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

CHRIS SIDECO, P. ENG. B.S. MINING ENGINEER

FIELD WORK: August 10, 1983 to November 21, 1984

REPORT: August 1, 1984

GEOLOGICAL BRANCH ASSESSMENT REPORT

12,653

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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. GOLD to the ton.

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

On the basis of the encouraging results outlined on the Geochemical survey conducted in 1982 on these claims it was decided to extend the grid and instead of using the A Horizon soils for analysis as was done in 1982; the B Horizon soils were used.

2. PROPERTY AND OWNERSHIP

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

The 49 Creek 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 Creek 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

The grid covers the NE area of Mineral claims JA #3; JA #5; JA #7; and PB #1 which lie on the SW side of 49 Creek.

Base line #1 runs 248 meters SW from a point 15 meters up A Creek from 49 Creek.

Cross Line 1B runs parallel with 49 Creek and follows Line 1 of the Humus soil sampling program carried out in 1982 and joins Line 2 at St. 36B.

Cross line 2B is at 28 meters and extends 575 meters NW from A Creek.

Cross line 3 is at 78 meters and extends 853 meters NW from A Creek.

Cross line 4 is at 128 meters and extends 1006 meters NW from A Creek.

Cross line 4A is at 188 meters and extends 513 meters NW from the Base line.

Cross line 5 is at 248 meters and extends 1011 meters NW from A Creek.

As there were only a few isolated encouraging values to the SE of A Creek in the 1982 Geochemical Survey. A Geochemical survey on a reconnaissance basis was implemented above and to the SE of the 1982 survey.

Base line #2 runs 192 meters SW from L-1 ST.8 of the 1982 Geochemical Survey (Humus soils).

Cross line 21 is at 92 meters and extends 681 meters NW to A Creek and 350 meters SE just 16 meters short of B Creek.

Cross line 22 is at 192 meters and extends 590 meters NW to A Creek and extends 1003 meters SE crossing B Creek at 475 meters.

Soil samples were generally taken at 25 meter intervals but as many small creeks and depressions were encountered the soil samples were taken from higher up the banks to avoid contamination from above.

Variations in distances between stations was recorded in the notebook.

In the latter part of the season extra sampling at closer spacings was done and recorded where high values were obtained in the previously sampled areas.

Stations were marked with flagging tape denoting the sample location.

5.2 Sampling Method

The soil samples were taken from the light brown weathering B Horizon just below the humus and root level of the A Horizon. The B Horizon is well developed in the area.

5.3 Assay Method

Assays were run for AU by the Kamloops Research and Assay Laboratory (assay report G880, G905, G964, G974, G1027, G1121).

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 mest portion.

Fire Assay Re-agents

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

Atomic Absorption Re-agents

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

Nitric Acid	:	C.P.		70%
Hydrochloric Ac	id:	C.P.		37%
Aluminum Chlori	de:	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 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

General:

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The data is from Kamloops Research and Assay Ltd. dated June 16. 1983 for the "A" horizon soil assays and Aug. 31. Sept 9, Oct 27, Nov.3, 1983 and Feb.21, 1984 for the "B" horizon assays. When the assays are "L5" (i.e. less than 5ppb) a value of 1 ppb has been assigned. Both the "A" and "B" horizons have log normally distributed values.

Histogram 1 "Gold/ppb/A" - representing the "A" horizon A log normal distribution is indicated.

Descriptive Statistics for the "A" horizon. The mean is 10 ppb with standard deviation of 30 ppb. Anomalous values would be over 10 + 2 (30) = 70 ppb for the "A" horizon.

Histogram 2 "Gold/ppb/B" - representing the "B" horizon.
 A log normal distribution is indicated.

Descriptive Statistics for the "B" horizon. The mean is 42 ppb with a standard deviation of 83 ppb.

Anomalous values are considered to be greater than 42 + 2 (83) = 208 ppb for the "B" horizon.

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1.8 18.0 20.0 70.8 40.0 50.0 60.0 70.0 370.0

DESCRIPTIVE STATISTICS

VAFIAFLE: GOLD/FPE/B SAMPLE SIZE (N) = 349

SAMPLE STATISTICS:

MEAN = 42.5942 RANGE = 849

VARIANCE = 6928.7 MINIMUM = 1

STI. DEV. = 83.2388 MAXIMUM = 850

UNDIAGED ESTIMATES OF POPULATION FARAMETERS:

VAPIANCE = 6947.53 STD. DEV. = 83.3519

DATA DISTRIBUTION COEFFICIENTS:

SIEWNESS = 5.20676 KURTURIS = 24.71

FREQUENCY DISTRIBUTION

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DESCRIPTIVE STATISTICS

VARIABLE: GOLD/FPE/A SAMPLE SIZE (N) = 175

SAMPLE STATISTICS:

VARIANCE = 928.95 MINIMUM = 1

STD. DEV. = 30.4787 MAXIMUM = 370

UNBIASED ESTIMATES OF POPULATION PARAMETERS:

VARIANCE = 934.289 STD. DEV. = 30.5661

DATA DISTRIBUTION COEFFICIENTS:

SKEWNESS = 9.54655 KURTOSIS = 108.136

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Conclusion and Recommendations

Considering values over 208 PPb as anomalous, a few isolated areas where high concentrations of gold warrant additional evaluation are L-5 ST.17, L-4 ST.15 and L-2B ST.40.

INTEREST Areas of diffinite in which higher gold concentrations were found are:

- 1. From L-2 ST.36 in a westerly direction through L-3 ST.13 and ST.14 and upward to the area around L-4 ST.18 and ST.19.
- 2. The area SE and NW from L-3 at Base Line #1 and East to C-1.

The author feels that with the encouraging results obtained with the Geochemical Survey thus far, a Geophysical survey should be conducted over the area to the NW of A Creek, with the object of locating targets for trenching and assist in the geological mapping of the structure.

Brent L

ANNEXE I

		•			
1.	FIELD WORK	August 10,	1983 to No	ovember 21, 1983	
	Personnel				
	J. Butula	160 Hrs. at	\$15/per h	r,	\$2400.00
	B. McMahon	8 Hrs. at \$	15/per hr		120.00
	C. Sideco	2 days at \$	200/day		400.00
	TRUCK RENTAL	AND GAS			
		16 days at	\$47.75/per	day	764.00
	Geochemistry	:			
	Kamloops Res	earch and As	say Labora	tories Ltd.	
Inv	oices 83-0622 " 83-0691 " 83-0879 " 83-0906 " 83-0362	File No.	G-880 G-905 G-964 G-974 G-1077 G-1121	August 31-83 September 16-83 October 27-83 November 3-83 February 21-84 July 16-84	\$1045.20 609.70 247.90 134.00 87.10 341.70
A to	otal of 368 s	oil sample w	ere analys	ed at the cost of	\$2465.60
	FIELD SUPPLI	ES:			
	Flagging tape "Top-o-lite The Felt Pens	nread 10	6.01 3.00 1.18 9.95 0.14		180.14
	OFFICE WORK				
	Personnel		-		
	C. Sideco	5 days at \$	200/day		\$1000.00
	J. Butula	4 days at \$	120/day		\$7809.74

ANNEXE II

STATEMENT OF QUALIFICATIONS

I, CRIS SIDECO OF 3843 Dogwood Drive,, Trail, British Columbia, hereby certify that:

- I am a graduate of the University of Phillipines with a degree in Mining Engineering.
- 2. I have been employed as a P. Engineer with Cominco from March 1964 to 1982 at the following locations (Sullivan) Kimberly; (H.B. Mine) Salmo; Pine Point and at Trail.
- 3. I am affiliated with:
 - A. Association of Professional Engineers of British Columbia
 - B. Canadian Institute of Mining and Metallurgical Engineers (CIMM)
- 4. I have personally participated in the field work and supervised all the completed work included in this report.

Respectfully submitted,

Cris Sideco

B.C. CERTIFIED ASSAYERS

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

GEOCHEMICAL LAB REPORT

Mr. Jack Butula 1423 Columbia Avenue Trail, B.C. V1R 1J7

FILE NO.	
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August 31, 1983 G-880

į	FILE NO.				FILE NO.	G-880	
KRAL NO.	IDENTIFICATION	ppb Au		KRAL No.	Identification	ppb Au	
1	L1N ST 6B	30		31	L4 ST 3 N	5	
2	6B1	20	·	32	4	35	
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GEOCHEMICAL LAB REPORT

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GEOCHEMICAL LAB REPORT

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B.C. CERTIFIED ASSAYERS

KAMLOOPS RESEARCH & ASSAY LABORATORY LTD.

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

GEOCHEMICAL LAB REPORT

Mr. Jack Butula 1423 Columbia Avenue Trail, B.C. V1R 1J7

ANALYST G-905

KRAL NO.	IDENT	IFICATION	ppb Au			KRAL No.	Identi fi	cation	ppb Au		
1	L1 ST	23B	10			31	L21N ST	3	55		
2		24B	L5			32		4	10		
3		25B	L5	,		33		5	15		
4		26B	L5			34		6	20		
5		27B	20			35		7	35		
6		28B	15			36		8	15		
War of the same of		29B	70			37		9	35		
8	L1 ST	30B	180			38	L21N ST	10	25		
9		31B	90			39		11	15		
10		32B	115			40		12	25		
11		33B	10			41		13	25		
12		3 4B	30	,		42		14	30		
13	,	35B	30			43		15	15		
+ 14	L1-S-ST	26B	20	·		44		16	.60		
15	L2N ST	20B	25			45		17	20		
16		21B	15			46		18	225		
17		22B	20			47		19	25	•	
18	L2A ST	25	10	<u>.</u>		48	L21N ST	20	20		
19		26	30			49		21	25		
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21		28	15		·	51		23	35		
22		29	35			52	L215 ST	1	L5		
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69		24	25							
70		25	60							
71		26	15							
72	2	27	2.0							
73		28	10							
74	2	29	10		,					
75	L22S ST	30	30							
76	-	31	L5							
77		32	L5							
78	3	33	5							
<u>7</u> 9		34	-5							
80	3	35	50							
81	L22S ST 3	36	10							
82	L21S ST 1	15A	5	·				. :		·
83	1	16A	15							
84	1	17A	10							
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			25	100						
			350							
			10							
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B.C. CERTIFIED ASSAYERS

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 1J7

FILE NO.	

DATE	Octob	er 27,	1983	
ANALYS	ST			
		074		

Fi	ILE NO.			FILE NO G 964				
KRAL NO.	IDENTIFICATION	ppb Âu		KRAL #	Identification	ppb Au		
1	L2 AN ST 50B	25		31	L4A ST 22	20		
2	51B	20		32	23	20		
3	52B	45		33	e 24	10 .		
4	L3 ST A	180		34	25	L5		
5	ST 1A	350		35	. 26	5		
. 6	L3A ST 1S	ے 30		36	27	35		
7	ST A	30	·	37	28	20		
8	ST 1A	10						
9	L4 ST 1A	35						
10	L4A ST 1	20	·					
. 11	ST 2	L5			L means "less th	an"		
12	ST 3	5						
13	ST 4	110			Au Method: -80 M			
14	ST 5	10			Atomi	Assay c Absorption		
15	ST 6	15 .						
16	ST 7	20						
17	ST 8	20						
18	ST 9	25						
19	ST 10	L5						
20	ST 11	L5						
21	ST 12	L5						
22	ST 13	15						
23	ST 14	10	i i i		3			
24	ST 15	450	i. let \$1 # 18 ibi	Hallin Faller - vel	Section and the second section of the second section of the section of the second section of the section of the second section of the second section of the section of t			
	ST 16	30						
	ST 17	60						
	ST 18	20						
	ST 19	10						
	ST 20	15						
	ST 21	15		Ш				



B.C. CERTIFIED ASSAYERS

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GEOCHEMICAL LAB REPORT

Mr. J. Butula

1423 Columbia Ave. Trail, B.C.	DATE November 3, 1983				
V1R 1J7	ANALYST				
FILE NO	FILE NO. G 974				
IDENTIFICATION ppb					

KRAL NO.	IDENTIFICATION	ppb Au					
1	L2 AN ST 46B	125					
2	ST 47B	15					
3	ST 48B	175					
4	ST 49B	75					
5	ST 53B	L5					
6	ST 54B	15			,		
-	ST 102	25					
8	ST 103	25					
9	ST 104	L5					
. 10	ST 105	155			·		
11	ST 106	850				 patients to us in tank contain	
12	ST 201	130					
13	ST 202	125					
14	ST 203	15					
. 15	ST 204	350					
16	ST 205	10-,					
17	ST 301	5					
18	. ST 302	5					,
19	ST 303	L5					
20	ST 304	L5					
	•						
	L means "less th	an"					
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	Atomi	Assay ic Absor	otion				
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B.C. CERTIFIED ASSAYERS

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

GEOCHEMICAL LAB REPORT

McMahon Resources Ltd. 1423 Columbia Ave., Trail, B.C. V1R 1J7

DATE ____February 21, 1984
ANALYST____

	FILE NO.	Attn: N	Mr. J. F	<u>Butula</u>	FILE NO				
KRAL NO.	IDENTIFICATION	ppb Au	-						
1	ST 105A	50							
2	ST 106B	25							
3	ST 206A	15							
4	ST 207	40							
5	ST 208	40							
6	ST 209	85							-
	ST 210	35							-
8	ST 211	45							
9	ST 212	85							
10	ST 213	20							
11	L2AN ST 36B1	5.5				·			
12	L2AN ST 36C	35							
13	L4 ST 16A	20							
···									
	Au Method: -			,					
	A	ire assay tomic abso	rption					•	
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B.C. CERTIFIED ASSAYERS

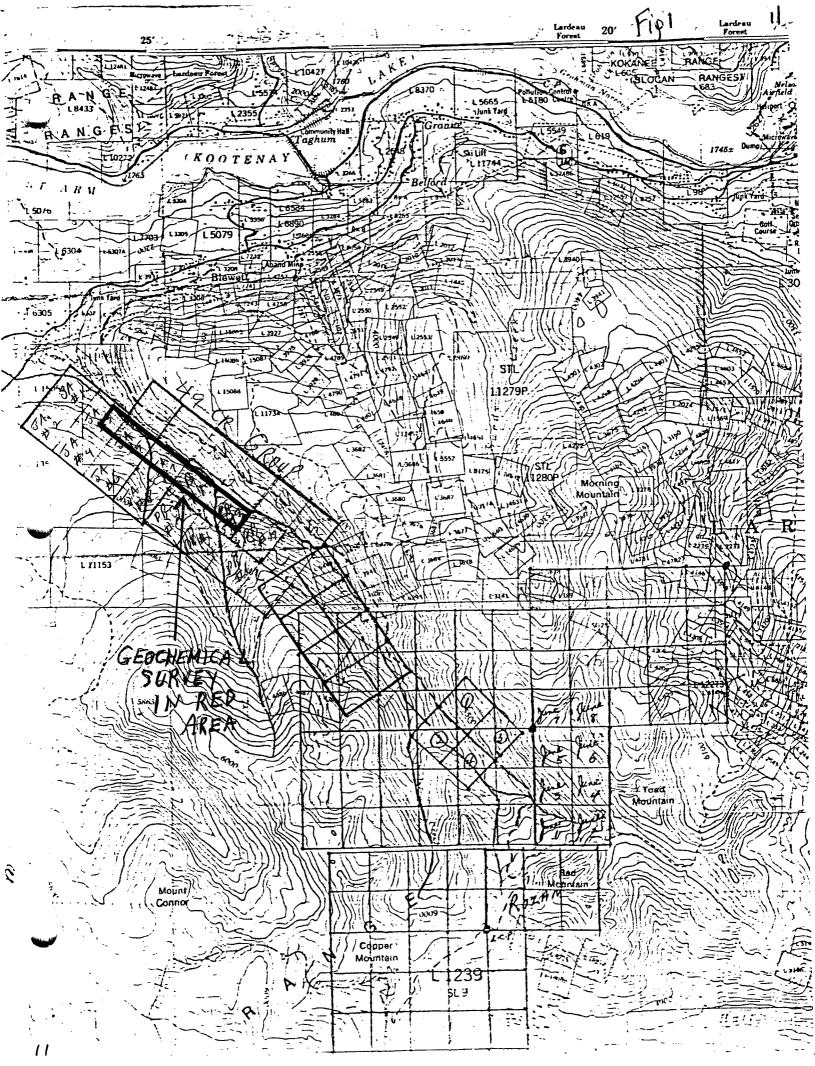
912 LAVAL CRESCENT — KAMLOOPS, B.C. V2C 5P5 PHONE: (604) 372-2784 — TELEX: 048-8320

GEOCHEMICAL LAB REPORT

McMahon Resources Ltd. 1423 Columbia Ave., Trail, B.C. V1R 1J7

DATE July 16, 1984
ANALYST

FILE NO. G 1121 Attn: Mr. J. Butula FILE NO. ppb ppb KRAL NO. IDENTIFICATION KRAL# Identification ST 12 L_{1S} 1 Sta B 30 31 15 2 25 L3S ST 0 32 ST 13 510 3 ST 2A 135 33 200 ST 14 4 L₁N ST 1BN 20 34 ST 15 95 5 ST 1B 30 35 ST 16 35 6 ST 2B 90 36 ST 17 35 **-7** ST 3B 20 37 ST 18 15 8 ST 4B 35 38 ST 19 5 9 55 ST 5B 39 ST 20 140 10 ST 7B 50 40 ST 21 25 11 ST 8B 55 41 ST 22 25 12 ST 9B 55 42 ST 23 10 13 ST10B 35 43 105 ST 24 14 ST12B 35 44 ST 25 25 15 35 45 ST13B ST 26 35 16 ST 27 ST14B 30 46 35 17 ST15B 20 47 ST 28 10 18 **ST17B** 75 48 ST 29 60 9 ST 30 80 49 45 **ST18B** 20 ST19B 60 50 ST 31 50 51 21 ST21B 15 L215 ST 14 20 22 ST22B 30 L2 ST 1BN 23 65 Au Method: -80 mesh Fire assay 24 L3N ST 1 115 Atomic absorption 25 ST 2 105 ST 3 26 40 27 ST 4 35 28 ST 9S 35 29 **ST10S** 15 30 40 **ST115**



49 CR. GROUP SOIL GEOCHEMISTRY (B HORIZON) PLAN VIEW OF SAMPLING LINES SHOWING RESULTS OF GEOCHEMICAL ANALYSES AS PARTS PER BILLION (P.P.B.) GOLD SAMPLE POPULATIONS FOR GOLD OUTLINED UNDER STATION NUMBERS FOR SOIL SAMPLES TOP LINE OF CONSECUTIVE NUMBERS DEFINES STATION LOCATIONS

SCALE IN METERS

AREA A

ST. 213 (20 PPM) 5 METERS SE OF 106 AT 18" DEEP. 1.06 B - 18" DEEP (SAME ASSAYED AT 25.PRB 206 A RE SAMPLED 106.

49 CR. GROUP NELSON MINING DIVISION LATITUDE 490 270N LONITUDE 1170 250W

GEOLOGICAL BRANCH ASSESSMENT REPORT

LINE 225

· AREA B