

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.

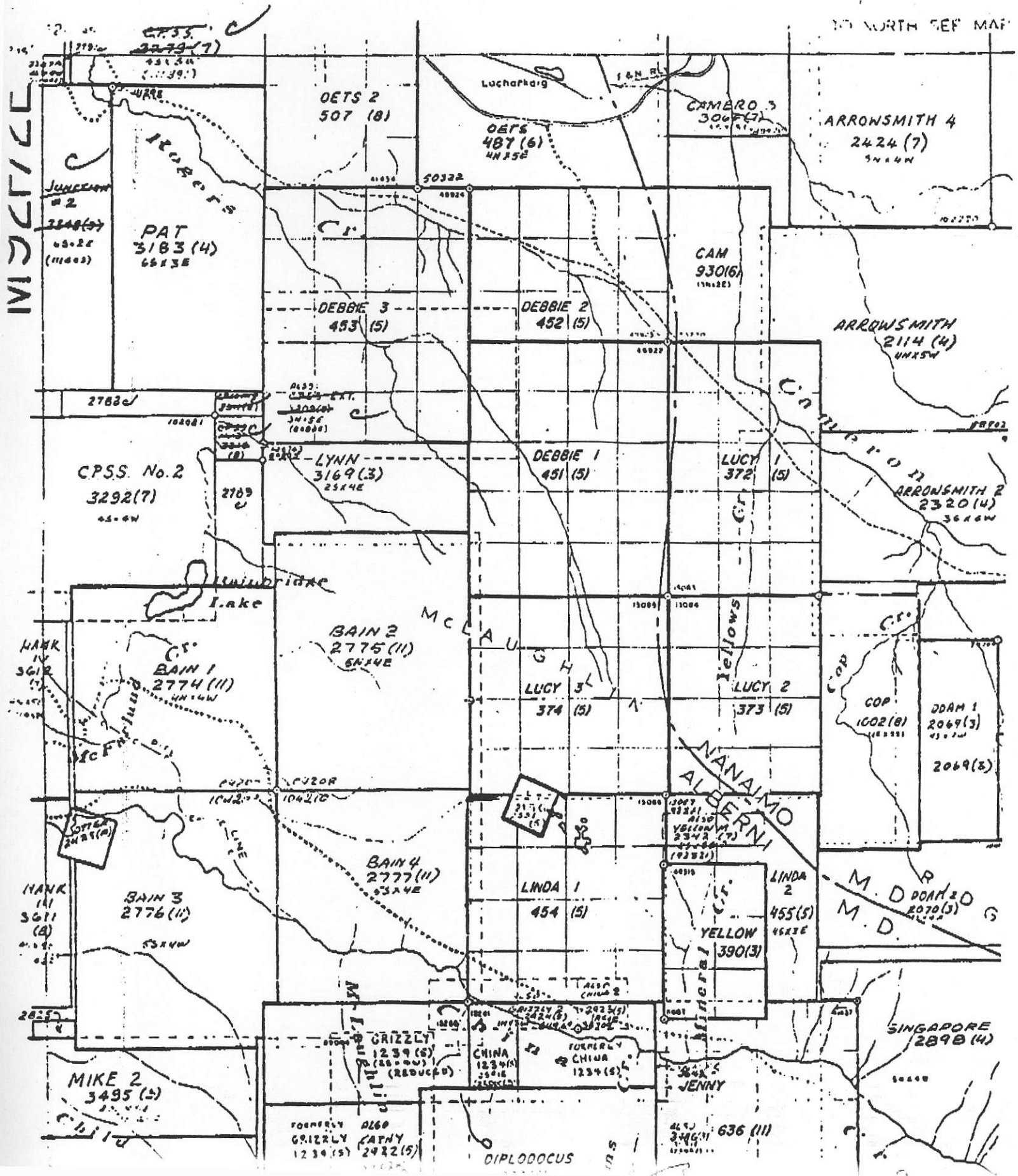
Outcrops 3 and 4 cut ankerite altered Nanaimo conglomerates and sandstones. Coarse vuggy quartz and/or sparry calcite veining is abundant. Patches and seams of an unidentified amorphous looking silver grey sulphide (possibly tetrahedrite) are locally associated with either the quartz or calcite veining. 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.

TO NORTH REF MAP



67

68

69

70

71

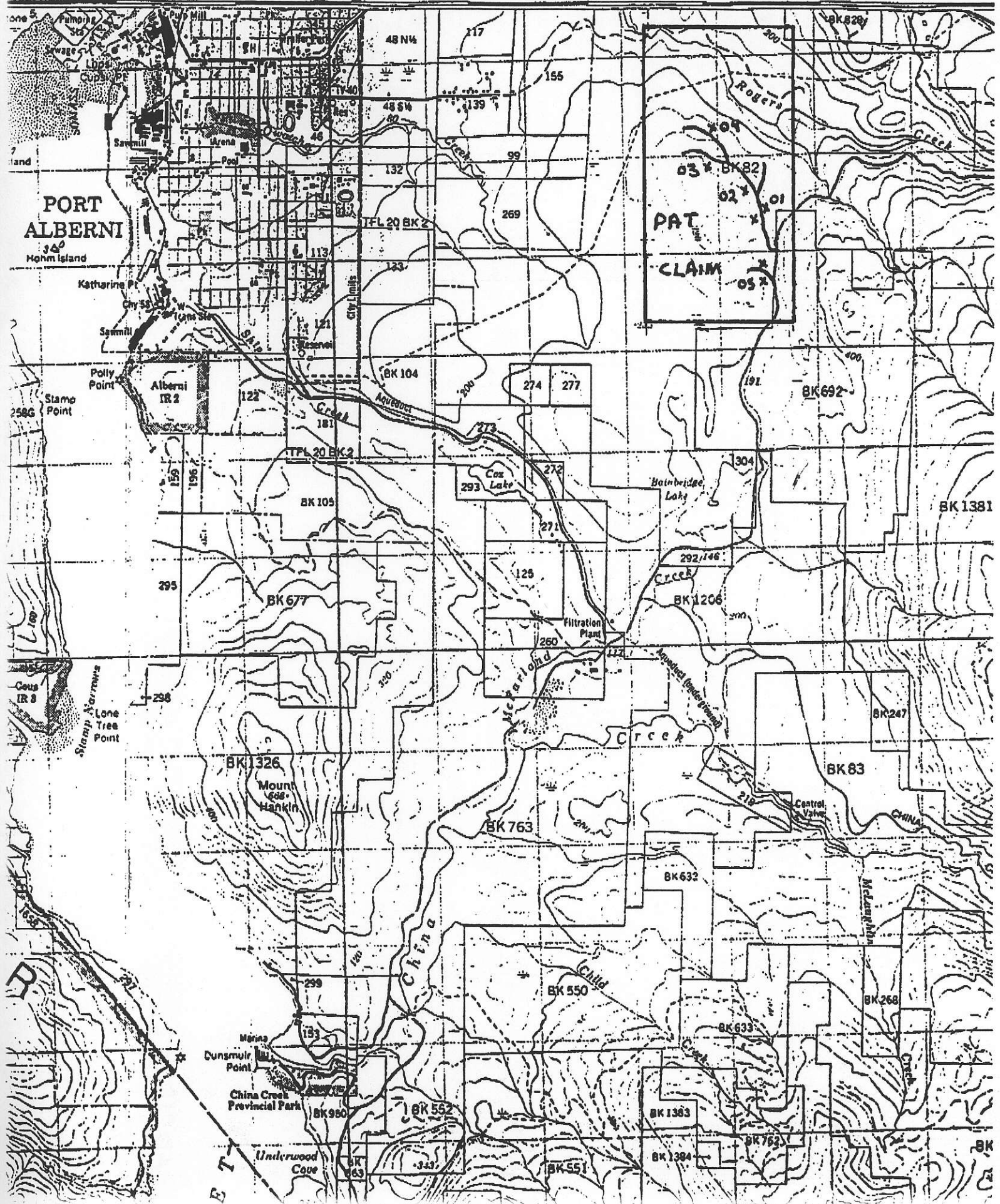
72

45' 73

74

75

76



- 74 - 130
257-F(HC)-74

39-14-11-R
1925+30-D-F

35-10-170
1945(50)

40-101-
1925-D-

24

24
⊕ 23

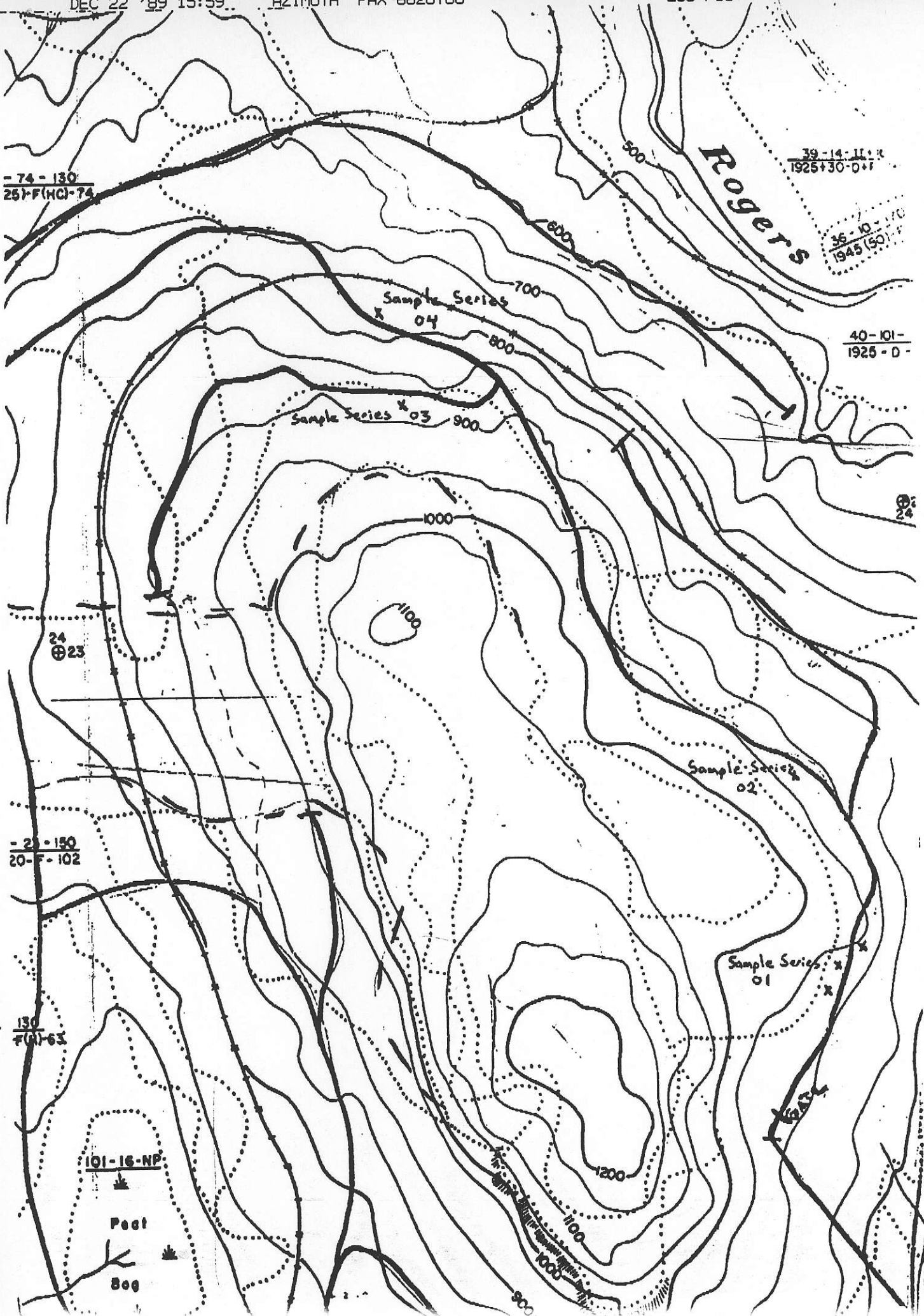
- 25 - 150
20-F-102

130
F(U)-63

101-16-NP

Peat

Boq



SAMPLE NO	DEBIE 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 or 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 NCL-MND3-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, 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	1.1	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	1.1	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	1.1	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	1.1	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	1.1	33	12	763	3.56	31	5	ND	1	3	1	21	2	78	1.12	.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	1.1	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