

July 23, 1990

TERRY -

Just a couple of quick notes to accompany the enclosed info on Port Alberni properties and the Lac Olga "longitudinal".

First - I plan to be over Thursday - let's plan on getting together to go over this and a bunch of other stuff that's floating around, including the following:

1. Port Alberni - I was impressed with Ed Skoda's friends - they're sincere people who have spent a lot of their own money on various properties. I don't know if there's a lot to get excited about but as recommended in the enclosed piece, I think Equity should pay for the soil samples - if there's nothing of note in these or the few rock samples I collected at least we can tell them to direct their efforts elsewhere.
2. Ed Skoda is helping Egil Lorntzen shop the Racing River area around - Lorntzen has the old Churchill copper mine and Davis-Keays plus several prospects in the area tied up and is proposing a mining operation with the main milling facility in Fort Nelson. What may be significant about all of this is the fact that he has the Great Central Mines hydrometallurgy smelting process locked up as well - this is something that might be of real interest to Placer Dome, considering the renewed interest in a copper smelter in B.C.
3. Wayne McChristie - Thunder Bay (807-622-5830 - Orequest office) - called today regarding the Portage Longlac. Maurice Hibbard who has the property optioned from Tom Gledhill wants to make a deal - he also has ground in Wisconsin near the new Noranda massive sulphide find. I told McChristie that we'd get back to him later in the week.

A handwritten signature in cursive script, appearing to read "Nick", with a long horizontal line underneath it.

July 23, 1990

C.P.5 and MARION MINERAL CLAIMS
Alberni Mining Division, B.C.
Latitude 49 09' North
Longitude 124 55' West
NTS 92F/2W

Summary and Conclusions

The C.P.5 and MARION claims cover a granitic intrusion hosting a number of parallel 0.2 metre wide fracture zones with quartz and near massive pyrite. A 0.75 metre wide quartz vein with disseminated pyrite and chalcopyrite is similar in appearance to known gold-bearing quartz veins in the same general area.

Limited sampling has yielded no values of interest to date. An additional 3 samples were collected by the writer for geochemical analysis for gold and 31 element ICP analysis. 52 soil samples collected by one of the property owners in the main area of interest should be analysed and it recommended that Equity defray the costs of this work.

Equity's decision regarding the future of the property, if any, should be predicated on analytical results. The potential of the property is dependent on the density of the parallel quartz-sulphide fracture zones.

Introduction

The writer, accompanied by Ed Skoda, carried out an examination of the C.P.5 and MARION claims July 21, 1990. Also present were the two property owners, Cliff O'Laney and Paul Saulnier, both of whom work for MacMillan Bloedel and are weekend prospectors with several property interests in the Alberni Inlet area.

Location and Access

The claims are west of Alberni Inlet, 10 km southwest of Port Alberni (Figure 1). Access is by MacMillan Bloedel Cous Creek and Macktush Main roads and spur logging roads to the central part of the property.

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

Property

Two Modified Grid mineral claims - C.P.5 and MARION 8 (40 units) and 7 2-post claims (Figure 2) are owned by:

Paul Saulnier
RR 2, Site 222, C-4
Port Alberni, B.C. V9Y 7L6
Telephone: 724-1309

Cliff O'Laney
3274 John Street
Site 201, C-16
Port Alberni, B.C. V9Y 7L6
Telephone: 723-5527

Note - The MARION 8 claim recently lapsed and re-staking is in progress.

Geological Setting and Mineralization

The claims appear to be underlain principally by late Triassic Karmutsen Formation basalts and andesites along the western margin of a Jurassic Island Intrusions dioritic pluton which extends southeasterly from Sproat Lake and across Alberni Inlet (Figure 3).

In the southwest part of the C.P.5 claim, near continuous gossanous exposures in road cuts extend over a north-south direction for more than 1 km and appear to be related to a granitic plug marginal or satellitic to the larger Jurassic pluton. Where seen, this granitic rock is sub-porphyrific, leucocratic and contains finely disseminated pyrite. Dimensions of this granitic body are not known.

A number of parallel fracture zones, trending 280 and dipping steeply south, contain quartz and near massive pyrite stringers. Widths of these fracture zones are 0.2-0.3 metre. A 0.75 metre wide, vuggy quartz vein with disseminated pyrite and chalcopyrite and trending 280 / 80 S resembles gold-bearing quartz veins on the Macktush property 5-6 km southeast (Figure 3) which are developed along the Island Intrusions-Karmutsen Formation contact.

Three samples were collected at two of the 1989 sample sites as follows:

<u>Sample No.</u>	<u>Site</u>	<u>Width</u>
20782	1 (CP5-3, '89)	Grabs - 0.2 m wide zone
20783	2 (CP5-5, '89)	0.75 m - quartz vein
20784	3 (" ")	1.0 m - HW of vein

52 soil samples were collected by Paul Saulnier over a 200 by 80 grid (25 metre spaced lines, 20 metre stations) west of the road cut exposing the quartz vein in the southwest part of the C.P.5 claim. These samples require analyses, preferably for gold (fire geochem) and 31 element ICP analysis.



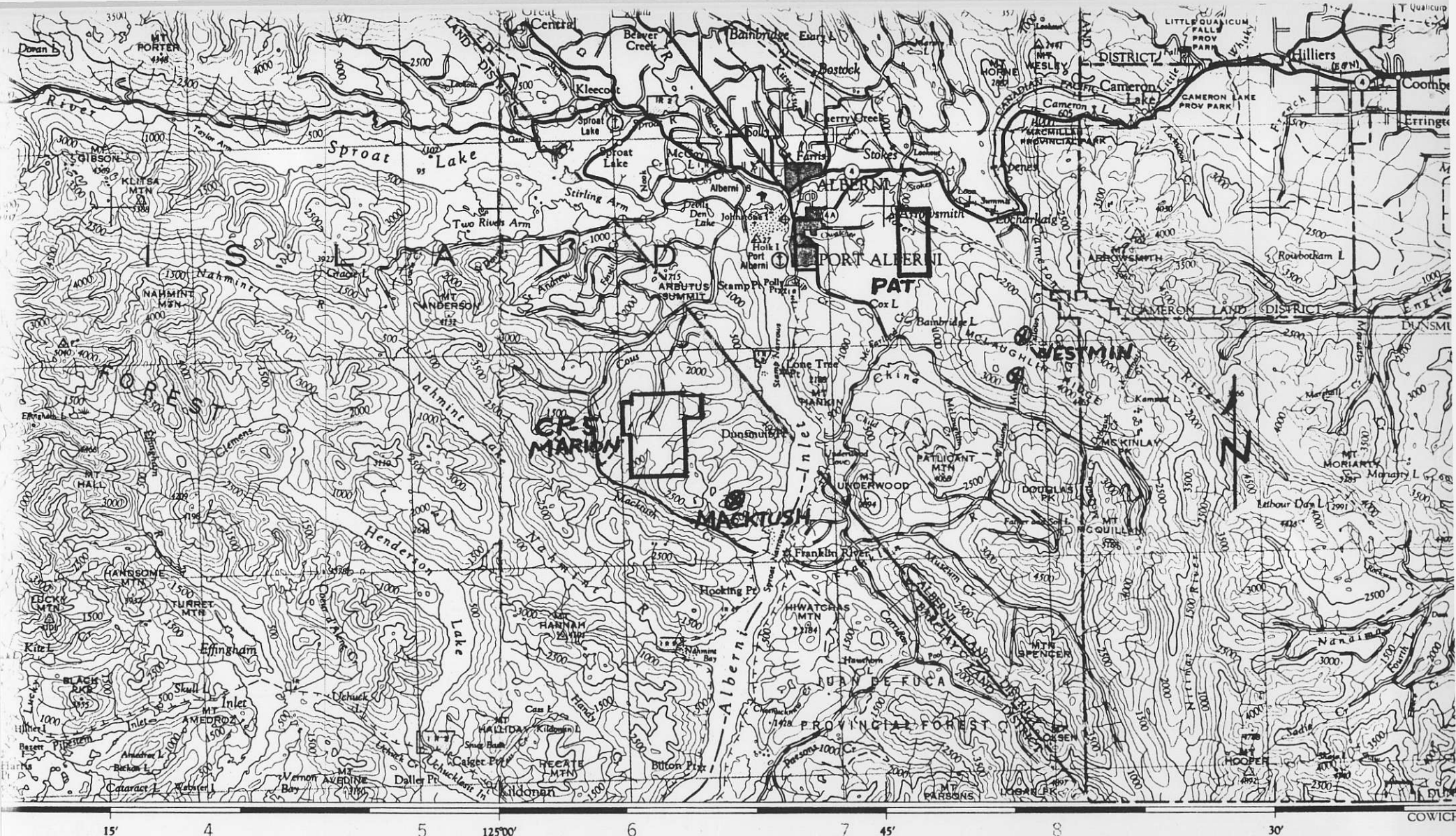
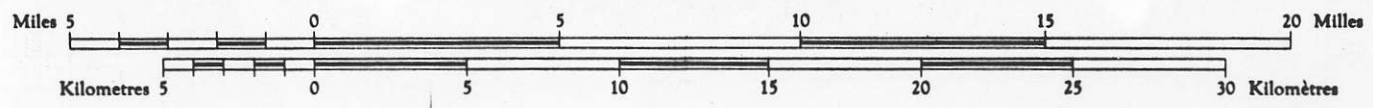


FIGURE 1

ALBERNI

BRITISH COLUMBIA

Scale 1:250,000 Échelle



Transverse Mercator Projection

Projection transverse de Mercator

Établie par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE DES TERRES ET FORÊTS (COLOMBIE-BRITANNIQUE), à partir de levés à grande échelle et de cartes provisoires de 1961-62. Reproduites par le SERVICE TOPOGRAPHIQUE DE L'ARMÉE (G.).
 La déclinaison magnétique pour 1964 varie de 24°00' Est au centre de la limite Ouest à 23°40' Est au centre de la limite Est. Variation moyenne annuelle 2.8' décroissant.

- | | | | | |
|--------------------------|-------------------------|---|------------------------|------------------------|
| Town | Ville | □ | Stream | Cours d'eau |
| Village or Settlement .. | Village ou hameau | ○ | intermittent or dry .. | intermittent or dry .. |
| Post Office | Bureau de poste | P | Intermittent lake ... | Lac intermittent ... |
| Church | Église | + | Rapids; falls | Rapides; chutes |

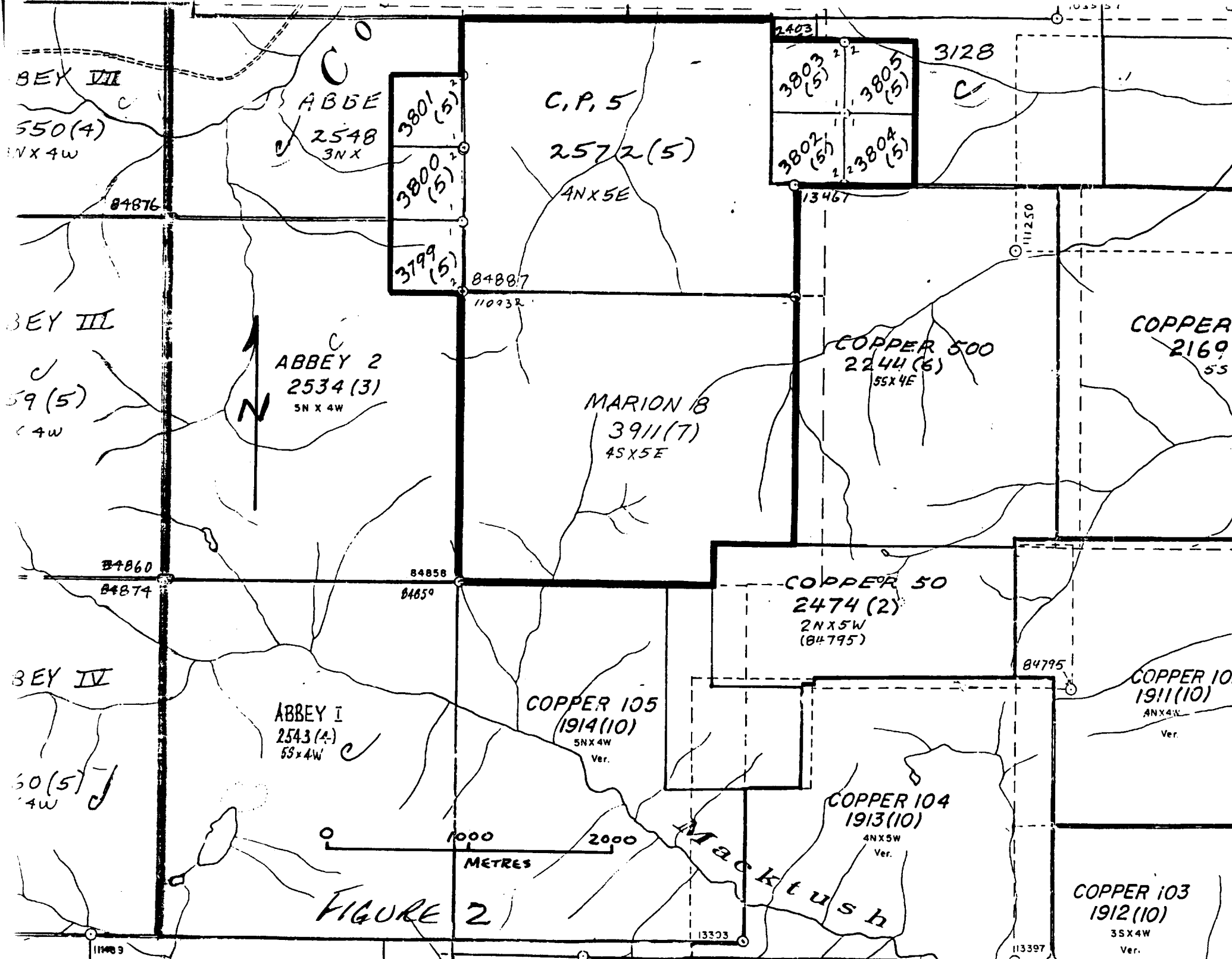


FIGURE 2

Macktush

COPPER 103
1912(10)
3S X 4W
Ver.

COPPER 102
1911(10)
4N X 4W
Ver.

COPPER 104
1913(10)
4N X 5W
Ver.

COPPER 105
1914(10)
5N X 4W
Ver.

COPPER 50
2474(2)
2N X 5W
(84795)

COPPER 500
2244(6)
5S X 4E

MARION B
3911(7)
4S X 5E

ABBEY 2
2534(3)
5N X 4W

C.P. 5
2572(5)
4N X 5E

ABBEY
2548
3N X

BEY VII
550(4)
4N X 4W

BEY III
59(5)
4W

BEY IV
60(5)
4W

3803(5)
3805(5)
3802(5)
3804(5)

3801(5)
3800(5)
3799(5)

84876

84887
110932

13467

11250

84860
84874

84858
84859

84795

1000
2000
METRES

13303

11489

11397

PORT ALBERNI

Hohm Island
Katharine Pt
Chy 58
Sawmill
Polly Point
Stamp Point
Alberni IR 2



Arbutus Summit BK 477

BK 680

JURASSIC
DIORITE

C.P.S

GRANITE
PLUG?

MARION

KARMUTSEN
BASALT

MACKTUSH
QTZ VEINS

FREE FARM LICENCE 21 BK 1

FIGURE 3

FOREST

July 23, 1990

PAT MINERAL CLAIM
Alberni Mining Division, B.C.
Latitude 49 14' North
Longitude 124 44' West
NTS 92F/2E

Summary and Conclusions

The PAT claim includes several altered zones in both Paleozoic Sicker Group volcanics and sediments and late Cretaceous sedimentary rocks. These zones, which have elevated copper, silver, antimony, arsenic and boron values, are typical of an epithermal system although no gold values of consequence have been identified to date.

An interesting aspect of this property is the presence of altered and mineralized zones in late Cretaceous Nanaimo Group sediments, a setting similar to Better Resources' Mt. Washington property. The epithermal style of mineralization however is not similar to the Westmin Debbie-Yellow prospect and consequently is not considered to be of interest to Equity at this time.

Introduction

Some rocks from a quartz breccia zone containing pyrite and chalcopyrite were examined in Port Alberni July 21. A copy of a report of a property examination carried out by Westmin in November, 1989 is appended.

Location and Access

On Rogers Creek 3-4 km east of the Port Alberni city limits. Access is by road south from the Alberni summit on highway 4 and recent logging roads to the central part of the claim.

Property

One Modified Grid claim of 18 units owned jointly by Cliff O'Laney and Paul Saulnier of Port Alberni.

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

Geological Setting and Mineralization

Late Paleozoic Sicker Group basalt tuffs, cherts and minor limestone are unconformably overlain by late Cretaceous Nanaimo Group sandstones and conglomerates in the central and northern parts of the PAT claim.

Carbonate and silica altered zones cut both Sicker and Nanaimo Group rocks and the distribution of exposures along logging roads suggests that these alteration zones are developed along northwest faults which segment Sicker Group rocks in the vicinity of the Westmin Debbie-Yellow property 6 km southeast.

Sulphide mineralization within these altered zones includes pyrite, chalcopyrite and locally, tetrahedrite. Westmin collected 30 samples from 5 localities - elevated copper, silver, antimony, arsenic and boron values were obtained but gold values were negligible, the best being 137 ppb.

Nil

Westmin Mines Ltd.
P.O. Box 206
3655 3rd Avenue
Port Alberni
V9Y 7M7

December 22, 1989

Re: Property Examination
pat Claim
Record # 3183
Port Alberni Mining Division

Owners: Cliff O, Laney
Site 201 - C16
3274 John St.
Port Alberni, B.C.
V9Y 7L6

Paul Saulnier
Site 222 - C4
Port Alberni, B.C.
V9Y 7L6

An examination of the Pat claim was conducted by R. Walker, O. Bundred and G. Crowe of Westmin Mines Ltd. on the morning of November 1, 1989. New logging road access had reportedly exposed several copper showings.

Several outcroppings were examined and samples were collected from five areas of interest (see accompanying Figures and sample descriptions). In all, a total of 30 samples were taken from mineralized and/or altered outcrops.

Orange weathering carbonate alteration zones appear to be controlled by a northwest trending structure. In this area, basaltic tuffs, chert and minor limestone of the Sicker Group is interpreted to unconformably underlie Nanaimo Fm. sediments. The carbonate altered structure cuts this contact at a high angle.

Alteration consists of ankerite, silica, calcite +/- sericite. Several extensively weathered outcroppings contain a significant amount of clay. Disseminated pyrite and minor chalcopyrite are present locally.

Outcrops 1 and 2 (see accompanying map) cut ankerite altered Sicker tuffs, cherts and limestone. Disseminations and patches of pyrite and minor amounts of an unidentified silver grey sulphide were noted. Samples containing malachite returned up to 1254 ppm Cu with 30 ppb Au.

Outcrops 3 and 4 cut ankerite altered Nanaimo conglomerates and sandstones. Coarse vuggy quartz and/or sparry calcite veining is abundant. Patches and seams of an unidentified amorphous looking silver grey sulphide (possibly tetrahedrite) are locally associated with either the quartz or calcite veining. These samples returned up to 5380 ppm Cu, 45.8 ppm Ag, 570 ppm As and 2029 ppm Sb. No significant gold values were detected.

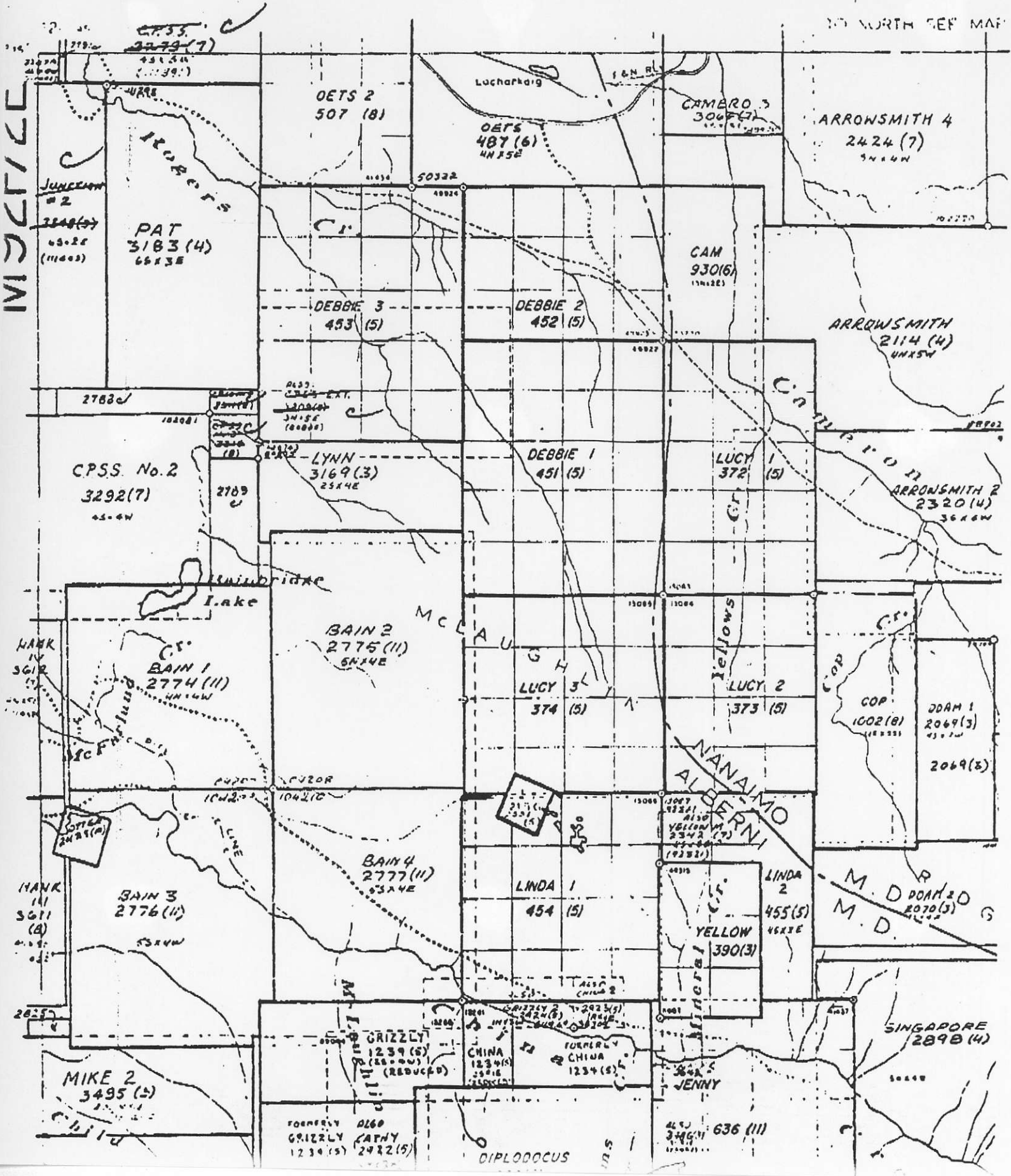
Outcrop 5 occurs several hundred metres to the south of outcrops 1 to 4. Here Sicker volcanics are cut by granitic intrusives. Quartz veining with abundant chlorite and/or epidote are hosted by ankeritized and/or clay altered intrusive and volcanics. Disseminations and patches of pyrite and minor chalcopyrite and malachite are present locally. Up to 6432 ppm Cu, 2.8 ppm Ag, 303 ppm Sb, 7526 ppm B have been returned from samples collected in this area. No significant quantities of gold were detected.

The elevated Cu, Ag, Sb, and B values suggest these ankeritized structures may be of interest with respect to gold exploration. These elements are known to be associated with epithermal gold systems. The low gold values in the samples collected however, suggest this property would not be of interest to Westmin at this time. Should further development of the property yield a more favourable gold environment, Westmin should consider picking up the property at that time.

Gregory G. Crowe, M.Sc., P.Geol.

NO NORTH REF MAP

INDICATE



67

68

69

70

71

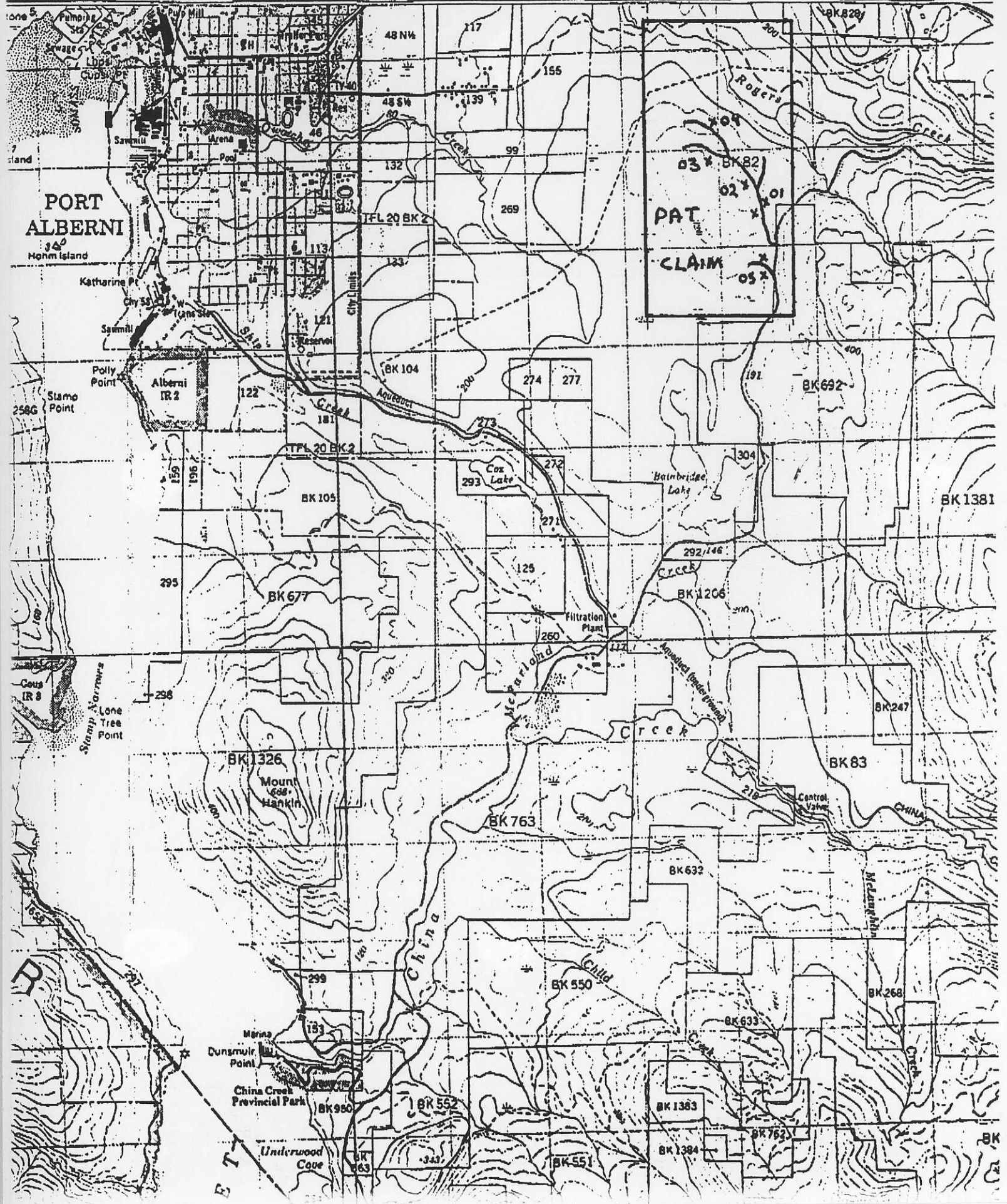
72

45' 73

74

75

76



- 74 - 130
25-F(HC)-74

39-14-11-1
1925+30-D

36-10-10
1945(50)

40-101-
1925-D

24

24
⊕23

- 21 - 150
20-F-102

130
F(A)-63

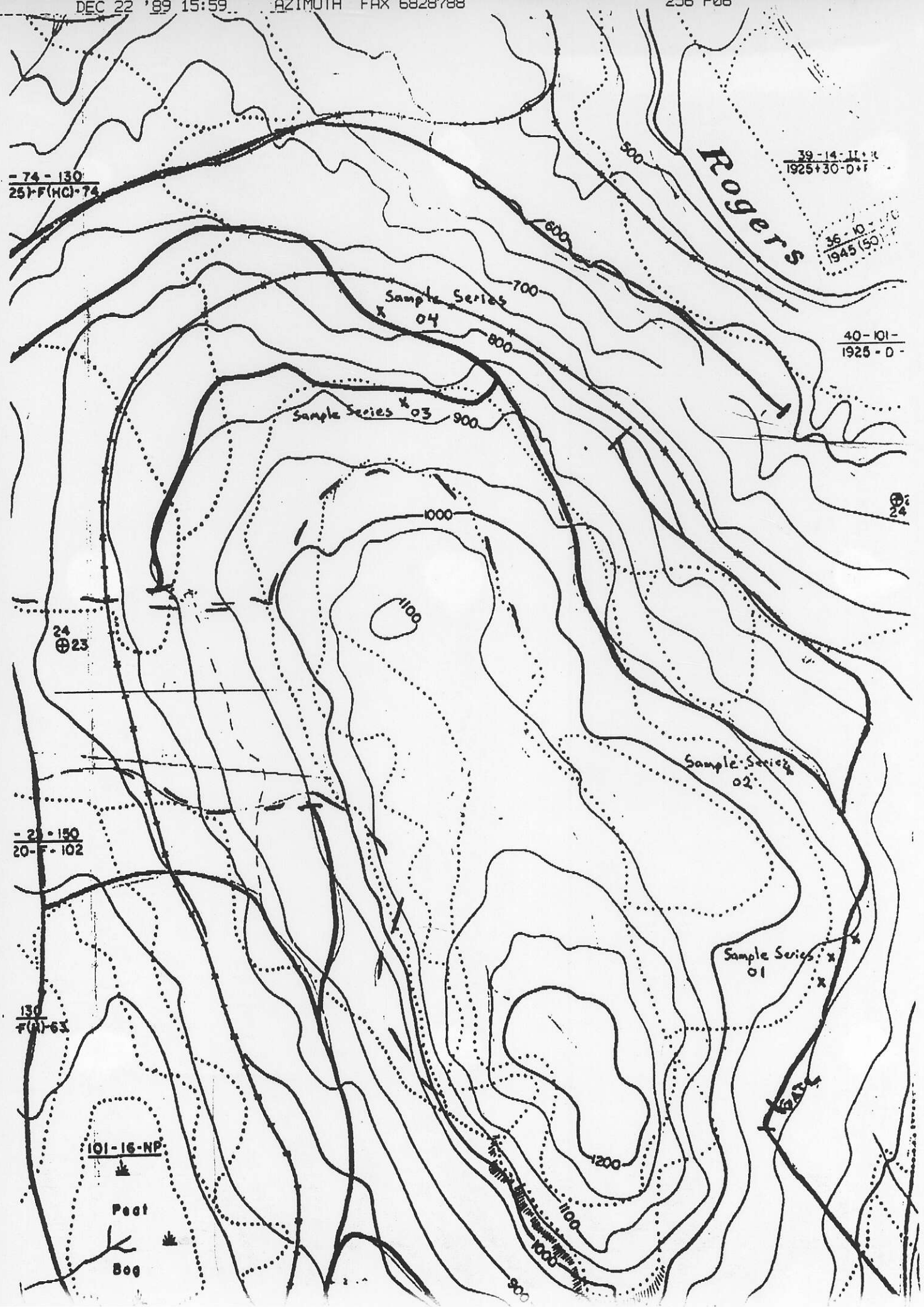
101-16-NP



Pool



Bog



SAMPLE NO	MEDIE GRID R	LOCATION E	SAMPLE TYPE	ROCK DESCRIPTION	AU	AS	AG	CU	PB	ZN
PAT01-001			grab	- road rubble - rust weathering, black siliceous rock, sugary texture, possibly hornfelsed chert or siliceous siltstone, cut by quartz +/- calcite veining to 3-4mm, trace to minor chalcocopyrite						
PAT01-002			grab	- road rubble - rust weathering, light grey silicified chert/argillite - tuff, medium to fine grained pyrite as fracture coatings and as thin seams parallel to crude banding, pyrite to 2-3%						
PAT01-003			grab	- road rubble - rust weathering, quartz veining cutting silicified chert/argillite, patches of fine grained to medium grained pyrite to 2%						
PAT01a-001			grab	- outcrop - orange weathering - highly ankerite +/- clay altered gouge/shear						
PAT01a-002				as PAT01a-001						
PAT01b-001			grab	- outcrop - orange weathering, ankeritized breccia with angular fragments of chert of silicified rock in a finer ankeritized groundmass, cut by quartz +/- sericite veins, trace fine grained disseminated pyrite						
PAT01b-002			grab	- outcrop - rust weathering, light grey silicified chert/argillite, similar to PAT01-002, trace pyrite as seams						
PAT01b-003			grab	- outcrop - rust/orange weathering, ankeritized, cut by quartz veinlets						
PAT01c-001			grab	- road rubble, rust weathering, dark grey chert cut by pyrite coated fractures, pyrite to 1-3%						
PAT01c-002			grab	- road rubble, rust-whitish weathering, chert? cut by quartz +/- calcite veins, malachite, on staining, black patches associated with an unidentified silver grey mineral (chalcocite?)						
PAT01c-003			grab	- road rubble, rust weathering, quartz +/- calcite veining cutting chert?, seams with malachite, black patches associated with unidentified silver-grey sulphide						
PAT02-001			grab	- outcrop, orange/rust weathering, ankeritized zone cutting chert						
PAT03-001			grab	- road rubble, vuggy, coarse crystalline quartz veining with limonitic patches						
PAT03-002			grab	- road rubble, - ankeritized breccia with limonitic fractures						
PAT03-003			grab	- road rubble, - similar to PAT03-002, with a greyish matrix						
PAT03-004			grab	- outcrop, ankeritized shear/gouge with white quartz veining						
PAT03-005			grab	- road rubble - ankeritized breccia or Nanaimo conglomerate, cut by quartz +/- calcite veining, patches + seams of an unidentified silver/grey sulphide (chalcocite or tetrahedrite?)						
PAT03-006			grab	- road rubble - ankeritized breccia or Nanaimo conglomerate, cut by vuggy quartz veins						
PAT04-001			grab	- road rubble - ankeritized Nanaimo conglomerate cut by coarse crystalline, vuggy quartz vein, limonite patches, seams + patches of azurite/malachite with an unknown silver/grey sulphide						
PAT04-002			grab	- road rubble - same as PAT04-001, note some crystalline calcite veins, black patches similar to those found in PAT01c-001						
PAT04-003			grab	- road rubble - drusy quartz vein with limonitic patches + vugs filled with medium to coarse crystalline quartz, local sugary texture						
PAT04-004			grab	- road rubble - drusy quartz veining with limonitic patches, malachite, azurite and an unidentified silver/grey metallic						
PAT05-001			grab	- road rubble - chloritized + epidotized volcanic but by milky white quartz veining, patches + disseminations of pyrite at 1%, trace chalcocopyrite?						
PAT05-002			grab	- road rubble - ankeritized rock, limonite along fractures, minor malachite						

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: NOV 14 1989 DATE REPORT MAILED: Nov 16/89 SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Westmin Resources Ltd. PROJECT DEBBIE 6209 File # 89-4728

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	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	Au* PPM
PAT-01-001	1	263	2	107	1.0	44	25	295	3.74	2	5	ND	1	18	1	2	2	125	.27	.049	3	163	2.03	147	.09	12	2.33	.03	.24	1	5
PAT-01-002	1	32	7	82	1.1	30	5	965	1.96	5	5	ND	2	58	1	2	2	22	7.95	.228	8	11	.66	120	.03	9	.73	.03	.06	1	13
PAT-01-003	1	75	4	32	.1	16	6	161	1.56	2	5	ND	1	3	1	2	2	34	.06	.022	4	56	.84	12	.01	2	.72	.02	.02	1	1
PAT-01A-001	1	44	6	58	.1	29	22	686	4.83	49	5	ND	2	9	1	19	2	60	.19	.033	8	37	.09	49	.01	12	.64	.01	.12	1	1
PAT-01A-002	1	65	7	83	.1	21	13	530	3.53	30	5	ND	2	18	1	15	2	42	.79	.196	18	13	.16	365	.01	12	1.24	.01	.31	1	8
PAT-01B-001	1	26	8	90	.6	13	4	867	1.70	14	5	ND	2	121	1	2	2	38	4.00	.096	22	8	2.12	250	.01	13	.55	.01	.10	1	5
PAT-01B-002	1	26	3	45	.6	20	4	729	1.57	3	5	ND	1	64	1	2	2	21	6.13	.030	4	27	.76	126	.05	2	1.29	.05	.10	1	1
PAT-01B-003	1	51	20	125	.1	21	6	894	2.44	21	5	ND	1	32	1	15	2	36	.79	.081	10	10	.34	117	.01	16	.41	.01	.15	1	5
PAT-01C-001	2	9	10	23	.2	28	9	128	1.81	3	5	ND	1	1	1	2	2	19	.08	.014	4	50	.54	35	.01	2	.61	.01	.09	1	28
PAT-01C-002	2	698	3	25	.6	13	6	189	.79	4	5	ND	1	2	1	2	2	9	.49	.011	4	9	.25	18	.01	2	.34	.01	.05	1	30
PAT-01C-003	1	1254	5	53	4.5	17	5	196	1.41	8	5	ND	2	1	1	2	2	20	.07	.021	11	40	.65	31	.01	2	.74	.01	.08	1	137
PAT-02-001	1	62	2	69	.2	29	22	715	4.91	11	5	ND	2	80	1	10	2	55	3.95	.055	8	30	1.01	846	.01	15	.59	.01	.21	1	39
PAT-03-001	2	24	2	57	.1	33	12	763	3.56	31	5	ND	1	3	1	21	2	78	.12	.007	2	19	.05	56	.01	4	.13	.01	.01	1	11
PAT-03-002	1	16	2	88	.4	65	31	1139	8.14	35	5	ND	2	88	2	10	2	184	4.54	.026	4	51	2.01	47	.01	11	.35	.01	.11	1	1
PAT-03-003	1	31	2	62	.1	51	21	703	5.31	20	5	ND	1	61	1	10	2	124	2.95	.016	2	40	1.58	19	.01	6	.29	.01	.10	1	8
PAT-03-004	1	225	4	71	2.5	24	15	265	2.09	104	5	ND	1	4	1	122	2	26	.07	.006	2	65	.03	52	.01	6	.20	.01	.05	2	2
PAT-03-005	6	1468	4	286	.9	81	30	1071	6.67	273	5	ND	1	92	2	640	2	155	5.68	.041	5	48	2.47	25	.01	6	.34	.01	.04	1	11
PAT-03-006	1	742	2	101	.6	57	26	908	6.18	198	5	ND	1	91	2	231	2	160	4.95	.034	4	51	2.40	64	.01	6	.41	.01	.04	1	11
PAT-04-001	4	1104	2	237	9.8	37	20	232	2.84	214	5	ND	1	12	2	508	2	40	.19	.007	2	23	.03	646	.01	3	.21	.01	.03	1	2
PAT-04-002	2	3636	2	579	23.0	22	15	343	2.23	362	5	ND	1	15	5	1433	2	39	1.05	.007	2	36	.07	427	.01	2	.17	.01	.01	1	2
PAT-04-003	9	25	3	38	.3	23	13	508	3.12	35	5	ND	1	9	1	14	2	43	.48	.012	2	20	.07	34	.01	2	.23	.01	.02	1	2
PAT-04-004	1	5380	2	629	45.8	16	12	184	1.57	570	5	ND	1	11	6	2029	2	27	.14	.006	2	41	.02	436	.01	2	.20	.01	.02	1	8
PAT-05-001	1	193	3	55	.8	30	15	344	3.56	64	5	ND	2	70	1	15	2	62	5.14	.035	4	38	1.28	17	.12	7373	1.92	.02	.01	1	6
PAT-05-002	1	932	3	102	.5	5	5	165	1.16	136	5	ND	9	15	1	213	2	3	1.22	.007	31	29	.22	145	.01	83	.33	.01	.10	1	4
PAT-05-003	1	2256	2	57	.6	21	15	129	1.21	45	5	ND	1	110	2	2	2	31	7.89	.022	2	15	.24	23	.10	7204	2.09	.01	.01	1	5
PAT-05-004	1	6432	2	259	2.8	35	24	303	2.88	64	5	ND	1	42	5	2	2	64	9.21	.031	2	47	.84	89	.11	7526	3.16	.01	.01	3	22
PAT-05-005	1	448	2	53	.1	6	6	185	1.09	69	5	ND	8	26	1	88	2	4	2.11	.006	22	23	.45	66	.01	93	.26	.02	.08	1	4
PAT-05-006	1	1198	2	155	.8	4	8	95	.60	190	5	ND	8	18	1	303	2	1	1.05	.005	28	4	.30	50	.01	39	.28	.01	.11	1	2
PAT-05-007	1	597	3	15	.1	2	6	383	1.44	21	5	ND	16	13	1	13	2	8	.34	.010	47	4	.12	82	.01	23	.89	.01	.15	1	5
PAT-05-008	1	12	5	63	.1	60	32	1105	7.22	503	5	ND	1	113	1	10	2	94	5.98	.049	2	36	2.36	77	.01	19	.40	.01	.11	1	1
STD C/AU-R	17	58	39	132	6.5	67	29	1012	3.89	40	22	7	36	44	18	16	23	57	.46	.096	35	55	.88	174	.06	34	1.84	.06	.14	12	515

✓ ASSAY RECOMMENDED