DUSTY MAC

825254 (ACT:FIL) PAGE 1 OF 1

...H INC. MIN-EN LABS ICP REPORT
...235 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 9-P1CP
...ON: I.PIRIE G.EVANS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:JULY 16, 1989

...LUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-FFB	
BCD12141	1.9	32	42	28	14	6	42	10	
BCD12146	1.7	32	68	26	12	5	36	5	
BCD12147	1.6	17	87	23	12	5	31	5	
BCD12149	.9	1	116	17	18	1	53	5	
BCD12150	1.3	11	263	9	27	2	59	5	
BCD12154	1.8	12	60	9	22	1	82	5	
BCD12155	1.7	13	71	11	20	1	52	5	
BCD12157	1.6	25	46	15	26	1	68	5	
BCD12160	.4	2	44	5	16	2	72	5	AND LAHAR
BCD12171	.3	6	344	32	16	1	65	5	AND LAHAR
BCD12173	1.3	13	233	31	8	2	45	10	DACITE FI-BX
BCD12174	1.6	25	157	17	11	5	52	5	DACITE
BCD12187	1.4	8	58	12	17	1	56	5	
BCD12204	.4	6	218	12	18	3	62	10	
BCD12205	1.1	26	671	19	19	3	55	5	

DM-S

INC.

MIN-EN LABS ICP REPORT

(ACT:F21) PAGE 1 OF 1

705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO: 9-910P/P2

G.EVANS/I.PIRIE

(604)980-5814 OR (604)988-4524

* TYPE ROCK GEOCHEM *

DATE:JULY 11, 1989

...ES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12143	1.8	1	70	11	28	2	60	197
BCD12145	2.1	19	46	12	23	2	61	74
BCD12148	1.1	30	43	14	25	4	55	38
BCD12151	1.4	20	114	14	27	2	61	18
BCD12153	2.3	13	141	7	22	5	53	24
BCD12159	2.3	5	46	8	40	3	39	22
BCD12164	.6	20	54	8	21	2	44	40
BCD12166	.8	1	42	10	21	2	41	10
BCD12167	1.7	28	216	9	19	6	25	21
BCD12170	.4	12	1380	12	22	3	43	16
BCD12172	.7	14	257	22	11	6	40	10
BCD12176	.9	3	63	12	19	1	58	5
BCD12179	1.5	25	99	15	29	2	50	2
BCD12181	1.4	23	194	14	30	4	51	3
BCD12185	.7	26	73	10	32	3	46	3
BCD12188	1.9	16	43	5	32	4	37	2
BCD12190	.2	2	151	9	32	7	72	4
BCD12192	1.3	27	96	6	29	1	51	8
BCD12194	1.4	92	27	6	24	4	60	20
BCD12200	1.2	15	143	10	28	5	33	4
BCD12202	1.4	74	192	8	24	5	38	22

...VA INC.
... 235
...ON: G.EVANS I.PIRIE

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: B-910/P3
* TYPE ROCK GEOCHEM * DATE:JULY 12, 1989

(VALUES IN PPM)	AG	AS	BA	CU	PB	SB	ZN	AU-PPB
BCD12142	1.8	3	66	18	17	4	52	5
BCD12144	1.2	12	71	21	14	2	49	10
BCD12156	1.0	2	66	7	21	1	49	5
BCD12158	.7	28	38	16	21	4	49	5
BCD12161	.8	12	32	4	24	2	38	20
BCD12162	.5	3	43	5	25	4	50	5
BCD12163	.2	30	68	8	22	4	53	10
BCD12165	.2	22	147	7	23	5	43	5
BCD12168	.7	28	88	11	18	3	48	5
BCD12175	.2	25	32	10	15	13	54	5
BCD12177	1.0	26	67	13	11	6	51	5
BCD12178	1.1	2	148	13	20	2	35	10
BCD12180	1.5	18	61	15	23	3	34	5
BCD12182	.9	24	67	12	18	5	56	5
BCD12183	1.3	8	76	17	28	2	48	5
BCD12184	1.0	33	53	19	32	6	54	5
BCD12186	.2	19	109	4	22	5	46	5
BCD12189	.6	25	290	10	22	6	43	5
BCD12191	.3	24	102	11	15	4	48	10
BCD12193	1.6	55	52	11	21	4	54	50
BCD12195	.2	10	48	10	13	5	54	40
BCD12199	1.2	4	155	9	21	4	40	10
BCD12201	.6	15	98	5	29	1	32	5
BCD21203	1.2	14	198	10	23	2	48	5
BCD12169	.2	4	43	11	19	3	68	10

...OVA INC. MIN-EN LABS ICP REPORT (OCT:FEB) PAGE 1 OF 2
...: 235 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 FILE NO: 8-F10...
...ION: I.PIRIE G.EVANS (604)980-5814 OR (604)988-4524 * TYPE ROCK GEOCHEM * DATE:JULY 16, 1988

(VALUES IN %)	AL2O3	BA	CAO	FE2O3	K2O	MGO	MNO2	NA2O	P2O5	SIO2	SR	TIO2
BCD12141	14.89	.120	1.55	2.46	4.08	.73	.12	2.90	.11	68.71	.07	.30
BCD12146	14.98	.092	2.12	2.46	3.34	.66	.14	3.37	.10	68.51	.04	.29
BCD12147	14.18	.082	2.91	2.23	2.91	.65	.13	3.71	.10	68.62	.04	.26
BCD12149	17.47	.167	1.94	4.90	4.06	1.59	.26	2.87	.27	61.48	.05	.44
BCD12150	17.41	.162	1.34	5.79	3.63	1.79	.32	3.40	.27	61.17	.17	.70
BCD12154	17.43	.205	1.99	6.25	4.29	2.48	.22	2.42	.27	59.62	.10	.82
BCD12155	17.89	.177	2.12	5.65	4.29	1.76	.27	3.42	.21	59.20	.12	.77
BCD12157	16.95	.166	2.00	5.86	4.23	2.24	.23	2.62	.29	59.90	.09	.78
BCD12160	15.48	.160	2.37	6.71	4.31	3.95	.39	1.62	.40	57.71	.06	.91
BCD12171	16.22	.092	3.23	6.46	3.02	3.86	.29	1.86	.43	57.13	.05	.81
BCD12173	15.01	.103	2.50	3.41	2.94	1.10	.21	2.94	.15	66.39	.04	.47
BCD12174	14.59	.119	2.59	3.34	3.33	.87	.13	2.72	.17	67.17	.05	.42
BCD12187	15.40	.186	4.38	6.09	4.35	3.30	.24	2.04	.32	54.63	.02	.85
BCD12204	16.60	.191	3.62	6.33	3.92	2.92	.30	1.62	.39	56.01	.06	.86
BCD12205	16.51	.215	1.83	4.83	3.88	1.61	.14	2.75	.22	62.92	.09	.57

DM-S

	SiO_2	TiO_2	Al_2O_3
Dacite	65%	.58	15.9%
Mavama	67%	.42	14.8%

VALUES IN %)	ZR	S	TOT(%)
BCD12141	.006	.04	96.08
BCD12146	.005	.07	96.16
BCD12147	.005	.03	95.45
BCD12149	.019	.03	95.80
BCD12150	.016	.06	96.31
BCD12154	.022	.14	95.38
BCD12155	.020	.01	96.02
BCD12157	.018	.08	95.46
BCD12160	.015	.03	94.11
BCD12171	.012	.02	93.49
BCD12173	.007	.02	95.44
BCD12174	.008	.01	95.50
BCD12187	.016	1.25	93.13
BCD12204	.017	.78	93.64
BCD12205	.012	.07	95.93

LITHOGEOCHEMISTRY

SAMPLE NUMBER	FROM (M)	TO (M)	MAJOR OXIDES SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	TRACE ELEMENTS ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
BCD 12160	25.9	28.9																				
AND. LAHAR																						
12171	71.3	74.3																				
AND. LAHAR																						
12173	86.9	89.9																				
DACITE A-Bx																						
12174	108.2	111.3																				
DACITE																						

Hole No. DM-5 Entered by _____ Logged by G. EVANS Page No. 5

ASSAY SHEET

	Sample Number	From (M)	To (M)	Estimate Cu	Estimate Zn	Length (M)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au			
BCD	12158	18.4	19.9			1.5																		
*	12159	23.1	24.5			1.4																		
	12161	34.0	35.5			1.5																		
	12162	35.5	37.0			1.5																		
	12163	37.0	38.5			1.5																		
*	12164	38.5	40.0			1.5																		
	12165	40.0	41.4			1.4																		
*	12166	49.8	50.3			1.5																		
*	12167	50.3	50.8			0.5																		
	12168	50.8	52.3			1.5																		
	12169	54.1	55.6			1.5																		
*	12170	62.5	64.0			1.5																		
*	12172	83.9	85.4			1.5																		

HOLE NO DM-5

* Epithermal

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LITHOGEOCHEMISTRY

			MAJOR OXIDES										TRACE ELEMENTS								
SAMPLE NUMBER	FROM (M)	TO (M)	SiO_2	Al_2O_3	CaO	MgO	Na_2O	K_2O	FeO	MnO	TiO_2	P_2O_5	ppm Cu	ppm Zn	ppm Pb	ppm Ag	ppb Au	Rock Type	Alt	Min	Grid	
BCD 12160	25.9	28.9																				
AND. LAHAR																						
12171	71.3	74.3																				
AND. LAHAR																						
12173	86.9	89.9																				
DACITE A-Bx																						
12174	108.2	111.3																				
DACITE																						

Hole No. DM-5 Entered by _____ Logged by G. EVANS Page No. 5

ASSAY SHEET

	Sample Number	From (M)	To (M)	Estimate Cu	Estimate Zn	Length (M)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	PPM As	PPM Sb	PPM Ba
	BCD 12158	18.4	19.9			1.5											16	49	21	.7	5	28	4	38
*	12159	23.1	24.5			1.4											8	38	40	2.3	22	5	3	46
	12161	34.0	35.5			1.5											4	38	24	.8	20	12	2	32
	12162	35.5	37.0			1.5											5	50	25	.5	5	3	4	43
	12163	37.0	38.5			1.5											8	53	22	.2	10	30	4	68
*	12164	38.5	40.0			1.5											8	44	21	.6	40	20	2	54
	12165	40.0	41.4			1.4											7	43	23	.2	5	22	5	147
*	12166	49.8	50.3			1.5											10	41	21	.8	10	1	2	42
*	12167	50.3	50.8			0.5											9	25	19	1.7	21	28	6	216
	12168	50.8	52.3			1.5											11	48	18	.7	5	28	3	88
	12169	54.1	55.6			1.5											11	68	19	.2	10	4	3	43
*	12170	62.5	64.0			1.5											12	43	22	.4	16	12	3	1380
*	12172	83.9	85.4			1.5											22	40	11	.7	10	14	6	257

HOLE NO DM-5

* Epithermal

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ZIPPY PRINT [illegible] RICHMOND

ASSAY SHEET

	Sample Number	From (M)	To (M)	Estimate Cu	Estimate Zn	Length (M)	% Cu	% Zn	% Pb	gm T Ag	gm T Au	% SiO_2	% TiO_2	% Na_2O	% MgO	% Fe	PPM Cu	PPM Zn	PPM Pb	PPM Ag	PPB Au	PPM As	PPM Sb	PPM Ba
	BCD 12158	18.4	19.9			1.5											16	49	21	.7	5	28	4	38
*	12159	23.1	24.5			1.4											8	38	40	2.3	22	5	3	46
	12161	34.0	35.5			1.5											4	38	24	.8	20	12	2	32
	12162	35.5	37.0			1.5											5	50	25	.5	5	3	4	43
	12163	37.0	38.5			1.5											8	53	22	.2	10	30	4	68
*	12164	38.5	40.0			1.5											8	44	21	.6	40	20	2	54
	12165	40.0	41.4			1.4											7	43	23	.2	5	22	5	147
*	12166	49.8	50.3			1.5											10	41	21	.8	10	1	2	42
*	12167	50.3	50.8			0.5											9	25	19	1.7	21	28	6	216
	12168	50.8	52.3			1.5											11	48	18	.7	5	28	3	88
	12169	54.1	55.6			1.5											11	68	19	.2	10	4	3	43
*	12170	62.5	64.0			1.5											12	43	22	.4	16	12	3	1380
*	12172	83.9	85.4			1.5											22	40	11	.7	10	14	6	257

HOLE NO DM-5

* Epithermal

HOLE NUMBER: DM-05

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: DUSTY MAC
PROJECT NUMBER: 235
CLAIM NUMBER:
LOCATION:

PLOTTING COORDS GRID:
NORTH: ~~10.00N~~ ~~0+10N~~ 010N
EAST: 163.00W ~~1+63W~~ ~~163W~~
ELEV: 457.00 M

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -45° 0' 0"
LENGTH OF THE HOLE: 92.90m
START DEPTH: ~~18.40m~~ 0.00m
FINAL DEPTH: 111.30m

COLLAR GRID AZIMUTH: ~~° ' "~~ 270°

COLLAR ASTRONOMIC AZIMUTH: 225° 0' 0"

DATE STARTED: July 3, 1988
DATE COMPLETED: July 4, 1988
DATE LOGGED: July 4, 1988

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: ~~NO~~ YES
HOLE SIZE: NQ

CONTRACTOR: Lone Ranger Drilling
CASING: pulled
CORE STORAGE:

PURPOSE: To test a Quartz Breccia zone w/ a I.P. anomaly to theEast of it.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
59.40	-	-44° 0'	ACID	OK		-	-	-	-	-	
105.20	-	-45° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 18.40	casing «OB» ← PROBLEMS see GE					Lake silt
18.40 TO 41.40	«Andesite» «Tuff» — «Andesite» «Lahar» «with QV» «fragments»	18.4-23.1 Andesite Lahar with sub-angular Andesite fragments +/- Hematite 40%, +/-20% Dacite sub-angular fragments (1-5 cm)		ǂ18.4-23.1ǂ«8% Quartz-Carbonate frags» «3-5% Quartz-Carbonate veinlets» 8% Quartz-Carbonate fragments Angular 1-3 cm (white) 3-5% Quartz-Carbonate veinlets, 1-3mm @ 45 deg to CA trace green micas	ǂ18.4-23.1ǂ«5% Pyrite» Average 5% disseminated Pyrite in matrix	
		ǂ23.1-24.5ǂ«8% Quartz-Carbonate + Chalcopyrite» «fragments» f.g. Pyritic Mud with Chalcopyrite + Quartz Carbonate fragments			ǂ23.1-24.5ǂ«15% Pyrite» 15% Pyrite fragments disseminated in matrix and as veinlets	
		24.5-34.0 Andesite Lahar, dark green with angular 1-4 cm fragments of Andesite, +/-Pyroxene, +/-Hematite on rims and pervasive alteration		ǂ24.5-34.0ǂ«3-4% Quartz-Carbonate» «veinlets» 3-4% Quartz-Carbonate veinlets @ 45 deg to CA -occasional Quartz-Carbonate fragment ǂ31.0-34.0ǂ«8% Quartz-Carbonate» «veinlets + fragments» Increase to 8% Quartz-Carbonate veinlets + fragments	24.5-34.0 average 1-2% disseminated Pyrite	33.9-34.0 Fault with clay gouge
		34.0-41.4 Pyritic muddy matrix with occasional angular Andesite fragment		ǂ34.0-41.4ǂ«10% Quartz-Carbonate frags» -10% Quartz-Carbonate angular fragments (1-2 cm) and occasional veinlets -1% disseminated green micas -veinlets occasionally vuggy	ǂ34.0-41.4ǂ«10-15% Pyrite» 10-15% fragments Pyrite disseminated +veinlets	
41.40 TO 59.40	«Andesite» «Lahar» «Andesite» «Tuff»	Colour: dark green, dark grey Grain Size: fine grained -Mixture of Andesite Lahar with Andesite + Cactie fragments sub-angular 1-3 cm -to light grey tuff with sub-rounded fragments 1 cm of Andesite + Dacite +2% Quartz-Carbonate fragments				

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
				41.4-49.8 1% Quartz-Carbonate veinlets Feldspar Pophyry altered to a light green ┤49.8-50.3├«5-8% light blue-white» «chalcopyrite fragments» 5-8% light blue-white chalcopyrite fragments light green micas? trace ┤50.3-50.8├«QV bx» QV bx with light grey with Quartz fragments angular (1-2 cm), margins have 10+% disseminated pyrite ┤50.8-53.3├«3% Quartz-Carbonate frags» 1% Quartz-Carbonate, occasional green fl. clot 3% Quartz-Carbonate fragments ┤53.3-59.4├«4% Quartz-Carbonate» «veinlets» 4% Quartz-Carbonate veinlets @ 45 deg to CA (1-10mm)	41.4-49.8 trace pyrite dissemination ┤49.8-50.3├«5% fine grained Pyrite» «5% fine grained Pyrite as veinlets» ┤50.8-53.3├«5% fine grained pyrite» 5% fine grained disseminate pyrite in matrix 53.3-59.4 1-2% disseminated pyrite, fine grained	
		Bedding 53.5 m 57.0 m	 70 60			
59.40 TO 79.40	«Andesite» «Lahar»	Colour: dark green Grain Size: fine grained A dark green Andesite Tuff with sub-rounded fragments of Andesite+/-Pyroxene+/-Hematite and Dacite fragments		Average 1% Quartz-Carbonate veinlets ┤62.5-65.5├«weakly silicified 5%» «Quartz-Carbonate veinlets» weakly silicified with 5% Quartz-Carbonate veinlets @ 45 deg to CA	average trace to 1.0% disseminated pyrite	┤61.5-65.5├«weak faulting» weak faulting with broken rock @ 45 deg to CA
		Bedding 74.8 m	 70			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
79.40 TO 103.70	«Dacite» «Flow» «+Fl-Bx»	Colour: light green, medium red Grain Size: fine grained light green, fine grained flow-banded matrix with zones of Flow Breccia with a fine grained Hematite rich matrix with angular 1-5 cm fragments of twisted Flow-Banded Dacite Bedding 98.0 m	60	Generally 2% Quartz-Carbonate veinlets 1-3 mm @ 45 deg to CA 83.9-86.9 «4% Quartz-Carbonate» «veinlets» 4% Quartz-Carbonate veinlets to 10 mm Average 45 deg to CA		
103.70 TO 111.30	«Dacite» «Flow» «Dome» EOH	Colour: light brown, light green Grain Size: fine grained -fine grained flow banded Dacite with fine grained fpheno's -occasional Breccia zone with hematite alteration Bedding 110.0 m	60	1% Quartz-Carbonate veinlets minor talc on fracture		

Sample	From (m)	To (m)	Length (m)	ASSAYS AG PPM	ASSAYS AU PPB	GEOCHEMICAL AU GM/T	GEOCHEMICAL AG GM/T		COMMENTS