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SUMMARY REPORT, BARRY LAKE PROJECT

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Énergie et Ressources
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Québec 

S U M M A R Y R E P O R T

Volume I

BARRY LAKE PROJECT

BARRY LAKE AREA, QUEBEC

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INTRODUCTION

Compilation studies in 1975 by Shell Canada Resources Limited for the Barry Lake area, situated 80 miles southwest of Chibougamau between Souart and Balete Townships, indicated very limited modern mineral exploration. In September 1975 a geological reconnaissance survey by H. Hodge and others evaluated known base and precious metal showings and felsic volcanic rock exposures within this belt. The environment was judged favourable to the occurrence of volcanogenic massive sulphide deposits and it was decided to complete a systematic base metal exploration program in the area (Hodge, 1975). Subsequently an A.E.M. survey of 3,300 line-miles covering approximately 375 square miles was flown by Kenting in September-October 1975 (Stemp, 1975). Initial staking following the A.E.M. survey was carried out in October and November 1975 and consisted of 740 claims. Recommendations by M.E. Best and J. McGilvary (1975) led to the selection of 43 A.E.M. anomalies for follow-up ground geophysical surveys which necessitated a total of 159 line-miles of data generation. The work, contracted to Prospecting Geophysics Limited was performed during February and March 1976 at which time an additional 95 claims were staked to complete the coverage of the selected areas. These are a total of 835 claims in 60 blocks.

The summer program for 1976 involved detailed geological mapping of the grid areas and regional geological mapping of the entire meta-volcano-sedimentary belt between Souart and Balete Townships. A previously

unrecognized felsic tuff and breccia unit was identified in the north central portion of the belt immediately north of the A.E.M. survey area. On the basis of the favourable geology McAuslan (1976) recommended an Input survey of 1,520 line-km covering approximately 385 square km. This survey was flown by Questor (deCarle 1976) in November 1976 over the area herein called Barry North.

Based on recommendations by McGilvary (1976) and 1976 mapping data, D. McAuslan selected 23 of the 43 ground detailed A.E.M. anomalies for follow-up diamond drilling. The drilling program extended from January 24 to March 10 and totalled 25 drill holes comprising 8,153 feet the results of which are contained in this report.

LOCATION AND PROPERTY

The Barry Lake area is approximately 8 - 10 miles wide and 50 miles long covering some 450 square miles. (see Figure 1). The area straddles the 49th parallel from 74°50' longitude to approximately 75°50' longitude. The centre of the area is located mid-way between Senneterre and Chibougamau, and is a distance of 80 miles to each. Lebel-sur-Quevillon, the nearest village, lies 65 miles directly west of the area.

Sufficient assessment was filed with the Q.D.N.R. on October 15, 1976 to keep all Barry claims in good standing for a period of one year from the date of staking. Details of current status of all Barry Project claims can be found in Appendix I at the end of this report.

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES

There exists no road access into the area at the present time. The area is situated 40 miles S.E. of the main Senneterre-Chibougamau highway and adjacent C.N.R. railroad. Recent logging roads connect Chapais with Windy Lake, a large lake located 45 miles N.W. of the present area. A four hundred foot wide hydro transmission line, originating from the L.G. 2 site on the La Grande River and terminating in Montreal, cuts north south through the Project area near the east shore of Barry Lake.

The area is readily accessible year round by helicopter (from Chibougamau and Val D'Or) or by fixed-wing pontoon equipped aircraft (from Chibougamau and Senneterre) from late May to mid October.

The western portion of the area is topographically featureless. Rivers are strongly meandering and lakes are generally large and shallow. Black spruce are sparsely distributed in the muskeg terrains which abound. Elsewhere, these trees sustain a moderately dense population and good size. In contrast, the eastern half of the area is characterized by gently rolling hills (relief 200-300'), smaller and less numerous lakes and a thick uniform population of black spruce, balsam fir, aspen and white birch. The spruce bud worm has inflicted light to moderate damage to all coniferous species in the area.

Overburden generally averages 30 feet to 40 feet in thickness and consists primarily of glacial moraine material, i.e., sand, gravel and boulders. Eskers, drumlins and glacial ridges display a south-south west orientation. Lacustrine clays appear to be not developed.

PREVIOUS WORK

The Barry Lake area has been the site of gold prospecting since at least the early 1930's. Considerable stripping and trenching but very limited ground geophysical work was done in the Rouleau Lake, Chanceux Lake, north shore Otter Lake and Macho River areas during these early stages of exploration. For locations mentioned in this section and in following sections, the reader is referred to the compilation geological map at a scale of 1" = 1 mile which is in the pocket at the end of Volume I.

The Quebec Department of Mines mapped the western and central portions of the area in 1939 (Freeman and Milner, 1939) and the eastern most section in 1967 (Remick, 1967) at a scale of 1" = 1 mile.

The gossaneous areas associated with the Rouleau Lake rhyolites, (South shore) were trenched and assayed in 1938-1939. Of the fourteen assays filed with the Q.D.N.R., five returned no gold values while the others indicated values ranging from 0.05 to 0.5 oz per ton Au/5' with a best assay value of 0.095 oz per ton Au/34'. The area was re-examined in 1947 and further sampling of trench material in carbonated rhyolites (north shore Rouleau Lake) gave returns ranging from 0.06 to 0.08 oz per ton Au/5' with a best single value of 0.35 oz per ton Au/2.2'. The latter material originated from a qtz vein-carbonatized rhyolite zone averaging

2' wide and exposed over 55' along strike.

In 1958 Amax Exploration Limited flew a Rio-Mullard A.E.M. system over that portion of the volcanic belt extending from the Grenville Front to Quevillon Lake. The survey detected a number of conductors within the Barry area but follow up drilling was not extensive. Records of four shallow drill holes (80' to 130') in the Otter and La Croix Lake areas indicate seams of massive pyrite and pyrrhotite in mafic tuffs and graphitic sediments as being the cause of the conductive zones. Limited drilling was renewed in 1964-1965 by the same company in the area south of La Croix Lake where the only available drill log indicates a 150' hole intersecting a 25' section of semi-massive pyrite, pyrrhotite and some graphite in sheared mafic tuffs.

Extensive gold exploration efforts by Roybar Uranium & Gold Mines Limited (1949-1950) consisted of 30 to 40 diamond drill holes totalling 5,000 to 6,000' and a subsequent 144' deep exploration shaft put down west of Otter Lake approximately 1 mile south of Shell Canada's grid 13. A single drift was worked and abandoned after several hundred feet of lateral work was completed. The gold zone, as delineated by the diamond drill hole data would appear to be a quartz vein system zone (in cherty tuffs) varying 3' to 10' in width and traced to a length of 900' with gold values ranging from nil to 1.16 oz per ton Au and averaging 0.11 Au per ton across 5'. One hole, 15,00' west of the shaft intersected 2.98 oz per ton Au/o.3'. Assays for silver were not taken on any of

these samples. The same area was reworked in 1964-1965 by Gold Master Mines Limited and included ground E.M. and magnetic surveys followed by four 300' to 400' diamond drill holes put down on the east side of the old mine shaft, an area suspected of being the eastern extension of the known gold zone. Only one drill hole intersected any gold mineralization with a return of 0.4 oz Au per ton and 0.6 oz per ton Au/5.5'.

Quebec Smelting & Refining flew a limited area A.E.M. and magnetic survey in 1961 over the old gold-copper showing properties adjacent to the Macho River. Limited shallow follow-up drilling proved inconclusive.

Considerable airborne and ground geophysical surveys and diamond drilling are reported for the period 1958 to 1964 in the area east of the Panache River and immediately north of the preceding area. Available drill logs indicate the majority of the conductors investigated are caused by sterile Fe sulphide bands (iron formations) associated with the meta-sedimentary-volcaniclastic band bordering the northern margin of the belt.

Amax reportedly flew part of Urban Township in 1974 using the Geoterrex A.E.M. system and subsequently staked 4 groups of claims totalling 34. They are known to have done some drilling at least northeast of Rouleau Lake.

Amoco, Falconbridge, Selco and possibly Cominco are known to have carried out some reconnaissance geology in the general Barry Project area just prior to the flying of the A.E.M. survey by Shell Canada Resources.

Other groups of claims held in the area include a 9 claim block (F. Grenier) just west of the old Roybar Uranium property and approximately 85 claims (F.A. Boylan) along the Macho River. The area is otherwise open to staking.

GEOLOGY

The Barry Lake area is situated in the south eastern segment of the Abitibi Greenstone Belt and constitutes the eastern half of the metavolcano-sedimentary belt extending from Lebel sur Quevillon to the Grenville Front. A geological compilation of the area can be found in the pocket at the end of this volume. The main lithological units which underlie the area are as follows.

1. VOLCANIC ROCKS

- a) ULTRAMAFIC VOLCANICS represent perhaps 2-3% of the volcanic rocks and are known to occur in at least two areas near the southern margin of the belt. Spinifex texture, desiccation fractures, and other structures associated with ultramafic flows are present. Serpentinized ultramafic intrusions outcrop S.W. of Narcisse Lake.
- b) MAFIC VOLCANICS (basalts and andesites) underlie 60% to 70% of the western and central portions of the area but occupy only 35% to 45% of the eastern section of the belt. These lavas resemble the typical Archean greenstone except along the northern and southern borders, and eastern extremity of the belt where amphibolites predominate. Massive, pillowed, flow breccia and tuffaceous facies are present.

- c) INTERMEDIATE VOLCANICS (Dacites) constitute approximately 10-15% of the volcanic rocks. The field term 'intermediate' may unavoidably group light coloured (altered) andesites or basalts but less frequently rhyodacites.
- d) FELSIC VOLCANICS (Rhyolites) represent 5-10% of the volcanic assemblage and occur intercalated with the mafic lavas in the median and lateral portions of the belt. The areas of prominent rhyolite exposure include Rouleau Lake in Urban Township, Chanceux Lake in La Croix Township, Fecteau Lake in Buteux Township and Freeman-Rock Island Lakes in L'Espinay Township. The first three areas consist essentially of rhyolite flows with associated rhyolite auto/pyroclastic (?) breccias and rhyolite tuffs over thicknesses varying from 600' to 2,000'. Of significance is the well known gold and Fe sulphide mineralization associated with these volcanics. The Freeman-Rock Island Lake area appears to be underlain by a sequence of felsic tuffs and auto/pyroclastic (?) felsic breccias perhaps 5,000' in thickness and extending laterally over 8 to 9 miles in an easterly direction from Riviere a L'Aigle to the north-south L'Espinay-Bressani Township boundary.

2. SEDIMENTARY ROCKS

- a) GREYWACKE, as defined here implies generally thin bedded epiclastic sediments essentially of volcanic derivation with or without thin interbeds of pelitic epiclastic and/or cherty sediments. A banded, plagioclase-actinolite rock unit (#13 on geological map) is thought to be a metamorphosed equivalent of the volcanic greywacke. These sediments occur mainly in the southwest corner of the map area.
- b) SILICEOUS & PELITIC SEDIMENTS INTERBEDDED WITH MAFIC VOLCANICLASTICS refers to a band (1,000' to 7,000' thick) extending along the northern margin of the belt and consisting of thinly bedded and intercalated epiclastic, chemical sediments and mafic volcanoclastics.

3. INTRUSIVE ROCKS

- a) DIORITE/GABBRO intrusions are of at least two ages. The majority have undergone regional metamorphism to greenschist and less frequently to amphibolite facies. These intrusions are normally massive and homogeneous and contain variable amounts of magnetite. Their magnetic features and field data indicate them to be largely concordant with the stratigraphy. Younger intrusions include fresh gabbros, diorites and the late Proterozoic diabase dikes.
- b) QUARTZ DIORITE/QUARTZ GRANODIORITE are regrouped in include the major rock types in the granitic belts bounding the volcanic sequence to the north and south respectively. These medium to coarse grained rocks may or may not display gneissic banding.
- c) GRANITE/SYENITE are coarse grained felsic intrusions generally younger or contemporaneous with 3b and occur in both the gneissic and volcanic belts.

4. STRONGLY METAMORPHOSED ROCKS

- a) QUARTZ-FELDSPAR-BIOTITE-GARNET-MICROGNEISS dominates along with unit 4B, the eastern extremity of the belt in the area of the Grenville Front. The fine banding, associated biotite schists and presence of such minerals as kyanite and staurolite suggest, to the author, that these rocks are paragneisses.
- b) MIXED GNEISSES include the biotite rich and hornblende rich coarse grained gneiss occurring near the Grenville Front. These may represent (?) highly metamorphosed equivalents of pelitic sediments and mafic volcanics respectively.

STRUCTURE

Major fold axes, as determined essentially from pillow structures in mafic lavas, appear to change from N.E. trending in the western portion of the belt, to E trending in the central portion and back to N.E. trending in the Grenville Front area. Regional folds are tight to isoclinal and appear to be gently plunging for the most part (mesoscopic folds generally display subhorizontal fold axes). Several tectonic deformations on the mesoscopic scale are commonplace. The tectonic history of this Archean volcanic belt appears to be quite typically complex and at least two major phases of folding have occurred. This is suggested by the superposition of a northeast trending schistosity on older east-northeast trending schistosity and also by the structural features of the adjacent Lagrace Lake area (Charre, 1976). Late orogenic deformations including kink folds and micro faulting (particularly evident in the felsic and mafic tuffs) are present throughout the area. The bordering gneiss belts and especially the quartz granodiorite intrusions in them appear to play a significant role in determining the major structural features of the area. For instance, the Souart granodiorite in the west part of the area clearly occupies the core of a major anticlinal structure within the volcanic belt. Little is known of major tectonic breaks or faults which are undoubtedly present in the area. Earlier geological interpretations of N.W. trending fault zones across the Macho River in Souart Township may in fact correspond to major isoclinal fold hinge zones.

INTERPRETATION OF GEOLOGY AND STRUCTURE

The volcanogenic, sedimentary and structural features of this area seem to basically indicate a differentiated (Single (?) cycle) volcanic assemblage of submarine flows, breccias and tuffs with associated sediments, the whole of which occupies a general synclinal structure. The volcanic greywackes underlie, interfinger and may in part overlie the volcanics. The general absence of coarse clastics and abundance of thin beds is generally indicative of the more distal facies sediments. This is particularly true for the northern band of sedimentary-volcaniclastic rocks, part of which are suspected of being derived from the felsic volcanic unit of Barry North.

The base of the volcanic pile is thought to be found near the southern margin of the belt where ultramafic flows outcrop at several localities. These localities may represent, or be proximal to, old volcanic orifices.

The volcanic structures of ultramafic, mafic and intermediate rock types suggest a submarine, essentially deep water environment. A band of strongly vesiculated intermediate lavas extending across 12 miles and underlying the Rouleau rhyolites suggest a phase of shallow water volcanic activity.

Various facies of felsic volcanics outcrop in the Barry area although proximal (coarse) autoclastic and/or pyroclastic rhyolites were not recognized during the 1976 geological mapping. Limited exposure precludes

the detection of any volcanic centre or vent in these areas. The association of nearby ultramafics, as at Barry Lake, could mean the presence of such a vent structure within or close to the rhyolites. The spacial distribution of the Rouleau Lake, Chanceux Lake and Fecteau Lake rhyolites suggests they may belong to the same stratigraphic unit. Further extrapolation could conceivably include the Otter Lake rhyolite tuffs and breccias as the western extension of this unit. Present information does not permit the determination of any structural or stratigraphic relationship between this felsic 'horizon' and other felsic volcanic occurrences in the belt.

The abundance of quartz-feldspathic gneisses in the eastern section of the belt may reflect a deeper level of erosion or essentially a lateral facies change with the metavolcanics to the west.

MINERALIZATION

Essentially three kinds of mineralization have been found to date in the Barry Project area.

1. Gold mineralization in carbonated felsic volcanics
Example: Rouleau Lake.
2. Gold mineralization in quartz veins.
Example: The old Roybar Uranium Property
3. Reported massive sulphide (Cu-Zn) deposits in siliceous, possibly volcanic rocks.
Example: showings in Buteux Township

The Rouleau Lake rhyolites and felsic fragmentals are characterized by zones of intense carbonate alteration with which gold mineralization is associated. The reported gossans result essentially from the weathered Fe-carbonates in these alteration zones. Disseminated Fe-sulphides (2-8%) including coarse grained pyrite, pyrrhotite and arsenopyrite as well as numerous white and blue-grey qtz veins accompany the carbonate zones. The gold assays (1938-1947) proved to be more significant in the sulphide-carbonate rich volcanics than in the qtz veins themselves. Only trace amounts of chalcopyrite were reported in field observations and assay results. A sample taken by Shell Canada in one of the trenches over a gossan returned 0.03 oz per ton Ag and 0.04 oz per ton Au while a sample from a carbonate-chlorite rich rhyolite returned 0.02 oz Ag and 0.6% Zn.

The alteration zones were previously interpreted as being associated with major fault zones. The carbonate rich zones which parallel the stratigraphy are however at an angle to the dominant schistosity of the area. Carbonate facies exhalites might seem a more appropriate model for the given data.

The old Roybar Uranium property is described as being underlain by interbedded greywackes and tuffs. Gold mineralization is associated with a quartz vein system in a band of black rhyolitic tuff. Disseminated pyrite, pyrrhotite, sphalerite, and trace chalcopyrite are also present in the quartz veining system. A quartz vein grab sample taken by H. Hodge from the mine tailings returned 0.15 oz per ton Ag, 0.08 oz per ton Au and 8.52% Zn. Past drilling results indicated the gold mineralization to be intimately associated with the quartz veins. The area was eventually abandoned because of the apparently limited volume of possible ore-grade material.

Several occurrences of massive sulphides (Cu-Zn) showings are reported in Buteux Township including the areas of Claim Lake and Griffith Lake where the sulphides, carrying some chalcopyrite, are apparently associated with siliceous sediments/volcanics. Investigation of these areas did not prove encouraging. Assays taken by Shell Canada of material from old trench areas were uninteresting.

DIAMOND DRILLING

The Barry drilling contract was awarded to Chibougamau Diamond Drilling Limited of Chibougamau because they submitted the lowest bid and were considered capable of performing the job satisfactorily. Details of the location, orientation and length of the twenty five holes which were completed are given in Table I.

All of the diamond drill holes were located to test ground electromagnetic conductors, the majority of which displayed associated magnetic anomalies. Targets were selected on the basis of isolation, magnetic association, location in a conductive formation zone, and favourable volcanic environment. Detailed logs for each hole and corresponding drill sections with their geophysical profiles may be found in Volume II of this report. A summary description of the conductors in each hole along with assay results are presented in Table II. All conductors were satisfactorily explained with the exception of that on grid 74C, and were found to result essentially from stringer Fe-sulphides, graphitic tuffs/sediments or combinations of both, and less frequently by significant bands of massive Fe-sulphides.

Hole number 7515-77-15 intersected a diabase dike throughout most of its length. The diabase contains only very weak quantities of disseminated pyrite. Several sections of intense shearing (rock alteration, fragmented core) cutting through the diabase are tentatively suspected of being the source of the E.M. anomaly.

TABLE I

RESUME OF LOCATIONS AND DEPTHS

FOR BARRY DIAMOND DRILL HOLES

D.D.H. #	Township	Grid	Location	Grid Bearing	Dip (Collar)	O/B + Core = Depth		
7515-77-1	Barry	33	L12E 1+65N	0°	-45°	23	404	427'
7515-77-2	Barry	21	L4E 1+60N	0°	-45°	32	273	305'
7515-77-3	Barry	10	L4E 3+00S	0°	-55°	112	222	334'
7515-77-4	Souart	13	L8E 4+25S	0°	-50°	46	289	335'
7515-77-5	Urban	40	L4E 8+20S	0°	-45°	72	265	337'
7515-77-6	LaCroix	41	L4E 2+90N	180°	-50°	43	263	306'
7515-77-7	Urban	36	LOE 8+50S	180°	-45°	32	275	307'
7515-77-8	Barry	84C	L4E 7+00S	0°	-49°	32	319	351'
7515-77-9	LaCroix	38	L8E 2+00N	180°	-50°	40	270	314'
7515-77-10	LaCroix	39	LOE 2+65S	0°	-50°	44	256	300'
7515-77-11	LaCroix	57	L4E 1+70S	0°	-50°	84	222	306'
7515-77-12	Buteux	74A	L8E 1+60S	0°	-50°	15	464	479'
7515-77-13	Buteux	279A	L8E 0+20S	0°	-50°	22	314	336'
7515-77-14	Buteux	74B	LOE 3+00S	0°	-45°	27	288	315'

TABLE I (con't..)

D.D.H. #	Township	Grid	Location	Grid Bearing	Dip (Collar)	O/B	Core	= Depth
7515-77-15	Buteux	74C	L16E 5+10N	0°	-45°	30	269	299'
7515-77-16	Buteux	77A	L8E 16+50N	180°	-50°	48	194	242'
7515-77-17	Buteux	77B	L16E 6+40S	180°	-45°	30	220	250'
7515-77-18	Butuex- Marceau	96	L8E 2+25S	0°	-45°	62	239	301'
7515-77-19	Marceau	97	L0E 7+60S	0°	-50°	107	193	300'
7515-77-20	Balete	137	L4E 4+80N	0°	-55°	7	293	300'
7515-77-21	Marceau	140	L8E 5+35S	0°	-50°	6	487	493'
7515-77-22	Marceau	128	L24E 27+00S	0°	-50°	26	273	299'
7515-77-23	Marceau	125A	L16E 6+35N	180°	-55°	15	286	301'
7515-77-24	Marceau	125B	L20E 3+00S	180°	-50°	13	279	292'
7515-77-25	Marceau	126	L12E 4+20N	180°	-45°	34	268	302'

RESUME OF LITHOLOGIES, CONDUCTOR EXPLANATIONS, AND SIGNIFICANT ASSAYS FOR BARRY DIAMOND DRILL HOLES

SUMMARY DESCRIPTION OF CONDUCTORS IN BARRY D.D.H.'S					ASSAYS				
D.D.H. (No.)	Conductors	Width of Conductive Zone	Host Rock	Environment	%Cu	%Zn	oz. Ag	oz. Au	WIDTH
1 (131) 7515-77-1	38 Fe Sulphides; Massive Po Stringers Tr CPY	3'	Qtz. Vein	Mafic Lavas	0.73	0.09	0.09	0.	0.6'
2 (121) 7515-77-2	20% Fe Sulphides; Massive Po + Py Beams in Graphitic Tuffs	70'	Mafic Tuffs + Volcaniclastic	Mafic Lavas + Tuffs	*				
3 (13) 7515-77-3	2-4% Fe Sulphides; Massive Po & Py in Hair- line seams	30'	Mafic & Felsic Tuffs	Mafic & Felsic Tuffs	0.05	0.13			4.7'
4 (13) 7515-77-4	10-15% Fe Sulphides; 1-2cm Bands of massive Po & Py, minor SP, ASP, TR CPY	40'	Sheared Mafic Tuffs & Lavas	Sheared Mafic Volcanics	0.12 0.35	0.84 0.01	0.35 15.4	0.145 12.8	4.4' 3.2' 0.7' 5.0'
5 (40) 7515-77-5	10-15% Fe Sulphides; Seams of Massive Po & Py in Graphitic Tuffs	30'	Graphitic Tuffs	Mafic Volcanics	0.15 0.4 0.13	0.34 1.08 0.66	0.09 0.25 0.11		3.5' 2.9' 4.6' 5.0'
6 (41) 7515-77-6	10% Fe Sulphides; Hairline Seams of Massive Po & Py	15'	Sheared Mafic Tuffs	Mafic Volcanics adjacent to Felsic Volcanics	0.05 0.19	0.16 0.36	0.09 0.12		5.0' 2.7'
7 (36) 7515-77-7	5-10% Fe Sulphides; 1-4cm Bands of Massive Po & Py, minor SP, TR, CPY	15'	Volcanic Greywacke	Mafic Tuffs & Sediments					
8 (84C) 7515-77-8	10-12% Fe Sulphides; 2-3cm Bands of Semi-Massive to massive Po	10'	Sheared Mafic Volcanics	Sheared Mafic Volcanics					
9 (38) 7515-77-9	5-10% Fe Sulphides; Seams of Semi-Massive Py & Po	100'	Intern Lavas & Tuffs	Silicified Mafic Volcanics					
10 (39) 7515-77-10	10-15% Fe Sulphides; 2-3cm Bands of Semi-Massive to Massive Po	65'	Felsic Flows & Breccias	Intern & Felsic Volcanics					
11 (57) 7515-77-11	10-12% Fe Sulphides; Abundant Seams & Stringers of massive Po & Py.	20'	Mafic Volcanic- lastic	Greywacke & Mafic Volcaniclastic					
12 (74A) 7515-77-12	15-30% Fe Sulphides; 1-4cm Bands & Several 1-2m wide sections of Semi- Massive to Massive Po, minor Py	275'	Rhyolite Breccia	Felsic Volcanics				0.024 0.055	5.0' 5.0'
13 (279A) 7515-77-13	10-15% Fe Sulphides; 0.3m to 1m Sections of Semi- massive to Massive Po, minor Py	60'	Rhyolite Flows & Breccias	Felsic Volcanics					
14 (74B) 7515-77-14	5-10% Fe Sulphides; 1-4cm Bands & Several 1-2m wide sections of Semi- massive to massive Po, minor Py	120'	Rhyolite Breccia	Felsic Volcanics					
15 (74C) 7515-77-15	Shear Zone (?)	25' ±	Diabase	Diabase in Felsic Volcanic					
16 (77A) 7515-77-16	10-12% Fe Sulphides; Semi-massive Po & Py in bands & stringers	20'	Intern Tuffs(?)	Qtz-Fel Bt Micro-Gneiss	0.06				5.0'
17 (77B) 7515-77-17	5-7% Fe Sulphides; Hairline Seams of Massive Po & Py in Graphitic Sediments	8'	Graphitic Sediments	Mafic & Ultra- mafic (?) Volcanics	0.11 0.09 0.05	0.24 0.17			5.0' 2.6' 1.0'
18 (96) 7515-77-18	20% Fe Sulphides; 5 to 20cm Bands of Massive Po, TR, ASP	10'	Intern Tuff(?)	Qtz-Fel-Bt-Chl Gneiss				0.02	
19 (97) 7515-77-19	4-5% Fe Sulphides; Sulphide Stringers in strongly graphitic biotite schists	150'	Graphite- Bt-Schists	Schists & Qtz- Fel-Bt Gneisses					
20 (137) 7515-77-20	2-5% Fe Sulphides; Po Stringers	1	Hornblende Gneiss	Granodioritic & Hornblende Gneisses					
21 (140) 7515-77-21	10-12% Fe Sulphides; 0.1m to 2m Bands of Semi- massive Po	120'	Qtz Granodiorite Gneiss	Qtz Granodiorite Gneiss					
22 (128) 7515-77-22	4-6% Fe Sulphides; Massive Py seams/minor Po, ASP & SP in Graphitic Schists	80'	Graphite Schists	Qtz-Fel Bt-Al Gneisses		0.07			5.0'
23 (125A) 7515-77-23	3-4% Fe Sulphides; 1-4cm Seams of Po, minor Py, TR, CPY & SP in Graphitic Tuffs	20'	Intern Graphitic Tuff	Metamorphosed Intern Volcanics (?)					
24 (125B) 7515-77-24	3-5% Fe Sulphides; in thin bands	30'	Mafic Tuffs & Volcaniclastic	Metamorphosed Mafic & Intern Volcanics					
25 (126) 7515-77-25	Section of Massive & Semi-massive Po & Py	1.5'	Mafic Tuffs	Metamorphosed Andesite		0.20			2.0'

*BLANK INTERS VALUES <0.05% Cu, <0.05% Zn, <0.07oz Ag, <0.01oz Au

Worthy of mention are the results from diamond drill hole number 7515-77-4 and 7515-77-12. The first, 7515-77-4 intersected a 0.7' wide quartz vein containing 15.4 oz per ton Ag and 12.8 oz per ton Au. The quartz vein is located in sheared mafic tuffs and appears quite analogous to the type of mineralization found immediately to the south on the old Roybar property. This quartz vein occurs in a banded pyrrhotite-arsenopyrite (with lesser sphalente and chalcopryrite) sulphide zone which has a distinct A.E.M. anomaly of 1,200' in length. The second, 7515-77-12 intersected 275' of 15% to 30% pyrrhotite and pyrite. Although assay results showed no copper mineralization, the intersection is significant in that massive sulphides are seen to occur in felsic fragmental volcanics. The environment, including a zone of black chlorite alteration and a cross-cutting diabase dike, is similar to a classic volcanogenic massive sulphide deposit.

CONCLUSIONS AND RECOMMENDATIONS

Shell Canada's initial drilling program did not detect any base metal mineralization of ore grade value. The diamond drill hole data did however provide additional geological information pertaining to the stratigraphy of the volcanic belt and more importantly, proved the existence of stratabound massive sulphides in association with felsic fragmental volcanics. Integrated with field work previously completed, specific conclusions of importance which can be drawn are as follows:

1. Indication of Au mineralization in a quartz vein within a banded sulphide conductor in the drill hole on grid 13.
2. Recognition of a horizon of felsic pyroclastics extending from the northwest shore of Otter Lake to Rouleau Lake and possibly continuing on to Chanceux Lake.
3. Recognition of a geological environment in the Fecteau Lake area which is permissive for volcanogenic massive sulphide deposits.
4. Indications of generally paragneissic environment in the Narisse Lake and Augusta Lake (Grenville terrain) areas.

TABLE III

RECOMMENDATIONS FOR FURTHER WORK WITHIN THE BARRY PROJECT AREA

Area (west to east)	Justification for further work	Staking	RECOMMENDED WORK			
			Geological and/or geochemical surveys to be completed in 1977	Geophysical surveys to be completed in 1977	Diamond drilling to be completed in 1978	Estimated cost of recommended work
Grid 12	Area of this grid may be the western extension of Rouleau rhyolites, barren sulphides in rhyolite tuff-breccia are known along the NW shore of Otter Lake.	-	-	HEM with 600' coil spacing to test for a deep conductor.	contingent on geophysics, one hole would be sufficient.	\$ 1,000.00 def. \$ 8,000.00 cont.
Grid 13	Drilling to define the extent of Au mineralization obtained in 7515-77-4	-	Esker prospecting	HEM 200' either side of 7515-77-4.	three holes, one below 7515-77-4 and one 200' to each side.	\$25,000.00 def.
Grid 22	East of Rouleau Lake, justification as Grid 12	-	-	As Grid 12	As Grid 12	> 600.00 def. \$ 8,700.00 cont.
AEM 23 (1)	Eastern extension of Rouleau Lake rhyolites. The area of interest is at T-157, 158 where a short conductor parallels the main formational conductor.	4 claims	geological mapping	HEM with 300' coil spacing, two frequencies.	contingent on geophysics and geology, one hole would be sufficient. (4)	\$ 2,300.00 def. \$ 6,100.00 cont.
AEM 37	An isolated AEM which probably is on the same horizon as Grids 36 and 47. Felsic volcanics are present at both these latter locations.	6 claims	geological mapping	HEM (3) with 300' coil spacing, two frequencies.	contingent on geophysics and geology, one hole would be sufficient. (4)	\$ 3,000.00 def. \$ 8,100.00 cont.
Grid 47	An excellent HEM (isolated) associated with felsic volcanics but records and indicate old drilling in vicinity.	-	field check to determine position of old drilling relative to the HEM	-	contingent on field examination, one hole would be sufficient.	\$ 400.00 def. \$ 2,100.00 cont.
Grid 55	A weak HEM located on this grid is on strike with pyritic felsic volcanics at Chauceux Lake.	-	-	HEM with 600' coil spacing to test for a deep conductor on lines adjacent to SE	contingent on geophysics, one hole would be sufficient	\$ 600.00 def. \$ 8,700.00 cont.
Lacroix Lake magnetic	An elliptical strong magnetic anomaly 3x5 miles in size is present immediately west of Lacroix Lake. There is no outcrop in the area.	contingent on results of following work	esker sampling with emphasis on evidence of an alkaline intrusive with oxide mineralization.	magnetometer profiling	contingent on field examination and not budgeted for in this table.	\$ 2,000.00 def. \$ 4,000.00 cont. (2)
Grid 74	DDH 7515-77-12 on this grid intersected extensive Po & Py mineralization in a geological environment permissive for massive sulphide deposits and DDH 7515-77-15 was intended to test an adjacent anomaly. This hole was apparently drilled in a gabbroic dike and should be re-drilled.	-	-	-	hole location: 16%, S+00N, grid N, -500, 300'	\$ 8,100.00 def.
AEM 75	Isolated AEM response which could be east of and on the same horizon as the Pecteau Lake felsic volcanic	-	geological mapping	HEM with 300' coil spacing, two frequencies.	contingent on geophysics and geology, probably one hole would be sufficient. (4)	\$ 2,200.00 def. \$ 8,100.00 cont.
AEM 73	Two short AEM's close to and parallel to the major AEM 73 zone. These zones are east of and could be the same horizon as the Pecteau Lake rhyolites.	-	geological mapping	HEM with 300' coil spacing, two frequencies, anomalies to be covered are on lines T-294 to 297 inc.	contingent on geophysics and geology, probably two holes would be sufficient (4) but one hole only.	\$ 3,000.00 def. \$ 16,200.00 cont.
AEM 101	Isolated AEM at contact between ultramafic flows and felsic volcanics, an untested horizon in the area.	3 claims	geological mapping	HEM with 300' coil spacing two frequencies.	contingent on geophysics and geology, probably one hole would be sufficient. (4)	\$ 2,500.00 def. \$ 8,100.00 cont.

NOTES

- (1) for location of these zones, see Stemp (1975).
- (2) claim staking.
- (3) whenever HEM with 300' coil spacing is recommended, ground magnetics will also be measured.
- (4) indicates more likely of contingent holes.

5. Identification of a conspicuous air magnetic (Kenting) anomaly immediately west of Lacroix Lake which could not be explained by surveys completed on the ground during 1976.

From these conclusions are the following recommendations for further work in the Barry Lake area which are presented in tabular form (Table III). It is expected that the various aspects of this work will be integrated with the Barry North work and will be completed in 1977 (geology, claim staking, geophysics, sampling), and 1978 (drilling, possible claim staking).

The summarized costs for the work recommended in Table III are as follows:

Definite budget (1977)	
geological and geophysical surveys, claim staking	\$17,600.00
Definite budget (1978)	
drilling	33,100.00
Contingent budget (1978)	
drilling and claim staking - more likely \$40,500	94,200.00
less likely \$53,700	

Assumed to arrive at these costs are diamond drilling at \$27 per foot (including aircraft charges), \$500 per line mile for geophysical surveys (including line cutting, E.M. magnetometer & aircraft charges), and \$75 per diem rate for labour (including salary, room & board, transport).

1975 (Approximate)

AERIAL SURVEY

Kenting A.E.M. Survey \$100,000

GROUNDWORK

Initial Staking (740 claims) & Recon Mapping 60,700 \$160,700

1976 (Approximate)

AERIAL SURVEY

Questor INPUT Survey (Barry North) 31,400

GROUNDWORK

Linecutting, Ground Geophysics, Additional
 Staking (95 claims) including Air Support 78,135
 Camp supplies: groceries, fuel, camp equip. etc 11,800
 Maps, Reports, Air Photos 1,930
 Office Material 1,480
 Contracted Air Support (Fixed Wing & Helicopter) 32,640
 Assaying: Rock (\$700) and Soil (\$1815) 2,515
 Truck and Car rental 690
 Equipment maintenance 225
 Staff Costs: a) Employee Travel & Sundry \$ 2,785
 b) Temporary Employee Salaries \$40,000 42,785

\$203,600 203,600

1977

Diamond Drilling 204,115.95

Field Expenses related to drilling

Camp supplies 2,702.45
 Office material 271.98
 Freight 64.50
 Radio rental 666.00
 Air Support (Fixed Wing & Helicopter) 11,560.55
 Truck & Car rental 1,255.12
 Snowmobile rental 273.99
 Taxis 23.50
 Communications 31.69
 Postage 179.30
 Miscellaneous 309.72
 Meetings 105.68
 Prospector's Licences 60.00
 Employee Travel & Sundry 4,113.70

21,773.00

Staking of Anomaly 13 1,500

Staking of Barry North including Air Support Mapping 10,638.65

Camp supplies 1,367.62
 Maps, Reports 262.94
 Small Tools 108.86
 Air Support-Fixed Wing 8,916.06
 Assaying 56.50
 Truck & Car rental 272.99
 Taxis 29.50
 Communications 200.42
 Geophysical Equip. rental 638.00
 Summer Student Training Course 120.00
 Meeting 105.67
 Staff Costs: a) Employee Travel & Sundry 1,356.41
 b) Temp. Salaries 8,100.00

22,596.47

\$259,624.00 \$259,624

To September 1, 1977

GROUND GEOPHYSICS - BARRY NORTH (ESTIMATE)

30,000.00

TO YEAR'S END

\$ 297,624.00

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1. Bergmann, H.J. (1976) Report on Geophysical Surveys for Shell Canada Ltd., Barry Project. Shell Files.
2. Best M. & McGilvary, J. (1975) Memo describing results of AEM surveys completed in the Barry Project area. Shell Files.
3. Boldy, J. (1975) Report on Guidelines for Volcanogenic Sulphide Exploration, written for Shell Canada Resources Limited. Shell Files.
4. Charre
5. de Carle, R.J. (1977) Airborne Electromagnetic Survey, Shell Canada Resources Ltd., Barry (North) Project, Quebec. Shell Files
6. Freeman, B.C. (1943) 'Buteux Area' Q.D.M. Geological Report #15, Map #512.
7. Hodge, H.J. (1975) Exploration Proposal, Barry Lake Area, Chibougamau Area, Shell Canada Resources Limited. Report file P.7515.2.2 Shell Files.
8. McAuslan, D.A. (1976) Memo recommending exploration in the Barry North Area, November 1976. Shell Files.
9. McGilvary, J. (1976) Memo describing results of ground geophysical surveys in the Barry Project area. April 1976. Shell Files.
10. Milner, R.L. (1943) Barry Lake Area, Q.D.M. Geological Report #14, Map #511.
11. Remick, J.N. (1967) Balet-Bressani Area, Q.D.N.R. Preliminary Report #58.
12. Stemp, R.W. (1975) Report on Airborne Geophysical Survey in the Barry Project Area of Quebec for Shell Canada Limited by Kenting Earth Sciences Limited.

APPENDIX I

Quebec

Claims

Dev. Lic. #

Barry Project

Buteux Township

<u>Crown #</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Date</u>	<u># of Claims</u>
357674 1-5 incl.	200	2/26/76	50.00	2/26	5
357673 1-5 incl.	200	2/26/76	50.00	2/26	5
357672 1-5 incl.	200	2/26/76	50.00	2/26	5
357670 1&2	80	2/19/76	20.00	2/19	2
357670 3&4	80	2/21/76	20.00	2/21	2
1/2 357670 5	20	2/21/76	5.00	2/21	2 * 1/2
	<u>780</u>		<u>195.00</u>		<u>28 1/2</u>

Marceau Township

357669 1-5 incl.	200	2/18/76	50.00	2/18	5
357678 1-5 incl.	200	2/29/76	50.00	2/29	5
357677 1-5 incl.	200	2/28/76	50.00	2/28	5
357675 3-5 incl.	120	2/22/76	30.00	2/22	3
357676 1-3 incl.	120	2/22/76	30.00	2/22	3
357676 5	40	3/3/76	10.00	3/3	1
	<u>880</u>		<u>220.00</u>		<u>22</u>

Balète Township

357676 4	40	3/3/76	10.00	3/3	1
357679 1-4 incl.	160	2/27/76	40.00	2/27	4
	<u>200</u>		<u>50.00</u>		<u>5</u>

Lacroix Township

1/2 357670 5	20	2/21/76	5.00	2/21	* 1/2
357668 4&5	80	2/1/76	20.00	2/1	2
357671 1-5 incl.	200	2/21/76&3/6/76	50.00	2/21&3/6	5
	<u>300</u>		<u>75.00</u>		<u>8 1/2</u>

Carpiguet Township

353306 1-5 incl.	200	2/23&24/76	50.00	2/23&2/24	5
353307 1	40	1/24/76	10.00	1/24	1
	<u>240</u>		<u>60.00</u>		<u>6</u>

Quebec (continued)

Barry Township

<u>Crown #</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental</u>		<u># of Claims</u>
			<u>Amount</u>	<u>Date</u>	
353307 2-5 incl.	160	1/24/76	40.00	1/24	4
353308 1-5 incl.	200	1/25/76	50.00	1/25	5
353309 1-5 incl.	200	1/25&26/76	50.00	1/25&1/26	5
353310 1-5 incl.	200	1/27/76	50.00	1/27	5
353311 1-5 incl.	200	1/28/76	50.00	1/28	5
357666 1-4 incl.	<u>160</u>	1/29/76	<u>40.00</u>	1/29	<u>4</u>
	1120		280.00		28

Urban Township

357668 1-3 incl.	120	1/31/76	30.00	1/31	3
357666 5	40	1/30/76	10.00	1/30	1
357667 3-5 incl.	<u>120</u>	1/30/76	<u>30.00</u>	1/30	<u>3</u>
	280		70.00		7
Total	<u>3800</u> acres		<u>950.00</u>		<u>95</u>

Quebec

Dev. Lic.
Number
Claims:

Barry Project

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
/ 351672 1-4	160	10/23/75	40.00	10/23	4	Lacroix
/ 351672 5	40	10/24/75	10.00	10/24	1	Lacroix
/ 351673 1-4	160	10/24/75	40.00	10/24	4	Lacroix
/ 351673 5	40	10/25/75	10.00	10/25	1	Lacroix
/ 351674 1,2	80	10/25/75	20.00	10/25	2	Lacroix
/ 356432 1-5	200	10/22/75	50.00	10/22	5	Buteux
/ 356433 1-4	160	10/23/75	40.00	10/23	4	Buteux
/ 358203 1-5	200	10/23/75	50.00	10/23	5	Marceau
/ 358204 1	40	10/23/75	10.00	10/23	1	Marceau
/ 358204 2-5	160	10/24/75	40.00	10/24	4	Marceau
/ 358205 1,2	80	10/24/75	20.00	10/24	2	Marceau
/ 358205 3,4,5	120	10/25/75	30.00	10/25	3	Marceau
/ 358236 1,2,3	120	10/25/75	30.00	10/25	3	Barry
/ 358237 1-5	200	10/26/75	50.00	10/26	5	Barry
/ 358241 1	40	10/25/75	10.00	10/25	1	Barry
/ 358256 1-5	200	10/19/75	50.00	10/19	5	Souart
/ 358258 1,2	80	10/28/75	20.00	10/28	2	Souart
/ 358265 1-5	200	10/19/75	50.00	10/19	5	Souart
358266 1,2,3	120	10/19/75	30.00	10/19	3	Souart
/ 358276 1-4	160	10/20/75	40.00	10/20	4	Carpiquet
/ 358276 5	40	10/21/75	10.00	10/21	1	Carpiquet
/ 358277 1,2,3	120	10/21/75	30.00	10/21	3	Carpiquet
/ 358277 4,5	80	10/22/75	20.00	10/22	2	Carpiquet
/ 358278 1,2	80	10/22/75	20.00	10/22	2	Carpiquet
/ 358278 3,4,5	120	10/23/75	30.00	10/23	3	Carpiquet
/ 358279 1	40	10/23/75	10.00	10/23	1	Carpiquet
/ 358279 2,3	80	10/24/75	20.00	10/24	2	Carpiquet
/ 358279 4,5	80	10/24/75	20.00	10/24	2	Souart
/ 358280 1-4	160	10/25/75	40.00	10/25	4	Souart
/ 358282 1-4	160	10/19/75	40.00	10/19	4	Urban
/ 358282 5	40	10/20/75	10.00	10/20	1	Urban
/ 358283 1	40	10/20/75	10.00	10/20	1	Urban
/ 358283 2-5	160	10/28/75	40.00	10/28	4	Lacroix
/ 358284 1-4	160	10/26/75	40.00	10/26	4	Carpiquet
/ 358284 5	40	10/28/75	10.00	10/28	1	Lacroix
/ 358285 1	40	10/29/75	10.00	10/29	1	Lacroix
/ 359356 1-5	200	10/24/75	50.00	10/24	5	Souart
/ 359357 1-5	200	10/25/75	50.00	10/25	5	Souart
/ 359360 1-5	200	10/28/75	50.00	10/28	5	Souart
/ 359362 1-5	200	10/26/75	50.00	10/26	5	Souart
/ 359363 1-4	160	10/27/75	40.00	10/27	4	Barry
/ 359364 1-4	160	10/24/75	40.00	10/24	4	Souart
/ 359365 1-5	200	10/25/75	50.00	10/25	5	Souart
Total					<u>133</u>	130

Lapsed/Rever letters of 1/11/77

Quebec

Barry Project

Claims:

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
/351677 1-5	200	10/19/75	50.00	10/19	5	Barry
/351678 1-5	200	10/20/75	50.00	10/20	5	Barry
/351679 1	40	10/19/75	10.00	10/19	1	Barry
,351684 5	40	10/18/75	10.00	10/18	1	Barry
/351685 1-5	200	10/17/75	50.00	10/17	5	Barry
/351686 1-5	200	10/18/75	50.00	10/18	5	Barry
358159 1,2,3	120	10/16/75	30.00	10/16	3	La Croix
/358159 4,5	80	10/17/75	20.00	10/17	2	La Croix
/358160 1,2	80	10/17/75	20.00	10/17	2	La Croix
/358160 3,4,5	120	10/18/75	30.00	10/18	3	La Croix
/358161 1,2	80	10/18/75	20.00	10/18	2	La Croix
/358161 3	40	10/19/75	10.00	10/19	1	L'Espinay
/358161 4,5	80	10/19/75	20.00	10/19	2	Buteux
/358162 1,2	80	10/19/75	20.00	10/19	2	L'Espinay
/358162 3	40	10/19/75	10.00	10/19	1	Buteux
/358162 4,5	80	10/20/75	20.00	10/20	2	La Croix
/358170 1,2	80	10/12/75	20.00	10/12	2	La Croix
/358170 3,4	80	10/11/75	20.00	10/11	2	La Croix
/358170 5	40	10/13/75	10.00	10/13	1	La Croix
358171 1-4	160	10/13/75	40.00	10/13	4	La Croix
/358171 5	40	10/12/75	10.00	10/12	1	La Croix
/358172 1,2,3	120	10/14/75	30.00	10/14	3	La Croix
/358172 4,5	80	10/15/75	20.00	10/15	2	La Croix
/358183 1-5	200	10/19/75	50.00	10/19	5	L'Espinay
/358184 1-4	160	10/20/75	40.00	10/20	4	L'Espinay
/358184 5	40	10/20/75	10.00	10/20	1	Belmont
✓358185 1-4	160	10/21/75	40.00	10/21	4	L'Espinay
358185 5	40	10/21/75	10.00	10/21	1	Belmont
/358186 1-5	200	10/22/75	50.00	10/22	5	Buteux
/358187 1-5	200	10/11/75	50.00	10/11	5	Belmont
✓358188 1-5	200	10/12/75	50.00	10/12	5	Belmont
/358189 1-5	200	10/13/75	50.00	10/13	5	Belmont
/358190 1-5	200	10/14/75	50.00	10/14	5	Buteux
/358191 1,2	80	10/23/75	20.00	10/23	2	L'Espinay
✓358191 3	40	10/23/75	10.00	10/23	1	Buteux
358191 4	40	10/16/75	10.00	10/16	1	Buteux
✓358191 5	40	10/16/75	10.00	10/16	1	Belmont
✓358192 1	40	10/16/75	10.00	10/16	1	Belmont
358192 2-5 †	160	10/18/75	40.00	10/18	4	La Croix †
✓358200 4	40	10/15/75	10.00	10/15	1	Barry
✓358200 5	40	10/15/75	10.00	10/15	1	Urban
✓358201 1-4	160	10/15/75	40.00	10/15	4	Barry
/358201 5	40	10/16/75	10.00	10/16	1	Barry
/358202 1-5	200	10/16/75	50.00	10/16	5	Barry

† Lapse - rec'd letter of 1/11/77

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
/358217 1-5	200	10/14/75	50.00	10/14	5	Urban
/358221 1-5	200	10/11/75	50.00	10/11	5	La Croix
/358222 1,2,5	120	10/14/75	30.00	10/14	3	Urban
/358222 3,4	80	10/14/75	20.00	10/14	2	Bailly
/358223 1-5	200	10/17/75	50.00	10/17	5	Barry
/358224 1	40	10/18/75	10.00	10/18	1	Barry
/358226 1-5	200	10/15/75	50.00	10/15	5	Souart
/358227 1-5	200	10/16/75	50.00	10/16	5	Souart
/358231 1	40	10/14/75	10.00	10/14	1	Urban
/358231 2,3	80	10/14/75	20.00	10/14	2	Bailly
/358231 4,5	80	10/15/75	20.00	10/15	2	Souart
/358235 1-5	200	10/12/75	50.00	10/12	5	La Croix
/358236 4,5	80	10/15/75	20.00	10/15	2	Souart
/358239 1-5	200	10/12/75	50.00	10/12	5	Belmont
/358240 1-5	200	10/13/75	50.00	10/13	5	Belmont
/358241 2-5	160	10/15/75	40.00	10/15	4	Souart
/358242 1-5	200	10/16/75	50.00	10/16	5	Souart
/358251 1-5	200	10/18/75	50.00	10/18	5	Souart
/358281 1-5	200	10/16/75	50.00	10/16	5	La Croix
					<u>191</u>	<u>117</u>

12960

Total

Quebec

Barry Project

Claims:

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
/ 358158 1-4	160	10/9/75	40.00	10/9	4	La Croix
/ 358158 5	40	10/16/75	10.00	10/16	1	La Croix
/ 358165 3,4,5	120	10/8/75	30.00	10/8	3	Buteux
/ 358166 1-4	160	10/8/75	40.00	10/8	4	La Croix
/ 358166 5	40	10/9/75	10.00	10/9	1	La Croix
/ 358167 1,2,3	120	10/9/75	30.00	10/9	3	La Croix
/ 358167 4,5	80	10/10/75	20.00	10/10	2	La Croix
/ 358168 1,2	80	10/9/75	20.00	10/9	2	La Croix
/ 358168 3,4,5	120	10/11/75	30.00	10/11	3	La Croix
/ 358169 1,2,3	120	10/10/75	30.00	10/10	3	La Croix
/ 358169 4,5	80	10/12/75	20.00	10/12	2	La Croix
/ 358220 1-5	200	10/10/75	50.00	10/10	5	La Croix
/ 358230 1,2	80	10/10/75	20.00	10/10	2	La Croix
/ 358230 3,4,5	120	10/10/75	30.00	10/10	3	La Croix
				total	<u>38</u>	

Quebec

Barry Project

Claims:

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Amount</u>	<u>Number of Claims</u>	<u>Township</u>
✓ 351682 1-5	200	10/10/75	50.00	10/10	5	Barry
✓ 351683 1-5	200	10/11/75	50.00	10/11	5	Barry
✓ 351684 1-4	160	10/12/75	40.00	10/12	4	Barry
✓ 356417 1-5	200	10/3/75	50.00	10/3	5	Buteux
✓ 356418 1-5	200	10/4/75	50.00	10/4	5	Buteux
✓ 356419 1-5	200	10/5/75	50.00	10/5	5	Buteux
✓ 356420 1	40	10/5/75	10.00	10/5	1	Buteux
✓ 356420 2-5	160	10/6/75	40.00	10/6	4	Buteux
✓ 356421 1	40	10/6/75	10.00	10/6	1	Buteux
✓ 356421 2-5	160	10/7/75	40.00	10/7	4	Buteux
✓ 356422 1	40	10/7/75	10.00	10/7	1	Buteux
✓ 356422 2-5	160	10/8/75	40.00	10/8	4	Buteux
✓ 356423 1-5	200	10/9/75	50.00	10/9	5	Buteux
✓ 356424 1-5	200	10/9/75	50.00	10/9	5	Buteux
✓ 356425 1-5	200	10/10/75	50.00	10/10	5	L'Espinay
✓ 356426 1-5	200	10/10/75	50.00	10/10	5	L'Espinay
✓ 358153 1-5	200	10/3/75	50.00	10/3	5	Buteux
✓ 358154 1-5	200	10/4/75	50.00	10/4	5	Buteux
✓ 358155 1-5	200	10/5/75	50.00	10/5	5	Buteux
✓ 358156 1-5	200	10/6/75	50.00	10/6	5	Buteux
✓ 358157 1	40	10/4/75	10.00	10/4	1	Buteux
✓ 358157 2	40	10/5/75	10.00	10/5	1	Buteux
✓ 358157 3	40	10/6/75	10.00	10/6	1	Buteux
✓ 358157 4, 5	80	10/7/75	20.00	10/7	2	Buteux
✓ 358163 1-4	160	10/3/75	40.00	10/3	4	Buteux
✓ 358163 5	40	10/4/75	10.00	10/4	1	Buteux
✓ 358164 1	40	10/4/75	10.00	10/4	1	Buteux
✓ 358164 2-5	160	10/5/75	40.00	10/5	4	Buteux
✓ 358165 1,2	80	10/6/75	20.00	10/6	2	Buteux
✓ 358173 1-5	200	10/3/75	50.00	10/3	5	Buteux
✓ 358174 1-5	200	10/4/75	50.00	10/4	5	Buteux
✓ 358175 1-4	160	10/5/75	40.00	10/5	4	Buteux
✓ 358175 5	40	10/4/75	10.00	10/4	1	Buteux
✓ 358176 1,2	80	10/5/75	20.00	10/5	2	Buteux
✓ 358176 3,4,5,	120	10/6/75	30.00	10/6	3	Buteux
✓ 358177 1,2	80	10/7/75	20.00	10/7	2	Buteux
✓ 358177 3,4,5	120	10/6/75	30.00	10/6	3	Buteux
✓ 358178 1,2	80	10/7/75	20.00	10/7	2	Buteux
✓ 358178 3,4,5,	120	10/8/75	30.00	10/8	3	Buteux
✓ 358179 1,2	80	10/9/75	20.00	10/9	2	Buteux
✓ 358179 3,4,5	120	10/8/75	30.00	10/8	3	Buteux
✓ 358180 1,2,3	120	10/9/75	30.00	10/9	3	Buteux
✓ 358180 4,5	80	10/10/75	20.00	10/10	2	Buteux
✓ 358181 1,2,3	120	10/10/75	30.00	10/10	3	Buteux
✓ 358181 4,5	80	10/11/75	20.00	10/11	2	Buteux

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
/ 358182 1,2	80	10/11/75	20.00	10/11	2	Buteux
/ 358182 3,4,5	120	10/12/75	30.00	10/12	3	Buteux
/ 358193 1	40	10/5/75	10.00	10/5	1	Bailly
/ 358193 2-5	160	10/5/75	40.00	10/5	4	Barry
/ 358194 1	40	10/5/75	10.00	10/5	1	Barry
/ 358194 2-5	160	10/6/75	40.00	10/6	4	Barry
/ 358195 1-4	160	10/6/75	40.00	10/6	4	Barry
/ 358195 5	40	10/7/75	10.00	10/7	1	Barry
/ 358196 1-5	200	10/7/75	50.00	10/7	5	Barry
/ 358197 1-5	200	10/8/75	50.00	10/8	5	Barry
/ 358198 1	40	10/8/75	10.00	10/8	1	Barry
/ 358198 2-5	160	10/9/75	40.00	10/9	4	Barry
/ 359199 1,2	80	10/9/75	20.00	10/9	2	Barry
/ 358199 3,4,5	120	10/10/75	30.00	10/10	3	Barry
/ 358200 1-3	120	10/10/75	30.00	10/10	3	Barry
/ 358213 1-5	200	10/8/75	50.00	10/8	5	La Croix
/ 358214 1-5	200	10/9/75	50.00	10/9	5	La Croix
/ 358215 1-5	200	10/10/75	50.00	10/10	5	Belmont
/ 358216 1-5	200	10/11/75	50.00	10/11	5	Belmont
/ 358218 1-5	200	10/8/75	50.00	10/8	5	La Croix
/ 358219 1-5	200	10/9/75	50.00	10/9	5	La Croix
/ 358228 1-5	200	10/8/75	50.00	10/8	5	La Croix
/ 358229 1-5	200	10/9/75	50.00	10/9	5	La Croix
/ 358233 1-5	200	10/9/75	50.00	10/9	5	La Croix
/ 358234 1-5	200	10/10/75	50.00	10/10	5	La Croix
/ 358238 1	40	10/10/75	10.00	10/10	1	La Croix
/ 358238 2,3	80	10/10/75	20.00	10/10	2	Urban
/ 358238 4,5	80	10/10/75	20.00	10/10	2	Belmont
				Total	<u>244</u>	

Quebec

Barry Project

Claims:

<u>Crown Number</u>	<u>Acres</u>	<u>Date Acquired</u>	<u>Rental Amount</u>	<u>Rental Date</u>	<u>Number of Claims</u>	<u>Township</u>
✓351679 2-5	160	11/5/75	40.00	11/5	4	Marceau
✓351680 1-4	160	11/1/75	40.00	11/1	4	Marceau
✓351680 5	40	11/2/75	10.00	11/2	1	Marceau
✓351681 1-5	200	11/2/75	50.00	11/2	5	Marceau
356433 5	40	11/3/75	10.00	11/3	1	Marceau
✓356434 1-5	200	11/3/75	50.00	11/3	5	Marceau
✓356435 1-5	200	11/4/75	50.00	11/4	5	Marceau
✓358206 1,2,3	120	10/25/75	30.00	10/25	3	Marceau
✓358206 4,5	80	10/26/75	20.00	10/26	2	Marceau
✓358207 1-4	160	10/26/75	40.00	10/26	4	Marceau
✓358207 5	40	10/27/75	10.00	10/27	1	Marceau
✓358208 1-5	200	10/27/75	50.00	10/27	5	Marceau
✓358209 1-5	200	10/28/75	50.00	10/28	5	Marceau
✓358210 1	40	10/28/75	10.00	10/28	1	Marceau
✓358210 2-5	160	10/29/75	40.00	10/29	4	Marceau
✓358211 1,2	80	10/29/75	20.00	10/29	2	Marceau
✓358211 3,4,5	120	10/30/75	30.00	10/30	3	Marceau
✓358212 1,2	80	10/30/75	20.00	10/30	2	Marceau
✓358212 3,4,5 <i>Longley</i>	120	10/31/75	30.00	10/31	3	Marceau
358232 1-4	160	10/30/75	40.00	10/30	4	Lacroix <i>Capred</i>
✓358252 1-4 <i>X</i>	160	→10/31/75 <i>5/12/76</i>	40.00	10/31	4	Urban
✓358258 3,4,5	120	10/31/75	30.00	10/31	3	Barry
✓358259 1-4	160	10/31/75	40.00	10/31	4	Urban
✓358260 1-5	200	10/31/75	50.00	10/31	5	Urban
✓358261 1,2,3	120	10/31/75	30.00	10/31	3	Urban
✓358271 1-4	160	11/6/75	40.00	11/6	4	Marceau
✓358296 1-5	200	10/25/75	50.00	10/25	5	Buteux
✓358297 1-4	160	10/27/75	40.00	10/27	4	Marceau
✓358298 1-5	200	10/28/75	50.00	10/28	5	Balete
✓358299 1-5	200	10/29/75	50.00	10/29	5	Balete
✓358300 1	40	10/30/75	10.00	10/30	1	Balete
✓359358 1-4	160	10/27/75	40.00	10/27	4	Barry
✓359359 1-4	160	10/31/75	40.00	10/31	4	Lacroix
359361 1-5	200	10/31/75	50.00	10/31	5	Barry
✓359372 1-5	200	10/25/75	50.00	10/25	5	Buteux
✓359373 1-5	200	10/26/75	50.00	10/26	5	Buteux
✓359374 1-5	200	10/27/75	50.00	10/27	5	Buteux
✓359375 1-5	200	10/25/75	50.00	10/25	5	Buteux
✓359376 1-5	200	10/26/75	50.00	10/26	5	Buteux
✓359377 1-4	160	10/27/75	40.00	10/27	4	Buteux

Total 149 ⁴⁴⁵
141

358 232 1-4 - Longley refer letter of 11/77

~~Grand Total~~ = 7400
29,600 Ac