2002 Assessment Report

Dog Claim Group

Nelson M. D., B.C.

M. A. Kaufman

Oct. 1, 2002

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Introduction

The described area is situated approximately 10 km NNW of Salmo, B. C. along the southern and central branches of Craigtown Creek. Access is via the Erie Creek Forestry Road to the Craigtown Creek bridge and then by the B. C. forestry - Erie Creek Forest Reserves Ltd. road which follows the southern branch of Craigtown Creek.

Extensive gold in soils anomalies are located on the Stewart Claim Group (Stewart multi unit claims #1 and 6 - 8) jointly owned by Eric and Jack Denny, and on the Dog Claim Group owned by M. A. Kaufman, which is contiguous on the west with the Stewart claims.

The first known exploration of this area was during the late 1970s and early '80s, when B. P. - Selco surveyed the whole Stewart Claim Group with an aerial Input EM and Mag survey. Neither these results nor their ground follow up inspired them to carry out further work here. Portions of these gold anomalies were first recognized by Minnova during the late "80s simultaneous with discovery of western portions of it by myself working as a contractor for Lacana/Corona. Reassaying of previously gathered government survey samples released by the B.C.D.E.M. in the early '90s also indicated significantly anomalous gold in the sediment of the south branch of Craigtown Creek. Minnova subsequently carried out soils geochemical surveys followed by an I.P./ mag. geophysical survey. This work delineated extensive areas of anomalous gold with coincident I.P. highs which were designated by Minnova as the "North" and "South" anomalies. Corona carried out a geological and sampling program west of the Stewart Property on the original Dog Claims. Corona found sporadically anomalous gold in widespread rock samples, and interpreted it to represent "porphyry" type mineralization. Before they were able to carry out systematic sampling, corporate problems forced them to drop their claims. Similarly, Minnova in the early '90s was forced to relinquish the Stewart Property before ever drilling any targets.

During the early '90s, the Stewart Claim Group was optioned by Cameco Corp. It drilled four core holes in the northern portion of Minnova's "North Anomaly", and carried out further sampling on the "South Anomaly". The holes cut significantly anomalous gold, but no meaningful ore intercepts, and Cameco pulled out. During this time I acquired the Dog Claims and expanded them. As some of the Minnova soils anomalies along with high I.P. responses appeared to be open to the west, I was prompted to carry out soils sampling south of where Corona had previously sampled. These results proved encouraging. Based upon the facts that there were still promising drill targets on the Stewart portion of the anomaly and that the target appeared to be open to the west, Orvana Minerals Corp. optioned both the Stewart and Dog Claim Groups, and carried out comprehensive geological mapping, geochemical sampling and a VLF Em and Mag survey during 1996 and 1997. Orvana's work delineated additional gold anomalies on the Stewart claims, and large areas of anomalous gold on the Dog claims. These recently discovered anomalies cover an area at least as large as the original Minnova anomalies. Overall, the area of gold anomalies now appears to extend more than three km. in a NNE direction, and up to one km. across. Some of the recently discovered gold anomalies contain coincidental copper, and/or lead. One contains coincidental arsenic. Based upon its work, Orvana selected a number of drill targets. Because of the terrible market conditions in 1997 Orvana was reluctantly forced to relinquish its options on the claim groups without being able to undertake any drilling.

During 1998 I carried out an evaluation of all previous work. This involved systematic geological traverses over all of the geochemically anomalous areas, and preparation of

1:5000 scale maps which integrate the past I.P. data with all of the geochemical data. As well, I contracted Lloyd Geophysics Inc. to reevaluate its VLF/Mag data in areas where there is old I.P. coverage, and in light of Orvana's geochem. information. The purpose of this work was to evaluate Orvana's drill hole selections, possibly to select other drill sites, and to determine what other further exploration might be appropriate. During 1999 and 2000 I contracted Walcott and Associates to carry out I.P. surveys which extended previously detected anomalies westward. 2001 work involved new geochemical soils surveys west of previous coverage on the NW part of the Dog Claims, and GPS surveys to better locate previously discovered anomalies in the South Boundary area. In the NW area, lead anomalies with sporadic coincident gold were found. the work in the SW Boundary area suggested that the extensive gold anomalies here might trend NNW, and be related to steep fracture zones which could extend for a kilometre or more to the NW. The detailed results of past work are described in Assessment Reports 26675, 26399, 26049, 25702, 25388, 24789, 24123, 23537, 23092, 23018, 22829.

After a brief geological summary mainly excerpted from past assessment reports, particularly # 25702 and 26675, this report will describe the results of the 2002 work.

Geology Summary

Most of the Craigtown Creek gold anomalous area is situated on the south slopes of the ridge dividing the southern and central branches of the creek. But significant anomalous zones are also found on the north slope of this ridge, and on the north facing slope south of the south branch. The overall zone of gold anomalies is known to extend over a distance of three km. in a NNE direction, and is generally at least several hundred metres across. It is not one continuous anomaly, but some of the zones within it are more than one km. long. Perhaps the area's most distinguishing feature from the point of geological interpretation is its general lack of outcrop. Most geological interpretations made by past workers have been based upon float or upon widely scattered,very small outcrops.

In most general terms I would describe the area's geology as follows. The area is underlain by Elise volcanics, mostly intermediate to basic composition. Fragmental units are common within this volcanic section. A widespread rock type recognized by past workers is andesitic tuff. Bodies of augite porphyry and fine grained "diorite" found in the area might be coeval with the Elise. Possibly, other intrusions might also be related in time to the Elise. Large intrusions of acidic to intermediate composition located mostly in the western part of the claims and further west are thought to be Nelson Intrusions. Small, elongate felsic bodies and "plugs" recognized by Orvana could possibly be anything from Elise age to Coryell. Minnova cores show that there are probably some felsic tuff interbeds within the Elise section.

In my mapping I have found no discernible bedding features in the small outcrops that I have seen, nor have I seen any clear formational contacts, except for a few in the Minnova drill cores. Accordingly, I must say that structural interpretation is at best conjectural. Aerial photos show a WNW linear trend which likely represents a fracture system. This same pattern is seen at the Arlington Relief Mine located a few kilometres NW of this area. The general NNE trend of the geochemical anomalies might indicate some kind of structural or stratigraphic control. Patterns evident on all geophysical maps (VLF, Mag and I.P.) indicate general N - S trends which likely reflect overall formational strikes. A narrow NNE trending relative low saddle seen on the B. C. government areal magnetic map (# 8480G) roughly coincidental with our anomalous zones might be caused by structure or stratigraphy.

Orvana has noted several types of mineralization; widespread disseminated pyrite/pyrrhotite with minor chalcopyrite in all rock types except late dykes, magnetite stockwork associated mainly with felsic rocks, and vein-type (quartz-pyrite, and massive pyrite-pyrrhotite-chalcopyrite).

All of the past geological interpretations have emphasized the presence of an alkalic porphyry system. The widespread disseminated sulfides seen can be interpreted as being porphyry in style, but I believe that the mineral occurrence here is better explained by possible strata-bound mineralization in the volcanics affected by contact metamorphism and/or metasomatism, as well as enhanced sulfides in the intrusives in proximity to contact zones. Further to the showings of breccia described on p. 6 of the 1999 assessment report 26409; the 2000 work found one outcrop of monzonite which is distinctively cut by this type of breccia, indicating that the breccia and related mineralization are later than the monzonite. This, of course, indicates a possible later stage of mineralization than the intrusive-volcanic contact zones.

During 2001,Three reconnaissance geochemical lines, A, AA and B were put in and sampled in the NW portion of the Dog Claims, the purpose of which was to prospect an area west of past coverage above where Orvana previously had picked up some anomalous gold in float and moss mat samples. As well, geological mapping was conducted on these new lines and along new logging trails in this area. And a more detailed look was undertaken of the "Walcott Zone C" portion of the South Boundary Anomaly area, including GPS surveying to better locate important features. Detailed descriptions of this work are given in 2001 Assessment Report # 26675. In summary; some areas of anomalous lead and gold were found in the NW area: To the north of this area, some Rossland-style fissure occurrences were mapped: And mapping on the South Boundary Anomaly suggested a NNW trend probably controlled by extensive, steeply dipping fracture zones which might join with gold anomalies to the NW.

Discussion of 2002 Work

Again, because of limited available budget, exploration continued at a slow-motion pace. Soils sampling was carried out on two new lines, C and D, south of 2001 line AA in the NW area to test for possible extension of gold and lead anomalies found in 2001. Also, old Orvana lines 8000N and 8200N were extended and sampled from their former west ends at approximately stations 5500E, west to approximately 4900E, the purpose being to determine whether an anomalous sample detected on Orvana's old line 8100N, 5010E had any extent to the N or S. In addition, detailed and fill in sampling was conducted around very high Orvana gold samples at line 8600N, 5850E and line 8300N, 5680E. Both during 2001 and during our 2002 programme, we conducted GPS surveys of many of the old Orvana lines, and reinstated them where they were obliterated. Found in the appendix of this report are data sheets giving GPS locations of these points. The results of all the 2002 work can be seen on the accompanying 1:5000 and 1:2000 progress maps. On these maps all lines shown are plotted based upon the 2001 and 2002 GPS surveying. These 2002 maps show only Au and or Pb assay results pertinent to the 2002 work, and have not been contoured, as this is a work in progress. For reference, a copy of Orvana's 1997 1:5000 scale Au soils geochem map showing their whole Dog and Stewart survey is enclosed in the pocket. A small amount of geological investiigation was undertaken in recently logged areas.

Now just some brief comments on the results of the 2002 work.

In regard to lines C and D in the NW area; the trend of anomalous Pb appears to continue southward along with sporadic anomalous Au. I have not done geological follow-up here yet, so I don't know what, if any, significance these low anomalies might indicate.

In regard to follow-up of Orvana's 1550 ppb Au found on line 8600N, 5850E; samples taken 3m to the E and W showed anomalous Au, but nothing of the magnitude of the original sample. New lines at 8650N and 8550N showed consistently anomalous Au. It is probable that the high sample represents a nugget effect as might be expected in soils. However, the consistently anomalous gold found in the area along with the I.P. response makes this an interesting drill target area. The favourability of this area is enhanced by Orvana's anomalous rock samples seen on line 8500N. The rock is a very coarse andesitic fragmental, some fragments being up to 1/2 metre width. (Results of this work are shown on the enclosed 1:2000 map.)

In regard to follow-up of Orvana's 1055 ppb Au found on line 8300N, 5580E; samples 3m to the E and W were weak, and samples on new lines 8350N and 8250N failed to turn up anything of interest. The high sample probably represents only an isolated gold grain.

In regard to extensions of lines 8000N and 8200N, and follow-up on Orvana line 8100N, 5010E; at 8000N, 5500E a soil sample assayed 602 ppb Au, and a rerun assayed 88 ppb Au. This might be of interest, as a sample on trend to the north on line 8100N, 5460E assays 280 ppb Au (see enclosed 1:2000 South Boundary Anomaly map). Orvana sample 8100N, 5010E contained 590 ppb Au. A 2002 sample taken 3M to the east was weak, but a sample located 3M to the west (5007E) assayed 350 ppb Au. So this probably represents more than erratic grains. Moreover, anomalous assays on 2002 extension lines 8000N, 5080E, and 8200N, 5020E (119 ppb Au and 84 ppb Au respectively) might indicate a possible northerly linear trend to this anomaly (refer to enclosed 1:5000 2002 Progress Map).

In regard to miscellaneous rock sample assays; two samples which were actually taken in late 2001 were assayed. For detail, refer to enclosed Acme assay report # A201913. They are labeled WP 54 and WP 58. Locations can be seen on the enclosed 1:5000 2002 Progress Map. WP 54 is at 0475142E,5459298N, and WP 58 is at 0475570E, 5458071N (NAD 83). WP 54 is gossan float probably from a nearby but unexposed Rossland-style fissure. It assayed 41 ppb Au, and had high values in Mo (791 ppm, Cu and As (764 ppm). WP 58 is a grab sample from a very small outcrop of sheared, silicified rock in an extensive area of anomalous gold in soils. It assayed 25 ppb Au.

In regard to geological investigations, no outcrop was found in recently logged areas. However, GPS surveying of a portion of old Orvana line 8900N gave an accurate location for a roughly coincidental EM conductor and Pb/As geochem anomaly at approx. 5130E to 5150E on this line. When properly located this anomaly appears to be located approx.150M SE of an old prospect pit which exposes narrow massive sulfide fissures. It could be on strike with the strongest of these showings seen in the pit.

Conclusions

As the 2002 work is part of an incomplete programme to be continued, it is not definitively conclusive. In general, it supports past conclusions that integrated geochemical and geophysical data has delineated drill targets in the Boundary Anomaly area centered at *line 8500N. Much of the 2002 work was designed to search for for possible apexing high* grade fissure lodes. Possibly, the trends(?) indicated by high soils anomalies in the extensions of lines 8000 and 8200N, and follow-up on line 8100N might indicate this type of potential, as could the EM/geochem. anomaly mentioned above on line 8900N.

In summary then, we have through past geophysical and geochemical work developed two drill target areas respectively in the Boundary and South Boundary areas, as described in 1999 through 2001 Assessment Reports 26675, 26399 and 26049. A lot more detailed soils geochem and GPS surveying, similar to that done in 2002, is required to delineate possible Rossland-type fissure lodes.

M. A. Kaufman

Oct. 1, 2002

PROFESSIONAL
PROVINCE OF
M.A. KAUFMAN
#112679
BRITISH COLUMBIA
ENGINEER

Statement of Qualifications

I, M. A. Kaufman hereby state that I have worked as a mining geologist and mining engineer for 45 years.

I received an A, B, degree in geology from Dartmouth College in 1955, and an M. S. degree in geology and mining engineering from the University of Minnesota in 1957.

I am currently registered as a Professional Engineer/Geologist in the province of British Columbia.

From the period 1955 - 1965 I worked for the major companies Kennecott Copper Corp., Giant Yellowknife Gold Mines (Falconbridge), Kerr-McGee, and Hunting Survey Corp., Ltd. I then worked independently as a consultant and contractor, mainly for major companies. From 1969 through 1988, I was a principal of the consulting and contracting firm of Knox, Kaufman, Inc. From 1989 to present I have worked as an independent consultant and prospector.

M. A. Kaufman

	A	B	C	D
1	2002 Assessment Expenditures Dog Project			
2				
3	Item	Payment Date	Amount	Notes
4				
5	Survey Supplies	June 10	$27.00	
6	Sample Bags	June 12	$56.65	
7				
8	Contractors			
9	Horst Klassen	June 24	$2,296.46	
10	Joel Ackert	June 24	$840.00	
11	Horst Klassen	Aug.16	$614.49	
12	Joel Ackert	Aug. 16	$240.00	
13				
14	Assays			
15	Acme Labs	June 29	$1,495.12	
16	Acme Labs	Sept. 7	$273.69	
17				
18	Workers Comp.	July 2	$93.72	
19				
20	Sub T		$5,937.13	
21				
22	M. A. Kaufman*			
23	June 8-18	one day	$615.00	planning/ logistics/supervision
24	July19		$615.00	reconn. new logging areas
25	Aug. 14	1/2 day	$307.50	mapping line 8900N
26	Aug. 9		$615.00	Data, map prep.
27	Sept. 15-Oct. 1	3 days	$1,845.00	map prep./ repts
28	Sub T		$3,997.50	
29				
30	*Kaufman time at $400.00/day U.S.			
31	x 1.5385 = $615.38 Cdn			
32				
33	Drafting	Sept. 27-Oct. 1	$150.00	Wayne Reich
34				
35	Grand total		$10,084.63	

Horst 2002 Dog Invoice

Hi Mo

Have received your message about the pay. Joel and myself we take the first option where you use the discount rate and use US funds.

Here is the Bill:

Joel Ackert
Box 187
Salmo.B.C.
Canada
VOG 1ZO

Contract Labour on Dog Property:

7 days @ Can $ 120.00
Total 840.00

Horst Klassen
Box 172
Salmo,B.C.
Canada
VOG 1ZO

Contract Labour and Supplies on Dog Property

8 days @ Can $ 250.00 2000.00
Mileage 341 km @ .30 102.30
Subtotal
2102.30
7% GST # 897051264RT on 2102.30 147.16
Total $ Can
2249.46

Mo, I hope that this to your satisfaction , everything is taken care of .
The samples are on there way via Greyhound to ACME Labs in Vancouver.They should arrive Sunday morning at the Terminal in Vancouver and they will pick them up.I have sendt them collect as I did last year.I laid a copy of the instructions inside each of the two boxes, but you have given them your specific instructions already by phone. Hope that you get very encouraging results and are on your way of developing a Mine.

Best Regards

Horst

STATEMENT

CONTRACT WORK ON DOG CLAIMS

Horst Klassen 2 days @ $250.00/day	$ 500.00
Mileage 92km @ .30	$ 27.00
Sub Total	$ 527.00
7% GST # R897051264	$ 36.89
Reimbursement for bank fees from previous invoice	$ 50.00
Total	$ 614.49
Joel Ackert 2days @ $ 120.00/day	$ 240.00
Grand Total	$ 854.49

Work was done Aug. 7, 8 and 12, 2002

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KAUFMAN, M.A.
P.O. Box 14336
Spokane, WA
U.S.A. 99214

Inv.#: **A201912**
Date: Jul 11 2002

QTY	ASSAY	PRICE	AMOUNT
96	GROUP 1DA (10 gm) @	8.65	830.40
94	SS80 - SOIL @	1.15	108.10
2	R150 - ROCK @	3.75	7.50
			946.00
	FREIGHT CHARGE BY GREYHOUND W/B # 13295006056		18.35
	RECEIVED CHEQUE # 799 - THANK YOU.		-964.35
	U.S. $		**0.00**

FILE # A201912 & A201913

COPIES 1 E-DATA 1

$964.35 U.S. × ~~1.55~~ CDN = $1495.12 CDN
1.5504

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P.O. Box 14336
Spokane, WA
U.S.A. 99214

Inv.#: **A202991**
Date: Aug 26 2002

QTY	ASSAY	PRICE	AMOUNT
17	GROUP 1DA (10 gm) @	8.65	147.05
17	SS80 - SOIL @	1.15	19.55
			166.60
	GREYHOUND W/B # 13295006583 (CDN$ 17.30)		11.30
	U.S. $ →		**177.90**

COPIES 1

$177.90 U.S. × 1.5385 = $273.69 CDN

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GEOCHEMICAL ANALYSIS CERTIFICATE

Kaufman, M.A. File # A201912 Page 1
P.O. Box 14336, Spokane WA U.S.A. 99214

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.1	2.4	2.1	40	<.1	4.4	3.6	477	1.47	<.5	2.5	<.5	4.3	60	<.1	<.1	.2	37	.51	.090	7	16.9	.45	206	.110	1	.79	.062	.42	1.6	<.01	1.9	.3	<.05	4
L8650N 5790E	.9	221.4	21.5	111	.4	19.7	22.7	1363	5.20	7.0	.5	23.3	1.4	45	.8	.7	.3	135	.49	.301	10	30.7	1.05	248	.116	<1	2.66	.015	.25	.3	.03	6.1	.2	<.05	9
L8650N 5820E	1.1	260.4	23.9	101	.7	23.2	24.7	1750	5.24	9.3	.6	116.3	1.0	69	1.0	1.2	.4	139	.95	.141	11	39.0	1.13	215	.127	2	2.68	.009	.26	.3	.05	5.7	.2	<.05	8
L8650N 5850E	.7	217.1	9.8	96	.3	19.8	23.0	1190	5.84	5.0	.6	66.3	1.5	51	.3	.7	.3	150	.54	.280	10	31.1	1.08	249	.147	1	3.10	.010	.23	.2	.02	5.1	.2	<.05	10
L8650N 5880E	1.0	219.3	10.7	93	.6	21.5	20.4	687	4.71	5.4	.6	48.3	2.1	34	.3	.7	.3	115	.45	.259	9	31.5	.92	216	.130	1	3.00	.010	.19	.3	.05	4.9	.1	<.05	9
L8650N 5910E	1.0	239.8	10.4	106	.3	20.7	22.1	1026	4.96	6.1	.3	63.4	1.5	35	.4	.7	.3	128	.38	.254	7	32.2	1.00	267	.117	2	2.40	.009	.17	.2	.03	4.4	.1	<.05	8
L8650N 5940E	1.3	207.9	16.1	119	.3	27.4	23.7	879	5.31	8.3	.4	62.2	1.5	38	.6	.9	.3	123	.39	.217	6	40.2	1.07	197	.148	2	2.94	.009	.21	.4	.04	4.8	.2	<.05	10
L8650N 5970E	.8	151.3	13.7	95	.3	28.6	19.4	787	4.08	10.1	.5	61.4	1.6	40	.5	.7	.3	100	.43	.207	6	39.0	.85	189	.116	2	2.57	.010	.15	.3	.04	3.9	.2	<.05	8
L8650N 6000E	1.3	191.2	10.9	89	.2	44.4	23.6	524	4.53	17.3	.4	114.1	1.9	35	.6	.9	.3	109	.42	.151	8	60.6	1.06	155	.124	2	2.54	.010	.19	.4	.03	4.2	.2	<.05	7
L8600N 5847E	1.5	341.9	20.8	110	1.2	24.9	25.0	1582	5.46	10.0	.7	61.9	.9	80	.9	1.2	.4	148	.96	.162	20	45.4	1.11	226	.123	3	2.94	.011	.30	.3	.07	7.7	.2	<.05	9
L8600N 5853E	1.2	303.1	13.5	112	.9	26.7	26.5	1688	5.72	7.8	.9	61.2	1.2	64	.9	1.0	.3	151	.84	.176	15	47.0	1.22	234	.141	3	3.25	.010	.31	.2	.05	7.1	.2	<.05	11
L8550N 5790E	.8	130.6	17.7	113	.4	18.3	21.7	1353	5.60	6.3	.3	27.8	1.2	54	.5	.6	.3	147	.56	.197	6	35.8	.75	282	.158	2	2.17	.012	.12	.3	.02	3.9	.1	<.05	9
L8550N 5820E	.8	145.2	16.4	99	.5	21.5	22.2	1078	5.15	6.4	.4	42.6	1.6	33	.4	.6	.2	136	.34	.245	7	40.8	.80	192	.148	1	2.79	.010	.12	.3	.04	4.0	.1	<.05	8
L8550N 5850E	.8	277.3	9.3	104	.3	23.2	23.7	626	6.47	6.2	.4	104.1	1.5	43	.4	.8	.3	174	.55	.316	8	35.6	1.27	243	.158	2	2.74	.010	.25	.3	.02	6.0	.1	<.05	9
L8550N 5880E	1.1	161.0	10.7	101	.4	29.5	24.9	997	5.03	11.5	.5	75.4	1.9	42	.5	.7	.3	126	.44	.366	7	53.5	1.00	164	.147	3	2.94	.011	.23	.3	.04	5.1	.2	<.05	9
L8550N 5910E	.7	129.3	10.7	130	.4	53.9	27.6	1220	3.99	14.3	.5	32.1	1.8	32	.7	.6	.3	82	.31	.304	7	88.5	.96	202	.140	2	3.12	.012	.17	.3	.04	4.3	.2	<.05	9
L8550N 5940E	1.2	167.1	22.3	142	.4	36.4	22.9	1471	4.63	17.4	.4	40.6	1.6	44	1.1	1.1	.4	107	.36	.187	9	57.9	1.03	229	.123	4	2.78	.009	.19	.2	.03	4.3	.2	<.05	8
L8550N 5970E	1.0	93.3	9.8	79	.3	24.8	19.7	1105	4.40	8.0	.4	53.9	1.4	37	.3	.7	.3	107	.35	.097	8	43.1	.69	174	.135	2	2.15	.010	.10	.4	.04	3.2	.2	<.05	8
L8550N 6000E	1.2	138.8	14.5	147	.3	34.4	20.8	1089	4.29	14.9	.5	40.3	2.1	34	.6	.7	.3	99	.33	.231	7	49.3	.92	207	.151	1	3.07	.011	.15	.3	.05	4.3	.2	<.05	10
RE L8550N 6000E	1.0	142.2	14.8	151	.3	36.8	22.7	1140	4.22	15.3	.6	31.1	2.3	35	.6	.8	.3	100	.33	.236	7	54.9	.93	219	.153	3	3.13	.011	.15	.4	.03	4.5	.2	<.05	10
L8350N 5490E	.9	141.2	21.5	134	.4	21.8	21.4	1593	4.71	9.7	.6	19.0	1.8	37	.5	.8	.4	122	.31	.239	7	31.5	.99	209	.152	1	2.87	.012	.16	.4	.05	5.7	.2	<.05	13
L8350N 5520E	.8	164.4	18.1	122	.4	35.8	23.7	1273	4.39	8.8	.6	29.5	1.9	33	.5	.6	.3	115	.32	.207	9	54.0	.95	158	.135	2	2.82	.009	.18	.4	.04	5.2	.1	<.05	9
L8350N 5550E	.9	114.3	17.1	88	.3	25.5	20.2	922	3.94	10.6	.5	34.6	2.0	35	.5	.7	.3	101	.31	.221	6	41.5	.72	144	.140	2	2.65	.013	.12	.4	.05	3.9	.1	<.05	9
L8350N 5580E	1.2	87.0	31.6	88	.4	26.1	22.4	2112	3.73	8.5	.5	20.4	1.3	40	.5	1.0	.4	98	.37	.121	6	43.6	.67	233	.142	3	2.44	.012	.11	.3	.06	3.6	.1	<.05	10
L8350N 5610E	.9	100.4	17.7	105	.5	30.2	22.0	1071	4.64	9.8	.4	32.8	2.0	36	.2	.8	.3	119	.34	.271	7	50.8	.84	213	.140	3	2.63	.011	.12	.5	.03	4.3	.1	<.05	10
L8350N 5640E	.7	77.6	16.0	108	.3	21.2	18.1	1769	4.55	8.7	.4	18.3	1.3	47	.3	.4	.2	115	.43	.303	7	34.0	.66	188	.097	4	2.12	.009	.11	.3	.02	2.9	.1	<.05	7
L8350N 5670E	.7	79.1	26.6	112	.7	26.4	17.5	1719	4.43	10.2	.5	321.9	1.4	47	.4	.6	.2	114	.44	.204	10	39.7	.72	249	.109	1	2.45	.010	.10	.2	.05	3.5	.1	<.05	9
L8350N 5700E	.5	99.0	19.9	127	.3	22.1	21.8	901	6.20	8.7	.4	21.1	1.6	62	.5	.4	.3	165	.59	.384	7	31.9	.84	189	.136	3	2.52	.010	.12	.3	.05	3.9	.1	<.05	9
L8350N 5730E	.6	128.3	25.9	127	.3	40.0	23.7	902	5.32	10.8	.4	33.9	2.0	41	.3	.7	.2	134	.50	.251	10	59.5	1.04	238	.129	3	2.46	.008	.13	.3	.01	4.7	.1	<.05	9
L8350N 5760E	1.1	149.6	22.7	122	.3	28.1	23.2	970	6.20	9.9	.4	24.6	1.7	40	.4	.8	.4	166	.42	.214	8	41.2	1.03	204	.161	3	2.84	.009	.16	.4	.03	5.5	.1	<.05	11
L8350N 5790E	.9	151.4	11.7	135	.3	19.3	20.8	668	5.85	6.3	.5	44.5	1.8	42	.4	.6	.4	155	.51	.311	8	28.8	1.00	209	.158	1	2.86	.010	.19	.3	.03	6.2	.1	<.05	10
L8350N 5820E	.8	170.0	22.8	105	.4	29.2	22.4	826	5.16	9.4	.5	56.6	2.3	36	.4	.8	.6	134	.42	.264	11	46.8	1.00	236	.144	3	2.92	.009	.16	.4	.02	5.5	.1	<.05	9
L8300N 5577E	.6	90.1	26.1	116	.3	17.0	16.9	1340	3.53	11.9	.5	17.3	2.1	54	1.0	.7	.3	83	.39	.569	6	25.2	.47	293	.116	3	2.75	.012	.12	.3	.04	4.2	.1	<.05	9
L8300N 5583E	.7	111.8	15.6	107	.4	19.8	18.9	1181	4.02	13.0	.6	18.8	1.7	59	.3	.6	.3	103	.61	.325	8	27.5	.68	264	.130	2	2.86	.016	.11	.4	.04	4.8	.1	<.05	10
STANDARD DS3	9.0	119.1	32.9	157	.3	35.9	11.2	791	3.16	29.0	6.1	18.9	3.6	25	6.0	5.2	5.1	70	.52	.091	16	172.4	.53	146	.082	3	1.70	.028	.15	3.7	.22	3.4	1.2	<.05	6

GROUP 1DA - 10.0 GM SAMPLE LEACHED WITH 60 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 200 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 24 2002 DATE REPORT MAILED: July 8/02 SIGNED BY C. L........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data___ FA ___

ACME ANALYTICAL

Kaufman, M.A. FILE # A201912

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.1	2.1	2.3	43	<.1	4.3	3.7	486	1.65	<.5	3.4	.9	4.9	62	<.1	<.1	.2	38	.49	.100	7	11.5	.49	225	.118	2	.87	.077	.47	2.5	.01	2.7	.4	<.05	5
L8250N 5490E	1.0	99.1	14.9	67	.7	20.8	20.9	871	4.16	10.7	.5	27.1	1.5	33	.1	.6	.2	117	.36	.104	6	34.6	.64	119	.124	2	2.12	.010	.10	.4	.05	3.4	.1	<.05	7
L8250N 5520E	.7	104.9	12.7	69	.3	20.5	19.9	1006	4.72	9.5	.3	23.5	1.3	33	.2	.5	.3	126	.30	.168	6	32.4	.65	106	.105	1	1.87	.010	.09	.3	.02	3.4	.1	<.05	8
L8250N 5550E	.8	121.7	12.1	76	.3	21.3	21.2	679	4.81	10.3	.5	33.0	1.6	35	.3	.6	.3	125	.36	.150	8	35.6	.76	122	.113	2	2.11	.010	.12	.4	.04	4.3	.1	<.05	6
L8250N 5580E	.6	75.8	20.4	121	.4	42.6	21.7	1227	4.52	8.4	.5	16.1	2.2	44	.5	.4	.2	110	.44	.304	9	57.1	.95	271	.106	1	2.39	.010	.14	.3	.05	3.8	.1	<.05	9
L8250N 5610E	.8	118.6	15.6	101	.3	24.6	22.2	1212	5.24	7.9	.5	30.4	1.7	51	.3	.5	.3	135	.43	.215	8	34.4	.93	203	.109	2	2.41	.010	.15	.3	.05	4.5	.1	<.05	9
L8250N 5640E	.9	168.1	16.3	114	.3	25.1	25.3	1726	5.79	5.9	.4	33.2	1.3	53	.5	.5	.2	147	.52	.320	9	37.0	1.10	291	.125	<1	2.62	.009	.21	.3	.03	5.3	.1	<.05	9
L8250N 5670E	.4	268.0	7.7	121	.3	20.2	29.8	792	7.11	5.1	.4	16.7	1.3	74	.2	.3	.1	230	.72	.273	9	18.7	1.89	266	.206	<1	3.56	.011	.41	.2	.03	5.8	.1	<.05	11
L8250N 5700E	.6	192.9	9.6	92	.3	16.1	23.8	766	5.88	7.6	.4	27.9	1.2	74	.2	.4	.2	169	.66	.357	8	23.3	1.15	189	.134	<1	2.61	.008	.20	.3	.04	4.5	.1	<.05	9
L8200N 4900E	1.0	71.8	37.9	116	.4	18.5	14.3	1688	3.45	7.6	.7	58.2	2.6	38	.6	.5	.6	101	.39	.184	10	26.1	.47	207	.102	<1	2.47	.011	.09	.8	.05	3.4	.2	<.05	9
L8200N 4930E	1.3	77.6	25.8	93	.4	26.9	17.4	1305	3.40	9.1	.7	12.9	2.5	24	.5	.4	.4	81	.23	.209	8	36.6	.49	174	.114	<1	3.21	.010	.08	.6	.05	3.8	.1	<.05	9
L8200N 4960E	1.2	98.3	26.6	90	.5	23.1	18.5	1265	4.19	9.0	.8	12.1	2.3	32	.3	.6	.4	120	.39	.231	9	35.7	.52	145	.091	<1	2.68	.014	.07	.5	.06	3.6	.1	<.05	8
L8200N 4990E	.9	57.0	30.3	113	.4	19.9	16.1	2344	3.35	8.0	.7	8.8	1.8	47	.4	.7	.4	88	.40	.199	8	27.6	.38	207	.105	<1	2.49	.026	.07	.4	.04	3.0	.1	<.05	9
RE L8200N 4990E	.9	56.6	30.2	107	.4	18.7	16.0	2331	3.07	8.2	.7	15.9	1.5	46	.4	.6	.4	77	.34	.184	8	25.1	.35	199	.099	1	2.41	.012	.07	.3	.07	2.7	.1	<.05	9
L8200N 5020E	.9	124.0	24.9	110	.3	37.3	22.6	682	4.02	10.4	.7	83.7	2.7	46	.5	.6	.4	108	.50	.210	8	61.9	.75	130	.109	<1	2.38	.016	.10	.4	.04	4.5	.1	<.05	9
L8200N 5050E	.8	159.7	16.4	79	.7	21.5	17.3	664	3.99	7.3	.7	25.2	2.6	32	.3	.5	.5	115	.31	.169	9	31.1	.65	127	.117	<1	2.84	.012	.10	.6	.04	4.4	.1	<.05	8
L8200N 5080E	.8	136.5	20.4	98	.8	26.6	21.5	1467	4.62	6.7	.8	10.2	2.8	60	.3	.5	.9	128	.57	.289	9	31.2	.91	224	.150	2	3.31	.017	.13	.6	.04	4.0	.1	<.05	11
L8200N 5110E	.7	102.2	25.2	87	.3	21.7	18.3	1249	4.07	8.3	.9	28.1	3.9	38	.4	.5	.7	114	.34	.235	8	38.4	.64	190	.109	<1	1.96	.012	.08	.4	.02	3.6	.1	<.05	8
L8200N 5140E	.8	111.4	15.6	58	.3	26.8	20.5	460	3.89	9.5	.7	39.3	2.1	35	.2	.5	.3	110	.36	.139	9	40.0	.56	115	.106	1	2.42	.011	.06	.4	.04	3.9	.1	<.05	7
L8200N 5170E	1.1	87.3	19.5	96	.4	28.4	19.4	1576	3.34	9.0	.6	16.1	2.2	32	.4	.5	.4	80	.26	.243	8	45.7	.65	209	.098	1	2.24	.011	.08	.3	.04	4.3	.1	<.05	8
L8200N 5200E	1.1	137.6	20.2	92	.3	34.8	22.2	681	3.81	14.2	.6	51.0	2.5	47	.3	.8	.4	102	.47	.160	8	55.7	.85	130	.115	1	2.22	.012	.11	.5	.03	4.5	.1	<.05	8
L8200N 5230E	1.2	159.2	17.2	59	.2	34.4	28.2	522	4.44	19.0	.5	74.4	1.8	41	.1	.8	.3	123	.42	.183	6	52.4	.80	102	.084	1	1.75	.013	.09	.4	.03	4.4	.1	<.05	6
L8200N 5260E	1.0	105.1	24.8	129	.3	39.0	21.9	1734	4.24	13.0	.6	47.5	2.8	26	.4	.5	.6	101	.23	.203	8	53.0	.92	192	.158	3	3.24	.011	.13	.6	.04	4.5	.2	<.05	12
L8200N 5290E	2.0	154.8	18.7	128	.3	55.3	27.4	1461	5.18	11.8	.6	51.4	2.5	32	.4	.7	.7	146	.35	.098	7	83.9	1.63	147	.195	2	3.70	.010	.18	2.0	.03	7.5	.2	<.05	12
L8200N 5320E	1.0	157.0	19.9	124	.5	39.4	24.4	1672	4.85	18.5	.6	27.0	2.0	55	.4	.8	.3	134	.46	.259	8	67.6	1.49	187	.141	1	3.21	.009	.14	.4	.04	5.6	.1	<.05	11
L8200N 5350E	1.0	167.7	21.4	91	.6	33.4	21.2	1282	4.62	13.9	.6	22.4	2.0	40	.4	.8	.3	132	.34	.162	10	52.5	1.15	173	.144	1	3.35	.008	.15	.3	.05	5.7	.2	<.05	10
L8200N 5380E	.7	101.3	30.2	81	.3	30.7	20.7	1160	4.09	10.1	.4	27.0	1.4	44	.3	.9	.4	114	.31	.189	6	48.9	.98	193	.124	1	2.27	.010	.11	.3	.02	3.9	.1	<.05	9
L8200N 5410E	1.2	84.9	26.0	108	.3	28.8	24.2	2419	4.19	12.6	.6	21.0	1.5	48	.8	.7	.4	106	.36	.265	8	43.9	.81	267	.110	2	2.48	.010	.11	.4	.04	3.8	.1	<.05	10
L8200N 5440E	.9	101.5	17.7	124	.4	26.1	22.1	2309	4.40	8.0	.4	20.1	1.6	71	.7	.5	.3	111	.57	.317	8	39.8	.86	354	.113	3	2.60	.010	.15	.3	.02	4.3	.1	<.05	9
L8200N 5470E	.7	123.8	20.4	103	.5	24.1	22.7	1370	4.51	12.1	.5	28.9	1.3	55	.8	.5	.3	123	.39	.225	8	40.7	.86	275	.107	1	2.40	.009	.13	.3	.03	4.0	.1	<.05	8
L8200N 5500E	1.0	118.9	16.7	88	.6	24.0	21.3	1396	4.36	10.5	.7	45.9	2.3	31	.3	.6	.3	116	.26	.137	10	35.8	.71	163	.141	1	2.83	.011	.10	.4	.04	4.7	.2	<.05	9
L8000N 4990E	.6	64.6	17.8	54	.6	16.0	14.5	517	3.65	5.9	.7	31.0	2.7	28	.4	.5	.6	115	.38	.145	8	22.7	.39	117	.111	1	2.11	.013	.08	.6	.06	3.5	.1	<.05	6
L8000N 5020E	.8	143.1	15.1	73	.4	25.5	18.9	736	4.10	7.3	.6	41.4	1.9	42	.2	.5	.4	133	.58	.188	9	56.6	.84	109	.118	1	1.98	.023	.09	.6	.01	5.5	.1	<.05	7
L8000N 5050E	.8	117.0	14.9	125	.5	20.0	18.0	1096	3.86	7.5	1.1	16.4	2.7	24	.4	.6	.6	106	.28	.404	8	24.8	.56	146	.142	3	3.27	.014	.09	.6	.04	4.0	.2	<.05	10
STANDARD DS3	9.1	119.9	32.8	155	.3	35.7	11.4	783	3.20	28.2	6.3	21.5	3.7	25	6.3	4.9	5.0	73	.57	.091	17	181.0	.54	145	.086	4	1.72	.033	.15	3.7	.20	3.4	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ____

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
G-1	1.1	2.2	2.1	41	<.1	3.7	3.4	487	1.52	<.5	2.9	<.5	4.6	59	.1	<.1	.2	34	.50	.092	7	11.0	.46	214	.116	2	.88	.073	.45	2.3	<.01	3.0	.3	<.05	5
L8000N 5080E	.8	145.6	15.3	82	.8	24.1	14.1	400	3.80	5.6	4.6	119.4	3.6	28	.2	.4	.4	104	.35	.237	13	31.2	.46	90	.163	2	3.88	.019	.09	.6	.07	4.4	.1	<.05	9
L8000N 5110E	.7	70.8	13.3	69	.5	16.1	15.7	312	4.09	6.1	.5	20.4	2.6	24	.2	.6	.4	110	.24	.252	5	25.7	.40	92	.125	3	2.62	.014	.06	.5	.03	3.4	.1	<.05	9
L8000N 5140E	.5	123.4	12.1	87	.3	24.1	18.5	612	3.95	7.4	.7	11.3	2.6	28	.2	.5	.6	105	.31	.292	6	31.6	.66	155	.149	1	3.17	.015	.11	.6	.02	4.0	.1	<.05	10
L8000N 5170E	.7	344.9	13.3	116	.5	42.3	24.2	731	4.57	8.0	.7	9.0	2.3	32	.3	.5	.7	127	.33	.227	6	54.0	1.01	136	.173	3	3.28	.014	.15	.8	.03	4.5	.2	<.05	10
L8000N 5200E	.6	58.3	15.6	71	.4	23.4	18.6	529	4.04	7.1	.5	8.3	2.8	26	.1	.5	.6	98	.21	.332	5	32.0	.49	139	.145	2	2.67	.013	.09	.8	.04	3.1	.1	<.05	11
L8000N 5230E	.7	65.0	15.1	88	.6	17.7	19.4	1036	3.70	7.5	.8	35.5	3.0	25	.3	.4	.6	99	.25	.321	9	21.7	.55	164	.157	2	3.43	.017	.10	1.2	.06	4.9	.2	<.05	9
L8000N 5260E	.8	59.8	13.8	81	.2	26.5	17.1	670	3.95	8.0	.5	14.3	2.5	34	.1	.5	.6	109	.36	.202	5	35.9	.87	130	.178	1	3.74	.014	.13	2.0	.03	4.2	.2	<.05	11
L8000N 5290E	.7	69.4	16.8	92	.2	26.6	16.8	1798	3.45	7.3	1.0	16.1	3.4	34	.3	.6	.7	93	.30	.202	14	38.0	.73	215	.140	3	3.08	.017	.15	1.6	.03	4.7	.2	<.05	9
L8000N 5320E	.8	75.4	21.2	105	.3	30.9	22.0	1056	4.23	10.1	.5	42.7	2.9	28	.2	.5	1.7	113	.25	.214	8	59.4	1.01	202	.143	1	2.61	.010	.15	1.9	.01	6.4	.3	<.05	10
L8000N 5350E	.9	81.7	16.0	61	.4	25.5	19.0	505	3.62	12.2	.9	25.6	3.0	31	.2	.7	.5	99	.24	.173	7	40.8	.69	102	.124	1	2.89	.014	.09	.8	.03	4.3	.1	<.05	8
L8000N 5380E	1.0	77.8	16.3	75	.3	25.3	16.8	862	3.62	9.2	.9	33.3	3.2	26	.3	.7	.4	93	.26	.177	10	37.1	.70	151	.136	2	3.19	.013	.10	.9	.05	4.4	.2	<.05	9
L8000N 5410E	2.1	114.4	17.2	96	.6	23.8	20.4	937	4.51	11.3	1.0	28.7	3.1	30	.5	.5	.4	115	.29	.203	14	37.2	.77	92	.156	2	3.28	.013	.12	.5	.06	5.7	.2	<.05	10
L8000N 5440E	1.7	91.8	17.0	83	.5	21.4	18.5	600	4.08	11.0	1.3	25.9	4.2	30	.4	.5	.4	102	.31	.184	12	34.1	.66	93	.154	2	3.32	.014	.09	.6	.05	5.3	.1	<.05	10
L8000N 5470E	1.4	90.7	23.0	97	.3	20.0	17.0	1076	4.13	14.1	.8	16.9	2.7	27	.4	.8	.4	102	.22	.244	9	32.0	.55	154	.141	1	3.01	.013	.10	.4	.03	4.2	.1	<.05	8
L8000N 5500E	1.2	83.7	14.2	105	.5	20.6	19.3	1042	4.50	11.3	.6	602.3	1.8	34	.4	.4	.4	112	.36	.166	8	34.4	.57	146	.128	1	2.48	.013	.09	.2	.04	4.7	.2	<.05	9
RE L8000N 5500E	1.3	84.7	14.3	107	.5	20.9	19.0	1081	4.43	9.9	.5	88.2	1.8	35	.5	.5	.3	105	.34	.161	8	32.8	.55	150	.136	1	2.48	.013	.10	.2	.03	3.5	.1	<.05	9
LC 720W	1.3	117.8	119.7	275	.5	42.0	17.1	1954	3.55	11.0	1.2	5.6	3.4	36	1.4	.7	.6	85	.30	.172	15	66.0	.86	209	.144	3	3.33	.012	.17	1.2	.05	4.5	.2	<.05	10
LC 690W	1.4	122.0	115.3	221	.6	31.0	16.5	2563	3.37	8.2	1.4	9.2	4.0	19	1.3	.6	.6	80	.20	.136	14	45.5	.71	174	.129	2	3.19	.010	.12	1.5	.03	4.4	.2	<.05	9
LC 660W	1.5	215.4	149.4	340	.3	31.0	17.6	3636	3.57	11.0	1.9	34.8	3.3	27	1.8	1.0	.8	81	.25	.178	14	46.3	.71	233	.125	3	3.32	.011	.11	1.2	.03	4.2	.3	<.05	10
LC 630W	1.5	143.3	276.5	384	.9	28.9	16.2	2099	3.35	10.6	2.0	26.6	4.4	21	1.8	.4	.9	79	.20	.116	21	46.0	.65	171	.145	2	3.70	.012	.12	1.0	.03	5.2	.2	<.05	10
LC 600W	2.0	163.8	197.3	323	.5	25.9	13.5	1910	3.31	9.7	1.7	11.1	4.9	18	1.8	.6	1.3	74	.23	.104	19	36.1	.56	194	.142	2	3.68	.012	.09	1.9	.05	4.3	.2	<.05	11
LC 570W	.9	96.6	155.7	412	.5	24.1	12.5	1770	3.22	10.2	2.6	30.0	4.8	26	2.0	.5	1.0	69	.22	.202	18	32.6	.53	197	.103	2	2.72	.012	.14	.7	.06	3.4	.2	<.05	8
LC 540W	1.3	142.2	284.9	283	1.1	36.8	18.9	1405	3.80	7.4	1.3	20.0	3.3	17	1.2	.6	.9	95	.26	.155	11	48.4	.85	177	.158	1	3.88	.016	.12	.6	.07	5.2	.2	<.05	11
LC 510W	1.3	168.4	156.3	229	.8	34.0	18.6	1222	3.91	5.8	1.3	20.9	3.8	18	.9	.5	.9	99	.27	.117	12	51.1	.89	147	.168	2	3.73	.014	.14	.6	.03	5.2	.2	<.05	10
LC 480W	1.2	94.7	56.4	138	.5	30.6	17.9	1342	3.65	5.7	.9	15.9	3.1	22	.3	.5	.7	96	.30	.137	12	46.8	.85	167	.159	1	3.05	.015	.13	.6	.05	4.4	.2	<.05	9
LC 450W	.8	68.4	44.5	141	.3	28.9	15.3	1214	3.05	5.0	.8	13.1	2.4	36	.7	.4	.7	75	.44	.166	9	36.6	.67	166	.141	2	3.07	.016	.14	.5	.05	3.9	.2	<.05	9
LC 420W	.8	100.0	31.9	129	.2	24.1	17.2	1232	3.84	5.4	1.0	19.4	3.5	38	.2	.5	.4	117	.44	.174	17	37.7	1.02	160	.135	2	2.79	.015	.25	.8	.02	6.4	.2	<.05	9
LC 390W	.5	120.5	14.3	188	.2	12.8	19.5	1670	4.37	6.3	.5	15.3	2.1	65	.2	.3	.5	148	.81	.281	7	17.5	1.13	272	.155	1	2.77	.012	.29	.5	.01	6.9	.2	<.05	11
LC 360W	.7	184.3	19.8	185	.3	13.8	19.9	1388	3.97	7.3	.7	32.5	1.8	70	.2	.6	.3	143	.79	.140	9	16.6	1.13	102	.129	2	2.96	.011	.16	.5	.03	5.7	.1	<.05	9
LC 330W	1.2	132.5	50.6	165	.5	16.3	17.0	2841	3.66	7.5	.8	34.0	2.4	53	.6	.5	.7	111	.38	.169	13	24.0	.67	151	.102	2	2.96	.012	.12	.6	.04	5.1	.1	<.05	10
LC 300W	.6	273.5	27.3	184	.8	16.2	20.1	1983	4.49	6.7	.7	18.5	2.7	48	.4	.4	.4	150	.60	.218	15	20.8	1.17	106	.151	2	3.22	.016	.20	.5	.06	9.1	.2	<.05	12
STANDARD DS3	8.9	123.3	32.7	161	.3	36.0	11.5	773	3.10	28.8	6.8	18.4	3.8	26	5.9	5.1	5.3	73	.55	.092	17	176.2	.55	145	.094	2	1.82	.033	.16	3.8	.20	3.8	1.1	<.05	6

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Kaufman, M.A. File # A201913
P.O. Box 14336, Spokane WA U.S.A. 99214

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm
SI	.5	27.5	.4	1	<.1	.7	.1	8	.04	<.5	<.1	3.1	<.1	3	<.1	<.1
2001 WP 54	791.5	804.9	262.0	160	1.2	42.5	22.3	184	35.89	764.2	.4	40.7	.4	15	.5	19.1
2001 WP 58	6.6	22.1	20.7	67	.9	6.5	16.7	959	3.29	18.5	.4	25.2	1.0	13	.3	1.5
STANDARD DS3	8.9	123.2	32.7	161	.3	36.2	11.6	802	3.32	29.9	6.5	20.2	3.7	27	5.4	5.1

SAMPLE#	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
SI	<.1	1	.13	<.001	<1	2.6	.01	6	.001	1	.02	.465	.01	.5	<.01	.2	<.1	<.05	<1
2001 WP 54	2.4	128	.05	.125	11	36.0	.04	23	.005	1	.50	.005	.07	2.2	<.01	5.2	.1	.09	7
2001 WP 58	2.0	47	.29	.104	5	8.9	.59	62	.078	<1	.95	.007	.24	2.4	.02	2.6	.1	.14	3
STANDARD DS3	5.7	74	.57	.095	17	179.4	.59	147	.093	2	1.74	.035	.16	3.6	.25	3.9	1.2	<.05	6

GROUP 1DA - 10.0 GM SAMPLE LEACHED WITH 60 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 200 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150

DATE RECEIVED: JUN 24 2002 DATE REPORT MAILED: July 10/02 SIGNED BY.......D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Kaufman, M.A. File # A202991

P.O. Box 14336, Spokane WA U.S.A. 99214

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm
G-1	1.7	3.3	2.0	42	<.1	4.0	3.7	491	2.01	1.0	1.9	1.0	4.4	81	<.1	.1	.1	41	.52	.089	8	17.6	.53	206	.115	2	.93	.080	.45	1.8	<.01	2.5	.2	.06	4
LINE D 720W	1.3	368.7	85.4	174	1.1	34.9	17.2	1861	3.47	11.5	1.6	32.4	3.3	29	1.0	.8	.6	82	.29	.153	14	51.6	.75	161	.111	2	3.35	.009	.14	1.0	.04	4.7	.2	.10	9
LINE D 690W	1.2	144.9	62.6	194	.3	51.5	21.5	1589	4.20	9.0	1.3	8.8	4.3	30	.8	.6	.6	100	.27	.213	13	74.5	1.11	204	.147	1	4.17	.014	.22	.9	.03	5.5	.3	<.05	11
LINE D 660W	1.2	198.7	65.2	198	.6	37.4	16.1	1018	3.36	8.7	1.1	17.5	4.2	21	1.1	.5	.6	79	.21	.204	12	48.8	.67	189	.145	3	4.05	.015	.12	1.0	.05	4.8	.2	<.05	11
LINE D 630W	1.1	188.3	59.2	275	.7	18.8	13.4	2414	3.40	12.3	1.6	73.3	3.1	66	1.5	.5	1.0	78	.49	.296	10	28.9	.48	293	.094	1	2.58	.014	.10	.8	.04	3.4	.1	<.05	9
LINE D 600W	1.4	184.2	95.0	198	.6	30.7	15.4	1329	3.32	9.9	1.6	68.6	3.9	33	1.0	.9	.6	80	.35	.126	14	46.5	.68	164	.119	<1	3.44	.014	.13	1.0	.04	5.4	.2	<.05	9
LINE D 570W	1.8	298.0	160.4	260	1.2	42.8	18.9	1114	4.40	10.5	2.3	31.7	6.1	20	.9	.9	1.1	88	.18	.117	16	59.7	.83	168	.131	1	3.88	.011	.15	.9	.05	5.7	.2	<.05	10
LINE D 540W	1.5	144.3	101.3	204	.6	32.1	16.5	1499	3.50	7.3	1.2	11.3	3.6	26	.7	.4	.8	81	.27	.076	15	48.6	.70	154	.124	<1	3.04	.014	.11	.7	.03	4.5	.2	<.05	8
LINE D 510W	1.3	142.0	96.9	166	.7	28.7	15.5	1413	3.30	8.7	1.5	19.9	3.8	24	.5	.4	.9	80	.25	.082	17	45.6	.64	128	.115	3	3.46	.011	.11	.8	.03	4.7	.2	<.05	10
LINE D 480W	.9	94.3	73.2	203	.4	26.7	14.4	1335	3.06	8.2	.8	8.9	2.7	32	.8	.5	.6	74	.30	.109	10	40.5	.59	160	.112	1	2.84	.013	.09	.7	.03	3.4	.1	<.05	8
LINE D 450W	2.1	114.6	71.6	142	.6	19.2	14.5	2305	3.27	8.1	1.3	10.7	2.3	46	.8	.5	.7	85	.52	.136	15	30.8	.57	134	.118	1	3.19	.015	.11	.8	.04	4.5	.1	<.05	11
LINE D 420W	.8	131.5	61.8	197	.4	14.4	19.7	1785	4.52	9.1	.8	12.5	2.9	52	.4	.3	.4	156	.91	.376	14	18.7	1.28	290	.145	1	3.55	.013	.27	.6	.03	9.6	.2	<.05	12
LINE D 390W	1.1	188.0	25.0	230	.4	12.0	24.2	2679	5.59	8.3	.8	47.7	2.3	83	.5	.5	.5	195	.81	.419	18	15.8	1.36	276	.150	2	3.65	.013	.29	.7	.02	11.3	.2	<.05	12
RE LINE D 390W	.9	177.7	24.4	231	.4	11.3	22.5	2521	5.51	8.7	.7	77.5	2.2	81	.5	.5	.5	190	.78	.409	17	14.3	1.29	263	.153	3	3.53	.013	.29	.8	.02	10.6	.2	<.05	13
LINE D 360W	1.0	210.3	29.1	190	.4	13.1	22.5	2613	5.22	8.7	.7	37.1	1.9	63	.5	.7	.6	177	.65	.210	14	19.5	1.20	131	.143	3	3.63	.015	.29	.7	.03	10.5	.2	<.05	12
LINE D 330W	.8	204.1	42.6	193	.4	16.5	22.6	2410	4.99	8.4	.8	25.1	1.5	63	.9	.6	.7	160	.67	.255	11	27.3	1.09	126	.128	1	3.34	.016	.29	.6	.03	8.5	.2	<.05	11
LINE D 300W	.8	329.1	55.3	167	.4	26.5	23.9	2213	4.79	8.5	.7	31.9	1.5	60	.7	.8	.7	148	.63	.197	10	47.2	1.05	139	.134	3	2.90	.019	.22	.6	.03	6.8	.2	<.05	10
L8100N 5007E	.7	126.3	20.6	91	.5	23.9	19.8	999	4.39	7.9	.5	350.3	2.3	34	.3	.6	.5	119	.32	.182	7	38.6	.62	96	.107	1	2.08	.015	.08	.5	.02	3.9	.1	<.05	8
L8100N 5013E	.8	90.8	17.3	78	.3	22.9	18.3	746	4.02	7.3	.7	15.2	2.6	39	.3	.6	.4	103	.32	.172	9	36.1	.53	100	.122	2	2.77	.016	.08	.4	.04	3.8	.1	<.05	9
STANDARD DS3	9.3	128.2	31.5	163	.3	33.9	11.9	769	3.34	32.3	6.3	18.7	3.7	29	5.9	4.9	5.2	72	.52	.089	16	174.0	.61	137	.081	3	1.73	.035	.17	3.8	.22	3.9	1.0	<.05	6

GROUP 1DA - 10.0 GM SAMPLE LEACHED WITH 60 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 200 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL SS80 60C <u>Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.</u>

DATE RECEIVED: AUG 13 2002 DATE REPORT MAILED: Aug 26/02 SIGNED BY.........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA ____

	A	B
1	Dog 02 Assess. Rept. GPS Waypoint Locations list	
2	For Waypoints refer to hand printed pages	
3	Waypoint No.*	Grid Location**
4	100	post at road and baseline,8000N. 6000E
5	101	7900N,5880E where line crosses road
6	102	7800N,5760E where line crosses road
7	103	7800N,5610E
8	104	7850N,5610E, in draw
9	105	7900N,5640E
10	106	7950N,5640E
11	107	8000N,5640E
12	108	8100N,5610E
13	109	not on line or station
14	110	8300N,5790E
15	111	8300N,5640E ?
16	112	8300N,5580E station established
17	113	8350N,5580E establish new line
18	114	E end of new 8350N line
19	115	8250N,5580E establish new line
20	116	8250N,5490E new line
21	117	8250N,5670E new line
22	118	8250N,5700E new line
23	119	west end of new line 8350N
24	120	8050N,6000E
25	121	8100N,6000E
26	122	8200N,6000E
27	123	8300N,6000E
28	124	8400N,6000E
29	125	8500N,6000E
30	126	8500N,5850E
31	127	8600N,5850E
32	128	8650N,5850E establish new line
33	129	W end of new line 8650N
34	130	E end of new line 8650N
35	131	8550N.5850E establish new line
36	132	W end of new line 8550N
37	133	E end of new line 8550N
38	134	8200N,5880E
39	135	8200N,5700E
40	136	8200N,5500E
41		
42	*Surveyed by Horst Klassen	
43	** Orvana 1996-1997 grid based on Nad 27	
44	*** Lettered designated lines done 2001-2002	

	A	B	C	D
1	Dog 02 Assess. Rept. GPS Waypoint Locations list			
2	For Waypoints refer to hand printed pages			
3	Waypoint No.*	Grid Location**		
4				
5	137	8200N,5410E		
6	138	8200N,5260E		
7	139	8200N,5050E, creek crossing		
8	140	W end of line 8200N extension		
9	141	flagged from this point on road to W.P. 139		
10	142	8000N,5640E		
11	143	8000N,5350E, line extension		
12	144	8000N,5140E, line extension		
13	145	8000N,4990E,line extension		
14	146	8000N,4900W, W end of extended line		
15	147	9000N,5280E		
16	148	9000N,5100E		
17	149	prospect shaft,15M S. of 9000N,5100E		
18	150	8900N,5280E		
19	151	8900N,5100E		
20	152	8600N,5220E		
21	153	possibly location on line 8700N?		
22	154	8700N,5130E		
23	155	access line for W grid crosses 8700N		
24	156	E end of line AA (00W)***		
25	157	AA 300W		
26	158	E end of lineC (00W)		
27	159	C 420W		
28	160	C 720W		
29	161	Line AA 650W		
30	162	Line A 600W		
31	163-168	MIsc. control locations on access road		
32				
33	*Surveyed by Horst Klassen			
34	** Orvana 1996-1997 grid based on Nad 27			
35	*** Lettered designated lines done 2001-2002			

	A	B	C	D	E	F
1	Dog 02 Assess. Rept. GPS Waypoints P. 3					
2	Waypoint No.*	Grid Location**	NAD 83		Nad 27	
3			E	N	E	N
4	181	access rt.	473991	5459031	0474072	5458823
5	182	Line C 300W***	474678	5458840	0474759	5458631
6	183	Line D 300W	474669	5458749	0474749	5458540
7	184	Line D 720W	474274	5458781	0474355	5458572
8	185	point on Line 8000N	475554	5458161	0475635	5457952
9	186	point on Line 8100N	475550	5458277	0475631	5458068
10	187	point on Line 8100N	475249	5458275	0475329	5458066
11	188	point on Line 8100N	475110	5458271	0475190	5458062
12	189	8100N,5010E	474959	5458319	0475039	5458110
13	190	8600N,approx. 5340E	475275	5458796	0475356	5458587
14	191	8600N, approx. 5400E	475330	5458779	0475411	5458570
15	192	Sub Line?	475160	5458697	0475241	5458488
16	193	8500N, approx. 5410E?	475156	5458671	0475236	5458462
17	194	8500N, approx. 5520E?	475287	5458669	0475368	5458460
18						
19	*Surveyed by Horst Klassen					
20	** numbered designated grid is Orvana 1996-1997 grid based on Nad 27					
21	*** Lettered designated lines done 2001-2002					

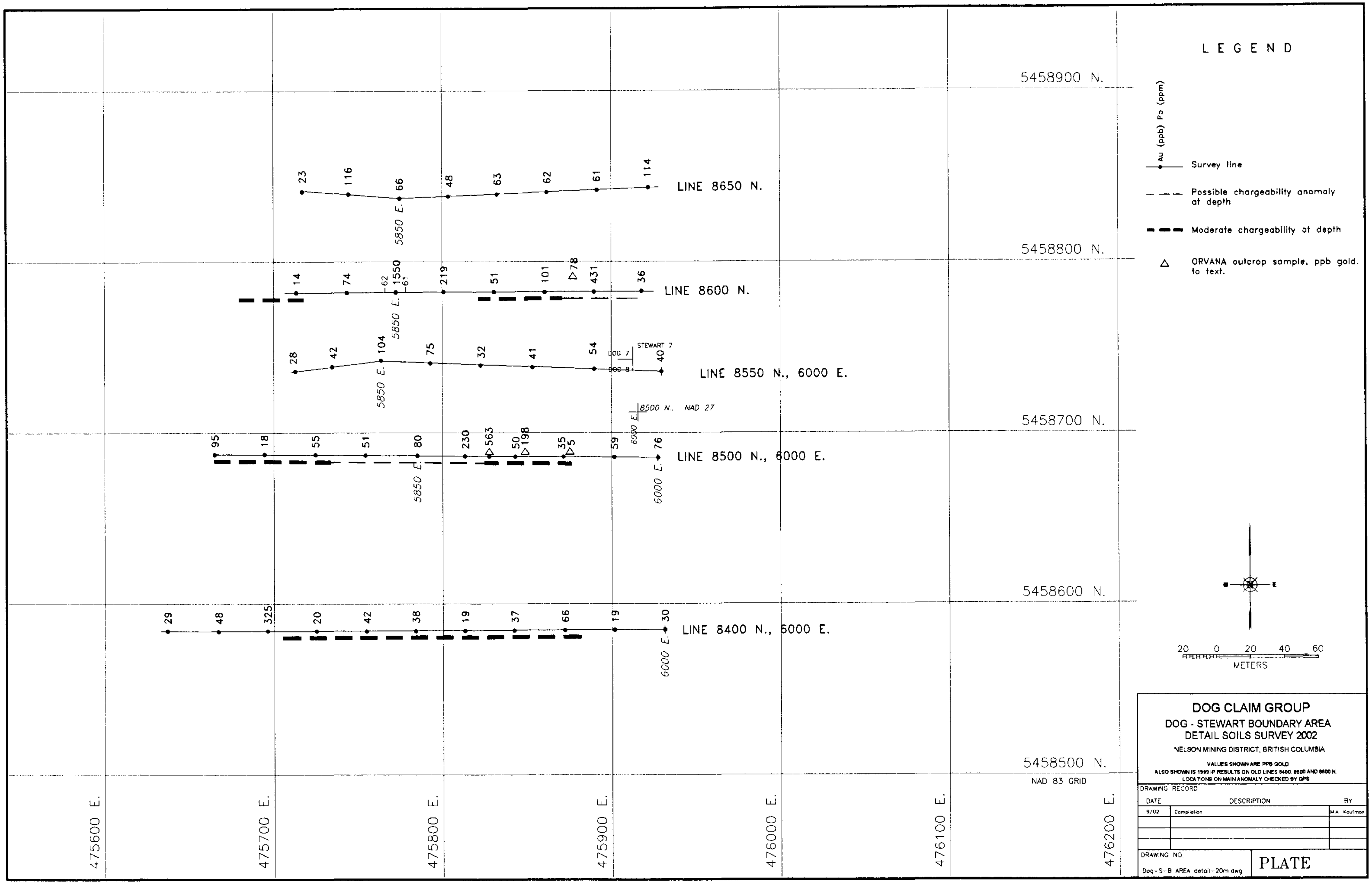
GPS WP	NORTHING NAD 27	NORTHING NAD 83	NORTHING WGS 84	IN METERS ALT(M)
100	E 0476020 N 5457978	0475939 5458186	0475939 5458186	1271
101	0475897 5457870	0475816 5458079	0475816 5458079	
102	0475786 5457772	0475705 5457981	0475705 5457981	
103	0475644 5457778	0475563 5457987	0475563 5457987	
104	0475645 5457821	0475565 5458029	0475565 5458029	
105	0475650 5457874	0475570 5458083	0475570 5458083	1289
106	0475649 5457920	0475568 5458128	0475568 5458128	1315
107	0475632 5457945	0475551 5458154	0475551 5458154	1332
108	0475633 5458066	0475553 5458275	0475553 5458275	1381
109	0475599 5458305	0475518 5458514	0475518 5458514	
110	0475801 5458281	0475721 5458490	0475721 5458490	
111	0475656 5458267	0475576 5458476	0475576 5458476	
112	0475589 5458258	0475508 5458467	0475508 5458467	
113	0475589 5458308	0475508 5458517	0475508 5458517	1498
114	0475837 5458318	0475757 5458527	0475757 5458527	1425
115	0475590 5458207	0475510 5458416	0475510 5458416	1460
116	0475499 5458203	0475418 5458412	0475418 5458412	1462
117	0475676 5458207	0475595 5458416	0475595 5458416	1428
118	0475701 5458220	0475620 5458429	0475620 5458429	1395

GPS WP	NAD 27	NAD 83	WGS 84	ALT
119	0475491 5458318	0475410 5458527	0475410 5458527	1496
120	0476023 5458031	0475943 5458240	0475943 5458240	1301
121	0476015 5458078	0475934 5458287	0475934 5458287	1289
122	0476008 5458175	0475927 5458384	0475927 5458384	1305
123	0476014 5458282	0475933 5458491	0475933 5458491	1347
124	0476010 5458378	0475930 5458587	0475930 5458587	1404
125	0476005 5458478	0475924 5458687	0475924 5458687	1451
126	0475865 5458477	0475784 5458686	0475784 5458686	1458
127	0475849 5458576	0475769 5458785	0475769 5458785	1489
128	0475853 5458630	0475772 5458838	0475772 5458838	1515
129	0475795 5458636	0475714 5458845	0475714 5458845	1527
130	0476001 5458635	0475920 5458844	0475920 5458844	1478
131	0475843 5458536	0475762 5458745	0475762 5458745	1458
132	0475788 5458528	0475707 5458737	0475707 5458737	1491
133	0476008 5458527	0475927 5458736	0475927 5458736	1485
134	0475873 5458183	0475793 5458392	0475793 5458392	1365
135	0475637 5458174	0475556 5458383	0475556 5458383	1434
136	0475472 5458170	0475391 5458379	0475391 5438379	1451
137	0475388 5458180	0475307 5458389	0475307 5458389	1451

GPS WP	NAD 27	NAD 83	WGS 84	ALT
138	0475207 5458215	0475126 5458424	0475126 5458424	1411
139	0475041 5458219	0474960 5458428	0474960 5458428	1348
140	0474882 5458220	0474802 5458429	0474802 5458429	1351
141	0474933 5457588	0474852 5457797	0474852 5457797	1165
142	0475638 5457962	0475557 5458171	0475557 5458171	1314
143	0475334 5457947	0475253 5458156	0475253 5458156	1348
144	0475143 5457955	0475062 5458164	0475062 5458164	1255
145	0474988 5457935	0474907 5458144	0474907 5458144	1470
146	0474881 5457953	0474800 5458162	0474800 5458162	1261
147	0475224 5459070	0475143 5459279	0475143 5459279	1584
148	0475039 5459076	0474958 5459285	0474958 5459285	1596
149	0475034 5459059	0474953 5459268	0474953 5459268	1597
150	0475222 5458928	0475141 5459136	0475141 5459136	1583
151	0475043 5458934	0474963 5459143	0474963 5459143	1566
152	0475232 5458585	0475152 5458794	0475152 5458794	1536
153	0475188 5458659	0475107 5458868	0475107 5458868	
154	0475146 5458664	0475066 5458873	0475066 5458873	1501
155	0475055 5458680	0474975 5458889	0474975 5458889	1477
156	0475059 5458660	0474978 5458869	0474978 5458869	1473

GPS WP	NAD 27	NAD 83	WGS 84	ALT
157	0474762 5458668	0474681 5458877	0474681 5458877	1502
158	0474755 5458617	0474674 5458826	0474674 5458826	1482
159	0474559 5458661	0474478 5458870	0474478 5458870	1398
160	0474339 5458684	0474258 5458892	0474258 5458892	1406
161	0474441 5458712	0474360 5458921	0474360 5458921	1422
162	0474487 5458816	0474407 5459025	0474407 5459025	1461
163	0474071 5458823	0473990 5459031	0473990 5459031	1374
164	0474069 5458832	0473988 5459041	0473988 5459041	1356
165	0474342 5458688	0474261 5458897	0474261 5458897	
166	0474043 5459400	0473962 5459609	0473962 5459609	1277
167	0473713 5458170	0473633 5458379	0473633 5458379	1081
168	0472805 5457953	0472724 5458162	0472724 5458162	

26,980 (1)



DOG CLAIM GROUP

DOG - STEWART BOUNDARY AREA DETAIL SOILS SURVEY 2002

NELSON MINING DISTRICT, BRITISH COLUMBIA

VALUES SHOWN ARE PPB GOLD
ALSO SHOWN IS 1999 IP RESULTS ON OLD LINES 8400, 8500 AND 8600 N.
LOCATIONS ON MAIN ANOMALY CHECKED BY GPS

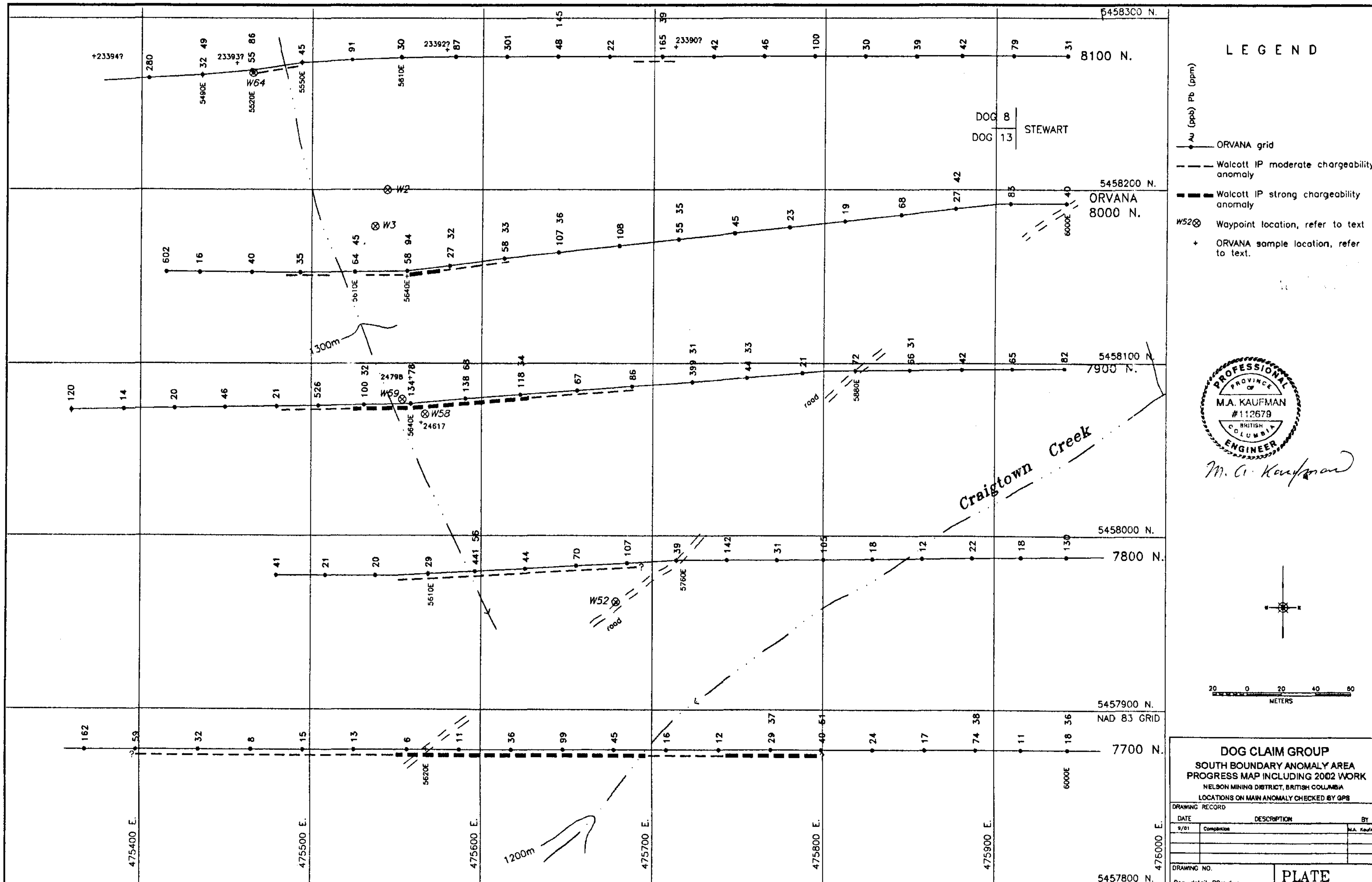
DRAWING RECORD

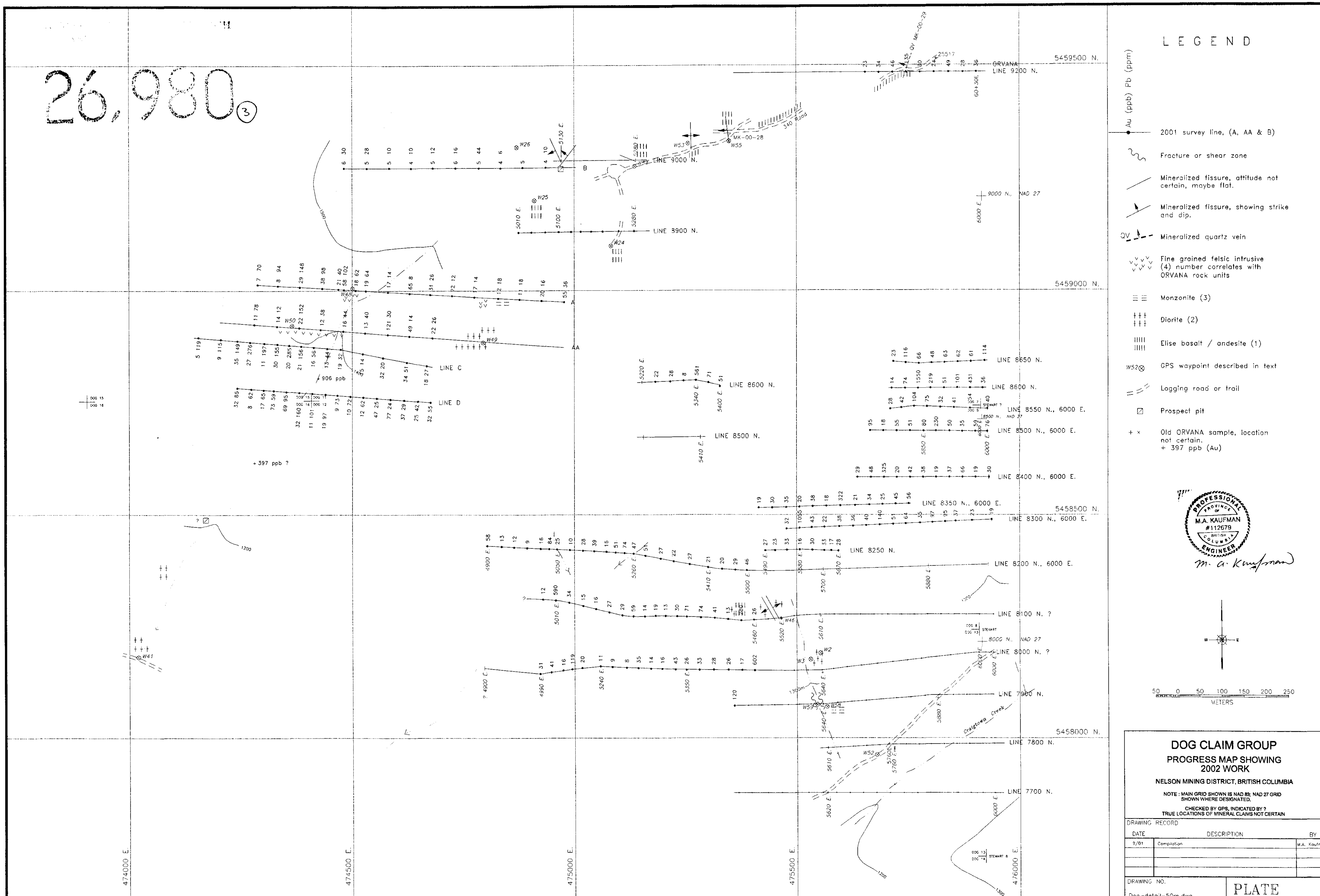
DATE	DESCRIPTION	BY
9/02	Compilation	M.A. Kaufman

DRAWING NO.
Dog-S-B AREA detail-20m.dwg

PLATE

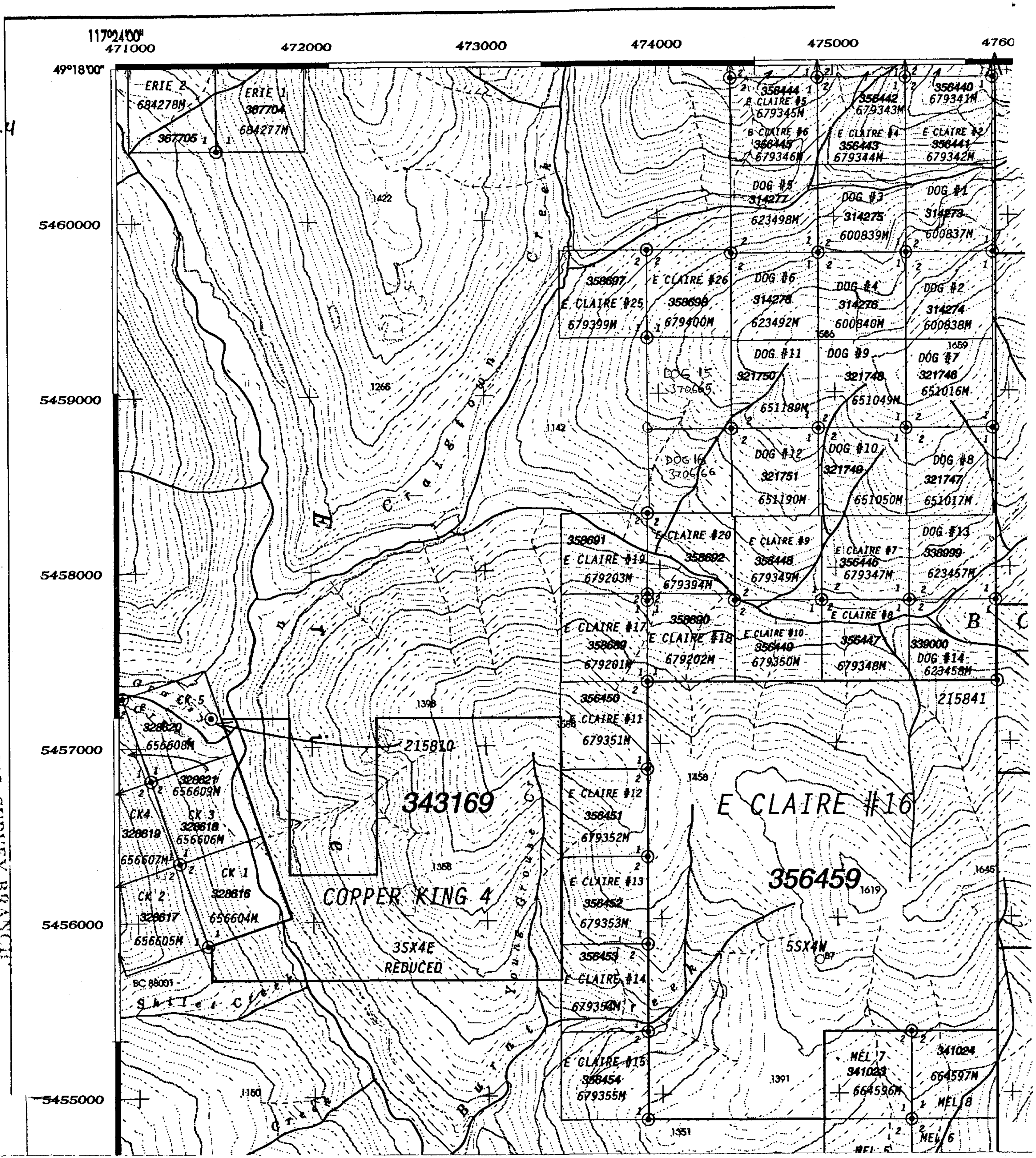
26,980 (2)


LEGEND
Au (ppb) Pb (ppm)
ORVANA grid
Walcott IP moderate chargeability anomaly
Walcott IP strong chargeability anomaly
W52 Waypoint location, refer to text
ORVANA sample location, refer to text.
DOG 8
DOG 13
STEWART
8100 N.
ORVANA 8000 N.
7900 N.
7800 N.
7700 N.
5458300 N.
5458200 N.
5458100 N.
5458000 N.
5457900 N.
5457800 N.
NAD 83 GRID
475400 E.
475500 E.
475600 E.
475700 E.
475800 E.
475900 E.
476000 E.
Craigtown Creek
road
1300m
1200m
W64
W2
W3
W59
W58
W52
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M.A. KAUFMAN
#112679
METERS
DOG CLAIM GROUP
SOUTH BOUNDARY ANOMALY AREA
PROGRESS MAP INCLUDING 2002 WORK
NELSON MINING DISTRICT, BRITISH COLUMBIA
LOCATIONS ON MAIN ANOMALY CHECKED BY GPS
DRAWING RECORD
DATE
DESCRIPTION
BY
9/01
Compilation
M.A. Kaufman
DRAWING NO.
Dog-detail-20m.dwg
PLATE



26,980 (3)
LEGEND
Au (ppb) Pb (ppm)
2001 survey line, (A, AA & B)
Fracture or shear zone
Mineralized fissure, attitude not certain, maybe flat.
Mineralized fissure, showing strike and dip.
QV Mineralized quartz vein
Fine grained felsic intrusive (4) number correlates with ORVANA rock units
Monzonite (3)
Diorite (2)
Elise basalt / andesite (1)
W52 GPS waypoint described in text
Logging road or trail
Prospect pit
Old ORVANA sample, location not certain. + 397 ppb (Au)
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M.A. KAUFMAN #112679
50 0 50 100 150 200 250
METERS
DOG CLAIM GROUP
PROGRESS MAP SHOWING 2002 WORK
NELSON MINING DISTRICT, BRITISH COLUMBIA
NOTE : MAIN GRID SHOWN IS NAD 83; NAD 27 GRID SHOWN WHERE DESIGNATED.
CHECKED BY GPS, INDICATED BY ?
TRUE LOCATIONS OF MINERAL CLAIMS NOT CERTAIN
DRAWING RECORD
DATE
DESCRIPTION
BY
9/01
Compilation
M.A. Kaufman
DRAWING NO.
Dog-detail-50m.dwg
PLATE
5459500 N.
5459000 N.
5458500 N.
5458000 N.
474000 E.
474500 E.
475000 E.
475500 E.
476000 E.
ORVANA
LINE 9200 N.
LINE 9000 N.
LINE 8900 N.
LINE C
LINE D
LINE 8650 N.
LINE 8600 N.
LINE 8550 N., 6000 E.
LINE 8500 N.
LINE 8500 N., 6000 E.
LINE 8400 N., 6000 E.
LINE 8350 N., 6000 E.
LINE 8300 N., 6000 E.
LINE 8250 N.
LINE 8200 N., 6000 E.
LINE 8100 N. ?
LINE 8000 N. ?
LINE 7900 N.
LINE 7800 N.
LINE 7700 N.
MK-00-28
MK-00-29
340 Road
Craigtown Creek
906 ppb
+ 397 ppb ?

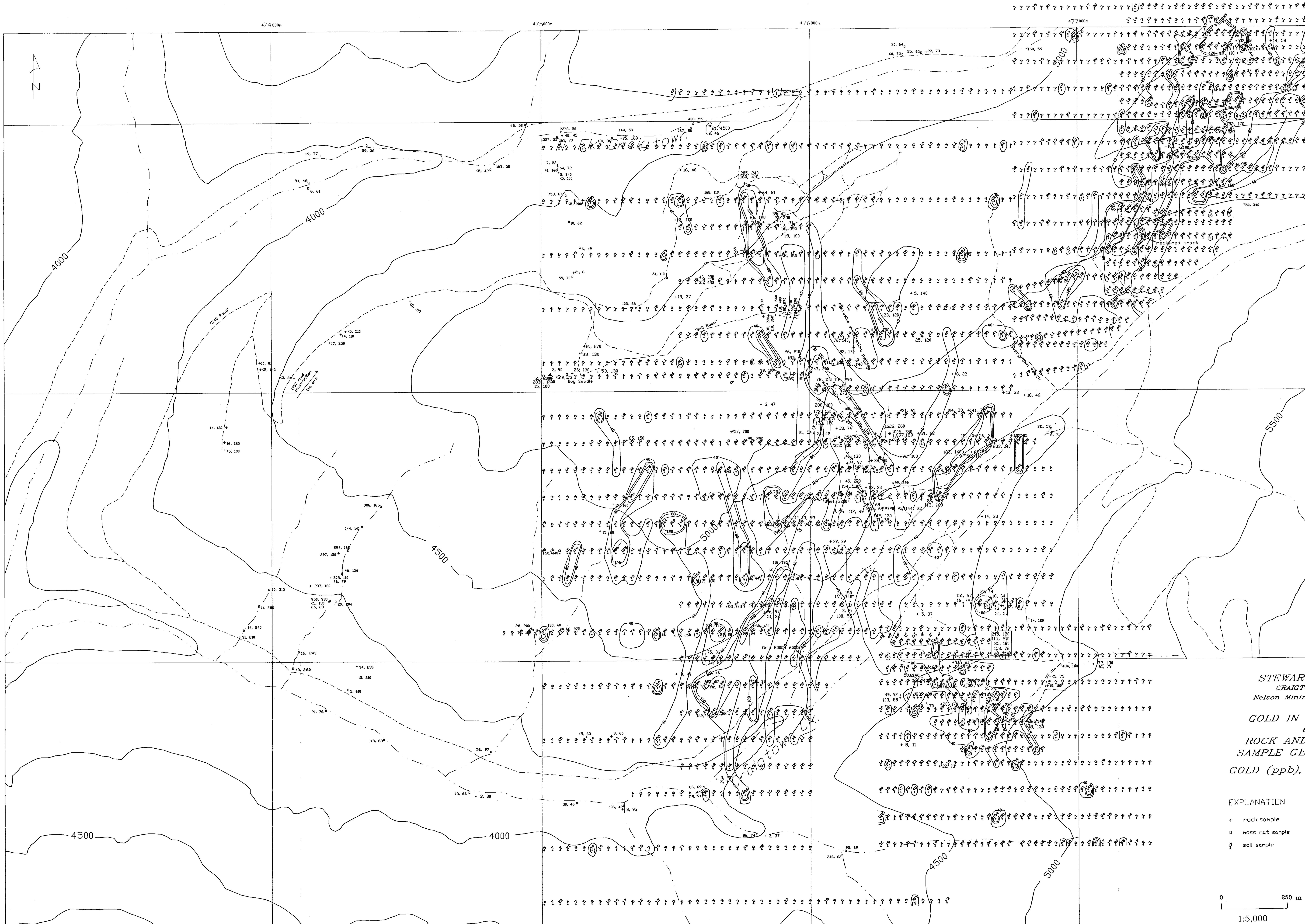
MO 82F024
1:20000



GEOLOGICAL SURVEY BRANCH
ASSESS...

26,980

(4)



STEWART PROJECT
CRAIGTOWN CREEK
Nelson Mining Division, B.C.

GOLD IN SOILS (ppb) and ROCK AND MOSS MAT SAMPLE GEOCHEMISTRY

GOLD (ppb), COPPER (ppm)

EXPLANATION

- \+ rock sample
- ▫ moss mat sample
- soil sample

Contour Intervals:
>120ppb
80-119ppb
40-79ppb

Data by Orvana
November 1997
R. Fredericks
Base map adapted from 82F/6
Dwg No. C9809001A
Plot Date: 9/15/98

0 — 250 m
1:5,000

orvana RESOURCES CORP. Coeur d'Alene, Idaho USA

26,980