RESULTS OF STREAM SEDIMENT
SAMPLING PROGRAMME
AT BOYES BASIN
EL 23/85

OPEN

87-269

CALLINA N.L.
MINING & EXPLORATION

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13th April, 1987.

RESULTS OF STREAM SEDIMENT SAMPLING

PROGRAMME AT BOYES BASIN

E.L. 23/85

(Pokana and Wings 1:25000 sheets)

A preliminary stream sediment sampling was conducted by Mr. R. Poltock and Associates. Sampling sites are shown on accompanying map. A number of old prospecting pits were sited one of which was over two metres deep. Fine to very fine grained osmiridium was observed in panned concentrates which also contained abundant chromite.

Analytical Results

No attempt was made to separate chromite from the residual of light minerals in panned concentrates. No magnetic separation of chromite was attempted. It has been found in subsequent analysis made at the Wilson River and Chromite Creek that without this procedure analytical results for platinum group metal are of limited value. The results obtained in this survey compare with similar panned concentrates taken from the Wilson River and Chromite Creek areas.

Recommendations

A more detailed survey is required in which bulk samples sufficient to provide analytical quantities of chromite and precious metals are generated. It is recommended that stream sediment samples be taken at intervals of 300 metres and that such sampling extend upslope onto the ultramafics from where Poltock's pits are sited. It may be necessary to pre-concentrate chromite in the field to provide sufficient quantity (200 g) for analytical purposes.

This approval demonstrates [illegible] justifies [illegible] of the program.

Leo Killigrew

L. P. KILLIGREW

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Bonpes Basin ; Samples collected by Poltock.

Bulk pan cons : no mag. separation. Dilution factor 60:40. Visible chromite

Compares with Wilson River / Chromite Creek without mag. separation

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COMMENTS : ATTENTION: MR. M. CREASY..
COMMENTS : ST-SED

SAMPLE INFORMATION

ELEMENTS		Au	As	Ag	Sb	Bi	Cu	Pb	Zn	Ni	Cr	Co	Pt	Pd	Rh	Ir	Ru
UNITS		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppb	ppb	ppb	ppb
DETECTION		0.01	5	0.1	1	1	1	1	1	1	1	1	0.1	0.1	0.1	0.1	0.1
METHOD		B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B/AAS	B2/AAS	B2/AAS	B2/AAS	B2/AAS	B2/AAS
SAMPLE NUMBERS																	
1	101	0.02	1	1	1	1	70	15	75	100	310	44	4.2	7.9	0.6	5.2	7.7
2	103	0.02	1	1	1	1	74	10	94	105	310	44	1.8	4.5	0.6	0.8	3.4
3	110	0.08	120	1	5	1	60	25	72	270	390	60	6.8	4.6	1.0	1.2	2.8
4	119	0.03	50	1	4	1	90	33	78	120	145	60	9.0	4.0	1.4	0.4	9.0
5	123	0.02	1	0.1	1	1	46	9	42	94	84	24	1.4	2.3	0.2	1	0.6
6	124	0.01	5	1	1	1	58	19	40	102	100	54	3.9	1.1	0.3	0.5	4.0
7	132	1	1	1	1	2	58	30	77	94	100	47	7.3	2.3	0.6	0.5	4.0
8	135	0.01	50	1	4	1	60	10	110	70	115	42	3.9	3.9	0.5	1	17.0
	DUP 101	0.02	1	1	1	1	66	16	80	170	300	44	4.0	5.0	0.70	5.0	7.9
9	STD 1:55:94	0.17	185	4.6	11	2000	560	295	350	32	300	76					
	STD 2:103												520.0	720.0	32.0	30.0	56.0

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1. BOYES BASIN

View looking north from the end of Clear Hill road. Menkar and South Star on left Stepped Hills on right.

2. BOYES BASIN

Flooded end of Clear Hill Road.

N.B. This all weather road emerges on the northern side of lake in vicinity of Boyes River.

3. BOYES BASIN

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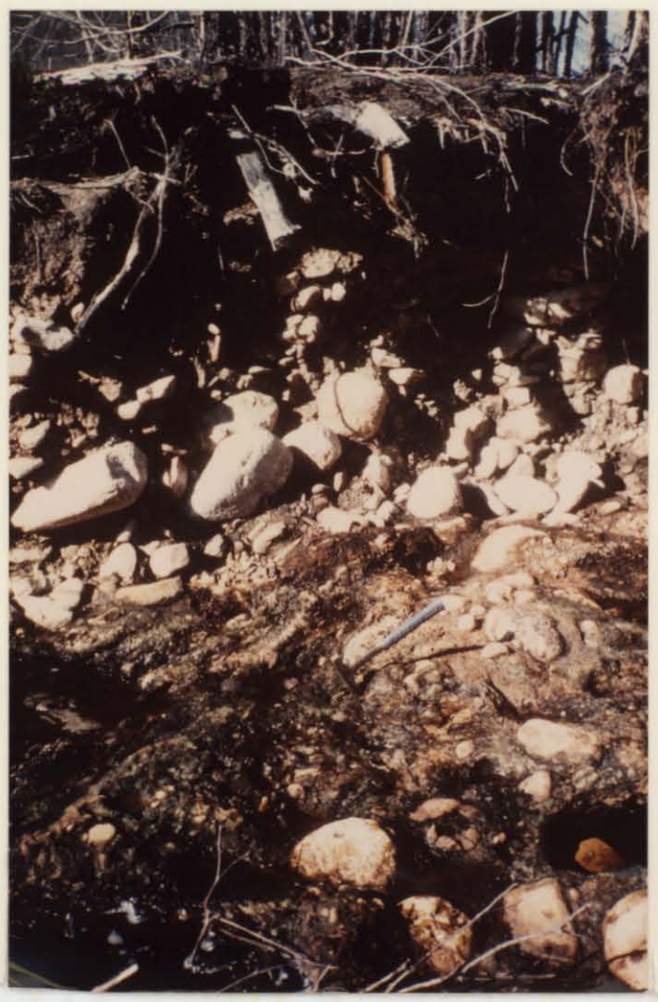
Quartzose gravels near lake edge, the gravels are + 20m thick in some locations.

4. BOYES BASIN

Sample site 5 in Boyes River.
Basal gravels (pick) in part derived from the serpentinite.
At this location outcrop of serpentinite is < 0.2m below pick.

Overlying quartz conglomerate/quartzite gravels typical of Boyes Basin.



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5. BOYES BASIN

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Western slopes of Stepped Hills.
N.B. gentle slope in centre right, this the alluvial fan of quartz conglomerate/quartzite derived gravels which obscure the serpentinite outcrop in this area.

C05

EL 23/85 CLEAR HILL

PAN CONCENTRATE SAMPLES.

SCALE 1:15840

5 cm

Abundant coarse (1mm) Chromite in pan conc.

GRAVELS } Boyes River
MAXIMUM } ALLUVIAL POTENTIAL

2 Grains OS

OLD PROSPECT PIT
± 2m deep

1 Grain OS

PIT

PIT

EL 23/85

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