

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

DATE RECEIVED
JAN 05 1996

GEOCHEMICAL SAMPLING REPORT

on the

DOME CLAIM GROUP

**OMINECA MINING DIVISION
NTS: 93L4 & 5**

SUB-RECORDER
RECEIVED

JAN 02 1996

M.R. # \$.....
VANCOUVER, B.C.

Latitude: 54° 15' 00" N
Longitude: 127° 39' 00" W

for

**TAKEPOINT VENTURES LTD.
Suite 1210 - 675 West Hastings Street
Vancouver, B.C.
V6B 1N2**

FILMED

Vancouver, B.C.
15 December, 1995

GEOLOGICAL BRANCH
ASSESSMENT REPORT
John A. Nicholson, P. Geo.

24,213

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SUMMARY AND CONCLUSION

The DOME Claim Group is located 68 kilometres southwest of Houston B.C. The property consists of 6 claim blocks, the HD-2, 4, 5, 6, 7, 8, 9, 16, 17, 18 for a total of 92 units. Access to the property is via helicopter, most conveniently from Houston, B.C.

The 1995 exploration program consisted of rock chip sampling, and physical work in the form of camp reclamation. The purpose of the program, was to further delineate areas of known mineralization and to better outline potential drill targets for the forthcoming field season.

The claim group is underlain by rocks of Early to Mid-Jurassic age in close proximity to the Coast Plutonic Complex. Rocks most commonly encountered on the property consist primarily of sub-aerial, intermediate to felsic volcanics with a few intra-volcanic sedimentary units of lacustrine origin. The volcanic rocks consist of basalts, andesites, rhyolites, trachytes and related breccias, tuffs and fragmentals.

The property was originally staked by El Paso Mining & Milling Co. in the early 1970's to cover copper mineralization in volcanic breccias and flows of the Hazelton Group. No follow-up work was carried out and the ground was subsequently allowed to lapse. The ground was later staked in the 1980's by Frank Onucki who in 1981 discovered several copper showings consisting of chalcopyrite, bornite, covellite and minor amounts of chalcocite. Further prospecting by Onucki subsequently outlined a circular structure which was interpreted to be a volcanic pipe or neck located in the central part of the property.

In 1991, Placer Dome Inc. optioned the claims and undertook a program of staking, mapping and sampling. The program was inconclusive as weather hampered their efforts and the property was subsequently given back to the owner. Takepoint Ventures subsequently optioned the ground and undertook a limited program of sampling. Like Placer Dome, Takepoints program was hampered due to severe weather conditions and a true evaluation of the property was not possible.

Samples that were obtained by Takepoint in their 1994 sampling program did however return encouraging copper results with several of the samples returning values in excess of 10,000 ppm copper and 100 ppm silver. These samples were taken in areas of known mineralization and were taken peripheral to an inferred breccia pipe, neck.

RECOMMENDATIONS AND COST ESTIMATES

The work undertaken by Takepoint and previous operators has clearly outlined the property has base metal potential. However, all programs that have been done on the property have all been done at a time of in climate weather and because of this, the full potential of the property has not been tested.

It is therefore being recommended that a program of prospecting, detailed geological mapping and sampling be done which would be followed up immediately with a drill program. This program of prospecting, mapping sampling and drilling is being recommended to be done during the months of June thru to August when weather conditions are more favourable.

STAGE 1:

Prospecting, Mapping and Rock Chip Sampling

Personnel:	Project Geologist	30 days @ \$375/day	\$ 11,250
	Geologist	30 days @ \$325/day	9,750
	Assistant	30 days @ \$275/day	8,250
	Contract Rock Climbers	12 days @ \$400/day	4,800
Analysis:	Rock	400 @ \$20/sample	8,000
Helicopter Support:		20 hours @ \$900/hour	18,000
Camp (Includes Establishment and Rental)			7,500
Mob/Demob			5,000
Communications			2,000
Food & Accommodation			5,000
Truck Rental, Freight, etc.			4,000
Report, Maps, etc.			7,500
Reclamation Bond			5,000
		TOTAL	\$96,050.00

STAGE 2:

Diamond Drilling

1000 metres BQ diamond drilling @ \$90/metre \$ 90,000

Personnel: Project Geologist 30 days @ \$375/day 11,250
Assistant 30 days @ \$275/day 8,250

Analysis: Rock 300 @ \$20/sample 6,000

Helicopter Support: 30 hours @ \$900/hour 27,000

Camp (Includes Establishment, Rental and Cook) 15,000

Mob/Demob 5,000

Communications 2,000

Field Equipment 3,000

Food and Accommodation 5,000

Truck Rental, Freight, etc. 4,000

Report, Maps, etc. 7,500

Reclamation Bond 10,000

TOTAL \$ 194,000

INTRODUCTION

The DOME Claim Group, consisting of the HD-2, 4, 5, 6, 7, 8, 9, 16, 17 and 18 is situated proximal to the Coast Plutonic Complex, approximately 68 km southwest of Houston, B.C. Access to the property is via helicopter from either Houston or Smithers.

The property was most recently the subject of an exploration program by Placer Dome Inc. During the summer of 1991, Placer Dome conducted programmes of geological mapping and prospecting, soil, silt and rock geochemistry. Prospecting and mapping outlined several areas of mineralization which were related to areas of an inferred breccia pipe, neck.

The extent of the programmes undertaken by Placer were limited in their success in that weather at the time hampered the program and because of this, the total extent of the property, its mineralization and potential were not fully tested.

The purpose of the Takepoint programme was to take rock chip and stream sediment samples, and examine the mineral potential of the property for its base metals. Like the Placer Dome's attempt in 1991, the programme was cut short due to weather and the mineral potential of the claim group was not fully tested.

LOCATION AND ACCESS

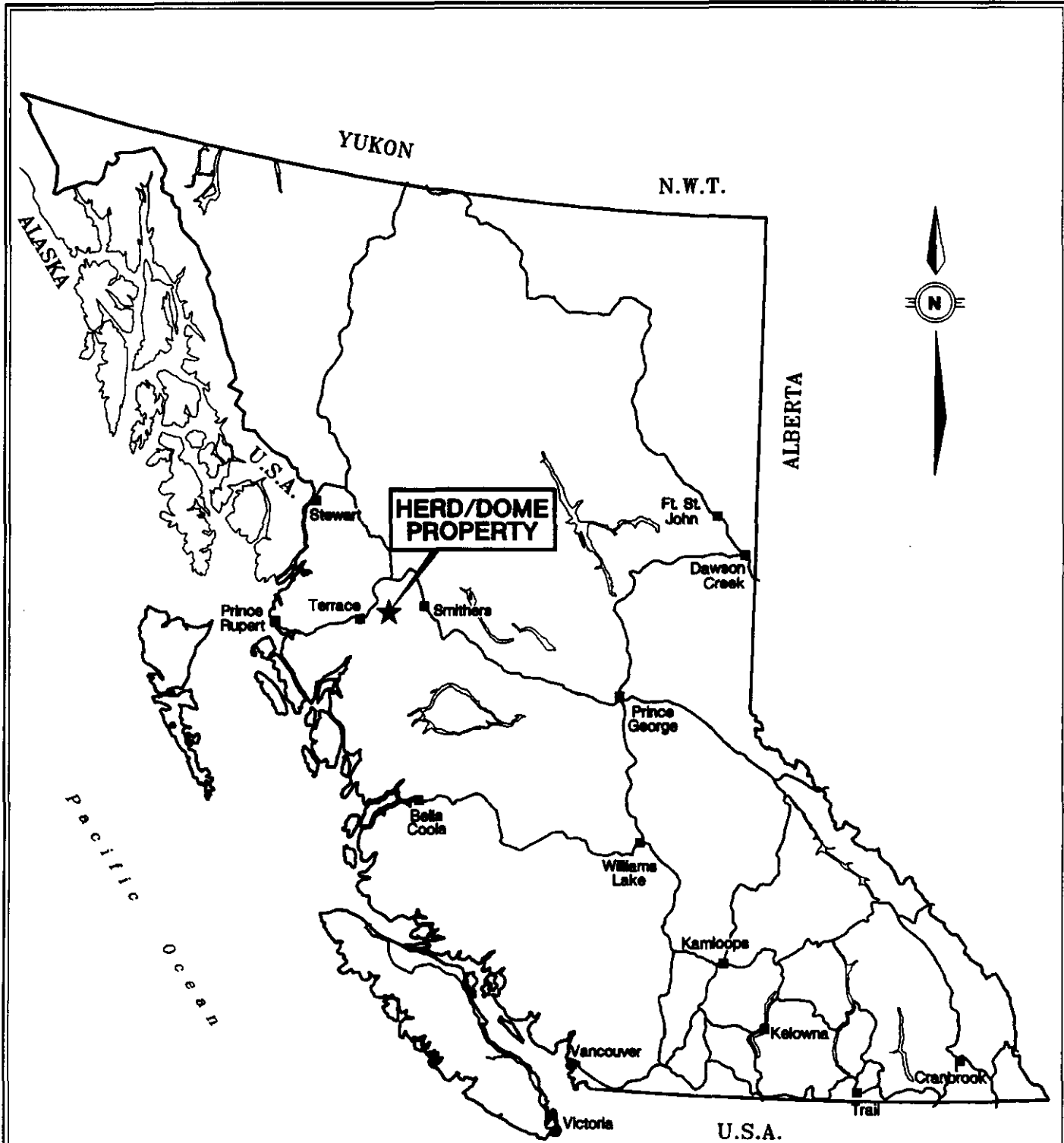
The claim group is located 68 km southwest of Houston, B.C. and 72 km southwest of Smithers B.C. (Figure 1). The property is within 12 km of the Morice main logging main line and is centred on 54° 15' 00" N latitude and 127° 39' 00" W longitude. Access to the property is currently by helicopter, most conveniently from Houston, B.C.

PHYSIOGRAPHIC SETTING AND CLIMATE

The claim group is in an area of semi-rugged terrain, which ranges in altitude from about 915 to 1,980 metres. Spruce, Pine and Alder are generally restricted to the lower parts of the property while in the Alpine section, a mixture of lichen and moss is commonly found.

Water on the property is plentiful in the form of mountain streams, creeks and ponds that are located throughout the property.

Due to the location of the property, elevation, and proximity to the coast, the area experiences relatively moderate temperatures in both winter and summer. Precipitation is in excess of 200 cm, much of which falls as snow during the period October through May. Geological mapping, prospecting, geochemical soil sampling, etc. can thus only be done during the periods of mid-June to mid-September.



**HERD/DOME
PROPERTY**

J. A. Nicholson
 PROFESSIONAL
 PROVINCE
 J. A. NICHOLSON
 BRITISH
 COLUMBIA
 GEOSCIENTIST

0 100 200 300 400 km

SCALE

TAKEPOINT VENTURES LTD.	
DOME CLAIM GROUP Omineca Mining Div., British Columbia	
PROPERTY LOCATION MAP	
NICHOLSON AND ASSOCIATES	
SCALE : 1:8,000,000	NTS : 94C / 04E
DATE : DEC. 1995	FIGURE : 1

CLAIM INFORMATION

The DOME Claim Group is located in the Omineca Mining Division, on NTS map sheets 93L4 & 5 (Figure 2). Claim information is summarized below.

<u>Claim Name</u>	<u>Units</u>	<u>Record</u>	<u>#Expiry Date</u>
HD-2	16	302321	July 16, 1997
HD-4	12	302323	July 16, 1997
HD-5	1	302324	July 18, 1997
HD-6	1	302325	July 18, 1997
HD-7	1	302326	July 18, 1997
HD-8	1	303327	July 18, 1997
HD-9	16	331255	Oct 1, 1996
HD-16	16	331260	Oct 3, 1996
HD-17	16	331261	Oct 3, 1996
HD-18	12	331262	Oct 3, 1996

TOTAL UNITS 92

The expiry dates as listed above will be in effect upon approval of work field for assessment purposes.

The Annual Work Approval Numbers for the HD Property is

SMI94-02002870-222

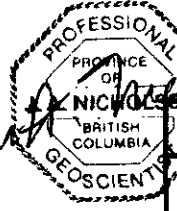
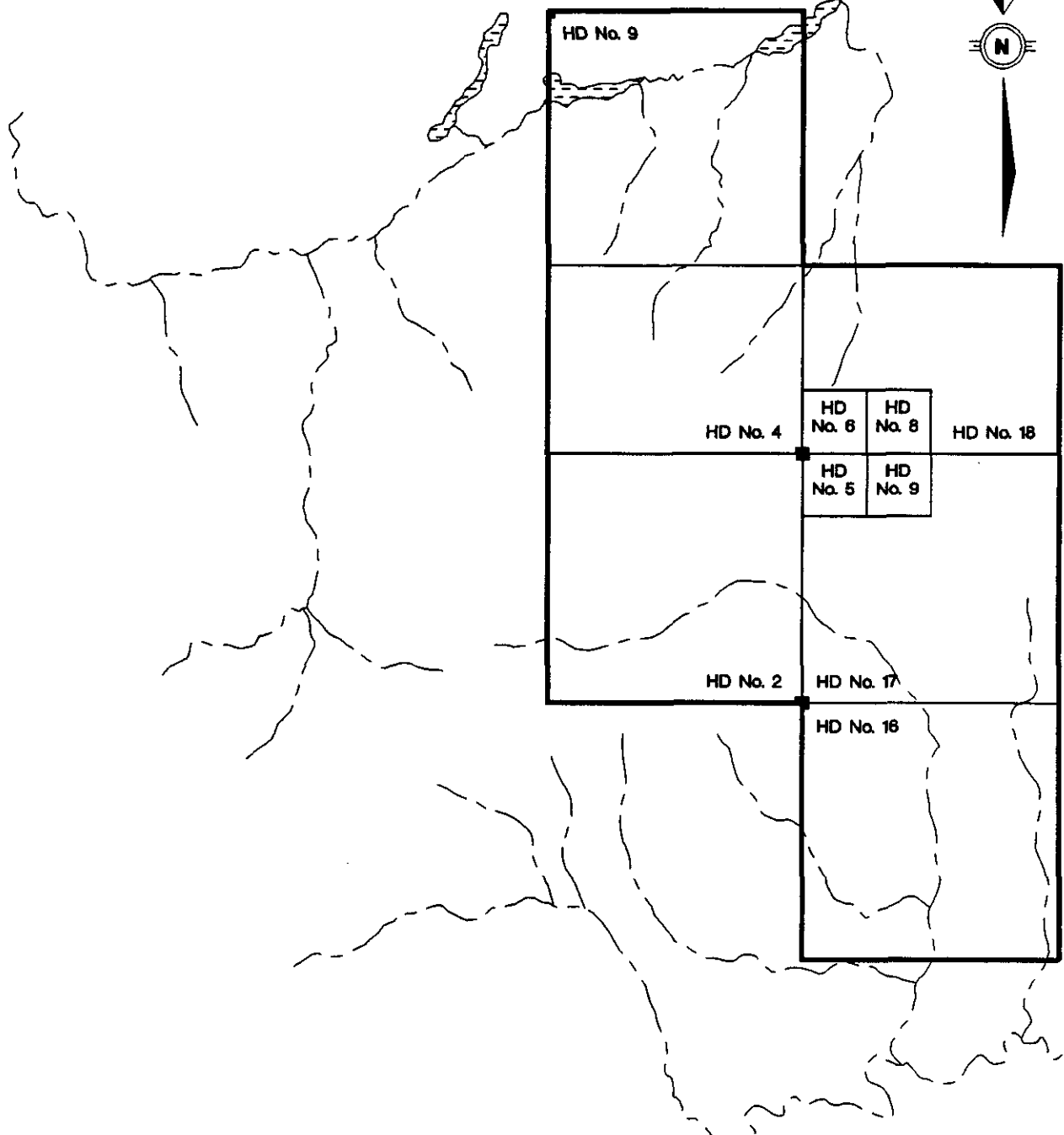
SMI95-0200287 - 300

and the Reclamation Permit Number is

MX-2-138

585000m

590000m



TAKEPOINT VENTURES LTD.

DOME CLAIM GROUP
Orinoca Mining Div., British Columbia

CLAIM MAP

NICHOLSON AND ASSOCIATES

SCALE : 50,000
DATE : DEC. 1995

NTS : 94C / 04E
FIGURE : 2



WORK PERFORMED

A two man crew, consisting of Eric Mackenzie and Sylvain Valecourt, under the supervision of John Nicholson conducted a programme of rock chip and site reclamation on the DOME claim group in 1995. During the 1994 program of exploration, a total of 20 rock samples were collected and analysed for 33 elements by Chemex Labs of Vancouver, B.C. No silt samples were obtained as all creeks in the area had either dried up or, they were frozen.

Site reclamation in 1995 consisted of cleaning up the old Placer Dome camp site and the retrieval of wood and debris which had been strewn about the hillside by heavy winds and snow. All materials were burnt and any garbage that could not be burnt was flown out by helicopter and disposed of at a recognized land fill site.

PREVIOUS WORK

The original Herd Dome group of claims were staked in the early 1970's after Frank Onucki who was working El Paso Mining & Milling Co. discovered copper mineralization during a prospecting campaign in the area. The claims were staked and then were allowed to lapse as a result of no work having been done on the ground.

No further work was done in the area until the early 1980's when Onucki restaked previous showings that he had found in the 1970's. The ground was kept in good standing by Onucki and in 1991 was optioned out to Placer Dome Inc. Placer Dome undertook a program of sampling, mapping and staking. The work performed by Placer Dome resulted in several new showings being found. However, due to budget restraints and severe winter conditions, the ground was returned to Onucki and the option was terminated.

The ground remained in limbo for two (2) years at which point Donegal Development optioned the ground from Onucki. Donegal then entered into an agreement with Iron Lady Resources. The latter of which was later renamed Takepoint Ventures. Work undertaken by Takepoint to date has been restricted to areas previously outlined by Placer Dome. This has directly been a result of winter conditions that have hampered its programs.

PROPERTY GEOLOGY

(from Livgard E. (1993): Report on the Herd Dome Property for Iron Lady Resources Inc.

" The HD group of claims is underlain by rocks of Early to Mid-Jurassic age in proximity to the Coast Plutonic Complex. the rocks consist primarily of sub-aerial, intermediate to felsic volcanics with a few intra-volcanic sedimentary units of lacustrine origin. they are part of the Nilkitkwa and Telkwa Formations. the volcanic rocks consist of basalts, andesites, rhyolites, trachytes, and related breccias, tuffs and fragmentals. Regionally, they have been cut by Cretaceous or Tertiary intrusive bodies which consist of plugs or stocks of granite-granodiorite composition and more locally often by a variety of mafic, felsic, or aplite dykes.

The claims are underlain by well-layered volcanic rocks of the Telkwa Formation. Reddish-maroon coloured basalts ("red volcanics") are the most abundant rock unit on the property and they are well-exposed on most of the higher ridges and peaks and occasionally on the lower slopes. The thickness of the red volcanic lavas usually occur as massive flows of varying thickness or as breccias, tuffs, and fragmentals. Locally, the flows may be vesicular or amygdaloidal and zeolite minerals such as maunonite and prehnite, calcite, epidote, and quartz have been observed in vesicles, as veinlets, as fracture coatings or as matrix component in the fragmental volcanic rocks. The dips of the flow banding in the basalts are extremely variable. The debris shed from the flows tends to form extensive fields of talus and rubble along the flanks of the ridges.

Thin-bedded, silver-grey ash or lapilli tuff flows are exposed on the higher parts of some of the ridges and peaks where the beds have been observed to overlie the relatively thicker flows of red volcanics and related tuffs. the ash tuffs were observed to be unmineralized and are exposed on the ridge forming the boundary between HD-1,2 and HD-14,15 claims.

On the northeasterly flank of Frank's peak, which more or less coincides with the centre of a breccia pipe, are exposures of andesitic or dacitic flow rocks which are typically fragmental, brecciated, or tuffaceous in appearance. Many of these outcrops are stained by malachite and azurite, and contain varying amounts of chalcopyrite and pyrite mineralization as veinlets and disseminations. The east side is heavily oxidized. These mineralized rock units have been identified in two other zones, namely, the Bragg Lake and Onucki Zones, and also in three copper showings on the claim HD-4.

A few dykes have been observed in the vicinity of the Main Breccia Pipe which crosscut the flows. Most of them appear to be a trachyte composition, up to 50cm wide and are completely barren sulfides. Near the Onucki Mineral Zone, two chloritized and epidotized diorite dykes were noted to have a high magnetite content but their relationship to copper occurrences in the vicinity is unknown." (see figure 3)

MINERALIZATION

Mineralization that has been observed on the property is varied. The most noticeable form of mineralization that is observed is primarily that of oxidized copper in the form of malachite, azurite and covellite. This form of mineralization is primarily confined to fractures and as infilling within vuggs and as coatings around brecciated clasts.

Chalcopyrite is the second most abundant form of mineralization. Chalcopyrite occurs as disseminations and as blebs randomly throughout the property. Generally, the chalcopyrite is associated with malachite and azurite staining.

Pyrite, the third most common mineral found on the property occurs primarily as disseminations and stringers. The stringers are generally confined to fractures and vary in size up to 2mm in width.

GEOCHEMISTRY

(I) Rocks

A total of 20 rock samples were collected from the DOME Claim Group during the 1994 sampling program. No samples were obtained during the 1995 exploration program as weather hampered the program severely. A 33 element I.C.P. analysis with an F.A. + A.A. for gold was conducted on each of the rock samples by Chemex Labs Ltd. Samples are described in Appendix 4, Certificates of Analysis are provided in Appendix 5, and a map illustrating sample locations is shown on Figure 3.

Rock sampling was concentrated in the western half of the DOME Claim Group in the area of the Breccia Pipe Showing in order to examine and re-evaluate the main styles of mineralization found on the Group.

Samples HDR001- 014 were taken from an area within the Breccia Pipe Showing, while samples HDR015-020 were taken peripheral to the Breccia Pipe Showing. All samples taken were random 1 metre chip samples from exposed outcrops as weather conditions at the time prevented otherwise. Significant results obtained from the sampling program area are as follows:

Sample No.	Description	Au g/t	Ag ppm	Cu ppm
HDR002	1m chip	10	140.0	>10,000
HDR003	1m chip	35	130.0	>10,000
HDR004	1m chip	30	157.0	>10,000
HDR005	1m chip	15	62.0	>10,000
HDR006	1m chip	5	74.0	>10,000
HDR008	1m chip	25	94.6	>10,000
HDR012	1m chip	70	147.0	>10,000

HD No. 3
6015000m
HD No. 1

589000m

HD No. 6
HD No. 5
HD No. 8
HD No. 7

DOME GROUP				
SAMPLE No.	DESCRIPTION	Au ppb	Ag ppm	Cu ppm/%
HDR001	1m CHIP	5	1	>10,000
HDR002	1m CHIP	10	140.0	>10,000
HDR003	1m CHIP	35	130.0	>10,000
HDR004	1m CHIP	30	157.0	>10,000
HDR005	1m CHIP	15	62.0	>10,000
HDR006	1m CHIP	5	74.0	>10,000
HDR007	1m CHIP	<5	4.8	>10,000
HDR008	1m CHIP	25	94.6	>10,000
HDR009	1m CHIP	<5	3.0	1265
HDR010	1m CHIP	<5	1.2	656
HDR011	1m CHIP	5	6.0	7380
HDR012	1m CHIP	70	147.0	>10,000
HDR013	1m CHIP	<5	1.4	495
HDR014	1m CHIP	<5	1.8	2090
HDR015	1m CHIP	<5	0.4	557
HDR016	1m CHIP	<5	1.2	>10,000
HDR017	1m CHIP	<5	0.8	4640
HDR018	1m CHIP	<5	5.2	>10,000
HDR019	1m CHIP	<5	0.4	720
HDR020	1m CHIP	<5	0.8	4690

BRECCIA PIPE SHOWING

HDR015-020
- 1 m chip samples randomly over 50 m
HDR001-014
- 1 m continuous chip samples over 15-20 m mineralized zone

015-020
001-014

Gossan
Heavily Pyritized Gossan

ONUICKI SHOWING

Quartz Sericite

BRAGG SHOWING

HD No. 14

HD No. 15

HD No. 16

Telikwa Fm.
Nilikwa Fm.

HERD CLAIM GROUP

DOME CLAIM GROUP

Herd Dome
▲

LEGEND

- Mineralization
- Red-maroon volcanics
- Andesite
- Brecciation
- Dacite
- Felsic lapilli tuff
- Rhyolite
- Trachyte dyke
- Diorite dyke
- Air photo lineament
- Thrust fault
- ▲ 001 Chip sample

(after Livgard, 1993)



PROFESSIONAL
PROVINCIAL
A. NICHOLSON
BRITISH COLUMBIA

Metres

TAKEPOINT VENTURES LTD.
DOME CLAIM GROUP
Omineca Mining Div., British Columbia

GEOLOGY & SAMPLE LOCATION MAP

NICHOLSON AND ASSOCIATES
SCALE: 12500
DATE: DEC. 1995
NTS: 94C / 04E
FIGURE: 3

REFERENCES

B.C.D.M. Geological Field Work 1988, Paper 1989-1.

G.D. Delane (1992): **A Geological Report on the Herd Dome Property, Omineca, M.D.**
Placer Dome Inc.

F. Onucki and D. Bragg. (1982): **B.C. Assessment Work Report #10145 on Herd Dome
Prospecting**. Report HDM# 2,3,4,5 and 6 Claims, Omineca M.D. 93L/4, February 10th,
1982.

Tipper, H.W. (1976): **Smithers, B.C. 93L,, Open File Map 351.**

Tipper, H.W. and Richards, T.A: **G.S.C. Bull. 270: Jurassic Stratigraphy and History of
North Central B.C.;**

Report on Activities, (1971): **Smithers Map Area**, paper 71-1, Pg. 34-37.

Minfile #093L 177

APPENDIX 1:
STATEMENT OF QUALIFICATIONS

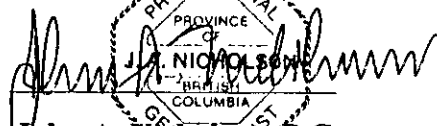
STATEMENTS OF QUALIFICATIONS

I, **John A. Nicholson**, do hereby certify that:

1. I am a consulting geologist with offices at 1210 - 675 West Hastings Street, Vancouver, B.C.
2. I am a graduate of the University of British Columbia with a Bachelor of Science, Geology (Honours).
3. I have had 15 years of combined experience in Cordillera base and precious metals, (Canada and United States) and precious and massive sulfide deposits within shield rocks (Canada).
4. I have had 8 years of combined experience in exploration and mine site reclamation throughout Canada and the United States.
5. I am a member in good standing of the Professional Engineers and Geoscientists of British Columbia, member #19933.
6. I personally supervised the exploration work and reclamation on the DOME Claim group for Takepoint Ventures Ltd.
7. I personally have no interest in the DOME Claim group, Takepoint Ventures Ltd. nor do I anticipate any.

Vancouver, B.C.

December 15, 1995


John A. Nicholson, P. Geo.

PROFESSIONAL
PROVINCE
J. A. NICHOLSON
BRITISH
COLUMBIA
GEOLOGIST

APPENDIX 2:
STATEMENT OF EXPENDITURES

STATEMENT OF EXPENDITURES

CLAIMS: DOME Claim Group

REPORT TYPE: Geochemical

Manpower:	Project Geologist	1 day @ \$375/day	\$ 375.00
	Geologist	3 days @ \$300/day	900.00
	Assistant	3 days @ \$275/day	825.00
Room and Board:		3 days @ \$50/day	150.00
Helicopter:		1.8 hours @ \$850/hour	1530.00
Travel:	Truck Rental	2 days @ \$75/day	150.00
Analytical Charges:		20 rock @ \$25/sample	500.00
Report Preparation:		3 days @ \$375/day	1,125.00
Drafting, secretarial, reproduction, etc:			500.00
			<hr/>
		TOTAL COST	<u>\$ 6,055.00</u>

APPENDIX 3:
NOTICE of GROUPING



Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION - TITLES BRANCH

EVENT NUMBER 3076878
OFFICE USE ONLY

SUB-RECORDER RECEIVED

OCT 2 - 1995 *cl*

M.R. # 17 \$ 1236²

VANCOUVER, B.C.

RECORDING STAMP

Mineral Tenure Act
SECTION 28

NOTICE TO GROUP

INDICATE TYPE OF TITLE MINERAL
(Mineral or Placer)*

1. JOHN A. NICHOLSON
(Name)
1210-675 W HASTINGS ST
(Address)
VANCOUVER, B.C.
V6B-1N2 682-1845
(Postal Code) (Telephone)
Client Number 119688

Agent for FRANK ONUCKI
(Name(s) of all recorded title holders)
209 - 2040 SARUA - ST
(Address)
VANCOUVER, B.C.
V6L 1L5
(Postal Code) (Telephone)
Client Number 120255

request that the following mineral titles on map number(s) _____ in
the OMINSCA Mining Division(s) be grouped under the group name DOME.

A copy of the mineral/placer titles reference map or a legal survey approved by the Surveyor General is attached.
(check appropriate box)

Name of Claim	Number of Units	Tenure Number
HD 2	16	302321
HD 4	12	302323
HD 5	1	302324
HD 6	1	302325
HD 7	1	302326
HD 8	1	302327
HD 9	16	331255
HD 16	16	331260
HD 17	16	331261

Name of Claim	Number of Units	Tenure Number
HD 18	12	331262

Notice to Group approved (Yes/No) Yes

Susan Salter
DEPUTY (Signature of Gold Commissioner)
Oct. 11/95
(Date)

Frank Onucki
(Signature of Applicant)
Total number of units 92

*NOTE: Mineral claim(s) and lease(s) cannot be grouped with placer claim(s) and lease(s)

C-1/82/00



MFL 114 REV. 82/88

STATE THAT: (NOTE: If only paying cash in lieu or lease rental, turn to reverse and complete columns U to J and U to I.)
Work has been done on the HD 1, 3, 10, 11, 14, 15. (SEE ATTACHED)

Claim(s) _____
Tenure No.(s) 302320, 302322, 331256, 331257, 331258, 331259

Work was done from SEPT 27, 19 95, to OCT 2, 19 95

and was done in compliance with Section 50 of the Mineral Tenure Act and

Section 19(3) of the Regulation YES NO

WORK PERMIT NO. _____
95 8M1-95-020287-3

TYPE OF WORK

PHYSICAL: Work such as trenches, open cuts, adits, pits, shafts, reclamation, and construction of roads and trails. Details as required under clause 12 of the Regulations including the map and cost statement, and clause 13 of the Regulations.

APPENDIX 4:
STATEMENT of WORK

**APPENDIX 5:
ANALYTICAL RESULTS**



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221

To: HUDSON BAY EXPLORATION & DEVELOPMENT CO. LTD.

405 - 470 GRANVILLE ST.
 VANCOUVER, BC
 V6C 1V5

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 12-DEC-94
 Invoice No. : 19431891
 P.O. Number :
 Account : T

Project : 1020
 Comments: ATTN: JIN DONALDSON CC: NICHOLSON & ASSOCIATES

**PLEASE NOTE

CERTIFICATE OF ANALYSIS **A9431891**

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
HDR-01	205	294	< 1	0.01	24	Intf*	4	4	17	9	0.19	< 10	< 10	327	Intf*	290
HDR-02	205	294	< 1	0.01	20	Intf*	4	< 2	13	3	0.14	< 10	< 10	620	Intf*	238
HDR-03	205	294	< 1	0.02	26	Intf*	16	< 2	24	4	0.28	< 10	< 10	825	Intf*	310
HDR-04	205	294	< 1	0.01	28	Intf*	18	< 2	19	5	0.26	< 10	< 10	794	Intf*	310
HDR-05	205	294	< 1	0.02	22	Intf*	12	< 2	20	3	0.22	< 10	< 10	571	Intf*	294
HDR-06	205	294	< 1	0.01	25	Intf*	16	< 2	24	4	0.28	< 10	< 10	855	Intf*	390
HDR-07	205	294	< 1	0.02	26	Intf*	6	< 2	22	4	0.27	< 10	< 10	563	Intf*	352
HDR-08	205	294	< 1	0.02	16	30	10	< 2	15	3	0.18	20	< 10	405	20	186
HDR-09	205	294	4	0.08	6	230	2	< 2	8	13	0.15	< 10	< 10	137	< 10	12
HDR-10	205	294	< 1	0.02	8	260	< 2	< 2	7	4	0.14	< 10	< 10	89	< 10	24
HDR-11	205	294	< 1	0.03	28	390	6	< 2	17	9	0.25	< 10	< 10	652	< 10	184
HDR-12	205	294	< 1	0.06	31	Intf*	16	< 2	23	4	0.28	< 10	< 10	776	Intf*	188
HDR-13	205	294	< 1	0.01	15	350	< 2	< 2	10	6	0.15	< 10	< 10	69	< 10	72
HDR-14	205	294	< 1	0.08	29	530	< 2	< 2	18	7	0.24	< 10	< 10	134	< 10	120
HDR-15	205	294	< 1	0.04	29	440	< 2	< 2	15	14	0.22	< 10	< 10	139	< 10	116
HDR-16	205	294	< 1	0.06	4	Intf*	4	< 2	10	11	0.08	< 10	< 10	176	Intf*	86
HDR-17	205	294	< 1	0.03	2	370	2	< 2	6	5	< 0.01	< 10	< 10	101	< 10	82
HDR-18	205	294	< 1	0.03	2	Intf*	2	< 2	6	4	0.05	< 10	< 10	135	Intf*	80
HDR-19	205	294	1	0.05	2	510	4	< 2	10	25	0.20	< 10	< 10	92	< 10	20
HDR-20	205	294	2	0.08	18	590	6	< 2	16	5	0.21	< 10	< 10	93	< 10	44
HDR-21	205	294	1	0.02	8	460	< 2	< 2	5	41	< 0.01	< 10	< 10	30	< 10	30
HDR-22	205	294	1	0.02	8	350	< 2	< 2	7	33	< 0.01	< 10	< 10	27	< 10	32
HDR-23	205	294	2	< 0.01	1	80	2	< 2	1	16	< 0.01	< 10	< 10	8	< 10	2
HDR-24	205	294	< 1	< 0.01	3	40	< 2	< 2	2	10	< 0.01	< 10	< 10	4	< 10	2
HDR-25	205	294	1	< 0.01	25	440	4	< 2	6	3	< 0.01	< 10	< 10	46	< 10	138
HDR-26	205	294	< 1	0.06	20	200	2	< 2	9	20	< 0.01	< 10	< 10	111	< 10	132
HDR-27	205	294	< 1	0.06	16	380	< 2	< 2	12	6	0.09	< 10	< 10	106	< 10	100
HDR-28	205	294	< 1	0.03	17	430	2	< 2	10	62	< 0.01	< 10	< 10	72	< 10	130
HDR-29	205	294	< 1	0.01	23	400	2	< 2	5	4	< 0.01	< 10	< 10	50	< 10	148
HDR-30	205	294	1	0.01	6	40	< 2	< 2	2	6	< 0.01	< 10	< 10	6	< 10	2
HDR-31	205	294	< 1	0.02	23	310	2	< 2	10	6	0.06	< 10	< 10	80	< 10	172
HDR-32	205	294	1	< 0.01	6	130	2	< 2	6	3	0.07	< 10	< 10	17	< 10	6
HDR-33	205	294	< 1	0.03	25	450	< 2	< 2	15	6	0.15	< 10	< 10	78	< 10	128
HDR-34	205	294	< 1	0.01	17	210	< 2	< 2	5	9	< 0.01	< 10	< 10	29	< 10	44
HDR-35	205	294	< 1	0.07	16	380	1	< 2	8	7	0.06	< 10	< 10	36	< 10	50
HDR-36	205	294	1	< 0.01	1	10	< 2	< 2	2	1	< 0.01	< 10	< 10	4	< 10	< 2
HDR-37	205	294	< 1	< 0.01	2	10	4	< 2	< 1	< 1	< 0.01	< 10	< 10	< 1	< 10	< 2

CERTIFICATION: *Hart Buchler*

**Bi, P & W RESULTS ARE UNAVAILABLE FOR SOME SAMPLES DUE TO INTERFERENCE FROM HIGH Cu



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**PLEASE NOTE

CERTIFICATE OF ANALYSIS A9431891

SAMPLE	PREP		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
	CODE		FA+AA	Aqua R																	
HDR-01	205	294	5	1.4	2.28	8	110	< 0.5	Intf*	1.95	< 0.5	30	59	>10000	2.74	30	< 1	0.08	< 10	3.19	2270
HDR-02	205	294	10	140.0	1.64	< 2	230	< 0.5	Intf*	0.35	< 0.5	27	75	>10000	1.72	20	< 1	0.08	< 10	2.55	1360
HDR-03	205	294	35	130.0	2.46	< 2	120	< 0.5	Intf*	0.52	< 0.5	35	50	>10000	2.47	20	< 1	0.08	< 10	3.48	2080
HDR-04	205	294	30	157.0	2.40	2	110	0.5	Intf*	0.47	< 0.5	32	47	>10000	2.61	20	< 1	0.17	< 10	3.05	1965
HDR-05	205	294	15	62.0	2.45	< 2	80	< 0.5	Intf*	0.38	< 0.5	33	49	>10000	3.15	30	< 1	0.04	< 10	3.47	2190
HDR-06	205	294	5	73.6	2.86	< 2	150	< 0.5	Intf*	0.31	< 0.5	33	43	>10000	3.82	30	< 1	0.05	< 10	4.00	2430
HDR-07	205	294	< 5	4.8	2.43	4	100	< 0.5	Intf*	0.78	< 0.5	35	69	>10000	2.57	30	< 1	0.06	< 10	3.57	2570
HDR-08	205	294	25	94.6	1.09	< 2	120	< 0.5	Intf*	0.22	< 0.5	11	81	>10000	2.88	10	< 1	0.12	< 10	1.15	745
HDR-09	205	294	< 5	3.0	0.32	2	240	< 0.5	2	0.06	< 0.5	2	113	1265	3.37	10	< 1	0.16	< 10	0.11	70
HDR-10	205	294	< 5	1.2	0.36	< 2	160	< 0.5	4	0.01	< 0.5	4	92	656	3.15	10	< 1	0.16	< 10	0.19	125
HDR-11	205	294	5	6.0	1.74	< 2	180	< 0.5	< 2	0.07	< 0.5	29	69	7380	3.86	20	< 1	0.10	< 10	2.03	1190
HDR-12	205	294	70	147.0	1.54	18	70	< 0.5	Intf*	0.41	< 0.5	29	59	>10000	2.53	10	< 1	0.06	< 10	1.99	1195
HDR-13	205	294	< 5	1.4	1.59	< 2	150	< 0.5	< 2	0.03	< 0.5	7	63	495	4.36	10	< 1	0.29	< 10	0.96	565
HDR-14	205	294	< 5	1.8	1.13	52	20	< 0.5	< 2	0.91	< 0.5	20	78	2090	5.07	10	< 1	0.05	< 10	0.90	1075
HDR-15	205	294	< 5	0.4	1.74	142	30	< 0.5	< 2	1.82	0.5	25	112	557	4.86	10	< 1	0.06	< 10	1.31	1075
HDR-16	205	294	< 5	1.2	0.69	12	70	< 0.5	Intf*	0.21	0.5	8	68	>10000	3.17	10	< 1	0.13	30	0.26	365
HDR-17	205	294	< 5	0.8	1.00	6	90	< 0.5	8	0.86	< 0.5	7	58	4640	1.99	10	< 1	0.17	10	0.54	970
HDR-18	205	294	< 5	5.2	0.63	30	80	< 0.5	Intf*	0.14	< 0.5	4	46	>10000	2.19	10	< 1	0.16	10	0.22	325
HDR-19	205	294	< 5	0.4	0.43	16	50	< 0.5	4	0.30	< 0.5	2	74	730	2.57	10	< 1	0.09	10	0.15	115
HDR-20	205	294	< 5	0.8	0.56	48	40	< 0.5	4	1.38	< 0.5	15	73	4690	3.60	10	< 1	0.06	< 10	0.33	600
HDR-21	205	294	< 5	0.2	1.06	10	290	< 0.5	2	0.04	< 0.5	< 1	57	147	5.63	10	< 1	0.34	< 10	0.25	100
HDR-22	205	294	< 5	0.4	1.21	6	340	< 0.5	2	0.01	< 0.5	< 1	33	55	5.13	10	< 1	0.45	< 10	0.26	80
HDR-23	205	294	< 5	0.2	0.48	12	320	< 0.5	< 2	< 0.01	< 0.5	< 1	63	13	1.65	< 10	< 1	0.44	10	0.03	10
HDR-24	205	294	< 5	0.2	0.46	8	190	0.5	2	< 0.01	< 0.5	1	56	29	1.60	10	< 1	0.32	10	0.03	5
HDR-25	205	294	< 5	0.6	1.66	8	40	0.5	2	0.05	< 0.5	15	36	52	5.29	10	< 1	0.44	< 10	0.98	590
HDR-26	205	294	< 5	0.6	1.62	20	230	< 0.5	< 2	0.01	< 0.5	9	57	59	4.88	10	< 1	0.09	< 10	1.17	650
HDR-27	205	294	< 5	0.2	1.30	92	140	0.5	< 2	0.10	< 0.5	10	73	62	4.58	10	< 1	0.01	< 10	1.32	830
HDR-28	205	294	< 5	0.4	1.87	28	160	< 0.5	< 2	0.01	< 0.5	2	47	56	5.89	20	< 1	0.21	< 10	1.23	775
HDR-29	205	294	< 5	0.6	1.71	2	60	< 0.5	< 2	0.03	< 0.5	11	35	36	4.96	10	< 1	0.43	< 10	1.04	625
HDR-30	205	294	< 5	0.4	0.59	12	90	< 0.5	< 2	< 0.01	< 0.5	1	72	11	3.39	< 10	< 1	0.37	< 10	0.03	10
HDR-31	205	294	< 5	0.6	2.01	< 2	40	< 0.5	< 2	0.07	< 0.5	8	67	37	5.43	10	< 1	0.19	< 10	1.90	1380
HDR-32	205	294	< 5	0.4	0.63	6	200	< 0.5	< 2	< 0.01	< 0.5	3	60	26	2.64	< 10	< 1	0.43	< 10	0.09	40
HDR-33	205	294	< 5	0.4	1.94	< 2	210	< 0.5	< 2	0.04	< 0.5	3	65	22	5.32	10	< 1	0.08	< 10	1.30	1035
HDR-34	205	294	< 5	0.4	1.02	< 2	160	< 0.5	< 2	< 0.01	< 0.5	3	41	24	4.08	< 10	< 1	0.44	< 10	0.37	285
HDR-35	205	294	< 5	0.4	0.92	4	190	< 0.5	2	0.02	< 0.5	1	53	74	4.18	10	< 1	0.19	< 10	0.46	320
HDR-36	205	294	< 5	0.4	0.39	2	10	< 0.5	< 2	< 0.01	< 0.5	< 1	41	3	1.52	< 10	< 1	0.08	< 10	< 0.01	< 5
HDR-37	205	294	< 5	0.4	0.30	< 2	80	< 0.5	< 2	< 0.01	< 0.5	< 1	71	< 1	0.82	< 10	< 1	0.18	< 10	< 0.01	< 5

CERTIFICATION: Hart/Buehler

**Bi, P & W RESULTS ARE UNAVAILABLE FOR SOME SAMPLES DUE TO INTERFERENCE FROM HIGH Cu

APPENDIX 5:
ROCK SAMPLE DESCRIPTION

Sample No.	Location	Rock Sample Description	Au	Ag	Cu
			ppb/g/t	ppm	ppm/%
HDR001	Herd Dome	Andesitic Feldspar Porphyry with 5% quartz stringers. Partly leached, 2% fine disseminated pyrite, abundant malachite/azurite/limonite/pyrolusite.	5	1	>10000
HDR002	Herd Dome	Brecciated Feldspar Porphyry within a fine grained grey brown matrix, abundant malachite and chalcocite(?) coating pervasive throughout.	10	140.0	>10000
HDR003	Herd Dome	Breccia. Angular fragments up to 2 cm. of Feldspar Porphyry in a fine grained grey-brown matrix. Vuggy with malachite and chalcocite (?) coating, limonite and malachite on weathered surfaces.	35	130.0	>10000
HDR004	Herd Dome	Andesitic Feldspar Porphyry. Trace-2% chalcopyrite and minor covellite with abundant malachite/azurite staining mostly within fractures.	30	157.0	>10000
HDR005	Herd Dome	Same as 94HDR004, but with tr-1% cpy. Calcite stringers and open space filling abundant throughout.	15	62	>10000
HDR006	Herd Dome	Same as 94HDR004, 1% chalcopyrite, minor calcite stringers and open space filling.	5	74	>10000
HDR007	Herd Dome	Same as 94HDR004, 3% chalcopyrite as blebs and stringers.	<5	4.8	>10000
HDR008	Herd Dome	Same as 94HDR004, More Dacitic with few tuffaceous fragments .5mm. 3% cpy/cov and minor chalcocite mostly as fracture infilling.	25	94.6	>10000
HDR009	Herd Dome	Siliceous Brecciated Lapilli Tuff with 3% disseminated pyrite and trace-1% cpy. Fractured with abundant limonite staining pervasive.	<5	3.0	1265
HDR010	Herd Dome	Siliceous Andesite?, texture obscured by silicification, blue - grey colour, 1% disseminated pyrite, very limonitic.	<5	1.2	656
HDR011	Herd Dome	Bleached Intermediate Feldspar Porphyry with abundant limonite, 1% interstitial pyrite, minor goethite.	5	6.0	7380
HDR012	Herd Dome	Intermediate Ash Tuff, with 2 -3% open space by leaching with very abundant malachite and limonite staining pervasive throughout.	70	147.0	>10000

Sample No.	Location	Rock Sample Description	Au	Ag	Cu
			ppb/g/t	ppm	ppm/%
HDR013	Herd Dome	Blue grey, moderately silicified Feldspar Porphyry with abundant limonitic staining pervasive throughout, weak to moderate sericitic alteration, 2-3% pyrite as fracture infilling, minor limonitic and goethite staining pervasive throughout.	<5	1.4	495
HDR014	Herd Dome	Medium grey, silicified Feldspar Porphyry with open space infilling with calcite and minor chlorite, 1-3% disseminated pyrite, weak argillic alteration pervasive.	<5	1.8	2090
HDR015	Herd Dome	Same as 94HDR014 with 1% cpy. with malachite and azurite staining pervasive, weak limonitic alteration.	<5	0.4	557
HDR016	Herd Dome	Limonitically altered Andesitic Breccia. Angular clasts <1 cm. in leached out matrix. 1% chalcopyrite with malachite staining throughout.	<5	1.2	>10000
HDR017	Herd Dome	Same as 94HDR014, no pyrite, tr-2% cpy, abundant malachite staining throughout.	<5	0.8	4640
HDR018	Herd Dome	Intermediate Lapilli Tuff, limonitic/malachite/chalcocite staining on weathered surfaces, minor calcite and pyrolusite pervasive throughout.	<5	5.2	>10000
HDR019	Herd Dome	Bleached, limonitically altered Intermediate Feldspar Porphyry. Brecciated weak punky (leached out) matrix. Malachite/azurite staining along fractures, tr-1% chalcopyrite as disseminations.	<5	0.4	720
HDR020	Herd Dome	Intermediate Feldspar Porphyry. Abundant open space infilling of calcite. Bleached with 3% interstitial cpy. Abundant limonite, goethite staining throughout.	<5	0.8	4690