

83-#343-11425

A GEOCHEMICAL REPORT

on the

49 CR. GROUP

APPROX. 9 KM SW OF NELSON, B.C.

49 CREEK AREA

NELSON MINING DIVISION

BRITISH COLUMBIA

MINERAL CLAIM MAP N.T.S. 82-F/6 WEST

LATITUDE: 49° 27' N
LONGITUDE: 117° 25' W

for

McMAHON RESOURCES LTD.

by

JACOB BUTULA

PROSPECTOR

FIELD WORK: August 26, 1982 to May 30, 1983

REPORT: August 8, 1983

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,425

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I. INTRODUCTION

The 49 Creek Group of Claims were acquired by McMahon Resources Ltd. for the purpose of locating the source of a 40 lb. boulder of gold ore brought out of the 49 creek watershed by Jim McMahon in 1970.

Samples of this ore ran 20 oz. to the ton.

Due to heavy overburden and scarcity of outcrops, it was decided that a geochemical survey would be most beneficial.

2. PROPERTY AND OWNERSHIP

The 30 claim (49 CR. Group) are owned by McMahon Resources Ltd. 1423 Columbia Avenue, Trail, B.C.

The 49 CR. Group consist of:

JA #1 to 8	Record No. 2536 to 2543
PB #1 to 8	Record No. 2770 to 2777
PB #9 to 12	Record No. 2766 to 2769
PB #5 to 6	Record No. 3159 to 3160
JD #1 to 8	Record No. 2949 to 2956

3. LOCATION AND ACCESS

The 49 CR. Group of Claims are located along 49 Creek, with 24 claims on the SW side and 6 claims on the NE side.

Access to the NE Border of the claims group is 3.5 KM via the 49 Creek road from the Nelson Blewett Highway.

Access to the Geochemical Survey Area is 3.5 KM up the 49 Creek road, then approximately 420 meters (SW) downhill and across 49 creek.

4. PHYSIOGRAPHY

The 49 creek group straddles 49 creek with a portion of the claims on the SW side for a width of approx. 900 by 5484 meters long starting at an elevation of 760 meters.

The other portion of the claims lie on the NE side for a width of approx. 900 meters by 2700 long starting at an elevation of 800 meters.

Outcrops in the area are limited to steep ridges along some of the draws and creeks up the slope from 49 creek.

Timber covers most of the area with parts of the area, mainly the lower elevations covered with heavy underbrush.

5. GEOCHEMICAL SURVEY OF SOILS

5.1 Survey Method

On Mineral claims JA #7 from a point 575 meters SE of a small creek flowing NE into 49 creek a line was run on the SW side of 49 creek following the contour line approx. 15 meters up the slope from the creek and for a distance of 1475 meters SE.

From the same point a line was run downstream following the contour line approx. 15 meters up the slope from the creek for a distance of 1400 meters NW.

A second line was run following the contour line approx. 50 meters above the 1st line for a distance of 1375 meters NW.

The lines were marked with flagging and stations where samples were taken were marked with flagging. Soil samples were taken at 25 meter intervals.

5.2 Sampling Method

The soil samples were taken from the dark to black humus and root level of the A Horizon just above the light brown B Horizon.

Soil samples were put into Brown manilla envelopes and marked with the station number.

Samples were dried prior to shipping to the Kamloops Research and Assay Laboratory. A few silt samples were taken in creek and draw bottoms.

5.3 Assay Method

Assays were run for AU by the Kamloops Research and Assay Laboratory (assay report G788).

Geochemical Analysis Procedure

Sample Preparation:

A. Silts and Sediments

Dry sample thoroughly and sieve through an 80 mesh stainless steel sieve. The oversize portion is discarded (unless we have been requested to save it) and the analyses are performed on the 80 mesh portion.

B. Vegetation

29.17 grams of material are weighed and placed in 20 gm assay crucibles which are then placed in a relatively cool assay furnace and the temperature is raised gradually. The samples are left in the furnace until the organics are completely burned off. The residue is then assayed.

Fire Assay Re-agents

1. Litharge	:	C.P.
2. Sodium Carbonate	:	C.P.
3. Borax Glass	:	C.P.
4. Potassium Nitrate	:	C.P.
5. Flour	:	
6. Herman Inquarts	:	C.P.
7. SiO ₂	:	C.P.

Atomic Absorption Re-agents

For Ag, Cu, Pb, An, Co, Cd, Ni, Mn, Fe, Cr, Mo

Nitric Acid	:	C.P. 70%
Hydrochloric Acid	:	C.P. 37%
Aluminum Chloride	:	C.P. + 99%

Fire Assay-A.A. Method for Gold

Weigh 29.17 gms of sample. Fuse with re-agents as above in proportions necessary to obtain a good melt with clean pour and slag easily separated from lead button. (For silicates use flour; for sulphides use potassium nitrate.) Cupel lead bead and place in test tube. Dissolve bead in nitric acid

then hydrochloric (3 times the amount of nitric). Bulk to 10 mls and read on atomic absorption spectrophotometer.

5.4 RESULTS AND INTERPRETATION

On line 1 going upstream between L-1 ST. 1 to ST. 59 there were 3 isolated anomalous readings of the Humus sample. There was a high of 55 PPM in the silt sample at L-1 ST. 24.

On line 1 ST. 1 N to 56 N going downstream only 3 blank readings were recorded between L-1 ST. 44 N and L-1 ST. 52 N. The silt sample at L-1 ST. 23 N (creek sediment) had a high of 70 PPB.

On line 2 the consistency of its readings between ST. 26 N (1st branch of 49 CR.) downstream to ST. 55 N indicate that the grid should be extended further downstream and uphill of these anomalous readings. The high silt 370 P.P.B. reading on the small creek at ST. 50 N indicates further sampling upstream on this branch.

6. CONCLUSIONS AND RECOMMENDATIONS

The author feels that the limited re-connaissance work done to date should be further extended upstream to cover the full length of the claims.

On the results obtained to date, a grid should be laid out bordering and above the anomalous readings on line 2 ST. 26 N to ST. 55 N, to try to outline the source of gold concentration in these samples.

ANNEXE I

1. FIELD WORKPersonnel

J. Butula	August 26, 1983 - October 15, 1983 6 days at \$120/day	\$ 720.00
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B. McMahon	2 days at \$100/day	200.00
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FOOD EXPENSE

	8 days at \$15/man day	120.00
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Truck Rental

	6 days X \$35/day	210.00
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Geochemistry:

Kamloops Research and Assay Laboratory Ltd.		977.50
Invoice No. 83-0275		
File No. G 788	June 16, 1983	

2. OFFICE WORKPersonnel

J. Butula	2 days at \$100/day	<u>200.00</u>
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2427.50

ANNEXE II

STATEMENT OF QUALIFICATIONS

I, Jacob Butula do hereby certify that I

1. Have prospected and held a valid Free Miners certificate since 1958.
2. Have attended prospectors courses in 1958, 1970, and 1983.
3. Have laid out a grid for a magnetometer survey and soil sampled the grid for Bright Stars Trio Mining Co. of Vernon, B.C. on Kingfisher Creek to the west of Mabel lake in 1969, in the Vernon Mining Division.
4. Have conducted a Geochemical Survey under the auspices of Peter Legart (Geologist with Serem) on the oxide M.C. Group NTS 82-F/6 East in the Nelson Mining Division in 1967.
5. Have consulted Government Geologist George Addy (Nelson Mining Division) on Geochemical Survey Data.

Respectfully submitted

Jacob Butula

KAMLOOPS
RESEARCH & ASSAY
LABORATORY LTD.

ANNEXE III

B.C. CERTIFIED ASSAYERS

ANNEXE III

912 LAVAL CRESCENT - KAMLOOPS, B.C.
V2C 5P5
PHONE (604) 372-2784 - TELEX 048-8320

GEOCHEMICAL LAB REPORT

Mr. J. Butula
1423 Columbia Ave.,
Trail, B.C.
V1R 1J8

DATE June 16, 1983

ANALYST LW

FILE NO G 788

FILE NO

KRAL NO	IDENTIFICATION	ppb Au	KRAL #	Identification	ppb Au
1	L 1 ST 1	L5	31	L1 STA 32	L5
2	ST 2	L5	32	STA 33	L5
3	STA 3	L5	33	ST 34	L5
4	STA 4	L5	34	ST 35	L5
5	STA 5	L5	35	ST 36	L5
6	STA 6	L5	36	ST 37	L5
7	STA 8	L5	37	ST 38	L5
8	STA 9	L5	38	ST 39	L5
9	STA 10	L5	39	ST 40	L5
10	STA 11	L5	40	ST 41	L5
11	STA 12	L5	41	ST 42	25
12	STA 13	L5	42	ST 43	L5
13	STA 14	L5	43	ST 44	L5
14	STA 15	L5	44	ST 45	L5
15	STA 16	L5	45	ST 46	L5
16	STA 17	L5	46	ST 47	L5
17	STA 18	L5	47	ST 48	L5
18	STA 19	L5	48	ST 49	L5
19	STA 20	L5	49	ST 50	L5
20	STA 21	L5	50	ST 51	L5
21	STA 22	L5	51	ST 52	L5
22	STA 23	L5	52	ST 53	L5
23	STA 24	L5	53	ST 54	L5
24	STA 25	L5	54	ST 55	L5
25	STA 26	L5	55	ST 56	L5
26	STA 27	35	56	L1 0.11y ST 56A	L5
27	STA 28	L5	57	ST 57	L5
28	STA 29	L5	58	ST 58	25
29	STA 30	L5	59	ST 59	L5
30	STA 31	L5	60	ST 1N	L5

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PAGE 2

KRAL NO	IDENTIFICATION	ppb Au	KRAL #	Identification	ppb Au
61	L1 ST 2N	L5	91	L1 ST 32N	20
62	67Metres ST 3N	L5	92	ST 33N	L5
63	ST 4N	L5	93	ST 34N	L5
64	ST 5N	L5	94	ST 35N	L5
65	ST 6N	30	95	ST 36N	35
66	ST 7N	L5	96	ST 37N	L5
67	ST 8N	L5	97	ST 38N	L5
68	ST 9N	L5	98	ST 39N	L5
69	ST 10N	L5	99	ST 40N	L5
70	ST 11N	35	100	ST 41N	25
71	ST 12N	L5	101	ST 42N	L5
72	ST 13N	L5	102	ST 43N	20
73	ST 14N	L5	103	ST 44N	15
74	ST 15N	L5	104	ST 45N	20
75	86Metres ST 16N	L5	105	ST 46N	L5
76	108Metres ST 17N	L5	106	ST 47N	60
77	ST 18N	L5	107	ST 48N	L5
78	ST 19N	L5	108	ST 49N	20
79	ST 20N	70	109	ST 50N	50
80	ST 21N	L5	110	ST 51N	25
81	ST 22N	L5	111	ST 52N	25
82	Creek ST 23N	L5	112	ST 53N	L5
83	ST 24N	L5	113	ST 54N	L5
84	ST 25N	L5	114	ST 55N	L5
85	ST 26N	L5	115	ST 56N	L5
86	ST 27N	L5	116	L2 ST 1N	25
87	ST 28N	L5		ST 2N	L5
88	ST 29N	L5		ST 3N	L5
89	ST 30N	L5		ST 4N	L5
90	ST 31N	L5		ST 5N	L5

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PAGE 3

KRAL NO	IDENTIFICATION		ppb Au		KRAL #	Identification		ppb Au	
121	L2	ST 6N	L5		151	L2	ST 36N	25	
122		ST 7N	L5		152		ST 37N	25	
123		ST 8N	L5		153		ST 38N	35	
124		ST 9N	L5		154		ST 39N	25	
125		ST 10N	L5		155		ST 40N	15	
126		ST 11N	L5		156		ST 41N	15	
127		ST 12N	L5		157		ST 42N	15	
128		ST 13N	L5		158		ST 43N	25	
129		ST 14N	L5		159		ST 44N	35	
130		ST 15N	L5		160		ST 45N	L5	
131		ST 16N	L5		161		ST 46N	30	
132		ST 17N	L5		162		ST 47N	30	
133		ST 18N	L5		163		ST 48N	25	
134		ST 19N	L5		164		ST 49N	L5	
135		ST 20N	L5		165		ST 50N	L5	
136		ST 21N	L5		166		ST 51N	20	
137		ST 22N	L5		167		ST 52N	35	
138		ST 23N	L5		168		ST 53N	25	
139		ST 24N	L5		169		ST 54N	15	
140		ST 25N	L5		170		ST 55N	20	
141		ST 26N	20		171	L1	ST 23N	70	
142		ST 27N	10		172		ST 4-AN	L5	
143		ST 28N	15		173		ST 4-AN	40	
144		ST 29N	10		174	L2	501N	70	
145		ST 30N	20		175	L15	ST 3-AN	15	
146		ST 31N							
147		ST 32N							
148		ST 33N							
149		ST 34N							
150		ST 35N							

TRUE NORTH

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49 CR. GROUP

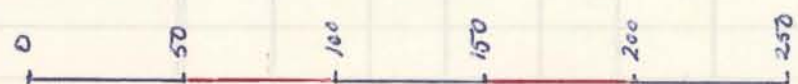
SOIL GEDCHEMISTRY

PLAN VIEW OF SAMPLING LINES SHOWING
RESULTS OF GEOCHEMICAL ANALYSES AS
PARTS PER BILLION (P.P.B) GOLD

L-1-5 - LINE FOLLOWS THE CONTOUR ALONG
49 CREEK SLOPES

TOP LINE OF CONSECUTIVE NUMBERS DEFINES
STATION LOCATIONS

SAMPLE POPULATIONS FOR GOLD OUTLINED UNDER
STATION NUMBERS IN RED FOR HUMUS SAMPLES;
IN BLUE FOR SOIL SAMPLES



SCALE IN METERS

2ND BRANCH CREEK

49 CREEK

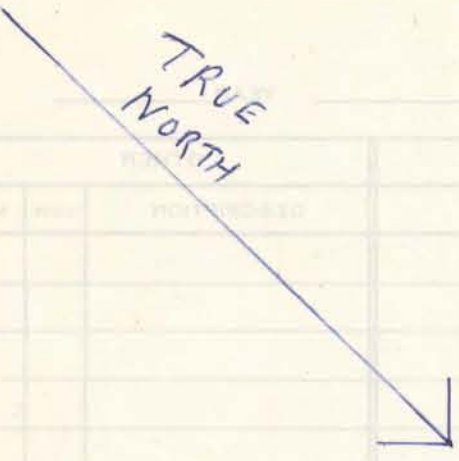
L-1-5 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44 43 42 41 40 39 38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

25

25

35

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49 CR GROUP
SOIL GEOCHEMISTRY

PLAN VIEW OF SAMPLING LINES SHOWING
RESULTS OF GEOCHEMICAL ANALYSES AS
PARTS PER BILLION (PPB) GOLD

L1N to L2N LINES FOLLOW THE CONTOUR
ALONG 49 CREEK SLOPES
TOP LINE OF CONSECUTIVE NUMBERS DEFINES
STATION LOCATIONS
SAMPLE 'POPULATIONS' FOR GOLD OUTLINED UNDER
STATION NUMBERS, IN RED FOR HUMUS SAMPLES;
IN BLUE FOR SOIL SAMPLES

