REPORT

ON THE

PACIFIC EASTERN PROPERTY

OF

MONITOR RESOURCES LTD.

BRIDGE RIVER, B.C.

92J 15/W

LILLOOET MINING DIVISION

BY

W.R. BACON, PhD., P.ENG.

TABLE OF CONTENTS

	PAGE
SUMMARY	. 1
INTRODUCTION	. 2
LOCATION AND ACCESS	. 2
CLAIM STATUS	. 2
GENERAL FEATURES	. 3
BRALORNE - PIONEER GEOLOGY	. 8
PACIFIC EASTERN	. 10
RECOMMENDATIONS	. 11
COST ESTIMATE	. 12
BIBLIOGRAPHY	13
CERTIFICATE	14

ILLUSTRATIONS

FIG. 1	PACIFIC EASTERN CROWN GRANTS
	SCALE 1 - 31,000 In envelope at back
FIG. 2	PACIFIC EASTERN PLAN VIEW OF
	520 LEVEL In envelope at back
FIG. 3	PACIFIC EASTERN CROSS -
	SECTION In envelope at back

SUMMARY

The essential features of the Bridge River mining camp, which to all intents and purposes, consisted of the Bralorne and Pioneer mines, are described briefly to provide a context for consideration of the adjoining Pacific Eastern property.

The most relevant economic fact is that the Bralorne and Pioneer mines jointly contained the best gold veins ever found in British Columbia. Production amounted to 4,154,119 oz. of gold (and 950,510 oz. of silver).

The most relevant geological fact concerns the Bralorne-Pioneer ore environment. It is bounded on the southwest by the Cadwallader "Break" and on the northeast by the Fergusson thrust-readily identifiable features on the Pacific Eastern property.

Other geological facts of prime significance concern certain rock types, particularly the soda granite. Although this distinctive rock type in itself is not a great host rock, it is a fact that it commonly occurs in sizeable masses where the quartz veins are most productive.

The best host rocks at Bralorne and Pioneer were the diorite and greenstone respectively.

Much exploration was done on the Pacific Eastern property during the 1930's and 40's and this included extensive underground work. A large percentage of this work, however, was done beyond the boundaries of the ore environment referred to above.

Now, a 3750 mater surface drilling program (6 steep, relatively deep holes) is proposed to test the ore environment on the Pacific Eastern property, adjacent to Proneer.

INTRODUCTION

The Pacific Eastern property adjoins the Pioneer Mine on the southeast. Nothing of economic significance has been found on the Pacific Eastern and nothing of consequence has been done on the property in the past 30 years.

The rapidly rising price of gold in the last 5 years caused Bema Industries Ltd. in the person of Mr. Rick Barclay to research Pacific Eastern and, later, to familiarize the writer with the data he had acquired from his research. Partly as a result of this and partly because of some familiarity with Bridge River geology, the writer considered that a drill program was justified - to intermediate depths within the ore environment.

Hence this report.

LOCATION and ACCESS

(see Figure 1)

The Bridge River gold camp (Bralorne, Pioneer and adjoining Pacific Eastern) is on Cadwallader Creek, a northwesterly flowing tributary of the Hurley River which, in turn, is a tributary of the Bridge River which joins the Fraser River just north of Lillooet, a B.C. Railway town.

The camp is accessible by 70 miles of narrow mountainous gravel road constructed west from Lillooet right into the Bralorne townsite. The road has not been kept up beyond Bralorne, i.a. on the Pioneer and Pacific Eastern properties.

CLAIM STATUS

The Pacific Eastern property is now owned by J.T.M. Enterprises Limited of Vancouver, B.C. and B.R.H. Investments Limited of Langley, B.C.

The property consists entirely of crown granted mineral claims, 54 full size claims and 27 fractional claims that extend along Cadwallader Creek valley for more than 7.5 kilometers (see Table pages $4,5,6\,$ & 7).

GENERAL FEATURES

Cadwallader Creek flows through typical Coast Mountain terrain. It is deeply incised in the Pacific Eastern property where elevations range from 1200 meters to 1500 meters above sea level.

The Creek valley is filled with glacial drift and alluvium across widths of as much as 500 meters and, in the area of the old Pacific Eastern workings, to a depth of more than 60 meters. This is a feature that was not encountered at Bralorne and only to a minor extent at Pioneer.

The valley slopes are still tree covered and traversed by eight (8) well incised, tributary creeks on the Pacific Eastern property.

PACIFIC EASTERN CLAIMS

MINING DIVISION and				KAMLOOF	S L.R.O.
LAND DISTRICT	FOLIO	LOT NO.	CLAIM DESCRIPTION		of T.
Lillooet	32328	6165(tha yellow o	t part Mix No. l n B4703)	70946F	111011E
11	32069	5588	Plutus No. 6	68842F	10E
11	32700	5807	Dan Tucker No. 7	68398F	10E
	32735	5845	East	68598F	10E
"	33359	6172	Alta	68595F	11E
11	33359	6173	Zenith	68594F	11E
11	33359	6202	Chism A Fraction	68850F	llE
"	33359	2162	Al Fraction	68857F	11E
u	32735	5837	EPU No. 4	68849F	10E
а	32700	5836	EPU No. 3 Fraction	68848F	10E
11	32603	5801	Dan Tucker No. 3	68847F	10E
**	33359	2164	Don Fraction	68840F	10E
***	33359	2163	Hyatt Fraction	68838F	11E
11	31909	5559	Bess	61693F	llE
II.	31909	5570	Pioneer Extension No. 3	61693F	llE
tt.	33359	648	McKinley	60587F	llE
11	32735	5835	EPU No. 2	68403F	10E
•	32735	5838	EPU No. 5	68404F	10E
"	32735	5840	Rex	68405F	10E
"	32735	5839	EPU No. 6	68406F	10E
n	32735	5841	EPU No. 7	68407F	10E
41	32700	5662	Undershot Fraction	68603F	11E
11	32700	5663	Mix Fraction	68602F	11E

PACIFIC EASTERN CLAIMS (cont'd)

MINING DIVISION and	!			KAMLOOPS L	.R.O.
LAND DISTRICT	FOLIO	LOT NO.	CLAIM DESCRIPTION	C. of	
Lillooet	32700	5664	Odd Fraction	68601F	11E
11	32700	5833	EPU	68600F	10E
**	32700	5834	EPU No. 1	68599F	10E
11	32638	5806	Dan Tucker No. 6	68397F	10E
u	32638	5808	Dan Tucker No. 8	68399F	10E
u	32638	5809	Dan Tucker Fraction	68400F	10E
n	32638	5811	Close Fraction	68401F	10E
tr	32638	5812	Close A Fraction	68402F	10E
n	32638	5802	Dan Tucker No. 4	68395F	10E
**	32638	5803	Dan Tucker No. 5	68396F	10E
***	32603	5800	Chism Fraction	68846F	10E
**	32603	7069	Extra Fraction	68851F	10E
11	32603	7070	PEG No. 1 Fraction	68852F	10E
11	32603	7071	PEG Fraction	68853F	10E
rı .	32603	5661	Gold Field Deep No. 2A	68854F	11E
n	32395	5654	Skull	68392F	10E-
"	32395	5655	Cross Bones	68393F	10E
n	32395	5657	Dan Tucker No. 2	68394F	10E
11	32395	5653	Plutus Fraction	68844F	10E
tt.	32395	5656	Dan Tucker No. 1	68845F	10E
п	32395	5659	Besance	68605F,	10E
II.	32395	5658	Mac Fraction	68606F	10E
n	32328	6169	Diorite	68619F	10E
11	32328	6174	Jackson Fraction	68593F	11E

PACIFIC EASTERN CLAIMS (cont'd)

MINING DIVISION and				KAMLOOPS I	L.R.O.
LAND DISTRICT	FOLIO	LOT NO.	CLAIM DESCRIPTION	C. of	T.
Lillooet	32328	6170	Augite	68596F	11E
п	32328	6167	Last Fraction	68597F	11E
11	32328	5652	Six Eight Fraction	68391F	10E
11	32328	5651	Foursix Fraction	68855F	10E
п	32131	5569	Twofour Fraction	68856F	10E
11	32131	5565	Justrite	66354F	11E
tt.	32131	5566	Docrite	66355F	11E
п	32131	5567	Jackrite	66356F	11E
н	32131	5563	Pioneer Extension No. 2	68615F	11E
11	32131	5551	Hoover Fraction	67671F	11E
п	32131	5590	Plutus No. 8	68390F	10E
11	32069	5589	Plutus No. 7	68843F	10E
п	32069	5584	Plutus No. 2	68839F	10E
•	32069	5586	Plutus No. 4	68841F	10E
"	32069	5587	Plutus No. 5	68607F	10E
•	32069	5585	Plutus No. 3	68608F	·10E
и	32069	5583	Plutus No. 1	68609F	10E
11	31992	5578	Undershot No. 3	68610F	11E
II.	31992	5577	Undershot No. 2	68611F	11E
11	31992	5576	Undershot No. 1	68612F	11E
tf	31992	5575	Full Measure Fraction	68613F	11E
n	31909	5554	Jefferson	67669F	11E
н	31992	5572	Adams Fraction	67666F	11E

PACIFIC EASTERN CLAIMS (cont'd)

MINING DIVISION and LAND DISTRICT	FOLIO	LOT NO.	CLAIM DESCRIPTION	KAMLOOPS L	
Lillooet	31992	5574	Overdraft Fraction	66357F	11E
11	31992	5552	Roosevelt	67672F	11E
11	31950	5568	Pioneer Extension No. 1	68614F	llE
"	31909	5560	Pioneer Extension	66353F	11E
н	31909	5557	Lincoln	68618F	llE
11	31909	5558	Bryan	68617F	11E
**	31909	5556	Cleveland	67667F	11E
11	31909	5553	Garfield	67670F	11E
11	31909	5555	Washington	67668F	11E
н	31909	5561 Pi	oneer Extension Fraction	68616F	11E
п	32603	5660 (exc.Pl. B 4703 l	Nomad No. 5	68604F	10E

BRALORNE - PIONEER GEOLOGY

As shown in the Table of Formations, (page 9) the bedrock of the Bridge River camp consists of sediments and volcanics of Paleozoic and Triassic - Jurassic age. They are tightly folded along steeply dipping axes that strike 5 N 60°E, i.e. parallel to Cadwallader Creek.

The Paleozoic rocks (Fergusson series), consisting of cherts and argillites, are intensely deformed. They border the productive area on the northeast and are separated from it by the Fergusson Thrust.

The Triassic - Jurassic rocks, Hurley - Noel sediments (argillites, tuffs, minor chert) and Pioneer greenstones occur within the productive area as well as to the southwest of it, beyond the Cadwallader "Break" - the most significant structure with respect to the productive gold - quartz veins. The Pioneer greenstone was the principal host rock at the Pioneer mine and the non-argillaceous sediments of the Hurley-Noel formation were moderately favourable.

The Bralorne diorite occurs in irregular stocklike masses along the Cadwallader "Break" and is the principal host rock at the Bralorne mine. The rock is fine - to coarse - grained and appears to grade into the Pioneer greenstone as well as intrude it. Inevitably, geologists have speculated a close genetic relationship between these two principal host rocks.

The productive environment of the Bralorne and Pioneer mines trends parallel to sub-parallel to Cadwallader Creek. The northeast boundary is the Fergusson thrust (see above) which dips steeply northeast (+75 degrees). The southwest boundary is the Cadwallader "Break", a strong shear zone that is 15 - 100 meters wide and is characterized by a marked development of serpentine. This shear dips steeply southwest.

From the foregoing paragraph, it is obvious that, on Bralorne and Pioneer ground, the ore environment widens with depth. Moreover, it is very noteworthy that some of Bralorne's best ore is at the very bottom of the mine, 1850 meters below the surface, where it remains to this day.

TABLE OF FORMATIONS

ERA	PERIOD	FORMATION	LITHOLOGY
Cenozoic	Modern		Recent: stream deposits, volcanic ash, rock slides. Pleistocene: fluvioglacial, glacial and stream deposits.
Cenozoic and	Post Lower Cretaceous		Lamprophyre dykes
Mesozoic		Bender intrusives	Granodiorite and related dykes
			Albitite dykes
Mesozoic	Jurassic?	serpentine	Serpentine
		Bralorne intrusives	Soda granite Augite-diorite
		Hurley group	Sediments: argillaceous, tuffaceous and limy
	Triassic	Pioneer formation	Greenstone lavas
		Noel formation	Sediments: argillaceous and tuffaceous
Palaeo- zoic	Pennsyl- vanian to Permian	Fergusson group	Cherty sediments and some lavas

Within the ore environment is a large, dyke-like mass of soda granite that outcrops only on the Bralorne - Pioneer gound. The soda granite is not a particularly good host rock but its significance, orewise, has been recognized from the earliest days of the camp.

This dissertation on Bralorne - Pioneer is extremely brief because our concern is the potential of Pacific Eastern, the extensive ground southeast of Pioneer. Nevertheless, three very important points have been made herein which bear repeating because of their probable application to Pacific Eastern as well:-

- The ore environment is bounded by the Cadwallader "Break" and the Fergusson Thrust.
- Special attention should be given any area where soda granite is encountered in substantial quantity.
- 3. The best host rocks at Bralorne and Pioneer were the diorite and greenstone respectively.

PACIFIC EASTERN (see Figures 2,3)

Bema Industries Limited made a painstaking search of private and public sources for information on this property which was actively explored for a number of years before and after World War II.

Most of the very extensive exploratory work was done at the northwest end of the property (Pioneer Extension claim group), adjacent to the Pioneer mine. This work included shaft sinking (180 meters), cross-cutting (1350 meters) on the 520 level, drifting (approximately 1220 meters) and winzeing (70 meters).

Underground drilling was done as was surface drilling and quartz veining was reported principally in Pioneer greenstone. The best vein found appears to have been that on which the winze was sunk to the 690 level where 70 meters of drifting was carried out. In the West Drift, at the top of the winze, a shoot 27 meters long was reported to average 0.58 oz. gold per ton across an average width of 0.4 meters. Free gold was not uncommon.

About 2 kilometers southeast of the shaft area, a surface hole, 5 - 13, is reported to have intersected some soda granite, Bralorne diorite and two veins, one carrying visible gold.

In view of the amount of the work noted above, it might be considered that no more is warranted on the Pacific Eastern. Such a decision ignores the fact that, at today's prices, Bralorne - Pioneer produced \$1.5 billion U.S. in mineral wealth. It also ignores the fact that much of the exploratory work done on Pacific Eastern was done beyond the ore environment as established at Bralorne - Pioneer. In this regard, less than 365 meters of the 1350 meters long 520 level crosscut is in the ore environment, and all the extensive drifting and the winze appear to be southwest of the environment.

RECOMMENDATIONS (see Figure_3)

Although no encouragement was apparently encountered (only barren argillite) in the 520 level crosscut northeast of the Cadwallader "Break", nevertheless this section should be tested further by surface drilling, because this is the Bralorne - Pioneer ore environment (no thoughts, whatsoever, should be entertained re dewatering and rehabilitating the underground workings).

Six (6) steep, surface holes are recommended, two of which are shown on FIGURE 3. Similar two-hole patterns are recommended 130 meters eastward and 260 meters eastward of the one shown on FIGURE 3. (The holes are directed southward because the Bralorne - Pioneer veins dip steeply northward). Thus, the amount of drilling being recommended is 3 : 1250 = 3750 meters.

During the course of this deep drilling program, a geologist should re-appraise the known showings on Plutus and Chism creeks in the southeastern part of the property.

J.B.

COST ESTIMATE

3750 meters of NO-BO surface drilling @ \$100.00 per meter	
Geology, core logging, engine surveying	eering, 15,000.00
Geological compilation and reporting	5,000.00
	SUBTOTAL \$395.000.00
	10% contingency
	39,500.00
	TOTAL \$434,500.00

The drilling could be completed in 4 - 5 months. Camp, logistical support and drill site preparation are included in the surface diamond drilling estimate.

Respectfully submitted,

W.R. Bacon, PhD., P.Eng.

CERTIFICATE

I, William R. Bacon, of Ganges, B.C. DO HEREBY CERTIFY THAT: -

- 1. I am a consulting geological engineer, registered with the Association of Professional Engineers of British Columbia since 1950.
- 2. I am a graduate of the University of British Columbia with B.A. Sc(1939) and M.A. Sc(1942) degrees in Geological Engineering.
- 3. I am a graduate of the University of Toronto with a PhD. degree (1952) in Economic Geology.
- 4. During the past 40 years I have been engaged in economic geology and the search for mineral deposits in North America, South America, Australia, Asia and Europe.
- 5. In 1973, my consulting firm, Bacon & Crowhurst Ltd., was retained by Bralorne Resources Limited to assess the practicability of rehabilitating Bralorne Pioneer, the most productive gold mining operation in B.C. history. Pacific Eastern is adjacent to Bralorne Pioneer.
- I have no interest in the Pacific Eastern property or in Monitor Resources Ltd. nor do I intend to acquire any.

BIBLIOGRAPHY

- 1. Cairnes, C.E. (1937) Geology and Mineral Deposits of Bridge River Mining Camp, B.C., G.S.C. MEM 213.
- 2. Joubin, F.R. (1948)

 Bralorne and Pioneer Mines:
 Structural Geology of Canadian
 Ore Deposits, CIM Spec. Vol.
 pp. 168 177.
- 3. Bacon W.R. (1978) Lode Gold Deposits in Western Canada = CIM BULL. Vol. 71, No. 795, pp. 96 104.
- 4. Barclay, R.J. (1979) Geological Compilation of the (Bema Industries Ltd.) Pacific Eastern Crown Granted Claims, Bralorne, B.C. (Unpublished report for Monitor Resources Limited).

CERTIFICATE

I, William R. Bacon, of Ganges, B.C. DO HEREBY CERTIFY THAT: -

- 1. I am a consulting geological engineer, registered with the Association of Professional Engineers of British Columbia since 1950.
- 2. I am a graduate of the University of British Columbia with B.A. Sc(1939) and M.A. Sc(1942) degrees in Geological Engineering.
- 3. I am a graduate of the University of Toronto with a PhD. degree (1952) in Economic Geology.
- 4. During the past 40 years I have been engaged in economic geology and the search for mineral deposits in North America, South America, Australia, Asia and Europe.
- 5. In 1973, my consulting firm, Bacon & Crowhurst Ltd., was retained by Bralorne Resources Limited to assess the practicability of rehabilitating Bralorne Pioneer, the most productive gold mining operation in B.C. history. Pacific Eastern is adjacent to Bralorne Pioneer.
- 6. I have no interest in the Pacific Eastern property or in Monitor Resources Ltd. nor do I intend to acquire any.

Montacro, P. Eng.

COST ESTIMATE

3750 meters of NQ-BQ surface d drilling @ $$100.00$ per meter .	iamond\$375,000.00
Geology, core logging, enginee surveying	ring, 15,000.00
Geological compilation and reporting	5,000.00
	SUBTOTAL \$395.000.00
	10% contingency
	39,500.00
	TOTAL \$434,500.00

The drilling could be completed in 4 - 5 months. Camp, logistical support and drill site preparation are included in the surface diamond drilling estimate.

Respectfully submitted,

W.R. Bacon, PhD., P.Eng.