52N04NW0018 63.3989 MCDONOUGH TWP

BLUESTACK RESOURCES LIMITED

RED LAKE PROJECT

REPORT ON TRENCHING PROGRAM - SEPTEMBER - NOVEMBER, 1981.
Claim Nos. 2206 and 2208, McDonough Township, Red Lake Ontario.

1. INTRODUCTION:

This report deals with three trenches excavated on claims No. 2206 and 2208 in McDonough Township, Red Lake Ontario. The work was carried out in the period September to November 1981. The claims are patented and held by Luxor Red Lake Gold Mines Ltd. (T.S.E.). The work has been carried out by Bluestack Resources Limited of Toronto, Ontario as part of an option agreement with Luxor.

The claims are located close to the south-east shoreline of Slate Bay on Red Lake, approximately halfway along the peninsula dividing Slate and Goldseeker Bays. Access may be obtained by boat, or aircraft in summer, on foot or by snowmachine in winter.

2. TRENCH - LOCATIONS:

The trenches were located on the following premises.

Previous diamond core drilling in the area indicated potentially economic silver occurrences [See Appendix 1 & Fig. 1].

Early work in the area has indicated a possible relationship between iron formation and silver values. The Bluestack E.M. and magnetometer surveys of March-April 1981 recorded anomalous values running through the proposed target area. [Fig.2.).

Some doubt had arisen with respect to silver assays recorded by Luxor in earlier work. Since the area has received considerable attention throughout the exploration history of the property, it had become apparent that little further progress could be made on the basis of previous results unless a satisfactory answer to the silver question was obtained.

3. TRENCHING:

The trenching operation may be considered under two headings.

3.1. Overburden Removal

Overburden removal was carried out using a portable high pressure fire pump as a cutting and washing tool. A Wajax MK III fire pump and ancillaires was borrowed from the local M.N.R. Forestry department. This pump is capable of a nozzle pressure of up to 270 lbs. per square inch over horizontal distances of 2,000 ft. The maximum range over level ground is about 7,000 ft. but pressure drops off quite considerably. Using a splitter on the hose line and two nozzles the trenching proceeded quickly. An initial cut of about 1 ft. depth was used to expose roots etc. which were then removed by hand. A second cut was made down to a maximum of about 4-5 ft. In areas of poor drainage a large capacity sludge pump was used. It was found that silt, sand and fine gravel could be kept in suspension long enough for the sludge pump to lift them from the trench. Removal of the larger cobbles and final finishing on the floor of the trench was done by pick and shovel. [Plates 1 & 2].

3.2. Sampling

The sampling method proposed called for a continuous channel sample across the strike of the country rock exposed in the floor of the trench. A gasoline powered rock saw (Stihl Model 350) was used to cut two parallel grooves approximately 1" deep and 1.5" apart along the exposed rock surface. The ridge left between the two grooves was then carefully removed using a hammer and blunt chisel. The sample lengths were restricted to geologically distinct units, or approximately 5' lengths, whichever is the lesser. Two types of blades were used in the rock saw. The first type was the standard epoxy resin carbide impregnated cut-off wheel. This was found to be expensive and relatively time consuming. The second type of blade was a diamond impregnated model produced by J. K. Smit of Toronto.

Although the diamond blade requires the added inconvenience of a constant water flow the speed of cutting and the extended life makes it extremely cost effective. [Plate 3 & 4].

Explosives were used in Trench 2 only. It was decided that the extra time taken to remove debris and the poor condition of the remaining rock for cutting made blasting undesirable.

4. RESULTS:

4.1. Geology

The lithologies exposed by the trenching appear to be a banded iron (magnetite) formation in a waterlain intermediate tuffaceous sequence. Brecciation and dynamothermal alteration have produced complex changes to the basic sequence. The dominant type of alteration appears to be relatively localized at the northern end of the trenched area. Epidotisation, chloritisation and the extensive growth of garnets strongly suggests the presence of a channelway for hydrothermal solutions [Plates 5 & 6]. This point is reinforced by the alumina enrichment (as evidenced by the garnets) and local carbonitization seen in the alteration zones. Blocks of magnetite up to 12" across occurring in the most altered zones suggests remobilization but it is more likely that brecciation of the iron formation is responsible [Plate 7]. The close association of iron formation and alteration zone may be coincidental or may be a function of the relative incompetence of the formation allowing easier brecciation and subsequent alteration by hydrothermal fluids. Drilling in the area (D.D.H. 62-5) suggests a steep dip to the alteration zone. Further work in the area should assist in clarification. A more detailed note on the geology of each trench is included with the assay results.

4.2 Assays

The values obtained from assaying are currently under consideration, however one feature worthy of note is the coincidence between Ag, Au and Cu values and the alteration zones [See Figures 3 - 8 incl.] particularly those containing garnets. These zones will be further investigated in future.

5. CONCLUSIONS & RECOMMENDATIONS:

5.1. Conclusions

The trenching program has achieved the objectives laid out at the commencement of the operation. The disputed Ag values have been confirmed and consequently enhance earlier work in the area.

The geological information obtained will greatly assist future mapping and trenching.

A direct link between iron formation and precious metal values has not been established. Since large anomalies of probable iron formation origin are known from the magnetometer survey a method of selection of prime targets must be evolved. The possible coincidence of carbonatization and metal values may allow geochemical filtering of areas so that those with high Ca Mg concentrations can be assigned priority. The dearth of carbonates in the project area may allow this selection method to work well.

The E.M. anomaly can be explained by the metal content (particularly Cu and Fe) noted in the trenches. The occurrence of E.M. anomalies without coincident magnetic anomalies may indicate significant concentrations of non ferrous mineralization.

5.2. Recommendations

Trenches 2 and 3 will be extended. Trench 3 to the north and trench 2 to the north and south.

The magnetic low area to the N.E. of the trenched area will be investigated to ascertain whether the alteration zone continues in that direction. It does not appear on the coastal exposure S.W. of the trenched area.

Respectfully submitted,

JFW/v

John F. Whitton.

January 18, 1982.
Toronto, Ontario

PLATE 'I'

Bush clearing prior to opening trench.

PLATE 'II'

Overburden removal using power hose.

PLATE 'III'

Channel sampling - note rock cutting saw on right hand bank of trench.

PLATE 'IV'

Channel cut with rock saw prior to extracting sample.

PLATE 'V'

Alteration zone showing Epidotic-Garnetiferous matrix with small clasts of magnetite (camera lens cap 2" in diameter).

Trench No.1

PLATE 'VI'

Alteration zone showing magnetite fragments (up to 12" across) in an Epidotic-Garnetiferous matrix. (camera lens cap 2" in diameter).

Trench No.3

PLATE 'VII'

Iron Formation Breccia showing large angular blocks of magnetite in an epidotic matrix. Note large "vein" of epidote in upper half of picture (camera lens cap 2" in diameter). Trench No. 3.

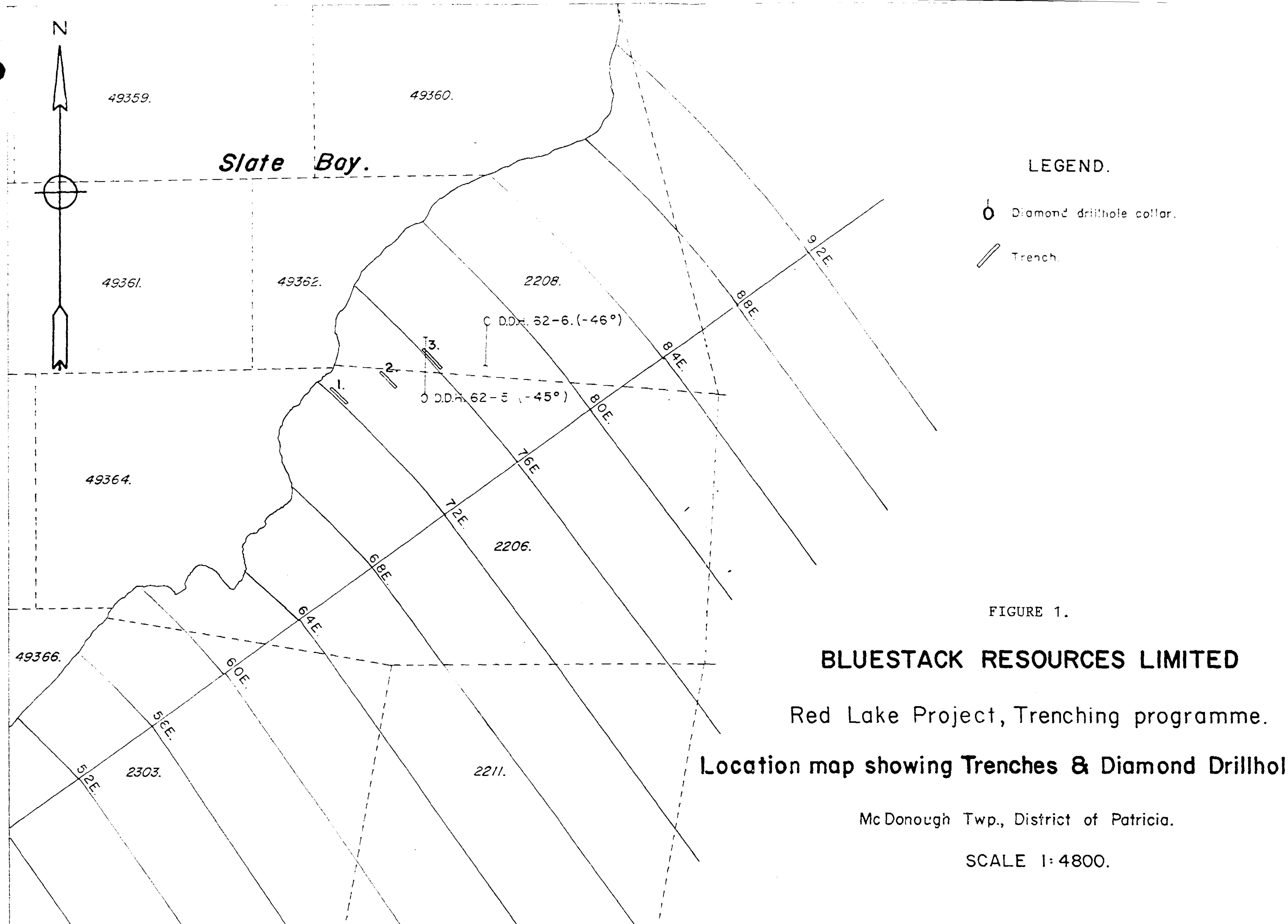


FIGURE 1.

BLUESTACK RESOURCES LIMITED

Red Lake Project, Trenching programme.

Location map showing Trenches & Diamond Drillholes.

Mc Donough Twp., District of Patricia.

SCALE 1:4800.

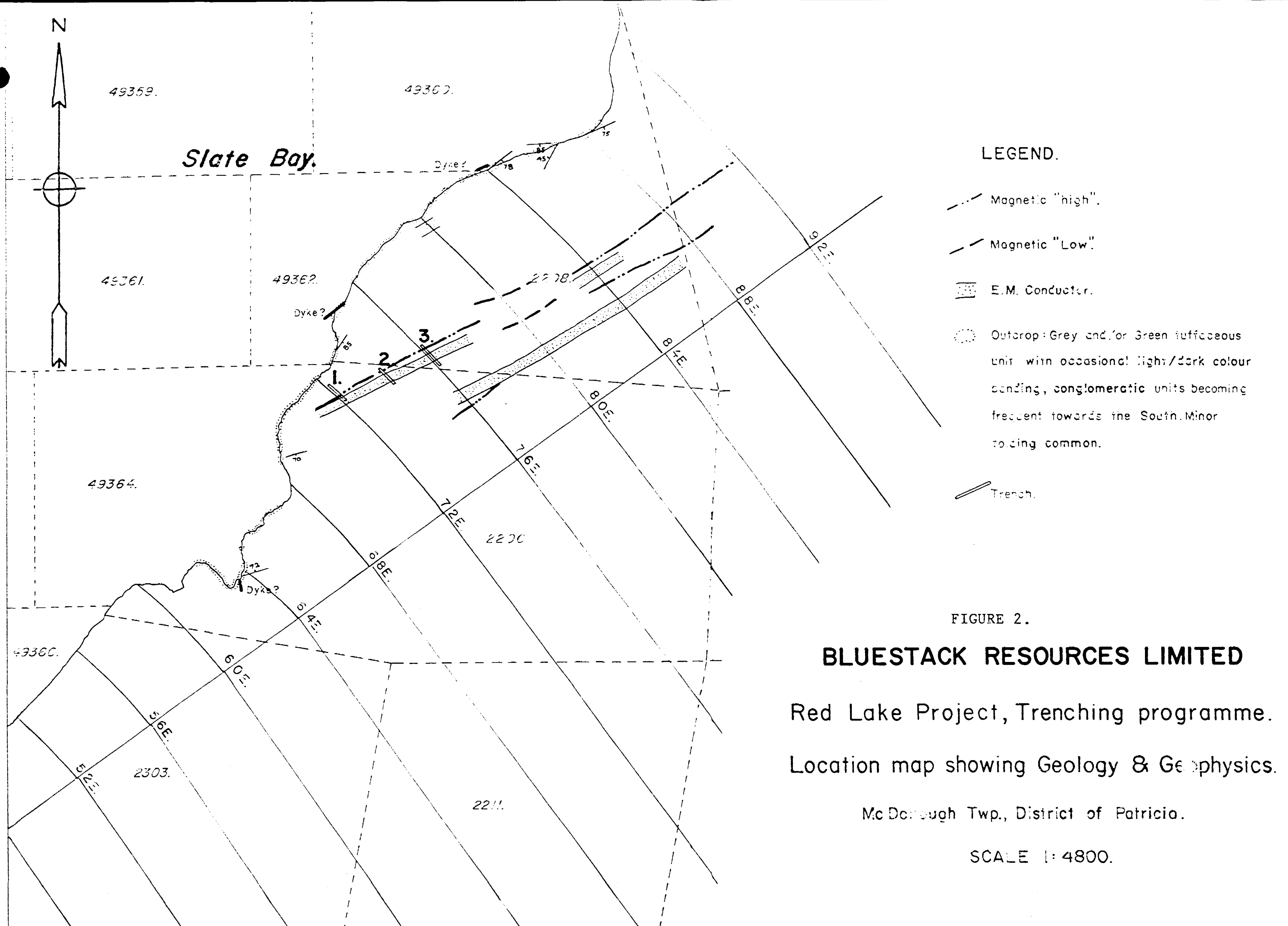


FIGURE 2.

BLUESTACK RESOURCES LIMITED

Red Lake Project, Trenching programme.

Location map showing Geology & Geophysics.

McDonough Twp., District of Patricia.

SCALE 1: 4800.

FIGURE 3.

BLUESTACK RESOURCES LIMITED.

Project: Red Lake	Trench No. 1	LOCATION. Twp. McDonough	Claim No(s). 2[redacted]	Date Sept.-Nov.1981 Line 72E 600N

Sample No.	Footage From - To	Length.	Geological Details.	Formation.	ASSAYS. Au (oz/ton)	Ag (oz/ton)	Cu (%)	Pb (%)	Zn (%)	W. %
8126	0 - 5	5'	Garnetiferous epidotic with blebs of magnetite py.	Alteration zone	.006	.35	.10	Trace	Trace	Nil
8127	5 - 10	5'	As above	as above	.002	Tr.	.07	Nil	Tr.	
8128	10 - 15	5'	As above	as above	.001	.11	.07	Nil	Tr.	
8129	15 - 21	6'	As above (with cpy)	as above	.005	.22	.22	Nil	.01	
8130	21.0-24.6	3.6'	As above	as above	.001	Tr.	.05	Tr.	.01	
8131	24.6-26.8	2.4'	Dark grey-green siliceous unit with cream-buff quartzitic (?) veining dyke ?	Dyke ?	Nil	Tr.	.01	Tr.	Tr.	
8132	26.8-28.6	1.8'	Dark green dense unit. Strongly py. c. 8% visual & some cpy.	Dyke	.003	Tr.	.08	Tr.	.02	
8133	28.6-35.0	6.4'	Weathered sheared ? dark grey-green material Actinolite crystals	Weathered zone (possible shear)	Nil	Tr.	Tr.	Nil	.01	
8134	35.0-37.5	2.5'	Light to medium green poorly bedded intermediate tuffs. Flame structures indicate younging to north.	Intermediate	Nil	Nil	Nil	.01	Tr.	
8135	37.5-42.5	5'	Intermediate tuffs. Anastromitic network of epidote veins with occasional pink feldspar rims. Sedimentary features giving younging to North.	Intermediate tuff	Nil	Nil	Nil	Tr.	.01	
8136	42.5-46.9	4.4'	As above	Intermediate tuff	Nil	Nil	Nil	Nil	.01	
8137	46.9-53.5	6.6'	As above(with conglomeratic band - elongate quartzitic cobbles structural imbrication? well defined bedding, younging North	Intermediate Tuff	Nil	Nil	Nil	Nil	.01	
8138 (sample on 80° face)	53.5-57	3.5'	Weathered gray black leached unit py.	Shear	.002	Tr.	.04	Tr.	.01	
8139	57 - 62	5'	Green chloritic epidotic? unit, moderate py.	"Chlorite" Unit	.003	Tr.	.05	Nil	.01	

BLUESTACK RESOURCES LIMITED.

Project: Red Lake

Trench No. 1 (Page 2)

LOCATION. Twp. McDonough

Claim No(s). 2[illegible]

Line 72E-600

Date Sept.-Nov. 1981

Sample No.	Footage From To	Length.	Geological Details.	Formation.	ASSAYS. Au (oz/ton)	Ag (oz/ton)	Cu (%)	Pb (%)	Zn (%)		
8140	62-66.7	4.7'	Magnetite section Py, Cpy, Po.	Iron, Fm Bx	.017	.26	.17	Nil	.01		
8141	66.7-71.5	4.8	Interbedded massive magnetitie & grey siliceous sandy units. Brecciated.	Iron, Fm, Bx	.004	.11	.14	Nil	.01		
8142	71.5-77.3	5.8'	Grey-green laminated? (striped) unit with garnets. Weathered	Laminated? tuff	.003	.10	.09	Tr.	.01		
8143	77.3-80.8	3.5	Grey-green laminated ? unit. Interbedded chert	Laminated tuff	.002	.10	.17	Nil	.01		

FIGURE 4.

BLUESTACK RESOURCES LIMITED.

Project: RED LAKE

Trench No. 2

LOCATION. Twp. McDonough

Date: Sept.-Nov. 1981

Claim No(s). 2206[redacted]ine 4E 600N

Sample No.	Footage From To	Length.	Geological Details.	Formation.	ASSAYS. Au.(oz/ton)	Ag.(oz/ton)	Cu.(%)	Pb.(%)	Zn.(%)			
8150	0 - 3.5	3.5'	Garnetiferous epidotic unit with sub angular cobbles of magnetite Py, As Py (?)	Alteration zone	.088	2.15	.47	Nil	.01			
8151	3.5 - 5.7	2.2'	As above (addition of $CaCO_3$)	Alteration Zone	.004	Tr.	.08	Tr.	.01			
8152	5.7 - 6.6	.9'	"Rotten" epidote garnet magnetite unit. short sample section taken to avoid error	Alteration zone	.004	Tr.	.08	Nil	.01			
8153	6.6 -11.9	5.3'	Epidotic unit with sub-angular cobbles of magnetite garnets infrequent, common $CaCo_3$	Alteration zone	.003	.17	.10	.01	Nil			
8154	11.9-14.9	3.0	As above	Alteration zone	.005	Tr.	.12	.02	Tr.			
8155	14.9-20.2	5.3'	Magnetite with epidotic chloritic interstitial filling, Cpy, Py, As Py?	Iron Formation Bx?	.010	.28	.51	Nil	.01			
8156	20.2-21.4	1.2'	Magnetitic zone, Cpy & Py.	Iron formation	.006	1.00	.75	Nil	Tr.			
8157	21.4-27.0	5.6'	Magnetitic unit, chloritic with green tuffaceous material, Cpy?	Iron Formation	.019	.73	.87	Nil	.02			
8158	27.0-31.3	4.3'	Magnetitic unit, starts to get progressively more oxidized & rotten from 29'	Iron formation Oxidized zone	.012	.43	.32	Tr.	.01			
8159	31.3-33.3	2.0'	Weathered heavily oxidized unit, massive Py over last 6"	Oxidized zone	.066	1.57	1.90	Tr.	.01			
8160	33.3-38.1	4.8'	Oxidized rotten unit. Occasional Py.	Oxidized zone	.024	.76	.10	Trace	Tr.			
8161	38.1-44.0	5.9'	Magnetitic chloritic unit massive magnetite in short sections, rare $CaCO_3$ crystals. Cpy, Py.	Iron Formation Bx	.031	1.06	.82	Tr.	.01			

FIGURE 5.

BLUESTACK RESOURCES LIMITED.

Project: RED LAKE | Trench No. 3 | LOCATION. Twp. McDonough | Claim No(s). 22[illegible] | Line. 76E 500N | Date: Sept.-Nov.1981

Sample No.	Footage From - To	Length.	Geological Details.	Formation.	ASSAYS. Au (oz/ton)	Ag (oz/ton)	Cu (%)	Pb (%)	Zn (%)	W. (%)
8101	0 - 5	5'	Altered section with garnets & inclusions of magnetite in an epidotic ground mass. subsidiary chloritization malachite, py & cpy.	Alteration zone	.005	.96	.75	Nil	.01	.004
8102	5 - 10	5'	As above	Alteration zone	.009	3.58	.87	Trace	Tr.	.024
8103	10 - 15	5'	As above	as above	.003	0.29	.17	Nil	.01	
8104	15 - 20	5'	As above (sub-angular magnetite blocks up to 6" x 12" 3" quartz vein at 19')	Alteration zone	.001	Nil	.01	Nil	.01	
8105	20 - 25	5'	As above	as above	Nil	Nil	Tr.	Nil	Tr.	
8106	25 - 30	5'	AS above	as above	Tr.	Tr.	.03	Nil	Tr.	
8107	30 - 35	5'	As above	as above	.002	Tr.	.03	Tr.	Tr.	
8108	35 - 40	5'	As above	as above	.002	Tr.	.05	Nil	Tr.	
8109	40 - 45	5'	As above	as above	Nil	Nil	.01	Nil	Tr.	
8110	45 - 50	5'	as above	as above	Tr.	Tr.	.03	Nil	Tr.	
8111	50 - 55'	5'	as above	as above	Nil	Tr.	.06	Tr.	Tr.	
8112	55-61.6	6.6'	as above	as above	Nil	Nil	.02	Nil	Tr.	
8113	61.6-63.3	1.7	Epidote (Pistacite) chlorite, sharp contacts	Alteration zone	Tr.	Nil	.03	Tr.	Tr.	
8114	63.3-67.3	4'	Massive magnetite with garnetiferous epidotic veins (?) Cpy.	Bx Iron formation	.006	.62	.71	Tr.	.01	
8115	67.3-69.5	2.2'	Garnetiferous epidotic with subsidiary magnetite "cobbles"	Bx Iron Formation	.003	Tr.	.07	Nil	Tr.	
8116	69.5-74.5	5'	6" wide shear zone followed by somewhat oxidized weathered zone with magnetite, Py, Po, Cpy?	Bx Iron formation	.004	.28	.07	Tr.	.01	
8117	74.5-78.3	3.8'	Locally massive magnetite with garnetiferous, epidotic stringers Cpy, Py, Po?	Bx Iron formation	.007	.44	.39	Nil	.01	

BLUESTACK RESOURCES LIMITED.	Project: RED LAKE	Trench No. 3 (Page 2)	LOCATION. Twp. McDonough	Claim No(s). 2[illegible]8	Date: Sept.-Nov. 1981 Line. 76M 500E

Sample No.	Footage From To	Length.	Geological Details.	Formation.	ASSAYS. Au. (oz/ton)	Ag. (oz/ton)	Cu. (%)	Pb. (%)	Zn. (%)			
8118	78.3-83.3	5'	Garnetiferous epidotic unit with sub. mag. & possibly chert Py.	Bx Iron Formation	.004	.10	.08	Nil	.01			
8119	83.3-88.3	5'	Garnetiferous epidotic unit with dominant magnetic cobbles & possibly chert Py.	Bx Iron Formation	.001	Nil	.04	Tr.	Tr.			
8120	88.3-94.0	5.7'	Garnetiferous epidotic unit with chlorite, subordinate megnetite and minor cpy.	Bx Iron Formation	Tr.	Nil	.02	.01	Tr.			
8121	94.0-96.5	2.5	As above	Bx Iron Formation	Nil	Nil	Tr.	Nil	Tr.			
8122	96.5-97.7	1.2	Weathered oxidized zone sheared with augen quartz "sulphide zone"	Oxidized Zone	.002	tr.	.06	Tr.	.01			
8123	97.7-106.9	9.2'	Dark to medium green chloritic with magnetite possibly laminated ? Cpy, Py.	Iron Formation	.001	Nil	.01	Tr.	.01			

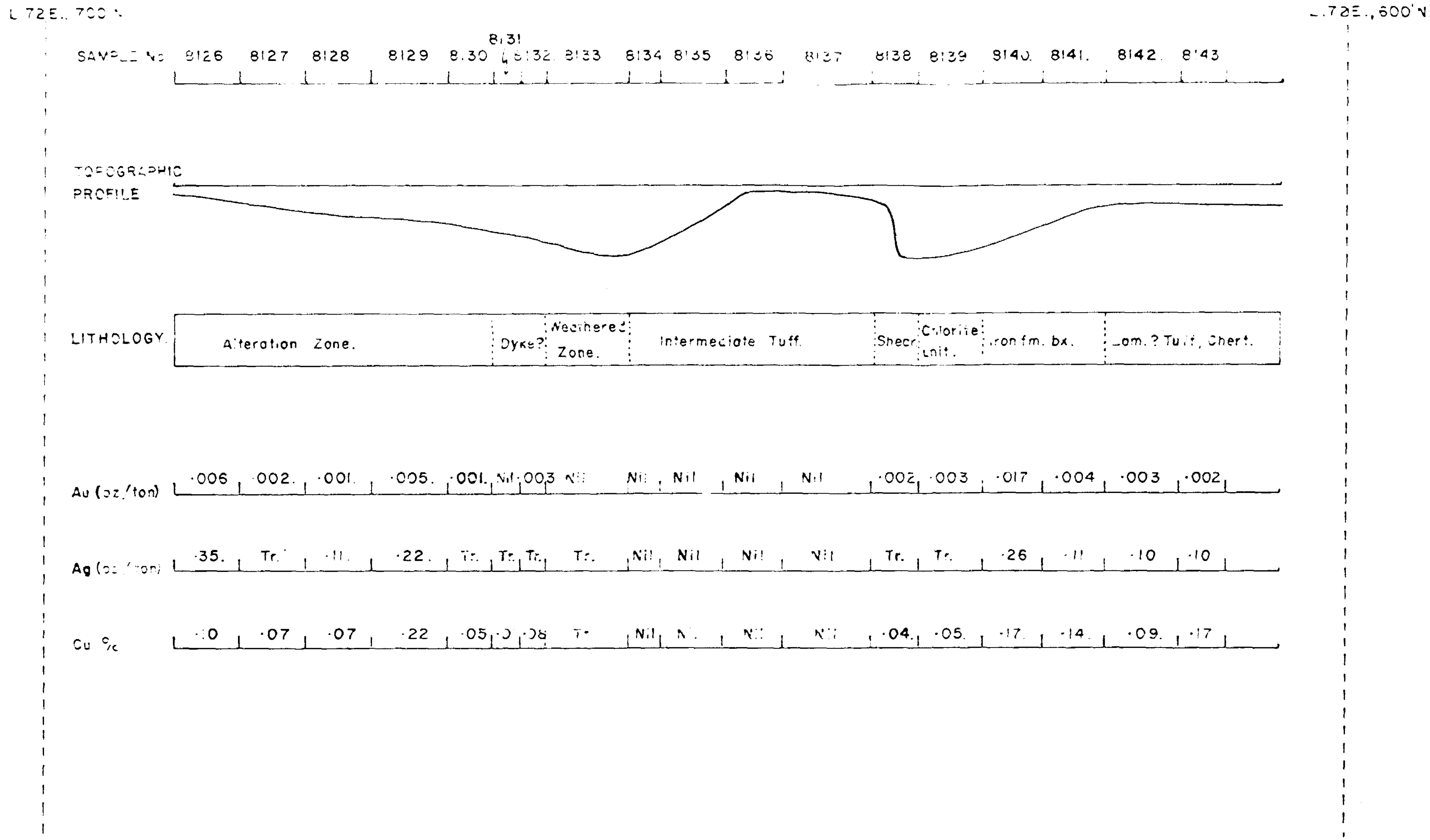


FIGURE 6.

N.B. Pb & Zn assays uniformly low.

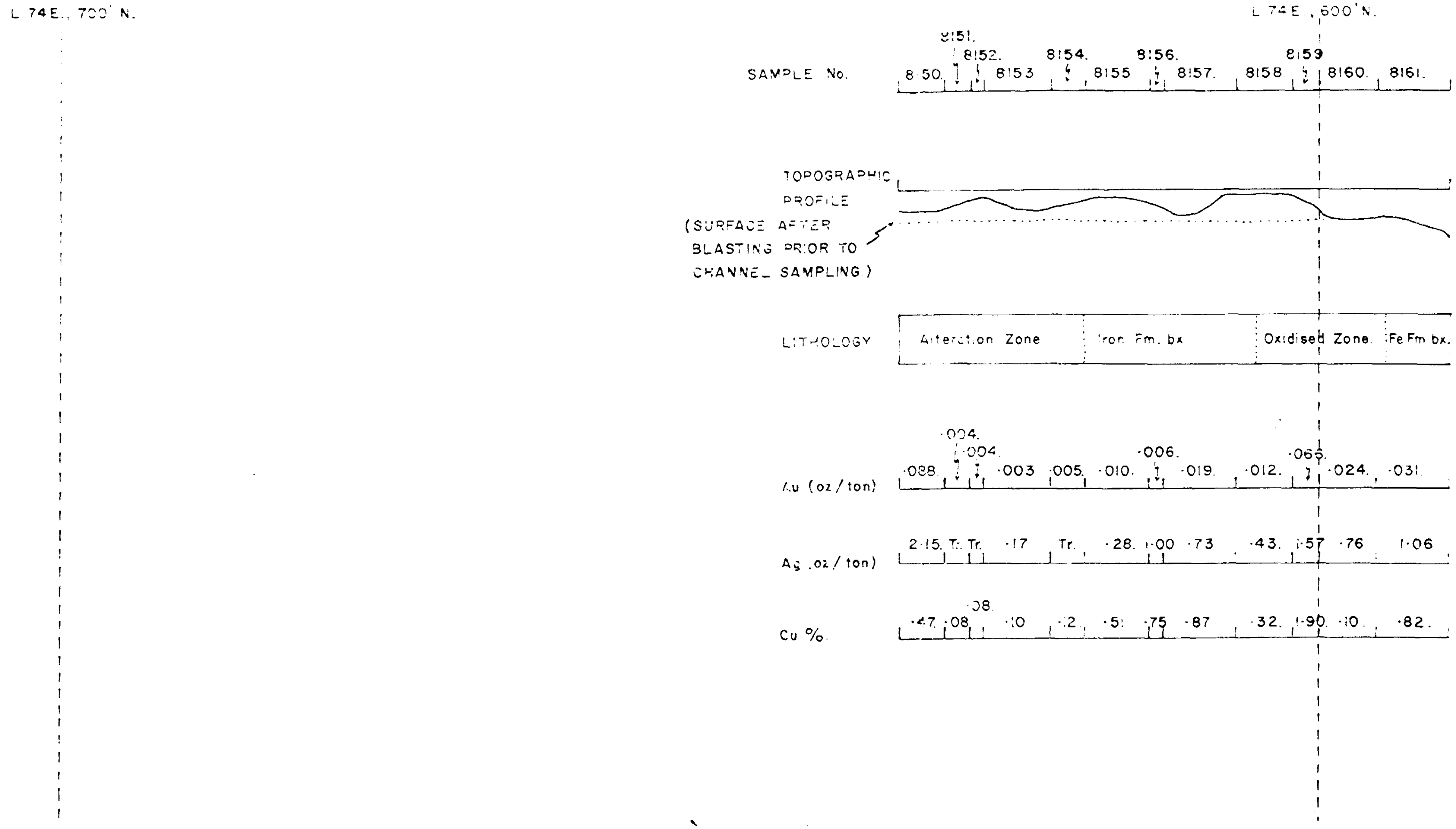
BLUESTACK RESOURCES LIMITED

Red Lake Project, Trenching programme.

TRENCH No. I.

CLAIM No(s). 2206. McDonough Twp., District of Patricia.

SCALE 1:120 (1" = 10')



N.B. Pb & Zn assays uniformly low.

FIGURE 7.

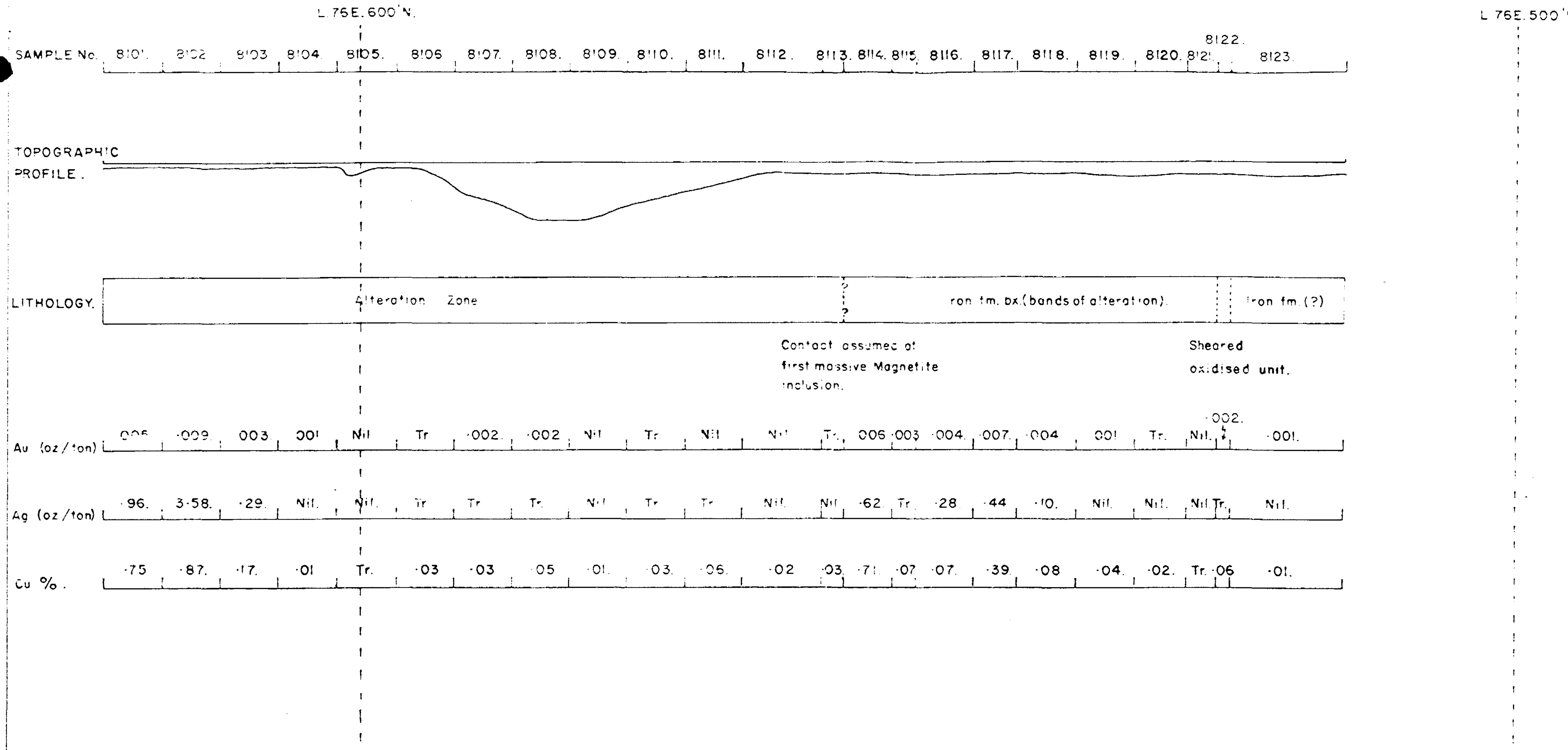
BLUESTACK RESOURCES LIMITED

Red Lake Project, Trenching programme.

TRENCH No. 2.

CLAIM No(s). 2206. McDonough Twp., District of Patricia.

SCALE 1:120 (1" = 10')



N.B. Pb & Zn assays uniformly low.

FIGURE 8.

BLUESTACK RESOURCES LIMITED

Red Lake Project, Trenching programme.

TRENCH No. 3.

CLAIM No(s). 2208. **McDonough Twp., District of Patricia.**

SCALE 1:120 (1" = 10')

X-RAY ASSAY LABO[illegible]

1885 LESLIE STREET, DO[illegible]

52N04NW0018 63.3989 MCDONOUGH TWP

900

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

TO: BLUESTACK RESOURCES LTD.
ATTN: J.M. PATTERSON
500 UNIVERSITY AVE., SUITE 816,
TORONTO, ONTARIO
M5G 1V7

CUSTOMER NO. 35

DATE SUBMITTED
24-NOV-81

REPORT 13634

REF. FILE 9402-C2

53 ROCKS

WERE ANALYSED AS FOLLOWS:

	UNITS	METHOD	DETECTION LIMIT
AU	OZ/TON	FA	0.001
CU	%	XRF	0.010
ZN	%	XRF	0.010
AG	OZ/TON	FA	0.100
WO3	%	XRF	0.010
PB	%	XRF	0.010
30 ELEMENT		.EMS	

X-RAY ASSAY LABORATORIES LIMITED

DATE 09-DEC-81

CERTIFIED BY ....

*** UNLESS INSTRUCTED OTHERWISE WE WILL DISCARD REJECTS ***
30 DAYS AND PULPS 180 DAYS FROM DATE OF THIS REPORT

Trench	SAMPLE	FOOTAGE	AU OZ/TON	CU %	ZN %	AG OZ/TON	WO3 %	PB %
Trench #3	8101	0-5 = 5'	0.005	0.75	0.01	0.96	TRACE	NIL
	8102	5-10 = 5'	0.009	0.87	TRACE	3.58	0.02	TRACE
	8103	10-15 = 5'	0.003	0.17	0.01	0.29	--	NIL
	8104	15-20 = 5'	0.001	0.01	0.01	NIL	--	NIL
	8105	20-25 = 5'	NIL	TRACE	TRACE	NIL	--	NIL
	8106	25-30 = 5'	TRACE	0.03	TRACE	TRACE	--	NIL
	8107	30-35 = 5'	0.002	0.03	TRACE	TRACE	--	TRACE
	8108	35-40 = 5'	0.002	0.05	TRACE	TRACE	--	NIL
	8109	40-45 = 5'	NIL	0.01	TRACE	NIL	--	NIL
	8110	45-50 = 5'	TRACE	0.03	TRACE	TRACE	--	NIL
	8111	50-55 = 5'	NIL	0.06	TRACE	TRACE	--	TRACE
	8112	55-61.6 = 6.6'	NIL	0.02	TRACE	NIL	--	NIL
	8113	61.6-63.3 = 1.7'	TRACE	0.03	TRACE	NIL	--	TRACE
	8114	63.3-67.3 = 4'	0.006	0.71	0.01	0.62	--	TRACE
	8115	67.3-69.5 = 2.2'	0.003	0.07	TRACE	TRACE	--	NIL
	8116	69.5-74.5 = 5'	0.004	0.07	0.01	0.26	--	TRACE
	8117	74.5-78.3 = 3.8'	0.007	0.39	0.01	0.44	--	NIL
	8118	78.3-83.3 = 5'	0.004	0.06	0.01	0.10	--	NIL
	8119	83.3-88.3 = 5'	0.001	0.04	TRACE	NIL	--	TRACE
	8120	88.3-94.0 = 5.7'	TRACE	0.02	TRACE	NIL	--	0.01
	8121	94.0-96.5 = 2.5'	NIL	TRACE	TRACE	NIL	--	NIL
	8122	96.5-97.7 = 1.2'	0.002	0.06	0.01	TRACE	--	TRACE
	8123	97.7-106.9 = 9.2'	0.001	0.01	0.01	NIL	--	TRACE
Trench #1	8126	0-5 = 5'	0.006	0.10	TRACE	0.35	NIL	TRACE
	8127	5-10 = 5'	0.002	0.07	TRACE	TRACE	--	NIL
	8128	10-15 = 5'	0.001	0.07	TRACE	0.11	--	NIL
	8129	15-21 = 6'	0.005	0.22	0.01	0.22	--	NIL
	8130	21-24.6 = 3.6'	0.001	0.05	0.01	TRACE	--	TRACE
	8131	24.6-26.8 = 2.4'	NIL	0.01	TRACE	TRACE	--	TRACE
	8132	26.8-28.6 = 1.8'	0.003	0.08	0.02	TRACE	--	TRACE
	8133	28.6-35.0 = 6.4'	NIL	TRACE	0.01	TRACE	--	NIL
	8134	35.0-37.5 = 2.5'	NIL	NIL	0.01	NIL	--	TRACE
	8135	37.5-42.5 = 5'	NIL	NIL	0.01	NIL	--	TRACE
	8136	42.5-46.9 = 4.4'	NIL	NIL	0.01	NIL	--	NIL
	8137	46.9-53.5 = 6.6'	NIL	NIL	0.01	NIL	--	NIL
	8138	53.5-57.0 = 3.5'	0.002	0.04	0.01	TRACE	--	TRACE
	8139	57-62 = 5'	0.003	0.05	0.01	TRACE	--	NIL
	8140	62-66.7 = 4.7'	0.017	0.17	0.01	0.26	--	NIL
	8141	66.7-71.5 = 4.8'	0.004	0.14	0.01	0.11	--	NIL
	8142	71.5-77.3 = 5.8'	0.003	0.09	0.01	0.10	--	TRACE
	8143	77.3-80.8 = 3.5'	0.002	0.17	0.01	0.10	--	NIL
Trench #2	8150	0-3.5 = 3.5'	0.088	0.47	0.01	2.15	--	NIL
	8151	3.5-5.7 = 2.2'	0.004	0.06	0.01	TRACE	--	TRACE
	8152	5.7-6.6 = 0.9'	0.004	0.08	0.01	TRACE	--	NIL
	8153	6.6-11.9 = 5.3'	0.003	0.10	0.01	0.17	--	NIL
	8154	11.9-14.9 = 3'	0.005	0.12	0.02	TRACE	--	TRACE
	8155	14.9-20.2 = 5.3'	0.010	0.51	0.01	0.28	--	NIL
	8156	20.2-21.4 = 1.2'	0.005	0.75	TRACE	1.00	--	NIL
	8157	21.4-27 = 5.6'	0.019	0.37	0.02	0.73	--	NIL
	8158	27-31.3 = 4.3'	0.012	0.32	0.01	0.43	--	TRACE
	8159	31.3-33.3 = 2'	0.066	1.90	0.01	1.57	--	TRACE
	8160	33.3-38.1 = 4.8'	0.024	0.10	TRACE	0.76	--	TRACE
	8161	38.1-44.0 = 5.9'	0.031	0.32	0.01	1.06	--	TRACE

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

REPORT 13634 REF. FILE 9402-C2 09-DEC-81

TO: BLUESTACK RESOURCES LTD.
ATTN: J.M. PATTERSON
500 UNIVERSITY AVE., SUITE 816,
TORONTO, ONTARIO
M5G 1V7
53 ROCKS

CUSTOME

DATE SUBMITTED
24-NOV-81

ELEMENT	SENS*	#8102	#8114	ELEMENT	SENS*	#8102	#8114
ANTIMONY	(4)	ND	ND	MANGANESE	(1)	L	L
ARSENIC	(4)	ND	ND	MERCURY	(4)	ND	ND
BERYLLIUM	(2)	ND	ND	MOLYBDENUM	(3)	FT	FT
BISMUTH	(2)	FT	ND	NICKEL	(1)	T	T
CADMIUM	(4)	ND	ND	SILVER	(1)	FT	FT
CERIUM	(5)	ND	ND	TANTALUM	(5)	ND	ND
NIOBIUM	(4)	ND	ND	THORIUM	(3)	ND	ND
CHROMIUM	(4)	TL	T	TIN	(2)	FT	FT
COBALT	(3)	FT	FT	TITANIUM	(2)	FT	FT
COPPER	(1)	LM	LM	TUNGSTEN	(4)	ND	ND
GALLIUM	(2)	FT	FT	URANIUM	(3)	ND	ND
GERMANIUM	(1)	ND	ND	VANADIUM	(2)	FT	FT
IRON	(2)	H	H	YTTRIUM	(3)	ND	ND
LEAD	(2)	FT	FT	ZINC	(4)	ND	ND
LITHIUM	(4)	ND	ND	ZIRCONIUM	(4)	ND	T

LEGEND

KEY TO SYMBOLS

H - 10% PLUS
MH - 5-15%
M - 1-10%
LM - 0.5-5%
L - 0.1-1%
TL - 0.05-0.5%
T - 0.01-0.1%
FT - 0.01% OR LESS
ND - NOT DETECTED

*SENSITIVITY
(LIMIT OF DETECTION)
1 - 0.0005-0.001%
2 - 0.001-0.005%
3 - 0.005-0.01%
4 - 0.01-0.05%
5 - 0.05-0.1%

NOTE: BETTER SENSITIVITIES CAN BE OBTAINED WITH SPECIAL TECHNIQUES, IF AND WHEN REQUIRED.

X-RAY ASSAY LABORATORIES LIMITED

1885 LESLIE STREET, DON MILLS, ONTARIO M3B 3J4

PHONE 416-445-5755 TELEX 06-986947

CERTIFICATE OF ANALYSIS

REPORT 13634 REF. FILE 9402-C2 09-DEC-81

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CUSTOMER

DATE SUBMITTED
24-NOV-81

ELEMENT	SENS*	# 8122	# 8154	ELEMENT	SENS*	# 8122	# 8154
ANTIMONY	(4)	ND	ND	MANGANESE	(1)	L	L
ARSENIC	(4)	ND	ND	MERCURY	(4)	ND	ND
BERYLLIUM	(2)	ND	ND	MOLYBDENUM	(3)	FT	FT
BISMUTH	(2)	ND	ND	NICKEL	(1)	FT	FT
CADMIUM	(4)	ND	ND	SILVER	(1)	FT	FT
CERIUM	(5)	ND	ND	TANTALUM	(5)	ND	ND
NIOBIUM	(4)	ND	ND	THORIUM	(3)	ND	ND
CHROMIUM	(4)	TL	T	TIN	(2)	FT	FT
COBALT	(3)	FT	FT	TITANIUM	(2)	L	TL
COPPER	(1)	T	TL	TUNGSTEN	(4)	ND	ND
GALLIUM	(2)	FT	FT	URANIUM	(3)	ND	ND
GERMANIUM	(1)	ND	ND	VANADIUM	(2)	FT	FT
IRON	(2)	M	MH	YTTRIUM	(3)	ND	ND
LEAD	(2)	FT	FT	ZINC	(4)	ND	ND
LITHIUM	(4)	ND	ND	ZIRCONIUM	(4)	ND	ND

LEGEND

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FT - 0.01% OR LESS
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DATE SUBMITTED
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ELEMENT	SENS*	#8160	ELEMENT	SENS*	#8160
ANTIMONY	(4)	ND	MANGANESE	(1)	L
ARSENIC	(4)	ND	MERCURY	(4)	ND
BERYLLIUM	(2)	ND	MOLYBDENUM	(3)	FT
BISMUTH	(2)	ND	NICKEL	(1)	FT
CADMIUM	(4)	ND	SILVER	(1)	FT
CERIUM	(5)	ND	TANTALUM	(5)	ND
NIOBIUM	(4)	ND	THORIUM	(3)	ND
CHROMIUM	(4)	TL	TIN	(2)	FT
COBALT	(3)	ND	TITANIUM	(2)	T
COPPER	(1)	TL	TUNGSTEN	(4)	ND
GALLIUM	(2)	FT	URANIUM	(3)	ND
GERMANIUM	(1)	ND	VANADIUM	(2)	FT
IRON	(2)	H	YTTRIUM	(3)	ND
LEAD	(2)	FT	ZINC	(4)	ND
LITHIUM	(4)	ND	ZIRCONIUM	(4)	T

LEGEND

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(LIMIT OF DETECTION)
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5 - 0.05-0.1%

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OM81-1-C-11

THIS SUBMITTAL CONSISTED OF VARIOUS REPORTS, SOME OF WHICH HAVE BEEN CULLED FROM THIS FILE. THE CULLED MATERIAL HAD BEEN PREVIOUSLY SUBMITTED UNDER THE FOLLOWING RECORD SERIES (THE DOCUMENTS CAN BE VIEWED IN THESE SERIES):

Report on the EM and MAG Surveys (Oct./81) → EM: Toronto file # 2.4703
MAG: Toronto file # 2.4246