRITE Fg DISSEMINATED
WEAK SHEAR
- ⑦ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
WEATHERED
10% PYRITE VFg DISSEMINATED
WEAK SHEAR
FRACTURE 337/46
- ⑧ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
7-10% PYRITE VFg DISSEMINATED
1% GALENA SPHALERITE SMALL BLOBS
WEAK SHEAR
FRACTURE 337/46
- ⑨ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
15% VFg DISSEMINATED PYRITE + BLOBS 3-4mm
1-2% GALENA BLOBS 1-4mm
QUARTZ VEINING
SHEAR 204/69
FRACTURE 337/46
- ⑩ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
BRECCIATED
10-15% PYRITE 1mm BLOBS DISSEMINATED
1% GALENA 1-4mm BLOBS
QUARTZ VEINING
SHEAR 204/69
FRACTURE 316/63
- ⑪ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
20% QUARTZ VEIN
5-10% PYRITE Fg DISSEMINATED
1% GALENA 3-4mm BLOBS
FRACTURE 336/63
- ⑫ QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
10% PYRITE 1mm BLOBS
SHEAR 358/72
- ⑬ QUARTZ FLOODED DACITE DEBRIS FLOW
HIGHLY SERICITE ALTERED
SOME KALINITE + QUARTZ VEINING
5-10% PYRITE VFg DISSEMINATED
SHEAR 358/72
- ⑭ 38cm WIDE SAMPLE
QUARTZ FLOODED DACITE DEBRIS FLOW
HIGHLY SERICITE ALTERED
SOME KALINITE CLAY QUARTZ VEINING
35% PYRITE VFg DISSEMINATED
FRACTURE 296/50
- ⑮ 40cm WIDE SAMPLE
SHEAR ZONE: VERY INTENSE 035/75 = 85°
QUARTZ FLOODED SERICITE DACITE DEBRIS FLOW
WEATHERED
5-10% QUARTZ VEINS 2-4mm WIDE
7% PYRITE VFg DISSEMINATED +
STRINGERS ALONG HORIZONTAL FRACTURE
- ⑯ QUARTZ FLOODED DACITE BRECCIA
SERICITE ALTERED
10% Fg DISSEMINATED PYRITE 1mm BLOBS
SHEAR 035/83
SHEAR 294/58
- ⑰ QUARTZ FLOODED DACITE DEBRIS FLOW
SLIGHT SERICITE ALTERATION
25% QUARTZ VEINING 1-4mm WIDE
STRINGERS
5-7% PYRITE 1mm DISSEMINATED BLOBS
SHEAR 035/83
SHEAR 294/58

56.54° Az
32.9° Dip

AP ONE TRENCH 10 - EXTENSION WEST
 STARTS AT Sample 17, Trench 10, AT AZ 310° LOOKING North

TRACEY FEE!
 DAVE GABOURI
 SEPT. 11/89.



SAMPLE 18 50cm sample
 Dacitic lithic tuff
 Weakly sheared and Chloritized
 Weakly brecciated
 Minor carb alteration
 3-5% diss py, minor blebs.

SAMPLE 23 20cm sample
 Dacitic lithic tuff
 mod- strongly sericitized
 8-10 qtz veinlets / 10cm
 Minor chlorite and carb; alt
 4cm mylonitized shear
 3-5% diss py and stringers

SAMPLE 19 50cm sample
 Dacitic lithic tuff
 Weakly brecciated with minor sericite alt.
 Silicified and weakly sheared
 3-5% fn gr. diss py
 Minor qtz veinlets
 Yellow staining, minor carb. alt.

SAMPLE 24 50cm sample
 Dacitic lithic tuff
 Moderately sheared and sericite
 silicified and carb alt.
 Anastomosing shear planes
 at sericite schist 3-5/10cm
 Minor X-cutting qtz veinlets
 are shallow dipping
 with 2-3 / 10cm
 ~5% v fn gr. diss py
 3-5% diss py stringers.

SAMPLE 20 50cm sample
 Dacitic lithic tuff
 Weakly brecciated and weakly sheared
 Minor calc alt. + sericite alt.
 Silicified with minor qtz veinlets
 5-10% fn gr. diss py
 Yellow staining, minor carb. alt.

SAMPLE 25 50cm sample
 Dacitic lithic tuff
 Moderately sheared and sericite
 silicified and carb alt.
 Anastomosing shear planes
 Sericite schist 3-5/10cm
 Minor X-cutting qtz veinlets
 are shallow dipping
 with 2-3 / 10cm
 ~5% v fn gr. diss py
 Minor chlorite in qtz veinlets

SAMPLE 21 20cm sample
 Dacitic lithic tuff
 Mylonitized, strong shear zone
 Sericite and minor chlorite alt.
 ~30-40% irreg. qtz stringers
 2-3% diss py and minor stringers
 Sericitized talc-sphatic breccia frags
 Minor carb. alt.

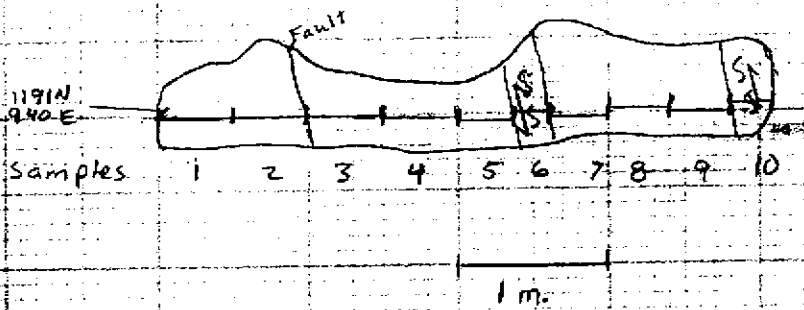
SAMPLE 26 50cm sample
 Dacitic lithic tuff
 Moderately sheared and sericite
 silicified and carb. alt.
 Anastomosing shear planes
 Sericite schist 3-5/10cm
 Minor X-cutting qtz veinlets
 are shallow dipping
 with 2-3 / 10cm
 ~5% v fn gr. diss py

SAMPLE 22 50cm sample
 Dacitic lithic tuff
 Moderately sericitized and silicified
 ~10 qtz veinlets / 10cm
 3-5% diss py and stringers
 Minor carb. alt.

AP Zone Trench 11 - az. 144, at 1191 N, 940 E

Looking North

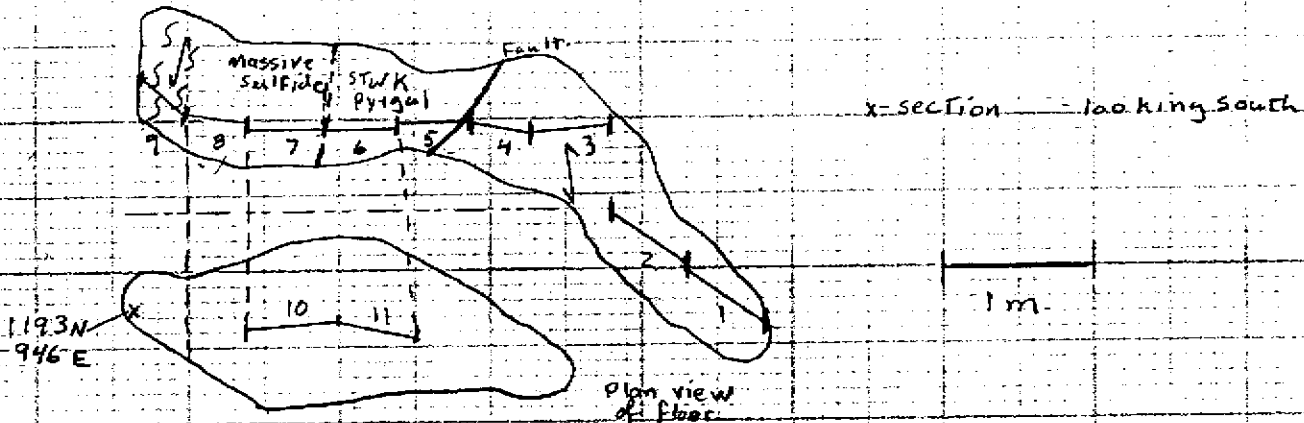
D. GABOURY



Samples

- #1 Debris flow, abundant sericitized fragments, weakly sheared, 2-3% py strgs, diss
- #2 debris flow, as above, minor silicified sections, 2-3% py strgs
- #3 weakly sheared debris flow, minor seric alth, + silic'n, 1-2% diss. py
- #4 weakly sheared debris flow, sericitized, silicified, 2-3% py blebs + strgs.
- #5 as above, minor carb. alth, 1-2% py
- #6 sheared debris flow, 10 cm wide fault zone + rusty clay gouge, minor sericite alth, 2-3% diss. py
- #7 weakly sheared debris flow, minor sericitized fragments, 2-3% py blebs + strgs
- #8 as above, 3-5% py blebs + strgs,
- #9 weakly sheared, silicified debris flow, minor Qtz-calcite vnlts, 5-8% py strgs + blebs
- #10 sheared debris flow, with 10 cm thick gouge + breccia zone, sericitized, weakly silicified, with 5-10% py strgs + blebs, minor diss py

AP Zone Trench 12, 1193N, 946E, az 325
D. GABOURY

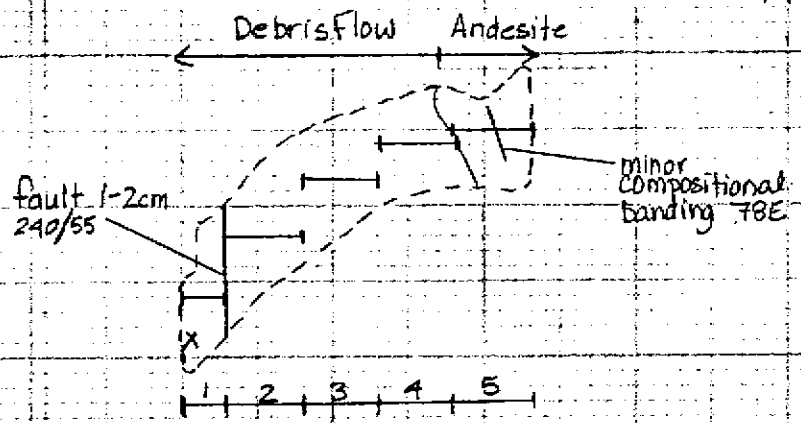


Samples

- #1 Debris flow, weakly sheared, sericitized fragments, 3-5% diss. + strgs. py
- #2 brecciated debris flow, weakly silicified, 5-8% fine diss. py, minor strgs.
- #3 silicified debris flow, seric. alt'n, with 10-15% py in stwk + strgs
- #4 brecciated, weakly sheared debris flow, 10% py strgs, Tr Asp
- #5 as above
- #6 silicified, brecciated debris flow, 20% py stwk + diss, 5-10% sph, 5% gal, 3-5% Asp
- #7 near massive sulphide, 30% py, 20% sph, 20% gal, 5-10% asp, Tr - 1% cpy
- #8 silicified debris flow, 20% py, 20% gal + sph, 1-3% asp, Tr cpy
- #9 rubble fault zone, with 5cm thick clay gouge, in strongly silicified, brecciated debris flow, rusty Fe-carb alt'n, 5-10% py, 3-5% gal + sph, Tr asp + cpy
- #10 silicified, brecciated debris flow, minor Qtz-carb stwk units, 5-10% py in strgs + diss, 3-5% gal, 1-2% sph, Tr - 1% asp
- #11 weakly sheared + brecciated debris flow, minor sericitized fragments, 3-5% py stwk + stringers, 1-3% gal + sph, Tr - 1% asp.

AP ZONE TRENCH 13
 STARTS AT 1193N, 946E AT AZ 146° LOOKING NORTH.

Tracey Feeney

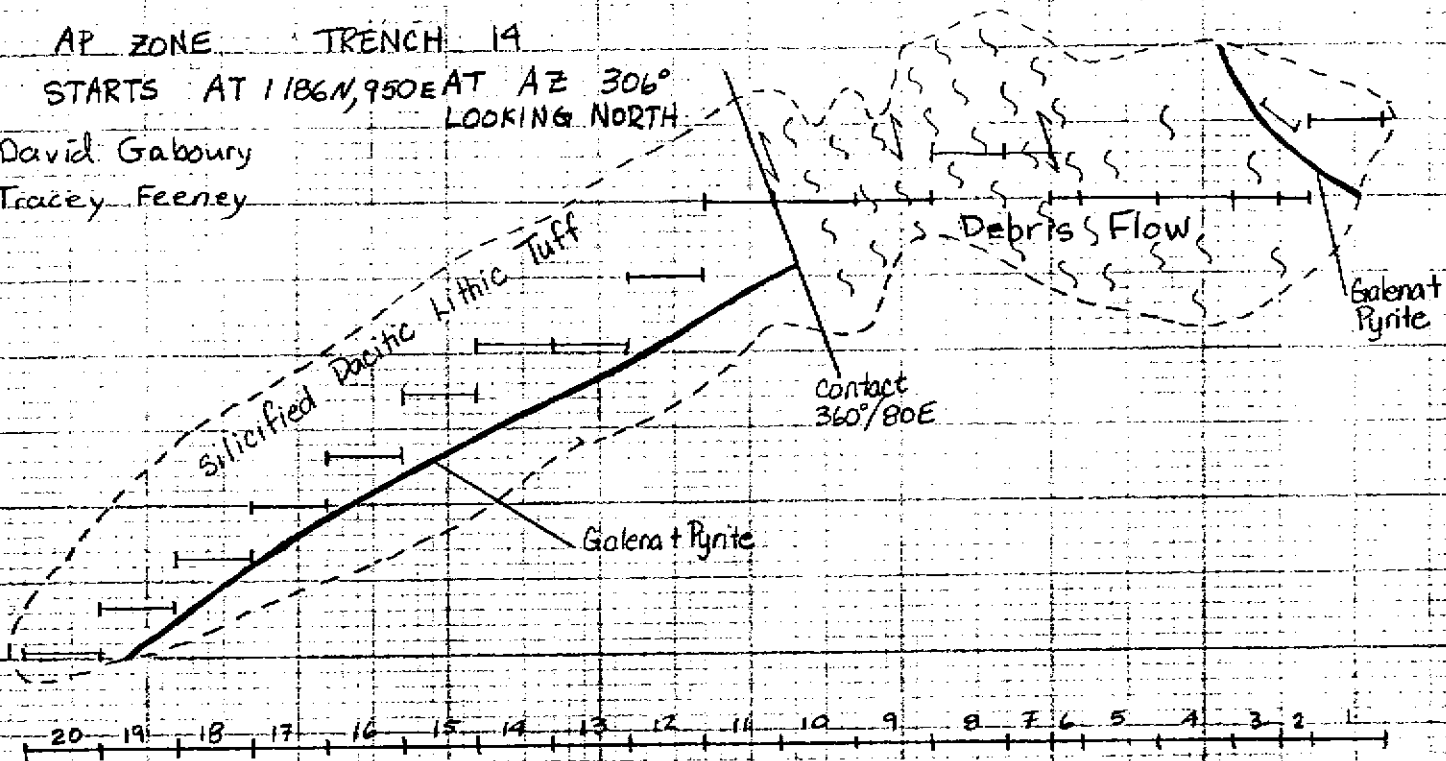


- SAMPLE #1 30cm Sample - Debris flow, Sericitized and silicified with weak shearing. 5-10% pyrite as diss and blebs. Minor pyrite stockwork veining + weak carb alt.
- SAMPLE #2 50cm Sample - Debris flow - Sericitized and silicified with weak shearing. 3-5% diss pyrite + 3-5% fn grained pyrite in patchy blebs, Minor carb alt.
- SAMPLE #3 50cm Sample - Debris flow Sericitized and silicified 3-5% pyrite in diss, fn grained blebs and stockwork veinlets. + black hairline stockwork veinlets 5-10/10cm
- SAMPLE #4 50cm Sample - Debris flow with patchy areas of andesite flow. Black hairline stockwork veinlets 5-10/10cm. Silicified and Sericitized 3-5% diss py + patchy blebs + stockwork veinlets.
- SAMPLE #5 50cm sample = Andesite with minor compositional banding. Some patches of Debris flow. Silicified. 1-3% stockwork pyrite veinlets and diss pyrite. minor black hairline veinlets.

AP ZONE TRENCH 14

STARTS AT 1186N, 950E AT AZ 306°
LOOKING NORTH

David Gaboury
Tracey Feeney



- SAMPLE #1 50cm sample - Weakly sheared debris flow, minor sericite and clay alt. 2-3% diss py, with minor blebs, frag replacement and stockwork veinlets - shearing at az 208/85E
- SAMPLE #2 20cm sample - Weakly sheared debris flow, weak chlorite and sericite alt. + 2% diss py, with 1cm vein of near massive py + gal. Trace sphalerite, + chalcopyrite - vein cuts foliation
- SAMPLE #3 30cm sample - Weakly sheared debris flow - minor sericite alt. Trace fuchsite - Trace - 1% py, Trace py blebs.
- SAMPLE #4 50cm sample - Weakly sheared debris flow, minor sericite alt. Trace fuchsite - 1-2% diss py + minor veinlets and blebs. Minor (<1%) black hairline stockwork veinlets
- SAMPLE #5 50cm sample - Weakly sheared debris flow, minor clay alt. in fragments. 1-2% diss py, minor stockwork py veinlets, minor carb alt.
- SAMPLE #6 20cm sample - Strongly sheared debris flow, moderate sericite alt. 3-5% veinlets and stockwork pyrite, with trace - 1% gal. shear at az 025/70E
- SAMPLE #7 30cm sample - Strongly sheared debris flow with sericite alt. of frags. 3-5% py blebs and stockwork veinlets.
- SAMPLE #8 50cm sample - Sheared debris flow, moderate sericite alt. of frags. 1-2% diss py.
- SAMPLE #9 50cm sample - sheared debris flow, weak sericite alt. 2-3% pyrite blebs and stringers - Possible weak talc alt.
- SAMPLE #10 50cm sample - Sheared debris flow, moderate sericite alt. minor brecciation + argillite, 2-3% pyrite, diss and stringers
- SAMPLE #11 50cm sample - strongly silicified dacitic lithic tuff, minor chlorite alt. 1-2% pyrite overall, Trace galena in thin X-cutting veinlets. Trace diss py.
- SAMPLE #12 50cm sample - strongly silicified lithic tuff, minor brecciation + black hairline stockwork veinlets - 1-2% diss pyrite (yellow arsenic?) staining.
- SAMPLE #13 50cm sample - Strongly silicified, brecciated lithic tuff - 1-2% diss pyrite. Trace arsenopyrite

AP ZONE TRENCH 14 cont.

SAMPLE #14 50cm sample - Brecciated, silicified, lithic tuff. Black hairline stockwork veinlets 1-2% diss py.

SAMPLE #15 50cm sample - Brecciated, strongly silicified lithic tuff. 2-3% diss fine grained pyrite. Trace arsenopyrite. Minor stockwork pyrite veinlets.

SAMPLE #16 50cm sample - Strongly brecciated, silicified lithic tuff. 3-5% pyrite stockwork and stringers. Black stringers + hairline stockwork breccia filling.

SAMPLE #17 50cm sample - Brecciated, silicified lithic tuff. 3-5% diss pyrite, minor stringers. Trace arsenopyrite. Black stringers + hairline stockwork breccia filling.

SAMPLE #18 50cm sample - Brecciated, silicified, lithic tuff. 3-5% diss pyrite, minor stringers, Trace - 1% arsenopyrite. Black stringers + hairline stockwork breccia filling.

SAMPLE #19 50cm sample - Strongly brecciated, silicified lithic tuff. 1-2% diss py. minor stringers and veinlets. Trace arsenopyrite.

SAMPLE #20 50cm sample - Strongly silicified, brecciated tuff. 3-5% pyrite stringers + blebs. Black hairline fracture veinlets.