

85-856-
14045

ASSESSMENT REPORT

ON

WIS 1,2 & 4 AND LIS 1, 2, 3, 4, 5, 6, & 7

Latitude 49°23'30"N, Longitude 116°58'W

NELSON MINING DIVISION

Owner: BP-Resources Canada Limited
700-890 West Pender Street
Vancouver, B.C.
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BPVR 85-17

7th GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,045

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SUMMARY

The Wisconsin property is located about 25 km due east-southwest of Nelson, B.C. and 10 km west of Kootenay Lake. Access is via logging and four wheel drive roads from Ymir, across the Porcupine Creek access road, for a total distance of about 70 km.

Previous work shows the property to contain several arsenical sulphide zones enriched in gold and silver and hosted by the metasediments and metavolcanics of the upper Horsethief Creek Group. The sulphide zone shows evidence of intense shearing and deformation associated with the local intrusion of granitic rocks.

A summary of the 1985 work reported herein is as follows:

- 1) Drilling of 6, NQ size, drill holes and related geochemistry into a UTEM geophysical target and along strike of the previously drilling and trenching to further define Main Zone sulphides.
- 2) A leveling survey (3 days) designed to identify the relative elevation of all drill hole collars to the surface exposures of the sulphide zones.
- 3) Maintenance and repairs to approximately 6.5 km of access road and the preparation of necessary drill sites (4).

INTRODUCTION

The Wisconsin is an arsenical massive sulphide showing which carries significant values in precious and base metals. It is hosted by units of the Horsethief Creek Group and units of the Irene (Volcanics) Formation.

The mineralization, from previous test work, is essentially arsenical with good gold and silver values with lesser amounts of zinc, lead and copper and barite. Previous drilling indicates an average grade in the order of 4.02 grams gold and 35.53 grams silver over an average width of 2.48 metres in the Main Zone. Values in base metals are less than 1% for copper, lead and zinc and arsenic runs in the order of 2 to 5% with local highs up to about 15%. The sulphide zone shows evidence of intense shearing and recrystallization in association with the local intrusion of granitic rocks. The source of the precious and base metal sulphides is problematical and may be either from the host stratigraphy or as a volatile phase of the granitic intrusives.

OBJECTIVES

The objectives of the 1985 program were as follows:

- 1) To drill test the grade continuity along the strike and at depth of the Main Zone and to identify the tonnage/grade potential of the Zone.

3.

- 2) To determine the ore contols.
- 3) To obtain reasonable survey control of the drilling and surface sulphide exposures to facilitate geological evaluation.

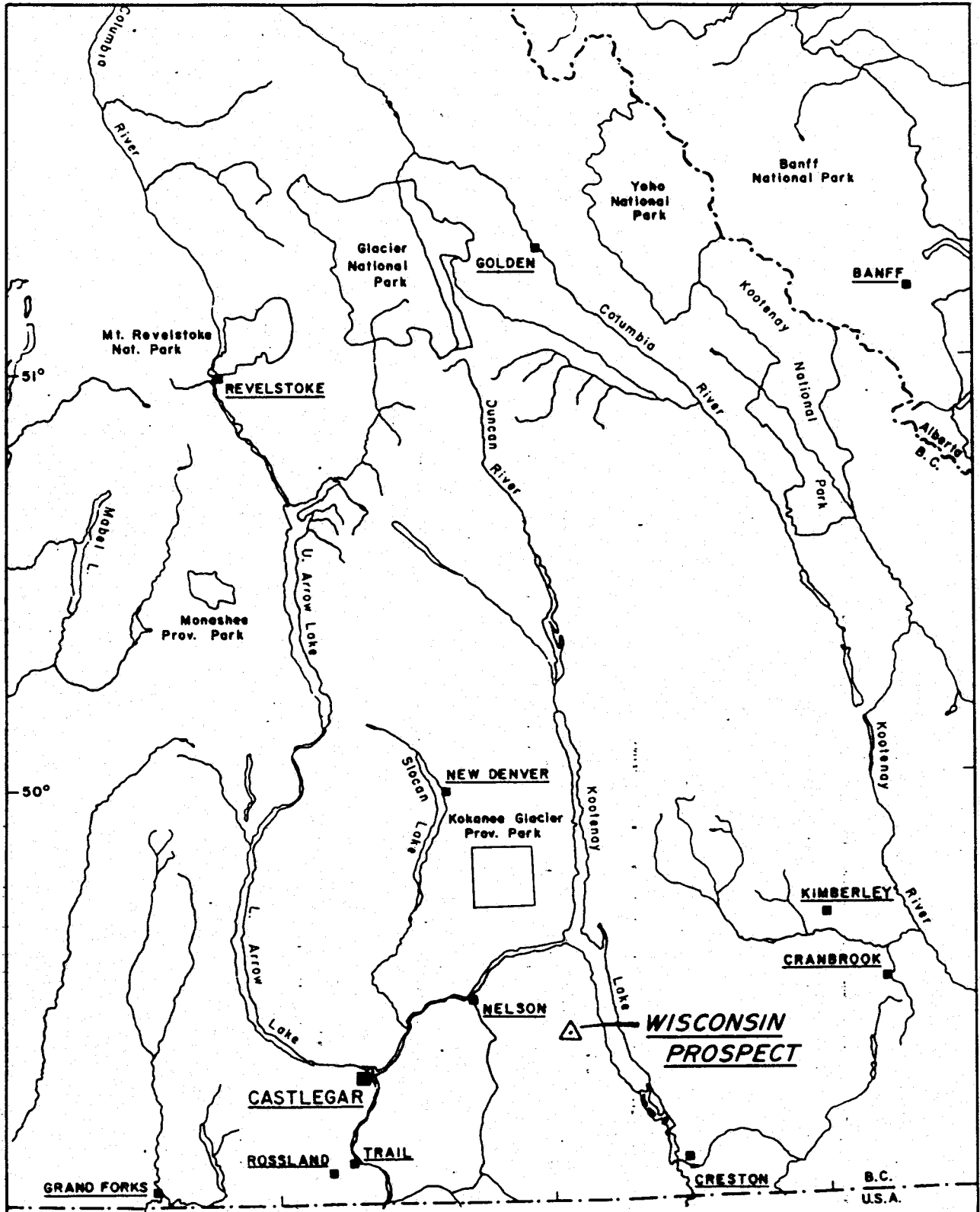
LOCATION, ACCESS AND PHYSIOGRAPHY


The Wisconsin claim area is located about 25 km east-southeast of Nelson, BC, and 10 km west of Kootenay Lake, within NTS map sheets 82F/6 and 82F/7. The claim group is bounded by longitudes $116^{\circ}55'W$ and $117^{\circ}01'W$ and latitudes $49^{\circ}21'N$ and $49^{\circ}26'N$.

The old mine workings are found on the Wisconsin crown grant situated at 1900 metres elevation on a ridge between Hughes and Seeman Creeks, east flowing tributaries of Midge Creek.

Access is provided by approximately 30 km of paved road (Highway 6) south from Nelson, BC, and 30 km of logging roads along Porcupine, Cultus and Laib Creeks to within a straight line distance of 2.5 km south of the property. From this point a newly constructed 6.5 km four wheel drive road provides final access to the property.

Original access to the site was provided via a pack trail from the CPR Midge Creek siding along Kootenay Lake. The trail follows Midge Creek for 9.6 km and Hughes Creek to the minesite



 SELCO DIVISION - BP RESOURCES CANADA LIMITED		
WISCONSIN PROJECT - B.C. REGIONAL LOCATION MAP		
SCALE As Shown	DRAWN BY:	FIG. 1
DATE NOVEMBER 1984	DRAFTED BY: J.S.	
M.T.S. 82 F, M	PROJ. 10160	REPORT BPVR 85-17

4.

for 6.4 km. This trail was used in the early days to move equipment and supplies to the minesite and to remove material, mainly for metallurgical testing.

Helicopter service is available both from Castlegar and Nelson. Maximum relief in the property area is 2300 metres, but generally ranges from 1219 metres to 2194 metres.

In the area of the minesite, slopes are moderately steep, ranging from 30° to 40°, but increasing to the south. Forest cover on the property is generally thin due to a forest fire dating back to the early 1930's and consists mainly of spruce, pine and hemlock.

Increased vegetation is noted on the lower slopes with river valley's consisting mainly of thick and tangled underbrush.

South of the property, the topography is more rugged. Steep sided east-west ridges range up to 2389 metres elevation and are devoid of vegetation at the summits. The steep slopes are either too steep to hold vegetation or are brush covered.

Drainage is generally east-west in the southern area, but in the property area is more or less northeast into the Midge Creek drainage system.

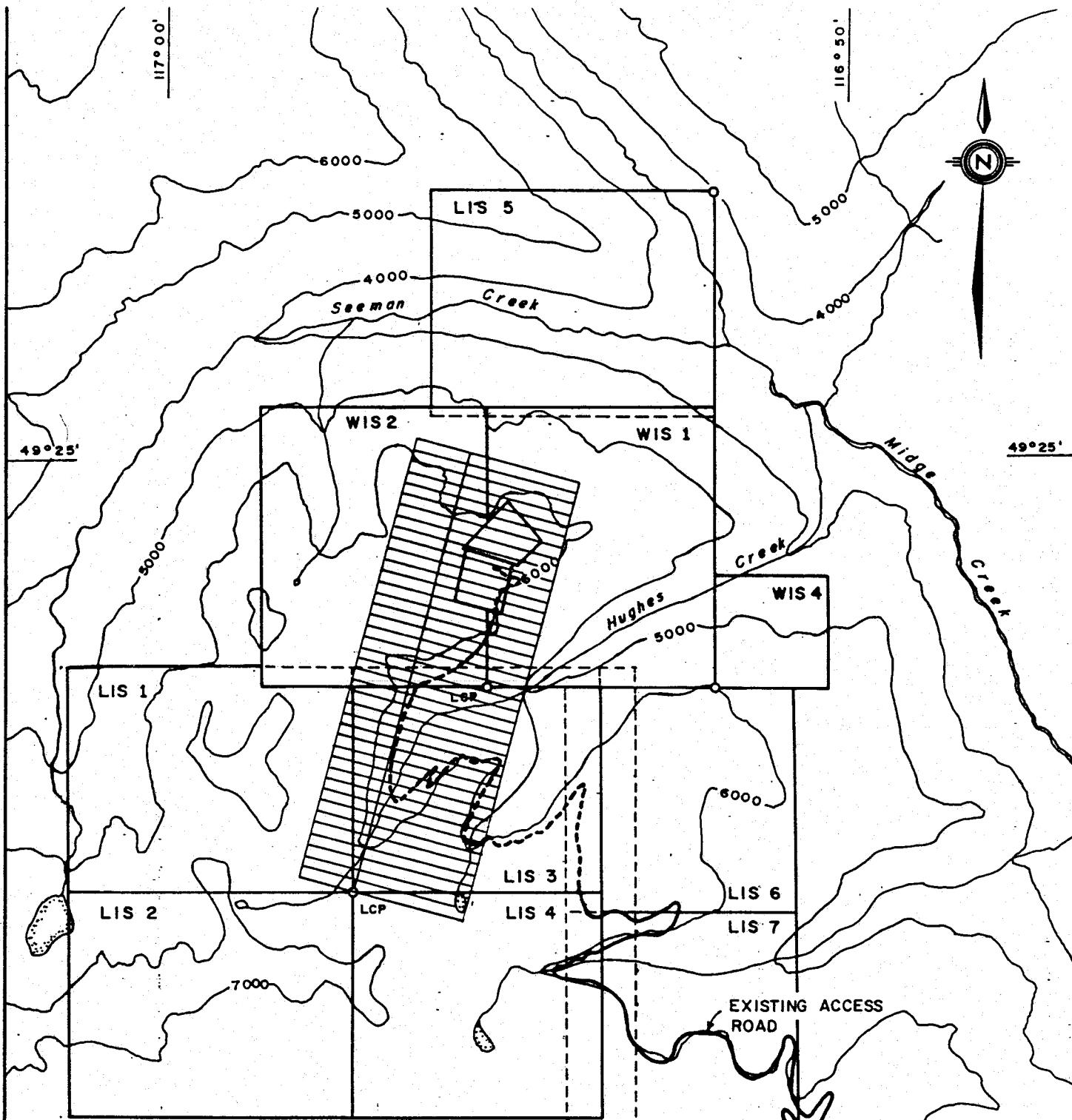
PROPERTY OWNERSHIP AND SCHEDULE OF LAND

The Wisconsin and Lucky Strike crown granted claims, owned by a group headed by W.W. Powell Jr. of Spokane, Washington, and the Wis 1, 2 and 4 mineral claims, owned by Esperanza Explorations Ltd., are presently held under option agreement by Selco Division - BP Resources Canada Limited.

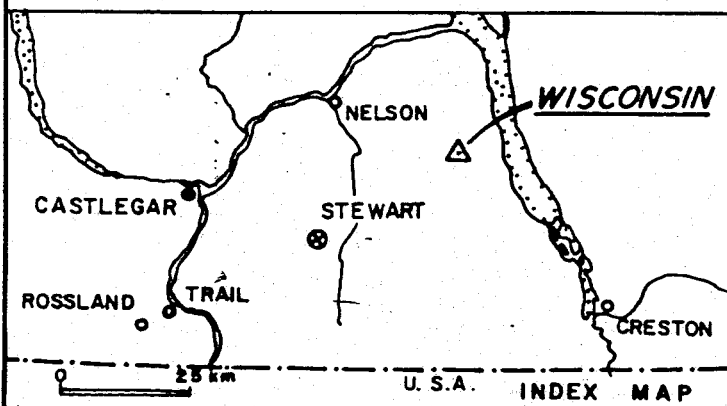
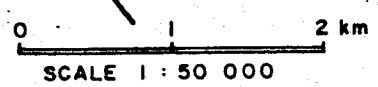
The Lis 1 to 5 mineral claims, staked in October 1983 and the Lis 6 and 7 mineral claims, staked in August 1984 are registered in the name of Selco.


The Wisconsin property consists of the following crown granted and grid system mineral claims:

<u>Claim Name</u>	<u>Record No.</u>	<u>No.of Units</u>	<u>Present Expiry Date (This Filing)</u>
Wisconsin	L2928	1	
Lucky Strike	L2929	1	
Wis 1	1558	20	March 19, 1994
Wis 2	1559	20	March 19, 1993
Wis 4	1939	4	October 7, 1993
Lis 1	3537	20	October 24, 1992
Lis 2	3538	20	October 24, 1992
Lis 3	3539	20	October 24, 1994
Lis 4	3540	20	October 24, 1993
Lis 5	3541	20	October 24, 1992
Lis 6	3595	16	August 3, 1993
Lis 7	3596	<u>16</u>	August 3, 1993
		Total	178



- - - - - 1984 ROAD CONSTRUCTION (6.5 km)
 // // 1984 EXPLORATION GRID



 SELCO DIVISION - BP RESOURCES CANADA LIMITED		
WISCONSIN PROJECT - B.C. CLAIM LOCATION MAP WITH 1984 ROAD CONSTRUCTION AND 1984 GRID LOCATION		
SCALE 1 : 50,000	DRAWN BY: J. PEARSON	PH. 2
DATE AUGUST 1984	DRAFTED BY: L.G. + J.S.	
N.T.S. 82 F/6,7	PROJ. 10160	REPORT BPVR 85-17

PREVIOUS WORK

The Wisconsin and Lucky Strike claims were originally staked in July of 1884 by the Hennessey brothers and on January 23, 1899 crown grants were issued. By 1903, five well defined mineralized zones had been outlined (Plan 1). The total development on the property by 1903 was: 20.4 metres of shaft, 57 metres of crosscut tunnels, 73.5 metres of drifts, 25 open cuts (trenches) along with a log bunkhouse for 16 men, cook-house, dining-room, store-house, blacksmith's shop and a 823 metre water pipe-line. Principal development was on Zone 1, the largest of the five zones mentioned. Work consisted of 13 surface cuts, exposing a mineralized zone for 244 metres, a crosscut tunnel of 30.5 metres and one of 26.5 metres. Development on Zone 2 consisted of 12.8 metres of drift and crosscut. Zone 3 has a small shaft and open cut. Zone 4, 45.7 metres east of number 3 has six open cuts and Zone 5 has five open cuts developed on it.

Between 1903 and 1915, development was limited to driving a meandering exploratory tunnel totalling 244 metres of cross-cutting and 75 metres of drifting. Up to 1926, the property was inactive, but was examined in that year for Porcupine Goldfields Development and Finance Company Limited. From 1926 to 1937, several examinations and substantial development work was done.

In 1928, an electrical survey was completed by Radiore Company of Canada, outlining a 500 metre long conductive zone over Zone 1. A program of 3 diamond drill holes for a total of 305 metres and surface trenching was carried out in 1933. From 1935 to 1937, large equipment, consisting of a 50 horsepower diesel engine, a compressor, a small hoist, pumps, rock drills and other equipment was moved into the property by pack horse. Development work consisted of extending the winze 18 metres to a depth of 46 metres (150 feet) below Level 1, 158.5 metres of drifting and 68.6 metres of crosscutting on the 150 foot level. At this time, estimated potential ore reserves were 50,000 tons of 0.36 oz/t gold and 3.2 oz/t silver. In 1940, the adit level of the No.1 tunnel was extended by a further 58 metres of drifting and 40 metres of crosscutting.

Between 1937 and 1942, metallurgical and mill testing was carried out by the following:

1. Department of Mines - Ottawa, Ontario
2. A.C. Frost and Company - Seattle, Washington
3. American Cyanimid - Wayne, New Jersey
4. C.I.L. - Toronto, Ontario
5. G.S. Eldridge - Vancouver, BC
6. Cominco Limited - Kimberley, BC

The results of this work were generally unsatisfactory due principally to the arsenic content of the sulphides and the difficulty in separating the arsenic and precious metals. The claims therefore were dropped.

The claims fell into a long period of inactivity after 1942. In the early 1960's, minor metallurgical testing was carried out, but no property work was done until 1980 when Esperanza Explorations Limited optioned the Wisconsin and Lucky Strike crown grants and staked the Wis 1 and 2 mineral claims covering the crown grants and Wis 4 mineral claim over a small, but similar, occurrence on the south side of Hughes Creek. Work in 1980 by Esperanza included geological mapping and chip sampling of accessible adits, shafts and old surface trenches, detailed geological mapping, a soil geochemical survey and a Crone EM survey including vertical and horizontal loop. The most recent work in the area has been regional geological mapping at a scale of 1:50 000 done by A.E. Leclair and J.E. Reesor of the G.S.C., in 1981 and 1982.

REGIONAL GEOLOGY

The property is located near the southern end of the Kootenay Arc, a generally north-trending, west-dipping arcuate zone of metavolcanics and metasediments. The map area is underlain by successively younger strata from east to west, ranging from Mid

TABLE OF FORMATIONS:

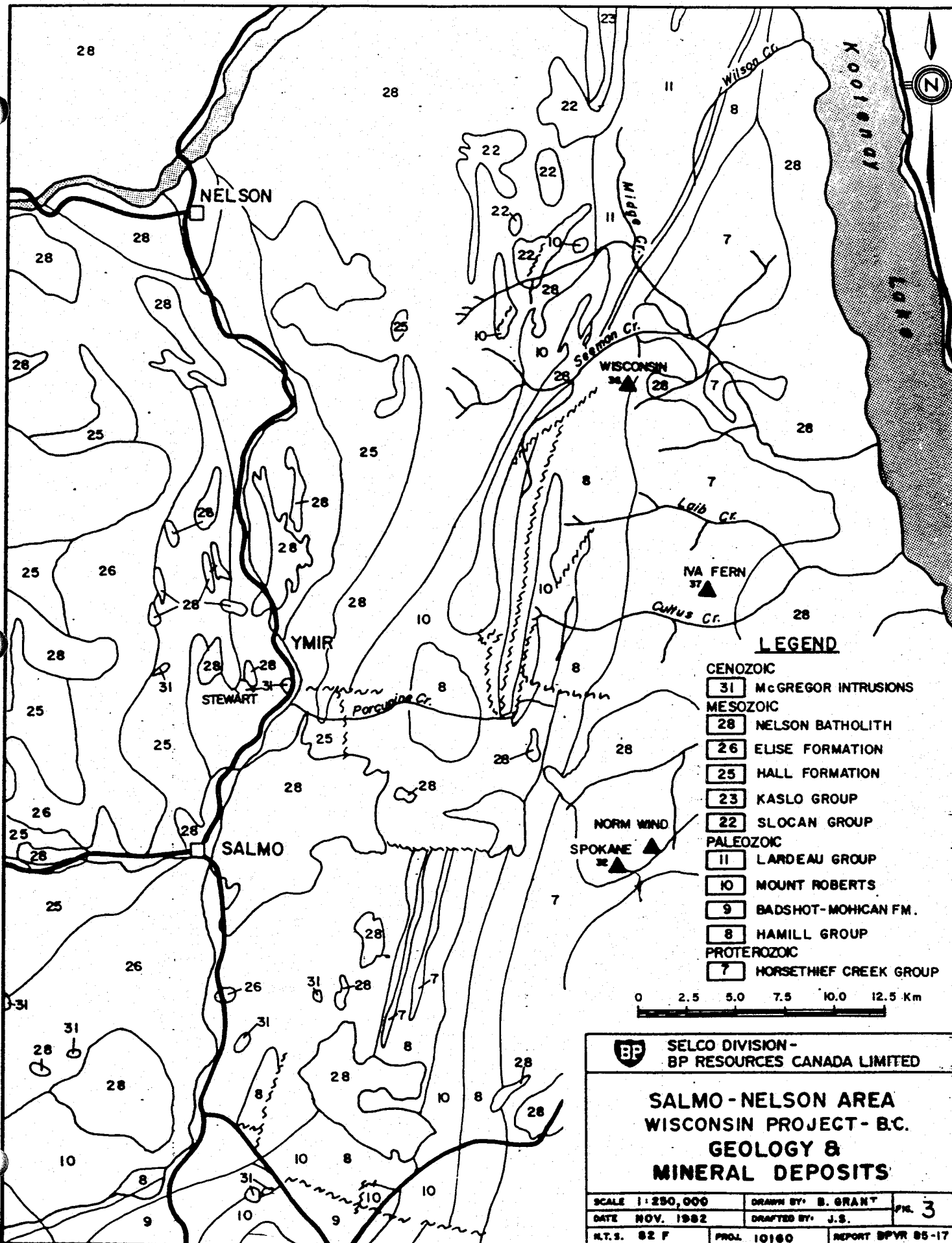
PALEOZOIC	CAMBRIAN		LARDEAU GROUP
			BROADVIEW FORMATION
			JOWETT FORMATION
			SHARON CREEK FORMATION
			AJAX FORMATION
			TRIUNE FORMATION
			INDEX FORMATION
			BADSHOT - MOHICAN FORMATION
			HAMILL FORMATION
PROTEROZOIC	HADRYNIAN		HORSETHIEF CREEK GROUP
			THREE SISTERS FORMATION
			MONK FORMATION
	WINDERMERE SUPERGROUP		IRENE VOLCANIC FORMATION
			TOBY FORMATION
			MOYIE INTRUSIONS
	HELIKIAN		NEO-HELIKIAN
			PURCELL SUPERGROUP
	HELIKIAN		MOUNT NELSON FORMATION
			DUTCH CREEK FORMATION
	PALEO-HELIKIAN		KITCHENER - SIYEH FORMATION
			CRESTON FORMATION
HELIKIAN		ALDRIDGE FORMATION	

EAST KOOTENAY OROGENY

TABLE I

Proterozoic Purcell Supergroup in the east, by Kootenay Lake, through the Upper Proterozoic Windermere Supergroup and Paleozoic strata of the Hamill Formation, Badshot-Mohican Formation and Lardeau Group to the west. (Refer to Table of Formations - Table 1). All successions are cut by Mid to Late Mesozoic intrusive rocks (Figure 3).

The Windermere Supergroup has accumulated in a miogeosyncline during Hadrynian times following a local uplift in the Purcell region. This event is referred to as the East Kootenay Orogeny, which separates the Purcell and succeeding Windermere sedimentation (Gabrielse, et al; 1972). The base of the Windermere assemblage unconformably overlies the Purcell Supergroup and is marked by the distinctive polymict conglomerate (diamictite) of the Toby Formation. The coarse basal unit consists largely of quartzite and dolomite clasts ranging in size from a few millimetres to 40 cm, probably of Purcell strata origin. The matrix varies from quartzite to pelite to carbonate and the matrix to clast ratio varies widely from a matrix to a clast supported glacial deposit. The coarse, poorly sorted, locally graded, nature of the conglomerate indicates rapid deposition - possibly debris flows from a source of significant relief. This relief could have been created by the onset of continental glaciation lowering the sea level, hence relief at



LEGEND

- CENOZOIC
- 31 McGREGOR INTRUSIONS
- MESOZOIC
- 28 NELSON BATHOLITH
- 26 ELISE FORMATION
- 25 HALL FORMATION
- 23 KASLO GROUP
- 22 SLOCAN GROUP
- PALEOZOIC
- 11 LARDEAU GROUP
- 10 MOUNT ROBERTS
- 9 BADSHOT-MOHICAN FM.
- 8 HAMILL GROUP
- PROTEROZOIC
- 7 HORSETHIEF CREEK GROUP

0 2.5 5.0 7.5 10.0 12.5 Km

BP SELCO DIVISION - BP RESOURCES CANADA LIMITED

**SALMO - NELSON AREA
WISCONSIN PROJECT - B.C.
GEOLOGY &
MINERAL DEPOSITS**

SCALE 1:250,000	DRAWN BY: B. GRANT	FIG. 3
DATE NOV. 1982	DRAFTED BY: J.S.	
N.T.S. 82 F	PROJ. 10160	REPORT BPVR 85-17

the continental margin. The presence of overlying pillow lavas and laminated argillites, turbidites and grain flow deposits suggests that the basal Windermere assemblage is of subaqueous origin (Aalto, 1971). Conformably overlying the Toby Formation are the basic volcanics of the Irene Volcanic Formation consisting of green mafic tuffs and massive to schistose greenstone.

The Upper Windermere succession, in conformable contact with the Irene Volcanic Formation, is made up of the Horsethief Creek Group consisting predominantly of argillite "grit" and phyllite with interbeds of grey limestone, quartzite and conglomerate or diamictite.

The Upper Windermere Supergroup Formations are all conformable, part glacial, rapidly deposited sediments from the continental margin into a shallow marine, reefal or possibly deltaic environment.

Some workers subdivide the Horsethief Creek Group into two formations: the Monk Formation, the basal formation, consisting of two phyllitic units divided by a grey limestone member is overlain conformably by the Three Sisters Formation consisting of grits, quartzite and conglomerate. An upper grit unit of the

Three Sisters Formation is thought to be the top of the Horsethief Creek Group locally marking the boundary to the conformably overlying Hamill Formation.

The Hamill Formation consists of a succession of quartzites, commonly gritty and feldspathic at the base, to thick, distinctive beds of clean quartzite with muscovite and sericite along partings. The succession is locally complexly folded and faulted and is known south of the high angle "Thrust" Fault near Seeman Creek as the Quartzite Range (Reesor, 1983). The boundary between the Horsethief Creek Group and the Hamill Formation marks a change of sedimentation from shallow water in the Horsethief Creek Group to quiescent deeper water sedimentation in the Hamill Formation marked by "clean" quartzites. The change in sedimentation in the Early Paleozoic could be due to a change in the source area, the older Purcell strata at the edge of the craton could have been stripped, exposing crystalline rocks of the Precambrian providing a source of quartzofeldspathic clastic materials (Gabrielse, et al; 1972).

The Badshot-Mohican Formation conformably overlies the Hamill Formation and represents a change to reefal facies sedimentation in the Early Paleozoic. The Mohican Formation is a gradational unit between the Hamill Formation and the Badshot Formation and

consists of calcareous schist and quartzite, rusty weathering micaceous schist and limestone.

The Badshot Formation is a relatively pure limestone unit with minor zones of dolomite and chert.

The Lardeau Group overlies the Badshot-Mohican Formation and represents a period of rapid deposition on the carbonate platform. The Lardeau Group is made up of six formations, but within the map area the Index Formation is the only formation identified. The Index Formation consists of dark argillites and micaceous to calcareous schists and grits.

From Mid to Late Mesozoic time, large heterogeneous granites (S.L.) intruded all stratigraphic units.

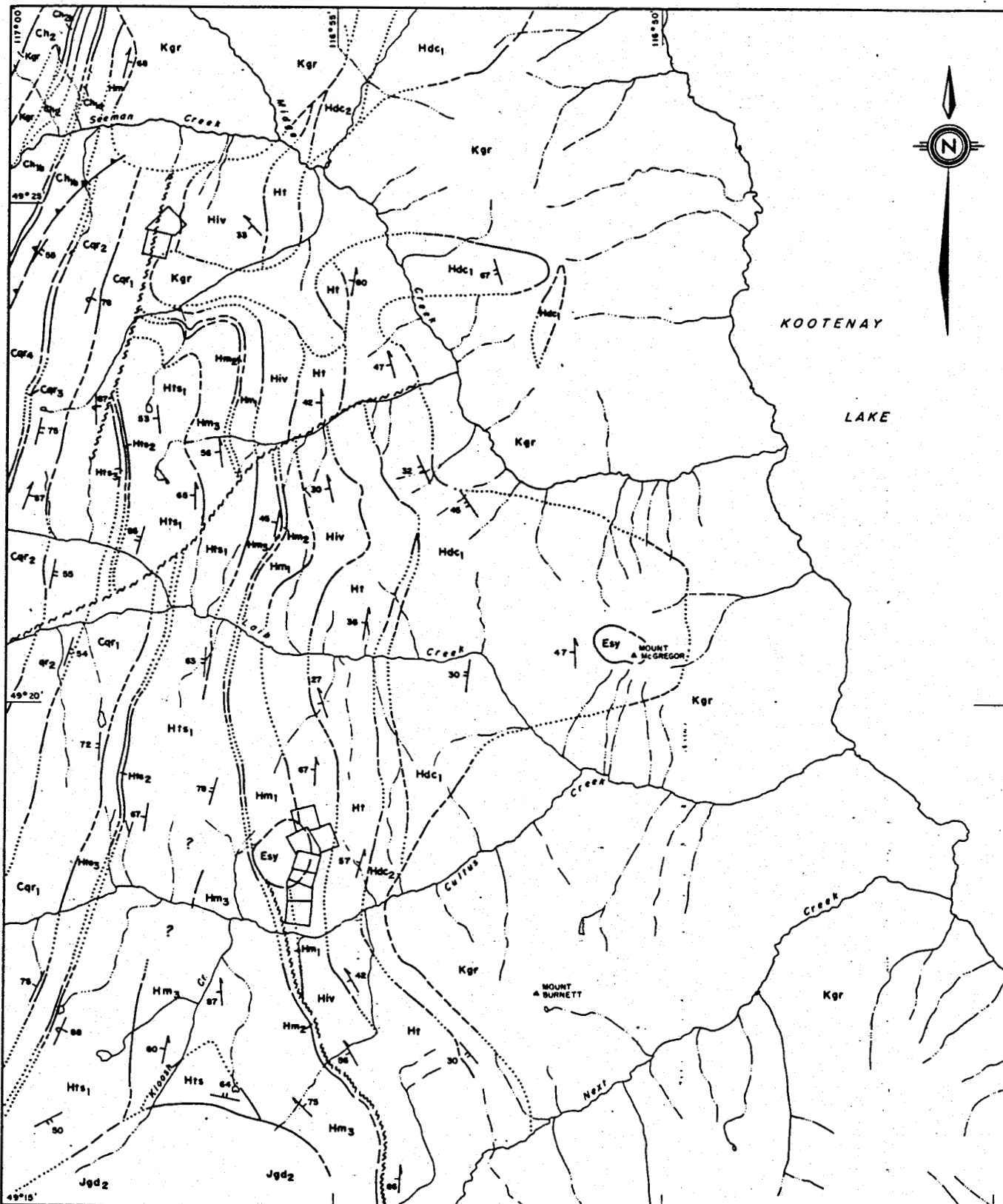
The Bayonne Batholith is one of the major intrusions found in the area and consists mainly of granite ranging from a two-mica, leucocratic, medium grained granite to a more mafic biotite granite.

PROPERTY GEOLOGY

Geological surveys carried out by both government and company mapping crews indicate that the Wisconsin is host to a

stratabound sulphide horizon, hosted by units of the Irene Volcanics at the gradational contact between the Irene Formation and the conformably overlying basal Horsethief Creek Formation. Hamill Group quartzites appear to be in fault contact with the lower Horsethief Creek Formation immediately to the west of the Main Zone sulphide horizon (See Fig 4).

The Main Zone sulphides are characterized by the presence of minor limestones, on the sulphide footwall, combined with a thicker and more extensive ankerite-dolomite-barite horizon at the southern and northern extension of the sulphide horizon. The hangingwall to the sulphides are quartzites and sillimanite-muscovite schists. Sillimanite-muscovite is a major component of the hangingwall stratigraphy, to the south and immediately overlying, the Main Zone sulphide horizon. The central portion of the sulphide zone has been extensively recrystallized and remobilized by a lobe of intrusive granodiorite which lies east of the main showings. In the vicinity of the sulphide horizon, at the main showing, the granodiorite exhibits crosscutting relationships both to the sulphides and host sediment volcanic stratigraphy. All rock types are cut by late stage quartz veining. The granodiorite close to the main lobe of the intrusive, has been incorporated as a complex system of sills within the host quartzites and volcanics, although drill sections



LEGEND

Eocene	Esy	Spentite, shoshonite
Cretaceous	Kgr	Granite ± biotite, muscovite garnet
Jurassic	Jgd2	Biotite-hornblende granodiorite
	Car/Ch	HAMILL GROUP
		Car ₁ - White Quartzite
		Car ₂ - Conglomerate
		Car ₃ - Micaceous Quartzite
		Car ₄ - Orthoquartzite
Lower Cambrian	Ch2	Marble
	Ch	Muscovite-biotite - chlorite - schist
	Ch_{10,14}	Basaltic white quartzite + pebbly feldspathic quartzite
		WINDERMERE SUPERGROUP
Lower Paleozoic	Hh	HORNETHIEP CREEK GROUP
	Hts	THREE SISTERS FORMATION
		Hts ₃ - Quartzite
		Hts ₂ - Conglomerate, Hts ₁ - Grit

Lower Paleozoic	Hm	MONK FORMATION
		Hm ₁ - Phyllite
		Hm ₂ - Limestone
		Hm ₃ - Phyllite-quartzite
	Hiv	IRENE VOLCANIC FORMATION
	Ht	TOBY FORMATION
		PURCELL SUPERGROUP
	Hm₄	MT. NELSON FORMATION
		Hm ₄ - Dolomite
		Hm ₅ - Black Argillite
		Hm ₆ - Dolomite, Hm ₇ - Quartzite
Proterozoic	Hdc	DUTCH CREEK FORMATION
		Hdc ₂ - Upper, Hdc ₁ - Lower



BP SELCO DIVISION - BP RESOURCES CANADA LIMITED

WISCONSIN PROJECT - B.C. REGIONAL GEOLOGY

SCALE 1:50,000	DRAWN BY: S. GRANT	FIG 4
DATE APRIL 1985	DRAFTED BY: L.G.	
N.T.S. 82 F/7	PROD. 10160	REPORT BPVR-85-77

Geology by A.E. Leslie and J.E. Rosser 1983 (Open File 929)

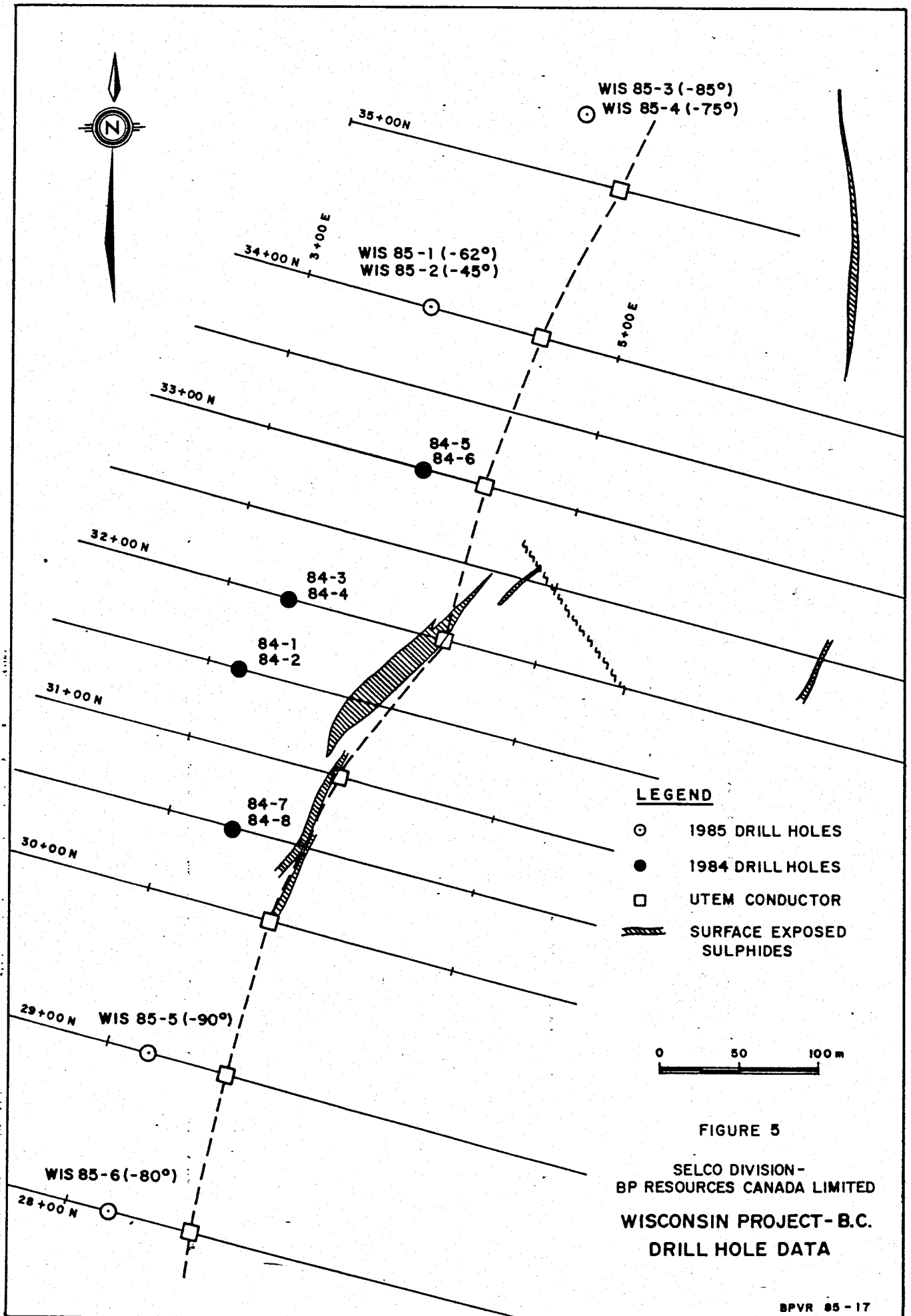
to the north and south of the main showing indicate that the volume of such intrusive sills decrease along strike from the main intrusive mass.

The footwall of the Main Zone sulphides is formed by an interbedded sequence of quartzitic sediments and basaltic volcanics, of the Irene Formation. The proportion of volcanics increases to the east and down section.

1985 SURVEY RESULTS

1) Drilling

Drilling has been completed on the Wisconsin project with a total of six holes drilled with a combined total of 925.07 metres of NQ core within the period of August 14 to September 3, 1985. Four holes were drilled to the north of the main showing (W85-1 to 4) and two holes were drilled at separate set-ups to the south of the main showing and the 1984 drilling (W85-5 and 6). Except for holes 1 and 2, no significant sulphide intersections were encountered. To the south it is believed that the weak UTEM conductor is represented by some graphitic material intersected in the drilling. Although the actual sulphide horizon may still be present east of the drill intersected stratigraphy, there is little outcrop exposure in the area to accurately trace it on surface. Further drilling may be required to confirm this.



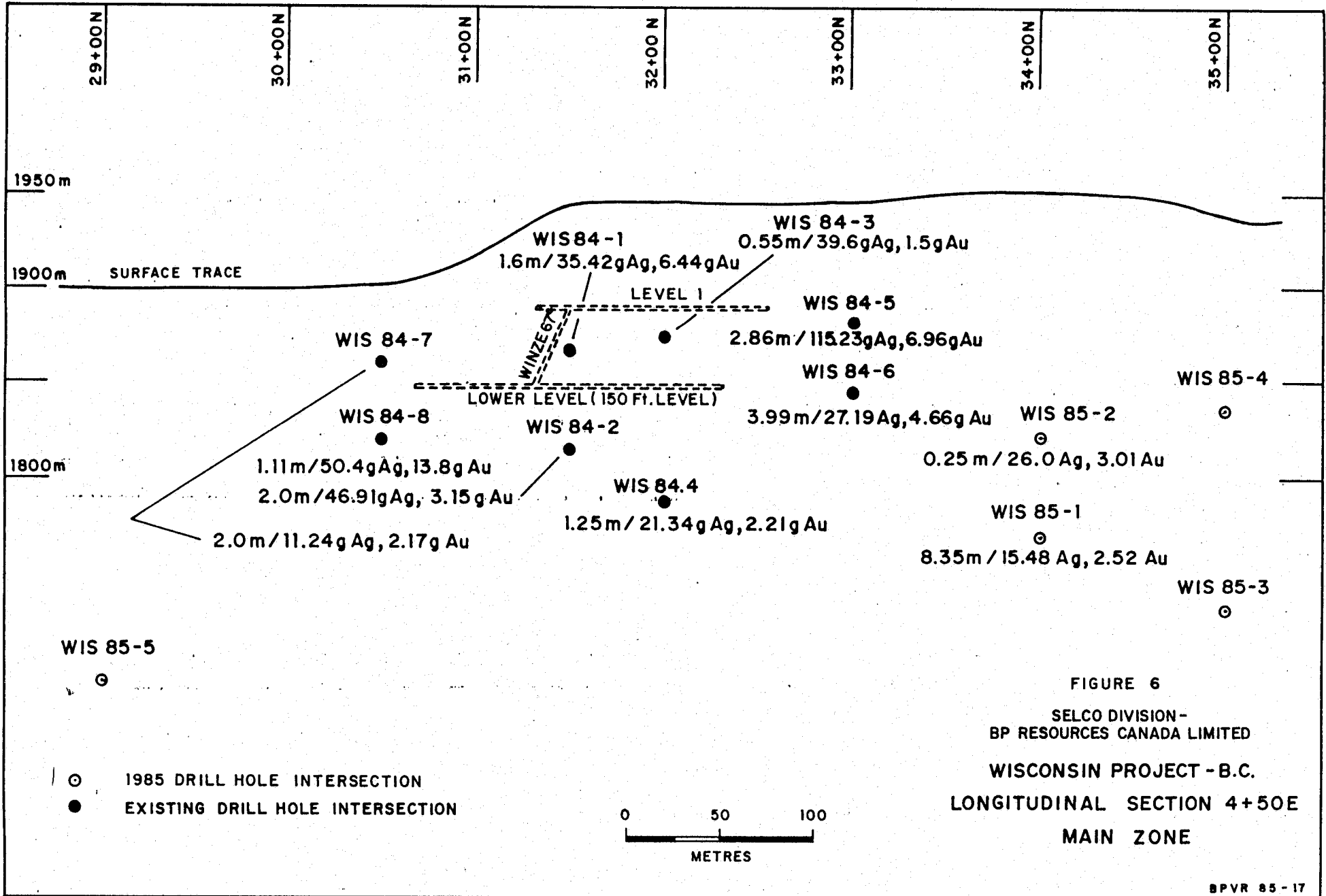


FIGURE 6
 SELCO DIVISION -
 BP RESOURCES CANADA LIMITED
 WISCONSIN PROJECT - B.C.
 LONGITUDINAL SECTION 4+50E
 MAIN ZONE

TABLE 2 WISCONSIN PROJECT - DD1 SUMMARY 1985

D.D.H.	LOCATION	D.P.	AZIM	DEPTH	REMARKS
WIS 05-1	L34+00N 3+75E	-62°	105°	150.6m	123.67 - 123.80 - M.S. - 60% Py, 15% Aspy, 10% Ba, 5% Chalco, 10% Qtz. 123.97 - 124.73 - M.S. - 60% Aspy, 35% Py, 2% Cpy, 3% Ba. 124.73 - 124.83 - Semi-massive sulphides. 40% sulphides (90% Py and 10% Aspy). 124.83 - 125.1 m - Qtz vein with 20 - 30% sulphides 85% 90% Aspy 10 - 15% Py. 127.24 - 127.6 m - Sphalerite rich shist. Massive sulphide from 127.49-127.6 m. 127.7 - 133.33 - Massive Ba/Fe dolomite with Py and Aspy stringers. Conductor location on L34+00N at 4+50E.
WIS 05-2	L34+00N 3+75E	-45°	105°	156.05m	Heavily fracture and faulted core. 129.6 - 129.69 m - M.S. - 25% Py, 20% Aspy, 5% Qtz. 131.28 - 131.35 m - M.S. - 50% Aspy, 40% Py, 10% Qtz.
WIS 05-3	35+44N 4+36E	-85°	105°	156.36m	Hole lost at 156.36. Clay seems at 95.7m and 97.53m. Hole largely grandiorite. <u>UIEH Conductor</u> located at 4+00E.
WIS 05-4	35+44N 4+36E	-75°	105°	163.06m	Hole largely grandiorite. <u>Graphite</u> on shear from 149.95 to 155.3 m. <u>UIEH Conductor</u> located at 4+00E.
WIS 05-5	29+00N 3+25E	-90°		148.13m	Foliation parallel to subparallel to CA from 80.16 m to 95 m. <u>Graphitic</u> from 144.3 m to 146.6 m. <u>UIEH Conductor</u> located at 3+00E.
WIS 05-6	20+00N 3+25E	-90°	105°	150.26	Foliated at 50° to 65° to CA. <u>Graphitic</u> from 137.55 - 139.4 m. <u>UIEH Conductor</u> located at 3+00E.

To the north, hole W85-1 and 2 intersected the following ore grade values:

DDH WISC 85-1

Samples	From	To	Core Length	Weighted Averages	
				Au Assay (g/tonne)	Ag Assay (g/tonne)
35610-35625	123.65	132	8.35 m	2.52	15.48
OR					
35610-35612	123.65	125.10	1.35	10.55	27.91
35618-35622	127.24	129	1.76	2.03	29.48
35625	131	132	1.0	1.57	6.05

DDH WISC 85-2

35631	129.50	129.75	0.25	3.01	26.0
35632	131.20	131.50	0.30	3.76	12.0

NOTE: See TABLE 3 at back of report for complete drilling details.

Re-evaluation of surface outcrop exposures indicate that possibly a series of parallel, northwest trending fault zones with a shallow dip to the northeast may be responsible for the loss of the ore zone, on section 344+00N from surface to a depth of about 60 metres, and to some indeterminate depth on line 35+44N. It is possible that such faults have displaced the upper portion of the Main Zone to the southeast where it is seen to outcrop as zones #4 and #5, which are known to have little depth from old underground prospecting.

Holes WIS 85-3 and 4, on lines 35+44N, may actually have drilled over the sub-outcropping sulphide zone, but the substantial granitic section in the hole may also have removed the upper portion of the zone which gives rise to the strong UTEM conductor.

In summary, the sulphide zone has been intersected over a strike length of some 350 metres with an average width of about 2.48 metres grading in the order of 4.02 grams gold. (The ore grade zone in drill hole WIS 85-1 is seen as 2.52 grams, but with a core of 1.35 metres of 10.55 grams gold/tonne). To the north the surface extent of the zone has been removed by faulting down to a depth of about 60 metres (line 34+00N) with an undetermined depth potential at this time.

- 2) A leveling profile survey was carried out by Mr. K. Murray of Nelson, B.C. in order to identify the relative elevations of the surface sulphide showings and the drill collars. This data was required in order to plot accurate geological sections from which a geological evaluation could be made. Results of this survey are indicated in summary in Tables 3 and 4.

TABLE 4

WISCONSIN PROJECT 10160 - SPOT ELEVATIONS

	2+00E	2+25E	2+50E	2+75E	3+00E	3+25E	3+40E	3+50E	3+75E	4+00E	4+25E	4+36E	4+50E	4+75E	5+00E
35+44N												1886.8			
34+00N			1847.4	1863.5	1876.9			1888.8	1902.9	1914.4	1919.3		1922.1	1918.7	
33+50N			1869.3	1881.5	1896.2			1909.6	1913.8						
33+00N				1902.6	1912.3			1917.5	1918.4	1917.1	1916.6		1911.4	1909.6	1907.7
32+00N			1910.5	1909.9	1913.2	1915.0	1911.0	1907.7	1898.0	1894.0	1891.0		1886.7		
31+50N		1926.0	1913.2	1907.7	1901.6	1900.5		1891.0	1879.4						
30+50N			1917.2	1909.90	1899.2	1878.8		1869.5	1868.1	1860.1	1853.2	1843.7		1832.5	
29+00N		1928.0	1921.7	1917.2	1910.2	1894.4		1876.0	1861.7	1854.1	1848.5				
28+00N			1919.0	1915.0	1908.0	1901.0		1889.0	1879.0	1867.0	1851.0				

TABLE 3
Diamond Drilling Geological Logs
and Assay Results



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

DRILL LOG

HOLE NO. WIS 85-1

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 17, 1985	PROJECT: Wisconsin
		COLLAR		105°	DATE COMPLETED: August 19, 1985	N.T.S.: 82F/7
		50 m	-62°	105°	COLLAR ELEV.: 1903 m	LOCATION: L34+00N
		105 m	-62°	105°	NORTHING: 34+00N	3+75E
		150.6 m	-63°	105°	EASTING: 3+75E	
					AZIMUTH: 105°	
					DEPTH: 150 . m	DATE LOGGED: August 20, 1985
HOLE TYPE					CORE SIZE: NO	LOGGED BY: T. Carpenter

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
0	6.09 m	Casing								
6.09	10.85	Muscovite	Dark	Medium	Foliated	Chlorite		10-15	Grey weakly foliated rock to 9.05 m with slickensiding evident on many fractures. Minor gouge also evident.	
		Sericite	grey to	to		Hematite			Foliation at 60° to 70° CA. Minor quartz veining -	
		Schist	dark	Coarse					1.2 cm quartz vein at 8.6 m at 55° to CA.	
			green							
									9.05 - 0.6 m - Granodiorite. Mafics largely altered to chlorite. White quartz phenos. to 5 mm.	
									9.8 - 9.9 m - Granodiorite. As above.	
									9.9 - 9.94 m - Highly hematized core.	
									9.94 - 10.85 m - Dark green coarse grained rock with muscovite books to 3 - 4 mm.	
									Sillimanitic. Foliated at 60° to CA. 10.22 - 10.28 m - Minor granodiorite	
10.85	14.25 m	Granodiorite	Medium	Medium	Crystal-	Chlorite		8 - 10	Contains anhedral quartz phenocrysts mafic material	
			grey	to coarse	line	Epidote			(7-9%) largely altered to chlorite. Hematite and kaolin	

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										on occasional fractures. Fractures at 45 - 60° to CA. Contains xenoliths of schistose material.
										12.3 - 12.5 m - Largely xenolithic material
										13.1 - 13.7 m - Sub parallel hematized fracture.
										13.9 - 14.25 m - Contact at 15° - 20° to CA. Marked by presence of pegmatitic quartz and muscovite. Minor hematite also present.
										13.55 - 13.65 m - Similar to 9.94 to 10.85 m.
14.25	16.55 m	Muscovite Chlorite Schist	Dark greenish grey	Medium	Foliated	Chlorite		10 - 12		Dark greenish grey weakly foliated rock. Hematitic and manganese evident on fractures. Contains muscovitic material to 2 - 3 mm in size. Minor quartz and very minor carbonate veining evident. 16.05 - 16.2 m - Sheared core.
16.55	29.3 m	Granodiorite	Dark grey to medium grey	Medium	Crystal- line	Chlorite Kaolin Epidote		8 - 10		Comprises two distinct phases of granodioritic material. To 20.3 m the granodiorite consists of mottled dark grey rock with poorly defined phenocrysts. 30% of the mafic material has been altered to chlorite. Xenolithic material is common. Quartz is white in colour Kaolin occurs on fractures to 17.7 m. Kaolinitic gouge at 17.6 m. From 20.3 m to 20.65 m occurs an interval of metasediment, medium grey in colour, which appears to be a muscovite quartz schist.



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DRILL LOG

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										At 20.48 metres occurs a 1 cm quartz vein at 70° to the CA. This vein is bounded at its lower end and by a 1 - 2 mm thick sulphide veinlet containing pyrite and possibly arsenopyrite.
										From 20.65 m to 25.7 m the granodiorite is coarser grained, contains 30% clear rounded quartz phenos. to 5 mm, 7% unaltered mafics and is peppered with epidote. Contains occasional xenoliths.
										25.7 - 26.4 m - Chlorite-muscovite schist. Dark green colour. Medium grained. Contains quartz vein from 25.9 to 26.0 m.
										26.4 - 29.3 m - Granodiorite similar to section from 20.65 to 25.7 m. Broken slightly kaolinized core from 26.6 m to 27.3 m. Xenoliths common.
29.3	35.48 m	Chlorite Muscovite Schist	Medium to dark green	Medium to Coarse	Foliated	Chlorite		10 - 15		Weakly foliated. Locally contains increased quartz-feldspathic material. Contains occasional quartz vein to 4 mm and 1 mm calcite stringers.
										30.3 - 31.4 m - Broken core with slickensides. Minor hematization to 31.0 m on fractures.
										31.85 - 32.0 m - Broken core.
										32.0 - 32.9 m - Coarser grained moderately foliated rock.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-1.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Foliations at 20° to 45° to CA. Sheared core from 32.7 to 33.0 m.
										33.0 - 31.15 m - Granodioritic material.
										33.2 - 33.3 m - Granodioritic material.
										33.8 - 34.0 m - Granodioritic material.
										33.9 - 34.0 m - Broken core
										34.0 - 34.18 m - Pegmatite. Quartz and feldspar with muscovite books.
										34.5 - 34.7 m - Granodioritic material.
										35.1 - 35.35 m - Medium grained highly sericitized rock. Possible altered granodiorite.
35.45	36.83	Granodiorite	Medium grey	Medium	Crystal-line Mottled	Chlorite		8 - 10		Contains 5 - 7% largely chloritized mafic material. Phenocrysts indistinct.
										35.75 - 35.9 m - 0.7 cm wide vein of pinkish material possibly feldspar rich.
36.83	38.0 m	Aplite	Light grey	Fine		Minor chlorite		10 - 12		Fine grained rock composed largely of quartz feldspathic material with minor inclusions of chlorite.
38.0	41.07 m	Granodiorite	Medium grey	Medium	Crystal-line	Chlorite Epidote Sericite		8 - 10		Similar to granodiorites from 20.65 to 25.7 m. Contains distinct clear quartz phenocrysts (rounded) and epidote peppered through the core. Sericite development is evident adjacent to occasional fractures.
										39.2 - 39.25 m - Chlorite rich rock with sericite at 39.15 m



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DRILL LOG

HOLE NO. WIS. 85-1.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
									47.65 - 47.66 m - Pyrite vein.	
									47.68 - 48.25 m - Foliated rock. Contains stretched quartz fragments and 5% sericite. Possible sheared granodiorite or altered metasediment.	
									48.1 - hematite bounded fractures.	
									48.2 - 48.25 m - Hematized core. Core foliated at 70° to CA.	
									49.35 - 52.0 m - Relatively unaltered core with clear quartz phenocrysts.	
									50.6 - 51.0 m - Pink aplitic material comprises 80% of core.	
									52.03 - 52.25 - Pink aplitic material	
									52.25 - 56.62 m - Mottled granodiorite sericitic with chloritized mafics contains frequent xenoliths.	
									53.0 - 53.4 m - Sheared core of indeterminate origin. Does not have intrusive texture. Possible gritty metasediment.	
									54.75 - 55.0 m - Dark green chloritic xenolith.	
									55.8 - 56.1 m - Largely xenolithic material	
56.62	62.45 m	Altered Arkosic Grit & Greywacke	Green to greenish grey	Fine to coarse	Weakly Banded	Chlorite Sericite	Pyrite	8 - 10	consists of "beds" of gritty altered arkose or conglomerate with stretched and rounded quartz and possible feldspar fragments to 1 cm in a chloritic/sericitic matrix interbedded with finer grained	



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										chlorite rich material (altered greywacke?)
										Within the "grits" are seen rounded quartz grains rimmed with whitish material--possibly sericite. On the other hand these grains may be rounded by shearing and the whitish material may be crushed quartz.
										Pyrite occurs as occasional stringers and veinlets parallel to and crosscutting foliation.
										56.68 - 56.77 m - Brown weakly hematized core.
										56.72 - 57.0 m - Grit interval. 70 - 80% quartz.
										57.00 - 57.8 m - Finer grained arkosic quartzite with occasional rounded quartz pebbles.
										Matrix contains abundant sericite and chlorite.
										57.8 - 57.92 m - Grit zone.
										57.92 - 58.2 m - Broken core.
										58.2 - 59.15 m - Grit zone. Greenish chloritic matrix. Hematitic to 58.55 m.
										59.15 - 59.46 m - Chlorite rich altered greywacke .
										Pyrite stringer at 59.27 m.
										59.35 m - Bedding at 70° to CA.
										59.46 - 59.85 m - Largely granodioritic material. Hematized from 59.56 m.
										59.85 - 60.7 m - Largely altered greywacke type material.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										Possible hematized grit or granodiorite dyke from 60.07 to 60.33 m.
										60.7 - 61.73 m - Altered arkose with occasional quartz pebbles.
										61.73 - 62.45 m - Altered greywacke. Broken core from 61.85 to 62.05 m.
										62.24 m - 2 cm wide clay zone.
62.45	64.1 m	Granodiorite	Light grey	Medium	Mottled to Crystalline	Chlorite Kaolin Sericite		10 - 15		Generally mottled rock with sericitic and chloritic matrix. Locally contains relatively unaltered mafic material. Kaolinite on fractures from 63.0 to 63.75 m which interval shows evidence of shearing. 63.35 - 63.39 m - Quartz vein.
64.1	64.2 m	Sericite Chlorite Schist	Greyish green	Medium	Foliated	Sericite Chlorite	Pyrite	8 - 10		Weakly foliated relatively soft rock of original greywacke composition. Contains approximately 5% pyrite blebs.
64.2	65.21 m	Fault Zone	Pale brown to green	Fine to coarse	Sheared	Clay Sericite		20		0.5 m lost core. Remaining material consists of clay with up to 1 cm fragments of chlorite schist.
65.21	66.25 m	Granodiorite	Light grey	Medium	Crystal-line	Kaolin		> 20		Broken core indicative of faulting from 65.21 to 66.0 m with subsequent kaolin development. The granodiorite contains about 5% relatively unaltered mafics.



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DRILL LOG

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
66.25	67.63 m	Chlorite	Greyish	Fine to	Foliated	Chlorite		> 20		Siliceous to 66.65 m. Foliated at 35 - 45° to CA.
		Sericite	green	medium		Sericite				Remainder of section is relatively soft darker green rock.
		Schist								Extensive shearing evident.
										66.85 m - 3 cm quartz vein.
										67.6 - 67.63 m - Gouge material.
67.63	69.75 m	Quartz	Dark	Medium	Porphyro-	Chlorite		8 - 10		Core of indeterminate original composition. Highly
		Chlorite	green	to	blastic					siliceous rock composed of rounded to angular quartz
		Schist		coarse						porphyroblasts to 5 mm in a dark greyish green siliceous
										chloritic matrix. Rock may be an original volcanic tuff
										or mafic rich sediment. Foliated at 20° to 45° to CA.
69.75	71.55 m	Quartz	Greenish	Fine	Foliated	Chlorite		10 - 15		Highly siliceous rock with greenish colouration imparted
		Chlorite	grey							by chlorite in matrix. Similar in composition to
		Schist								previous section but without quartz porphyroblasts.
										Foliated at 45° to CA.
										71.3 - 71.55 m - Slightly hematized core.
71.55	72.3 m	Quartz	Dark	Fine	Porphyro-	Chlorite		10 - 12		Similar to section from 67.63 to 69.75 m.
		Chlorite	greenish	to	blastic					
		Schist	grey	coarse						
72.3	76.2 m	Quartz	Greenish	Fine	Foliated	Chlorite		10 - 12		Similar to section from 69.75 to 71.55 m. Contains
		Chlorite	grey							occasional quartz veinlets and sericite rich zones.
		Schist								73.92 - 74.5 m - Sericite rich zone with quartz veining,
										75.0 - 75.2 m - Granodiorite dyke.

DRILL LOG

HOLE NO. WIS 85-1.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									75.40 - 75.53 m - Quartz vein with feldspar.	
									75.9 - 76.2 m - Broken sheared core.	
76.2	78.4 m	Granodiorite	Light	Medium	Crystal-	Kaolin		> 20	0.5 m - Lost core between 76.2 and 76.8 m. Section consists of highly sheared granodiorite with most of the section consisting of gouge material - principally kaolin.	
		Sheared	grey		line	Chlorite				
78.4	82.55 m	Sheared	Greenish	Fine	Weakly	Chlorite		20	Similar to section from 69.75 to 71.55 m. Heavily sheared and broken rock to 81.9 m with 0.5 m lost core. Appears to contain narrow granodiorite dykes which have been completely altered to kaolin gouge.	
		Quartz	grey		Foliated	Sericite				
		Chlorite Schist								
82.55	83.6 m	Granodiorite	Light	Medium	Crystal-	Chlorite		8 - 10	60 - 70% of mafic material altered to chlorite. Minor kaolin on fractures. Moderate sericite development to 82.65 m.	
			to		line					
			medium grey							
83.6	84.3 m	Chlorite	Dark	Fine	Weakly	Chlorite		10 - 15	Slightly sheared core silicified to 83.75 m. Minor carbonate veining. 84.05 - 84.1 m - Contains a black prismatic crystal - possibly tourmaline. 84.1 - 84.2 m - Possible altered granodiorite. 84.2 - 84.3 m - Similar to 84.05 to 84.1 m.	
		Sericite	green		foliated	Tourmal-				
		Schist				ine				
84.3	85.55 m	Altered granodiorite	Brownish grey	Medium	Crystal-	Sericite Epidote		8 - 10	Interval shows an intrusive texture with moderate to extensive sericite development. Interval also shows a	

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										slight greenish tinge - probably a result of epidote development. Carbonate occurs as a fracture filling.
										84.3 - 84.9 m - Extensive sericite development.
85.55	86.3 m	Chlorite	Greenish	Fine to	Weakly	Chlorite		10 - 15		Silicified to 85.65 m. Sheared quartz vein at 85.62 m.
		Sericite	grey	medium	foliated	Sericite				85.85 - 86.3 m - Medium grained sericite rich rock
		Schist								86.05 - 86.3 m - Shearing evident on fractures. Contact with granodiorite at 43° to CA.
86.3	91.5 m	Granodiorite	Medium	Medium	Crystal-	Chlorite		8 - 10		Mafic material largely altered to chlorite. Epidote is found peppered through the matrix.
			grey	grained	line	Epidote		& 20		
89.3	91.5 m	Fault zone								From 89.3 m the core is heavily fractured and locally consists entirely of gouge material. Carbonate is common as a fracture coating.
91.5	98.27 m	Chlorite	Greyish	Medium	Weakly	Chlorite	Pyrite	10 - 12		Relatively uniform in texture. Locally contains narrow granodiorite dykes, both relatively fresh and highly sericitized. Fractures commonly healed with carbonate
		Sericite	green	grained	foliated	Sericite				92.0 - 93.8 m - Heavily fractured core.
		Schist								92.0 - 92.2 m - Gouge material. Possible granodiorite.
										93 - 93.25 m - Epidotitic and chloritized granodiorite dyke.
										93.84 - 94.0 m - Sericitized granodioritic material.
										94.2 - 94.6 m - Contains quartz porphyroblasts. Possible altered grit or conglomerate.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										95.3 - 95.68 m - Sericitized granodiorite cut by pyritic quartz vein. Also contains disseminated pyrite.
										97.15 - 97.78 m - Altered granodiorite.
										97.8 - 98.27 m - Bleached sericitic and silicified schist.
98.27	101.17 m	Granodiorite	Light to medium grey	Medium	Mottled	Chlorite Sericitic		8 - 10		Overall mottled appearance with no distinct phenocrysts evident. Mafic material has been largely altered to chlorite. Brownish sericite makes up about 3% of the rock.
101.17	112.7 m	Silicified Chlorite Schist	Greenish grey	Fine	Weakly foliated	Silicification		10 - 12		Remnant local texture indicates this rock is a chlorite-sericite schist which has been intensely silicified. Quartz is evident healing hairline fractures throughout the section. Local medium to coarse grained zones may be altered granodiorite dykes. 101.65 m - Foliation at 70° to CA. 102.6 - 102.72 m - Quartz vein. 102.72 - 103.4 m - Unsilicified core 103.4 - 103.8 m - Granodiorite dyke. Mottled texture. 107.0 - 107.05 m - Quartz vein. 107.53 m - Black tourmaline healing fractures.
107.65	109.9 m	Granodiorite Dyke								107.65 - 109.9 m - Highly sericitized medium grained granodiorite with quartz phenos to 5 mm. Contains xenoliths of silicified

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										schist from 109.3 to 109.4 m and from 109.65 to 109.72 metres.
										109.9 - 110.35 m - Intensely silicified core.
										110.35 - 111.05 m - Intensely sericitized granodiorite dyke.
										110.05 - 112.70 m - Contains narrow intervals (to 10 cm) of altered granodioritic material.
112.7		Altered Granodiorite	Medium to dark green	Medium to coarse	Mottled	Epidote Chlorite Sericite	Pyrite Pyrrhotite to Barite Arsenopyrite Galena	10 - 12 115.2 m 6 - 8 from 115.2 m		The granodiorite has a greenish colour due to epidotization. Sericite is peppered through the core and is smeared along local shear induced foliations. Quartz veining to 10 cm and thicker is common. Sulphides present include disseminated pyrite and pyrrhotite, recrystallized pyrite in quartz veins, green coloured barite/Fe dolomite as fracture fillings and in quartz veins and occasional scattered veinlets of galena and arsenopyrite. Overall sulphides make up 2 - 3% of the rock.
										113.07 m - 2-3 mm wide veinlet of Galena.
										114.27 - 114.36 m - White quartz vein with barite/Fe dolomite.
										114.6 - 114.65 m - Graphite vein with 50% pyrite and arsenopyrite.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										114.65 - 114.77 m - White quartz vein.
										114.85 - 115.63 m - White quartz vein with 30% sulphides including 25% barite, 2% recrystallized pyrite and 3% arsenopyrite veinlets.
										115.92 m - 2-3 mm arsenopyrite veinlet at 70° to CA.
										116 - 116.15 m - Quartz vein at 60° to CA.
										116.3 - 116.7 m - Bull quartz vein. Pyrite cubes to 5 mm at upper contact.
										117.22 - 117.32 m) Quartz veins at 60° to CA. Pyritic.
										117.39 - 117.52 m)
										118.0 to 118.32 m - Quartz vein with 1 cm pyrite cubes at upper contact. Lower contact marked by 3 mm pyrite and 5 mm arsenopyrite veinlets at 65° to CA.
										The pyrite veinlet is found between the quartz and the arsenopyrite veinlet. Minor brecciation noted within the arsenopyrite veinlet.
										119.53 - 119.66 m - Quartz vein.
										120.15 - 120.25 m - Quartz vein at 55° to CA.
										120.52 - 120.61 m - Quartz vein with stringer of galena.
										120.7 m) Fe dolomite veinlets at 60° to CA.
										120.95 m)
										121.17 m - 3 mm Arsenopyrite and pyrrhotite stringer



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										bounding fracture.
										122.07 - 122.27 m - Black material within granodiorite - possible tourmaline.
										122.51 m - Fe - dolomite veinlet.
123.67	123.88	Massive Sulphides								123.67 - 123.88 m - Massive Sulphides. 60% pyrite, 15% arsenopyrite, 10% barite, 5% chalcopyrite and 10% quartz. The sulfides appear to be contained within a quartz vein.
										123.88 - 123.97 m - Altered granodiorite.
123.97	124.73 m	Massive Sulphides	Grey, Yellow & White	Fine to Medium	Crystal-line		Arsenopyrite, Pyrite, Chalcopyrite	4 - 6		Sulphides appear to be replacing quartz in a brecciated quartz vein. The quartz, which makes up 20 - 25% of the zone occurs as angular fragments and latticework completely surrounded by sulfides.
										The sulphides comprise 60% arsenopyrite, 35% pyrite and 2% chalcopyrite and 3% barite. The pyrite is coarser grained than the arsenopyrite and appears to be being replaced by the arsenopyrite. Chalcopyrite is found disseminated through the section.
124.73	124.83 m	Semi-massive Sulphides	Black to yellow	Fine	Crystal-line to foliated	Chlorite	Pyrite, Arsenopyrite			40% sulphides with chlorite schist. The sulphides comprise 90% pyrite and 10% fine grained arsenopyrite.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-1.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
124.83	125.1 m	Quartz vein with sulphides	White				Arseno- pyrite, Pyrite			Quartz vein contains 25 - 30% sulphides made up of 85 - 90% arsenopyrite and 10 - 15% pyrite. Sulphide grains to approximately 2 mm.
125.1	125.46 m	Chlorite Schist	Dark green	Fine	Foliated	Chlorite	Pyrite	10 - 12		Well foliated dark green to greenish grey rock containing 3 - 5% disseminated pyrite. Slightly bleached core from 125.33 m to 125.46 m. 125.18 m - Foliated at 50° to CA.
125.46	125.61 m	Quartz vein with sulphides	White to beige				Pyrite Barite			White quartz vein with 60% sulphides composed of Fe - dolomite/barite (60%) and pyrite 40%. Pyrite crystals to 2 cm in length.
125.61	126.39	Granodiorite	Light green	Medium	Mottled	Epidote Chlorite	Pyrite Sphal- erite Galena	4 - 6		Altered granodiorite containing pyrite as disseminations and stringers. Minor galena occurs in a quartz vein at 126 m. Sphalerite is found healing a fracture at 126.07 m.
126.39	126.77 m	Sericite Schist	Pale brownish grey	Fine	Foliated	Sericite	Pyrite Sphal- erite Galena	8 - 10		Contact zone between granodiorite and underlying schist. Contains 3 - 5% pyrite. Minor sphalerite and galena occur in a quartz vein at 126.63 m. Sericitic development is likely a result of alteration of chlorite schist by intrusion of granodiorite dyke.
126.77	127.24 m	Silicified	Black	Fine	Foliated	Silici-	Pyrite	8 - 10		Moderately foliated highly silicified rock. Pyrite occurs

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
		Chlorite								as discrete disseminations.
		Schist								Foliated at 60° to CA.
127.24	127.49 m	Silicified	Dark	Fine	Foliated	Silici-	Sphaler-	6 - 8		Contains 30 - 40% sulphides comprising 50% pyrite and 50% light to dark brown sphalerite. Sphalerite occurs along the foliation forming 3 - 4 mm wide continuous and discontinuous veinlets. Pyrite occurs as disseminations with grain size appearing to increase with depth.
		Chlorite	grey to	to		fication	Pyrite			
		Schist with Sulphides	brown	medium						
127.49	127.6 m	Massive Sulphides	Dark brown	Coarse	Crystal-line		Sphaler-ite			Zone contains 90% dark brown sphalerite and approximately 10% quartz.
127.6	127.7 m	Semi-massive Sulphides	Yellow	Medium	Crystal-line					Comprises 60% pyrite, 10% dolomite and 20% quartz.
127.7	133.33 m	Massive barite - Fe Dolomite with Pyrite	Beige to grey	Fine to coarse	Crystal-line foliated, banded		Barite Pyrite	6 - 8		Massive baritic iron dolomite with varying amounts of pyrite. Pyrite occurs as discrete disseminations and as veins and veinlets.
										The baritic iron dolomite occurs as coarse grained crystalline material, sand sized particles and breccia. Bedding is common. Locally the dolomite is crosscut by quartz veinlets.
										Minor galena and sphalerite is also evident.



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DRILL LOG

HOLE NO. WIS 85-1.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										127.7 - 129.0 m - Contains 10 - 15% pyrite blebs. Cut by 30° to CA quartz veins from 127.85 to 128.2 m.
										129.0 - 129.2 m - Breccia zone.
										129.2 - 129.35 m - Coarse grained material.
										129.35 to 130.5 m - Greyish, sand sized matrix with disseminated sphalerite and galena. Stylolites at 129.42 and 129.47 m.
										129.67 m - Sphalerite blebs.
										130.5 - 130.6 m - Pyrite vein coarse grained.
										130.6 - 131.0 m - Banded pyritic dolomite.
										131.0 - 131.1 m - Coarse grained material.
										131.1 - 132.4 m - Locally banded with sand size matrix material.
										132.4 - 132.9 m - Massive core with local small solution cavities.
										132.9 - 133.33 m - Banded core. Bedding(?) at approximately 60° to CA.
133.33	134.17 m	Lamprophyre	Black	Fine	Porphyritic	Carbonate		6 - 8		Black fine grained rock with 2 - 3 mm grey rounded phenocrysts of sericite(?) Carbonate rich. Similar rock in WIS 84-5 at 122.8 m.
134.17	135.0 m	Grey banded limestone	Dark grey	Fine	Bedded			6 - 8		Well bedded carbonate rich rock. Upper contact with lamprophyre cuts across bedding. Lower contact with lower lamprophyre brecciated but parallel to bedding.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Bedded at 20° to 30° to CA.
135.0	136.99 m	Lamprophyre	Black	Fine	Porphyritic			6 - 8		Similar to previous lamprophyre. However white phenocrysts are larger and some are angular. Blebs of black material are also evident in the matrix.
136.95	142.12 m	Quartz Sericite Schist	Dark grey	Fine	Foliated	Silicified	Pyrite	8 - 10		Locally contains chloritic material which imparts a greenish colouration. Well foliated/banded at 60° to CA. Cut by sub-parallel quartz vein from 138.5 - 139.2 m. 139.7 m - Hematized 20° fracture. 139.9 - 140.35 m - Broken and sheared core. 141.0 - 141.1 m - Contains brown sphalerite parallel to foliation. 141.1 - 141.95 m - Contains 3 - 5% disseminated pyrite. Increased chlorite content. 141.92 - 141.98 m - Lamprophyre with rounded olive green phenocrysts.
142.12	142.65 m	Barite/Iron dolomite with sulphides	Beige	Medium to coarse	Crystal- line		Barite Pyrite Arseno- pyrite Sphalerite	6 - 8		Coarse grained barite/Fe dolomite vein cut by veins of pyrite, arsenopyrite and sphalerite. Contains 30% py, aspy and sph made up of 50% pyrite, 40% arsenopyrite and 10% sphalerite. 142.23 - 142.29 m - Lamprophyric material. As from 141.92 - 141.98 m.

DRILL LOG

HOLE NO. WIS 85-1

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
142.65	143.05 m	Sheared Chlorite Schist	Black	Fine	Foliated Sheared		Pyrite	20		Similar in composition to zone from 141.1 to 141.95 m. Chlorite rich rock.
143.05	143.5 m	Lamprophyre	Black	Fine to medium	Porphy- ritic		Pyrite	8 - 10		Indistinct lower contact. 143.13 - 143.15 m - Pyrite vein at 60° to CA. 143.35 - 143.5 m - Contains 30% disseminated pyrite. From 143.35 the rock contains no phenocrysts and may not be lamprophyre.
143.5	150.6 m	Silicified Quartz Chlorite Schist	Dark grey to black	Fine to medium	Foliated	Chlorite Sericite	Pyrite	6 - 8		Dark grey to black highly silicified rock cut by occasional quartz veins. The rock contains a certain percentage (5 - 10%) of brownish sericite. Pyrite is found as disseminations, minor stringers and smeared along fractures. Locally the core is brownish in colour probably as a result of alteration. Strongly foliated at 30° to 45° to CA. 148.65 - 149.0 m - Brownish slightly altered core. Brown biotite rich veinlet at 148.79 m.
150.6 m		END OF HOLE								



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DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S					
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r.	%	A M T. L O S T		A u g / t	A g g / t	A s %	C u %	P b	Z n
35601	113.00	113.20	0.2		100			0.07	7.5	0.016	<0.01	0.76	0.03
35602	114.80	115.20	0.4		100			0.21	6.5	0.844	0.03	0.04	0.08
35603	115.80	116.00	0.2		100			0.41	1.7	1.910	<0.01	<0.01	<0.01
35604	116.70	117.00	0.3		100			0.14	1.9	0.365	<0.01	0.01	0.01
35605	117.00	117.60	0.6		100			0.07	0.5	0.099	<0.01	<0.01	<0.01
35606	117.60	118.00	0.4		100			0.07	1.0	0.040	<0.01	<0.01	0.01
35607	118.00	118.40	0.4		100			0.82	9.5	1.300	<0.01	0.27	<0.01
35608	121.00	121.25	0.25		100			1.16	4.7	0.513	<0.01	0.07	0.07
35609	123.00	123.65	0.65		100			0.21	2.3	0.209	0.02	<0.01	0.76
35610	123.65	123.90	0.25		100			13.0	59.5	12.500	1.18	0.03	0.04
35611	123.90	124.70	0.8		100			10.10	24.5	21.500	0.18	0.03	0.02
35612	124.70	125.10	0.4		100			7.27	8.0	7.940	<0.01	0.01	<0.01
35613	125.10	125.45	0.35		100			0.27	2.3	0.322	<0.01	0.03	0.12
35614	125.45	125.65	0.20		100			0.75	3.3	0.110	<0.01	<0.01	0.02
35615	125.65	126.20	0.55		100			0.07	15.5	0.046	0.03	0.28	0.32
35616	126.20	126.75	0.55		100			0.34	10.0	0.282	0.02	0.22	0.40
35617	126.75	127.24	0.49		100			0.07	6.5	0.064	<0.01	0.42	0.44
35618	127.24	127.49	0.25		100			2.26	84.0	0.278	0.05	5.06	9.93
35619	127.49	127.60	0.11		100			0.55	88.0	0.188	0.20	2.31	52.00
35620	127.60	127.70	0.10		100			11.40	66.0	1.220	0.04	1.03	5.54
35621	127.70	128.20	0.50		100			1.44	10.0	0.301	<0.01	0.06	0.17
35622	128.20	129.00	0.80		100			1.37	12.0	0.389	<0.01	0.06	0.04
35623	129.00	130.00	1.0		100			0.41	7.5	0.285	<0.01	0.27	0.58
35624	130.00	131.00	1.0		100			0.75	7.0	1.110	<0.01	0.04	0.02
35625	131.00	132.00	1.0		100			1.57	6.5	1.860	<0.01	0.03	0.01
35626	132.00	133.00	1.0		100			0.68	5.0	0.901	<0.01	0.03	0.03



SELCO DIVISION -
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DRILL LOG

HOLE NO. WIS 85-2

DRILLING CO. Bergeron Drilling	LOCATION SKETCH -N-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED:	August 20, 1985	PROJECT:	Wisconsin
		COLLAR	-45°	105°	DATE COMPLETED:	August 21, 1985	N.T.S.:	82F/7
		52.4 m	-46°	105°	COLLAR ELEV.:	1903 m	LOCATION:	L34+00N
		104 m	-47°	105°	NORTHING:	34+00N		3+7SE
		156 m	-48°	105°	EASTING:	3+7SE		
					AZIMUTH:	105°		
HOLE TYPE	NQ				DEPTH:	156.05 m	DATE LOGGED:	August 21, 1985
					CORE SIZE:	NQ	LOGGED BY:	T. Carpenter

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
0	3.05 m	Overburden & casing								
3.05	5.3 m	Quartz - Muscovite - Sericite Schist	Greenish grey	Fine	Weakly foliated	Chlorite Sericite		20	Greenish grey quartz rich rock. Very heavily fractured from approximately 3.75 m with 0.5 in lost core. Locally contains narrow dykes of granodioritic material. Manganese and hematite in fractures.	
5.3	6.3 m	Granodiorite	Light greenish grey	Medium	Mottled	Epidote Chlorite		20	Granodiorite dyke with frequent gouge zones consisting of kaolin and coarse sand sized material. Heavily fractured. Sub parallel fracturing and shearing also evident.	
6.3	6.5 m	Quartz Muscovite Sericite Schist	Greenish grey	Fine	Weakly foliated	Chlorite Sericite		20	Similar to section from 3.05 to 5.3 m. May be xenolith within granodiorite dyke. Foliated at 50° to CA.	
6.5	15.0 m	Granodiorite	Greenish	Medium	Mottled	Chlorite		15 - 20	Variably altered rock with extensive shearing evident.	



SELCO DIVISION -
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DRILL LOG

HOLE NO. WIS 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
			grey			Epidote				<p>Kaolin and carbonate are usually associated with the shearing. As well both kaolin and carbonate are found throughout the section. Mafic material has been completely altered to chlorite. Epidote is also present locally.</p> <p>The section contains occasional narrow intervals of schistose rock.</p> <p>6.85 - 7.1 m - Schistose rock with coarse grained muscovite/sericite to 6.9 m.</p> <p>10.0 - 10.4 m - Broken schistose and granodioritic core.</p> <p>10.85 - 11.5 m - Fine to medium grained schistose rock. Sillimanitic(?) to 11.3 m.</p> <p>11.75 - 11.8 m - Schistose rock.</p> <p>13.2 - 13.45 m - Schistose rock. Hematite after pyrite at 13.25 m.</p>
						Kaolin				
						Carbonate				
15.0	19.2 m	Chlorite	Medium	Medium	Weakly	Chlorite		15 - 20	Contains abundant sericite with flakes to 2 mm in size.	
		Sericite	green		foliated	Sericite			Fine grained quartz constitutes 50 - 60% of the rock.	
		Schist							Hematite is evident along some fractures. Contains occasional granodiorite dykes which appear to have silicified adjacent core.	
									17.5 - 17.75 m - Granodiorite dyke. Silicified core from 17.4 to 17.5 m and from 17.75 to 17.85 m.	
									17.9 - 18.1 m - Broken core with gouge.	
									18.2 - 18.45 m - Contains clasts of white rounded	



SELCO DIVISION -
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DRILL LOG

HOLE NO. WIS 85-2.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										material to 4 mm (quartz? feldspar?). Possible grit zone.
										18.45 - 18.55 - Granodiorite dyke. Upper and lower contacts at 80° and 60° to CA.
										18.55 - 18.85 m - As from 18.2 - 18.45 m.
										18.85 - 19.2 m - Crushed and broken core. 0.2 m lost core.
19.2	20.9	Granodiorite	Light grey	Medium	Mottled	Chlorite Kaolinite		10 - 15		Broken granodiorite. Locally kaolinitic. 20.60 - 20.68 m - quartz vein.
20.9	22.29 m	Chlorite Sericitic Schist	Dark green	Medium	Weakly foliated	Chlorite Sericitic		10 - 15		Similar to section from 15.0 - 19.2 m. Ubiquitous sericitic to 2 mm in size. 27.0 - 27.19 m - Granodioritic material and gouge
22.25	26.9 m	Quartz Sericitic Chlorite Schist	Greyish green	Fine	Weakly foliated	Sericitic Chlorite		15 - 20		Finer grained than previous section with increased quartz content. However does contain narrow (to 10 cm) zones of chlorite sericitic schist. Heavily fractured with minor local gouge. Foliated at 60° - 70° to CA. Minor hematite on occasional fractures. 23.85 - 24.45 m - Granodiorite dyke. Kaolin gouge at 24.0 - 24.05 m. 26.35 - 26.5 m - Paler green core. Possibly altered by granodiorite below.

DRILL LOG

HOLE NO. WIS 85-2.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
26.5	38.5	Granodiorite	Light grey	Medium	Crystal-line Mottled	Chlorite Epidote Sericite		10 - 15		Variable texture. Mottled in appearance to 31.5 m and comprising chloritized mafics and white quartzofeldspathic material. From 31.5 m the granodiorite is made up of distinct quartz and feldspar phenos with chloritized mafic material. Epidote is found peppered through the core below 31.5 m. Sericite is found on fractures predominantly and is particularly abundant from 30.7 to 31.4 m which is a zone of broken core with hematite and sericite development. Xenoliths of schistose material are found through the section. 28.3 - 28.85 m - Chlorite schist with sillimanite crystals to 1 cm. 35.5 - 35.65 m - Chloritic schistose material. 35.05 - 36.9 m - 0.3 m in lost core. 36.55 - 36.79 m - Chloritic schistose core.
38.5	46.4 m	Sheared Quartz Chlorite Sericite Schist	Grey green	Fine to medium	Foliated	Chlorite Sericite Carbonate		20		Heavily fractured with local gouge material. Consists of 50 - 60% quartz with remainder of rock made up of chlorite and sericite muscovite. Generally even textured with local coarser grained intervals containing muscovite/sericite grains to 2-3 mm. Weakly foliated at 50° to 60° to CA.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-2.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										Carbonate is common as a fracture coating. Minor manganese is also evident. Shearing generally at 45° to CA.
										39.4 - 39.6 m - Pegmatite composed of quartz, muscovite and kaolinized feldspar. Contacts at 60° to CA.
										44.2 m - Hematitic staining.
										44.75 - 44.85 m - Granodiorite dyke with sericite.
										43.65 - 46.25 m - Heavily fractured core. 0.3 m lost core.
46.4	47.2 m	Granodiorite	Light grey	Medium	Mottled	Chlorite		10 - 12		Contains 7 - 10% mafics largely altered to chlorite. 46.9 - 47.05 m - Schistose rock. Siderite veinlet at 47.09 m at 50° to CA.
47.2	64.31 m	Quartz Sericite Schist - Highly sheared	Greenish grey	Medium	Weakly foliated	Sericite		10 - 15		Variably textured rock. Contains abundant sericite flakes to 2-3 mm which appear to be largely randomly oriented though locally imparting a weak foliation. Contains occasional bluish porphyroblasts of probable sillimanite composition. Quartz is an abundant matrix material. Also contains occasional fine grained disseminated material - possibly tourmaline. Shearing is evident on most fractures. Hematite and chlorite/serpentine are found as fracture coatings as is occasionally sericite.



SELCO DIVISION -
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DRILL LOG

HOLE NO. WIS 85-2.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Granodiorite dykes to approximately 30 cm are found at infrequent intervals.
										49.3 - 49.68 m - Sheared, kaolinitic granodiorite.
										53.0 - 55.95 m - Moderately sheared rock with ubiquitous hairline fracturing rehealed with hematite and occasionally manganese. Brownish in colour.
										55.95 - 64.31 m - Heavily sheared rock. Slickensides evident on most fractures. Decrease in hematite. Increased chlorite.
										60.8 - 61.0 m - Altered granodiorite.
										61.0 - 61.9 m - Heavily sheared core.
										Approximately lost core between 47.2 and 64.31 m.
64.31	65.53 m	Gouge and coarse sand	Light brown	Fine to medium	Sandy					Predominantly sand with rounded fragments to 5 mm of quartz/chlorite material. 0.4 m lost core.
65.53	78.3 m	Very heavily fractured Chlorite Sericite Schist	Dark green	Fine to medium		Chlorite Sericite		20		Very heavily fractured core with most fragments measuring less than 3 cm in size. Over 6.0 m lost core. Contacts are impossible to accurately define due to the broken nature of the core. 65.53 - approximately 70.7 m - Dark green chlorite rich



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										rock.
										Approximately 68.0 m - Sillimanite evident in core.
										Approximately 70.7 - 71.0 m - Granodiorite dyke.
										71.0 - 77.11 m - Medium grained chlorite sericite schist.
										77.11 m - Granodiorite pebbles and gouge evident.
										Extent unknown.
										Approximately 77.8 - 78.2 m - Granodioritic material with kaolin.
78.3	84.0 m	Altered granodiorite	Light grey to dark green	Medium	Mottled	Chlorite Sericite	Pyrite	20		Core variably altered. Dark greenish in colour to 78.8 m due to chlorite and sericite alteration. This section also contains several narrow bands of schistose material.
										78.8 - 79.0 m - Broken kaolinitic rock with moderate sericite development.
										79.0 - 80.5 m - Light grey to medium grey core. Slight to moderate sericite development. Core becomes darker in colour from 80.16 m.
										79.2 m - Pyrite bounding quartz vein.
										80.5 - 81.99 m - Medium grey granodiorite. Broken core - 0.5 m lost core. Kaolin and sericite development along fractures as well as carbonate.
										81.99 - 82.5 m - Dark green heavily chloritized core with sericite. Grain size similar to granodiorite. However zone may be altered schist.



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DRILL LOG

HOLE NO. WIS. 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										82.5 - 83.21 m - Medium green rock with disseminated and patchy sericite. Highly fractured from 82.7 m - 0.3 m lost core.
										83.21 - 84.0 m - Medium green chloritic and sericitic granodiorite. Broken core.
84.0	84.43 m	Altered Schist (?)	Medium green	Medium	Weakly foliated	Chlorite Sericite		20		Locally weakly foliated core at approximately 45° to CA. Texturally the rock resembles an altered granodiorite. However due to the altered nature of both the schist and the granodiorite in this zone, it is very difficult to tell them apart.
84.43	91.65 m	Altered Granodiorite	Light grey to dark green	Medium	Crystal-line to mottled	Chlorite Sericite	Pyrite	20		Chloritic alteration ranges from slight to intense. Sericite alteration is less well developed except in xenoliths of schist within the granodiorite. Within the granodiorite sericite/muscovite is most evident along fractures. Slickensides are evident on most fractures with indicated movement at right angles to the CA. Fractures range from 30° to 60° to CA.
										84.43 - 86.0 m - Light grey granodiorite Sericitic fractures. Minor pyrite blebs evident in core.
										86.0 - 86.33 m - Medium green coarser grained chloritic



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

DRILL LOG

HOLE NO. WIS 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.):	MINERALIZATION, TYPE, AGE RELATIONS
									and sericitic core. Schist(?)	
									86.33 - 86.4 m - Dark green heavily chloritized granodiorite.	
									86.4 - 86.5 m - Quartz rich zone with 70 - 80% coarse quartz in a sheared chloritic matrix.	
									86.5 - 87.4 m - Light grey to medium green granodiorite with inclusions of xenolithic material.	
									87.4 - 88.5 m - Largely fine grained schistose material. Pale to medium green in colour.	
									88.5 - 89.1 m - Medium grained granodiorite with phenocrysts of bleached feldspar.	
									89.1 - 89.4 m - Medium to coarse grained chlorite sericite schist. Dark green in colour.	
									89.4 - 90.0 m - Medium green granodiorite.	
									90.0 - 91.65 m - Weakly to moderately hematized granodiorite.	
									90.85 - 91.0 m - Medium grained sericitic core. Possible schist.	
91.65	95.32 m	Quartz Chlorite	Greenish	Fine	Chlorite			20	Heavily fractured core - 0.7 m lost core. Locally coarser grained and possibly sillimanitic. Slickensides evident on most fractures. A 20 cm thick granodiorite dyke is evident between 93.57 and 95.09 meters. Exact location indeterminate due to broken and lost core.	
		Sericite Schist	grey		Sericite					
									95.1 - 95.32 m - Course grained sericitic and sillimanitic core.	

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
95.32	98.4 m	Altered Granodiorite (?)	Brown	Medium		Hematitic Sericitic		10 - 15		Apparent hematized granodiorite. However the rock appears to be somewhat finer grained than previous granodiorite. The presence of quartzitic material below this section may indicate a sedimentary origin - possible arkose. Chlorite and hematite are found healing fractures through the section. Weak Leisegang banding evident at 96.0 m. Sericite occurs as disseminations and fracture fillings throughout the section. 96.85 - 97.2 m - Sub parallel quartz vein bounded by hematite.
98.4	99.35 m	Quartzite	Light grey to brown	Fine	Banded	Hematitic Sericitic		8 - 10		Fine grained banded core at 50° to CA. Sericite evident along banding. Strongly hematized from 98.78 m. Minor quartz veining from 98.78 - 98.85 m. 99.0 - 99.35 m - Sericitic core with rounded quartz clasts to 1 cm.
99.35	99.9 m	Chlorite Sericite Schist	Dark green	Medium	Weakly foliated	Chlorite Sericite		15 - 20		Similar to previous sections of chlorite sericite schist with micaceous material to 2-3 mm in size. Hematized fractures at 45° to 60° to CA.
99.9	103.64 m	Granodiorite	Greenish grey	Medium	Mottled	Sericite Chlorite	Pyrrhotite	12 - 15		Mottled textured core. Poorly developed granodioritic texture to 101.3 m - possible mixture of granodioritic and metasedimentary material. 100.9 - 101.4 m - Quartz veining to 3 cm. 102.6 - 102.8 m - Tourmaline veining evident.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										102.75 m - Pyrrhotite blebs in core.
										103.05 - 103.5 m - Broken core - gouge and sand.
103.64	108.55 m	Quartzite and Quartz Sericite Schist	Grey to greenish grey	Fine	Banded and weakly foliated	Sericite Chlorite		10 - 15		Quartzite containing variable amounts of chlorite and sericite. Increased chlorite and sericite impart a schistose texture to what is essentially a quartzitic rock. Contains occasional dykes of granodiorite.
										103.79 - 104.05 m - Sericite healed fractures.
										104.9 - 105.15 m - Granodiorite dyke.
										105.95 - 106.25 m - Granodiorite with chloritic and sericitic matrix.
										106.53 - 106.85 m - Granodiorite.
										106.85 - 107.1 m - Gritty zone. Sheared granodiorite(?)
										107.1 - 107.29 m - Granodiorite. Broken core.
										107.25 - 107.6 m - Chlorite rich zone.
										108.33 - 108.55 m - Contains approximately 70% granodioritic material.
108.55	109.1 m	Chlorite Sericite Schist	Dark green	Medium grained	Weakly foliated	Chlorite Sericite		12 - 15		Medium grained rock identical in texture to previous sections - as from 15.0 - 19.2 m. Contains muscovite/sericite flakes to 2-3 mm in size.
109.1	110.6 m	Granodiorite	Greenish grey	Medium	Mottled	Sericite Chlorite Hematite		20		Heavily fractured core. 0.5 m lost core. Hematized from 109.1 to 109.25 and locally through remainder of core. Manganese and hematite evident on fractures.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
110.6	113.7 m	Chlorite	Dark	Medium	Weakly	Chlorite		15 - 20	Moderately fractured core. Composed predominantly of quartz and does not show the amount of muscovite/sericite evident in previous chlorite - sericite schists. Possibly transitional between quartz - chlorite schist and chlorite sericite schist. 110.92 - 111.1 m) Granodiorite dykes. Hematitic and 111.1 - 111.35 m) limonitic. 113.3 - 113.38 m - Contains 3 mm clasts or porphyroblasts of black material - tourmaline(?) 113.3 m - Hematite healed fracture. Black tourmaline on boundaries. 113.38 - 113.48 m - Hematite and limonite healed fractures	
		Sericite	greenish		foliated	Sericite				
		Schist	grey			Hematite				
113.7	117.85 m	Granodiorite	Pale green	Medium	Mottled to Porphyritic	Epidote Chlorite Hematite		12 - 15	Variably textured rock containing occasional xenoliths and inclusions of metasedimentary material. Locally hematized. Calcite and quartz are present healing fractures. 113.7 - 114.35 m - Fine to medium grained mottled rock. 20 - 30% hematized. Hematitic fractures. 114.35 - 115.31 m - Coarser grained granodiorite. Hematized core to 115.18 m. 115.31 - 115.95 m - Quartzite. Pale grey in colour. 115.95 - 117.55 m - Porphyritic granodiorite consisting of rounded quartz phenos to 8 mm	

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. WIS 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										in an epidotized matrix.
										117.55 - 117.85 m - Hematized granodiorite.
117.85	120.3 m	Quartz Sericitic Schist	Greenish grey	Fine	Weakly foliated	Sericitic		12 - 15		Sheared upper chlorite rich contact to 118.6 m. Sheared at 80° to CA. Two quartz veinlets to 1 cm within shear zone. Locally the section is greener in colour due to an increase in chlorite.
										118.85 - 119.0 m - Granodioritic material.
										119.95 - 120.1 m - Granodioritic material.
										120.1 - 120.3 m - Finer grained quartzitic core. Hematized sheared lower contact.
120.3	123.05 m	Granodiorite	Greenish grey	Fine to medium	Mottled	Sericite Chlorite Epidote	Pyrite	10 - 12		Even textured mottled granodiorite. Non porphyritic. Broken core from 122.3 m to 123.05 m.
										Contains occasional blebs of pyrite and pyrrhotite and quartz veinlets to 4 mm at 50° to 70° to CA.
										122.0 - 122.25 m - Quartz veins.
123.05	124.25 m	Quartz Sericitic Schist - Silicified	Dark greenish grey	Fine	Mottled and weakly foliated	Sericite		15 - 20		Mottling of quartz and sericitic material imparts a weak foliation of about 55°. The section has been silicified. Bleaching is evident from 124.05 m.
124.25	125.35 m	Granodiorite	Light	Medium	Mottled	Sericite		15 - 20		Typical granodiorite with quartz phenocrysts to 4 mm



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
			grey							in a sericitic matrix. Hematite is evident on parallel to sub parallel fractures. Sheared lower contact.
										124.95 - 125.0 m - Similar to material from 123.05 to 124.25 m.
125.35	129.6 m	Quartz Chlorite	Greenish	Fine to	Foliated	Chlorite		15 - 20		Foliated at 60° to CA. Contains varying amounts of chlorite and sericite locally. Also contains disseminated black fine grained material near beginning of section - possibly tourmaline.
		Sericite Schist	grey	medium		Sericite				128.9 - 129.05 m - Granodiorite dyke. 129.05 - 129.6 m - Coarser grained sericite/muscovite evident in core.
129.6	129.65 m	Massive Sulphides	Yellow to grey	Fine to medium	Crystal-line		Pyrite Arsenopyrite			Comprises 75% pyrite and 20% arsenopyrite and 5% quartz. Sulphide vein at 60° to CA.
129.65	132.0 m	Granodiorite	Medium grey	Fine to medium	Mottled to crystal-line	Sericite Chlorite	Arsenopyrite Pyrite	15 - 20		No phenocrysts evident. Consists of relatively fine grained quartz in a largely sericitic matrix. Most of the mafic material has been altered to chlorite. Contains occasional quartz and carbonate fracture fillings.
131.28	131.35	Massive Sulphides								131.28 - 131.35 m - Massive sulphides. 50% fine grained arsenopyrite, 40% medium grained pyrite and 10% quartz.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										131.43 m - 1 cm wide arsenopyrite veinlet at 50° to CA. Offset by microfaulting.
132.0	138.07 m	Altered Granodiorite	Rusty brown	Medium	Crystal- line	Hematite Sericite		15 - 20		Hematitic locally brecciated core with fractures rehealed by hematite. No sulphides evident. Moderately fractured. Most fractures are hematite coated. Cut by occasional narrow quartz vein.
										134.9 - 135.6 m - Possible chlorite sericite schist.
138.07	138.55 m	Fault zone	Dun to black	Fine		Chlorite Manganese				Section largely consists of clay material with grit sized fragments of schist and kaolinized granodiorite. Foliated at 60° to CA.
138.55	156.05 m	Silicified Volcanic Tuff	Black to grey	Fine	Banded and foliated	Chlorite Skarnified		6 - 8		Black to grey massive well bedded and foliated rock. Composed largely of silicified chlorite and fine grained mafic material. Locally skarnified and bleached.
										Made up of black chloritic material with discontinuous interbeds of white to pale greenish material. Cut by occasional quartz and carbonate veinlets.
										141.5 m - Foliated at 60° to CA.
										141.75 - 141.95 m - White and grey quartz veining.
										143.25 - 143.50 m - Skarnified zone with garnet.
										145.4 - 145.5 m - Breccia.



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DRILL LOG

HOLE NO. WIS 85-2

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										146.4 m - Inclusion of granodioritic material.
										146.65 - 146.7 m - Breccia.
										148.89 - 149.2 m - Quartz vein.
										152.3 - 153 m - Fine grained dark grey rock.
										153.0 - 156.05 m - Black fine grained rock with less distinct banding evident. Foliated at 60 - 65 ^o to CA.
156.05		END OF HOLE.								



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DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S						
N U M B E R	F R O M	T O	T O T A L M E T R E S	S p. G r	%	A M T. L O S T		A u g/t	A g g/t	A s %	C u %	P b %	Z n %	B a %
35631	129.50	129.75	0.25		100			3.01	26	2.6	0.18	0.20	0.14	0.04
35632	131.20	131.50	0.30		100			3.16	12	10.3	0.03	0.04	0.01	0.04

DRILL LOG

HOLE NO... WIS. 85-3.....

DRILLING CO. Bergeron Drilling	LOCATION SKETCH N	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 22, 1985	PROJECT: Wisconsin
		COLLAR	-85°	105°	DATE COMPLETED: August 24, 1985	N.T.S.: 82F/7
		150.26 m	-86°	105°	COLLAR ELEV.: 1887 m	LOCATION: 35 + 44 N
					NORTHING: 35 + 44 N	4 + 36 E
					EASTING: 4 + 36 E	
					AZIMUTH: 105°	
					DEPTH: 156.36 m	DATE LOGGED: T. Carpenter
HOLE TYPE NO					CORE SIZE: NO	LOGGED BY: August 26, 1985

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	{FRACTURES, FAULTS, FOLDING, BEDDING, ETC.}	MINERALIZATION, TYPE, AGE RELATIONS
0	3.05 m	Casing								
3.05	77.0 m	Granodiorite	Greenish grey	Medium	Crystal-line Porphyritic	Chlorite Sericite Epidote		8 - 10		Consists of relatively fresh to moderately altered granodiorite. The "fresh" granodiorite contains partially chloritized mafic material. The more altered granodiorite contains completely chloritized mafics, sericite and varying amounts of epidote.
										Composition of the granodiorite as a whole is as follows: 30% quartz, 60% feldspar and 10% mafics.
										Quartz phenos to 1 cm are evident locally.
										Hematite and manganese are common on fractures.
										6.3 - 7.0 m - Slightly hematized brownish core.
										8.0 - 8.65 m - Broken core.
										9.2 - 9.6 m - Epidotitic and sericitic core.
										10.99 - 11.2 m) Hematitic core.
										11.8 - 12.05 m)



SELCO DIVISION -
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EXPLORATION

DRILL LOG

HOLE NO. WIS 85-3

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										17.0 - 17.7 m - Moderately fractured core. Hematite and manganese on fractures.
										20.25 - 21.5 m - Broken core. 0.3 m lost core.
										23.3 - 24.25 m - Epidotized, sericitic and hematitic core.
										24.25 - 36.27 - Slightly coarser grained core with quartz phenos to 1 cm slightly epidotized but relatively unaltered.
										26.45 - 26.8 m - Sericitic and slightly hematitic core.
										29.25 - 29.4 m - Sericitic core.
										29.7 - 30.2 m - Sericitic core. Hematitic and manganitic fractures.
										30.45 - 30.59 m - Sericitic and epidotitic core.
										30.59 - 36.27 m - Increased epidote with local sericitic zones.
										34.05 - 36.27 m - Broken core. 1.7 m lost core.
										36.27 - 39.93 m - Broken core. Shearing evident. Kaolin and carbonate on sheared fractures.
										37.85 - 37.95 m - Fine sand and clay.
										39.01 - 39.6 m - Less fractured zone.
										39.93 - 40.37 m - Epidotized core. Heavily hematized fractures at 40.2 and 40.28 m.
										41.95 - 43.1 m - Sericitic and epidotitic core. It is noticeable that mafics are not evident within the sericitic zones. It is



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EXPLORATION:

DRILL LOG

HOLE NO.

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									probable that they have been altered to pale green chlorite which is indistinguishable from the background material.	
									42.75 - 42.97 m - Hematitic core.	
									44.16 - 44.28 m - Hematitic core.	
									45.22 - 45.5 m - Hematite healed sub parallel fracture.	
									45.55 - 45.75 m - Hematitic core.	
									46.5 - 48.65 m - Sericitic, epidotitic and hematitic core. Sub parallel hematized fracture from 47.6 to 48.46 m.	
									50.7 - 51.2 m - Broken core.	
									51.25 - 51.5 m - Hematitic and sericitic core.	
									52 - 53.03 m - Broken core. Kaolinitic. 0.4 m lost core.	
									53.95 - 54.9 m - Slightly hematized sericitic core.	
									54.85 - Heavily hematized fracture.	
									55.25 - 56.1 m - Sericitic and epidotitic core.	
									56.85 - 57.5 m - Broken core.	
									58.5 - 59.0 m - Sericitic and epidotitic core.	
									60.5 - 61.6 m - Sericitized and epidotitic core weakly hematized from 60.7 m. Clay and kaolin on fracture at 61.57 m.	
									61.57 - 61.85 m - Sub parallel fracture.	
									61.85 - 64.0 m - Broken core. 1.0 m lost core.	
									64.0 - 67.4 m - Hematized core with numerous hematite healed hairline fractures.	



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EXPLORATION

DRILL LOG

HOLE NO. WIS 85-3.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									68.5 - 70.0 m - Hematitic core. Hematized fractures.	
									70.35 - 70.5 m - Hematitic core.	
									70.5 - 73.35 m - Epidotized matrix.	
									73.35 - 74.5 m - Sericitic and epidotitic core.	
									74.5 - 75.2 m - Slightly hematized epidotitic core.	
									75.2 - 75.59 m - Heavily fractured core.	
									75.59 - 77.0 m - Moderately to heavily fractured hematitic core.	
77.0	93.9 m	Granodiorite	Grey to greenish grey	Medium	Mottled Crystal- line	Epidote Sericite Chlorite	Pyrite	8 - 10	Similar in texture to previous section. However, mafics have become increasingly chloritized. An increase in epidote and sericite is evident over previous section. Beginning of section (at 77.0 m) is purely arbitrary and does not mark a distinct difference in alteration at this point. It rather marks a point where alteration frequency is becoming more prevalent and noticeable.	
									Pyrite occurs as occasional blebs. Hematite and chlorite occur as fracture fillings. Contains occasional quartz veins. No mafics evident in sericitized and epidotized core.	
									77.0 - 77.3 m) Hematitic core.	
									77.6 - 78.2 m)	
									77.3 - 77.6 m - Epidotized and sericitized core.	
									78.85 - 79.2 m - Hematitic core.	
									81.2 - 82.25 m - Sericitic and epidotitic core.	



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DRILL LOG

HOLE NO. WIS 85-3

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
									81.27 - 81.3 m - Quartz vein.	
									81.3 - 81.38 m - Intensely sericitized core.	
									81.38 - 81.52 m - Quartz rich zone with kaolin and sericite.	
									81.09 - 81.73 m - Quartz vein.	
									82.5 - 83.35 m - Sericitic and epidotitic core.	
									82.6 - 82.62 m - Quartz vein	
									82.25 - 82.30 m - Quartz vein. Bounded by pyrite.	
									83.35 - 90.45 m - Medium grained granodiorite with 35 - 40% quartz. Peppered with epidote and mafics have been chloritized. However very little sericite is evident.	
									86.55 - 86.59 m - Quartz vein with pyrite at base.	
									87.94 - 87.96 m - Quartz vein.	
									87.96 - 88.0 m - Highly muscovitic core.	
									90.55 - 90.65 m - Muscovitic core.	
									90.95 m - 1 cm thick pyrite vein.	
									91.18 - 91.21 m - Quartz vein.	
									91.32 - 91.39 m - Quartz vein.	
									91.45 - 91.52 m - Quartz vein.	
									91.78 - 91.85 m - Quartz vein.	
									91.85 - 92.05 m - Sheared granodiorite. Quartz phenos in a pale green chloritic matrix.	
									92.05 - 92.13 m - Quartz vein.	
									92.27 - 92.57 m - Quartz vein.	
									92.57 - 93.9 m - Sheared granodiorite. As above	

DRILL LOG

HOLE NO. WIS 85-3

INTERVAL		ROCK TYPE	COLOR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS	MINERALIZATION, TYPE, AGE RELATIONS
93.9	97.8 m	Fault	Pale							Comprises sheared and faulted grandiorite. The sheared rock is composed of angular to rounded quartz fragments (formerly phenocrysts) in a pale green chloritic/sericitic matrix. Sand and gouge material evident locally. 3 cm quartz vein with pyrite selvages evident between 94.18 - 95.70.	
		Zone in	green								
		Grandiorite									
97.8	117.98 m	Grandiorite	Greenish	Medium	Crystal-line	Chlorite	Pyrite	8 - 10		Massive grandiorite containing 35 - 40% quartz. 10% largely chloritized matrix material and 50 - 55% feldspars. Epidote alteration is not pervasive but is disseminated through the core. Sericite occurs adjacent to quartz veins.	
			grey							Pyrite is found as occasional blebs and stringers.	
										100.1 m - 1.3 m of clay and sand which is redillied material slumped into the hole from the sand and clay seams at 95.7 and 97.53 m.	

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										100.69 - 100.73 m) Quartz veins.
										100.93 m)
										101.6 m)
										104.25 - 105.85 m - Quartz vein with sericite. 0.25 m lost core.
										106.6 - 106.67 m - Pale green epidotized aplite.
										109.0 - 110.94 m - Broken sheared core. Slickensiding evident.
										110.5 - 110.94 m - Sand and clay seam. Keolinitic. Carbonate rich.
										111.12 - 111.20 m - Aplitic material.
										113.18 - 113.61 m - Sericitic core.
										113.81 - 114.20 m - Sericitic core. Quartz vein with pyrite at 114.2 m.
										116.7 - 117.98 m - Sericitic core. Sheared from 117.85. Shearing at 65° to CA.
117.98	130.4 m	Quartz	Brownish	Fine to	Weakly	Sericite	Pyrite	8 - 10		Massive rock with brownish colour due to presence of 15 - 20% sericite. Principal constituent of the rock is quartz which constitutes approximately 50% of the rock. Other components include chlorite and muscovite. Foliated at approximately 50° to CA. Pyrite are present as blebs and stringers and comprise approximately 2% of the rock. The section occasionally contains bluish material, possibly sillimanite.
		Sericite	grey	medium	Foliated		Pyrr-			
		Schist					hotite			



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										117.98 - 119.1 m - Bleached core.
										119.41 - 119.78 m - Contains approximately 30% quartz.
										129.2 - 129.75 m - Bleached silicified core.
										129.15 - 129.75 - Chlorite and muscovite rich core.
										129.75 - 130.40 m - Granodiorite dyke.
130.4	135.3 m	Quartz	Greenish	Fine	Weakly	Chlorite	Pyrr-	10 - 15		Appears to be a slightly silicified version of
		Chlorite	grey		foliated	Sericite	hotite			previous section with a decrease in sericite and a
		Sericite Schist								corresponding increase in chlorite. Foliated at 10°
										to 60° to CA. Locally bleached.
										Pyrrhotite occurs as minor stringers. Slickensides
										evident from 135.0 to 135.3 m.
										133.75 - 133.95 m - Quartz veining.
										134.07 - 134.19 m - Granodiorite dyke.
135.3	143.5 m	Quartz	Brownish	Fine	Foliated	Sericite	Pyrr-	10 - 15		Combines features of previous two sections. Made up
		Sericite	grey to			Chlorite	hotite			of sericite rich zones interlayered with chlorite rich
		Chlorite	greenish							silicified zones. The latter is probably a result
		Schist	grey							of silicic alteration.
										Foliation in the sericite rich zones averages 50 - 60°
										to CA. Within the silicified zones foliation ranges
										from 10 - 60° to CA.
										138.2 - 138.6 m - Broken core. Marks base of
										predominantly sericitic core.

DRILL LOG

HOLE NO. WIS 85-3

INTERVAL		DESCRIPTION							STRUCTURE		REMARKS
FROM	TO	ROCK TYPE	COLOR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS	
143.5	145.92 m	Sheared and brecciated Chlorite	Dark grey to black	Fine	Foliated	Chlorite	Pyrr-	10 - 12	Section is cut by numerous rehealed hairline fractures. Microbrecciation is ubiquitous. Contains fractured quartz veins and carbonate stringers. Foliated at 50° to 70° to GA. Dark green to black chloritic alteration is extensive.	Pyrrhotite occurs as an occasional fracture filling.	
145.92	150.5 m	Grey banded Limestone	Medium grey	Fine	Bedded and banded		Pyrite	8 - 10	Grey well bedded rock with beds ranging from 50° to 70° to CA. Some folding and minor shearing evident. Contains minor disseminated pyrite.	150.16 - 150.31 m - Epidotized core cut by carbonate veins.	
150.5	153.1 m	Limestone	Black	Fine	Bedded	Local Silicification		10 - 12	Bedded at 30 - 45° to CA. Locally silicified core. Pyrite and manganese on fractures in limestone.	151.3 - 152.5 m - Largely silicified core.	
										152.85 - 153.0 m - Quartz veining.	



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
153.1	155.3 m	Quartzite	Light grey	Fine	Weakly foliated	Chlorite Local skarn Hematite		10 - 12		Predominantly grey fine grained silicified rock. Contains occasional bands of chloritic and sericitic material. Carbonate is present on most fractures. Foliated at 30 - 45° to CA. Most fractures are also hematite coated. 153.95 - 154.35 m - Skarn with garnet development.
155.3	156.36	Brecciated Limestone	Medium grey	Fine	Brecciated weakly foliated	Hematite		20		Heavily fractured grey limestone with carbonate healing fractures. Hematite is evident on most features.
156.36 m		END OF HOLE								Hole lost at 156.36 m due to sanding in of rods. Core tube and bit not recovered.

DRILL LOG

HOLE NO. WIS 85-4

DRILLING CO. Bergeron Drilling Greenwood, B.C.	LOCATION SKETCH -N-	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR	-75°	105°	August 24, 1985	Wisconsin
		46 m	-75°	105°	DATE COMPLETED:	N.T.S.:
		100.58 m	-75°	105°	August 27, 1985	82F/7
		163 m	-74°	105°	COLLAR ELEV.:	LOCATION:
					1887 m	35 + 44 N
					NORTHING:	4 + 36 E
					EASTING:	
					AZIMUTH:	
					105°	
					DEPTH:	DATE LOGGED:
					163.06 m	August 28, 1985
HOLE TYPE					CORE SIZE:	LOGGED BY:
NQ					NQ	T. Carpenter

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	3.05 m	Casing								
3.05	115.8 m	Granodiorite	Brownish grey to greenish grey	Medium	Crystal- line	Chlorite Epidote Potassic Sericitic	Pyrite	10 - 15		Granodiorite with 30% quartz phenos to 5 mm, 10% mafics largely altered to chlorite and 60% feldspar. Fractures are coated with hematite and manganese. Epidote is found peppered through the core and is locally pervasive. Sericite is a minor alteration mineral. The core occasionally contains pinkish material which appears to be K-feldspar and indicative of minor potassic alteration. This alteration may be due to the presence of aplitic material which is found cutting the granodiorite. 4.0 - 4.57 m - White fine grained rock. Aplitic in appearance. Contains plates of chlorite (after biotite?) to 4.05 m. 5.06 - 5.6 m - Pale green to brownish epidotized and hematitic aplite.



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DRILL LOG

HOLE NO... WIS 85-4

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS	
										5.6 - 7.35 m - Greenish granodiorite with increased epidote alteration.	
										7.35 - 8.8 m - Brownish slightly hematitic core.	
										8.8 - 9.7 m - Epidotitic and chloritic core. No mafics evident. Locally hematized.	
9.7	11.55 m	Aplite								9.7 - 11.55 m - Aplite. Fine grained pale green rock with occasional plates of chlorite after biotite. Pink material at 10.0 is probably K-Feldspar.	
										11.95 - 12.45 m - Aplite. Beige in colour.	
										15.2 - 15.68 m - Epidotitic and sericitic core.	
										16.0 - 16.65 m - Moderately fractured core.	
										16.65 - 17.63 m - Heavily fractured core.	
										17.63 - 19.6 m - Moderately fractured core.	
										19.6 - 20.29 m - Sericitized and weakly hematized core.	
										23.2 - 23.5 m - Hematitic brown core. Heavily hematized fractures.	
										24.0 - 24.4 m - Sericitized hematitic core.	
										24.95 - 25.7 m - Sub parallel hematitic fractures.	
										27.8 - 27.83 m - Clay seam.	
										27.83 - 28.7 m - Broken core. Minor kaolinite development on fractures.	
										30.1 - 30.9 m - Epidotitic and sericitic core. No mafics evident. Hematized from 30.6 m.	
										32.18 - 34.45 m - As from 30.1 - 30.9 m. Hematized fractures.	



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DRILL LOG

HOLE NO. WIS. 85-4

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										33.25 - 34.45 m - Moderately hematized core.
										35.05 - 35.99 m - Largely epidotitic and sericitic core. 1 cm hematite siderite vein at 35.62 m. Core is hematized from 35.45 m to 35.62 m.
										38.0 - 38.45 m - Hamttitic core.
										39.84 - 40.05 m - Epidotitic and sericitic core.
										40.87 - 41.2 m - Broken hematized core.
										41.2 - 42.8 m - Epidotitic and sericitic core.
										43.1 - 43.4 m - Epidotitic and sericitic core.
										44.0 - 44.25 m - Slight to moderate hematization.
										45.35 - 50.2 m - Contains 40% hematized core consisting of quartz phenos in a largely hematized matrix. Moderately fractured core. 15 - 20 fractures/ metre.
										51.7 - 54.65 m - Green epidotitic and sericitic core. Minor mafic material evident locally. Also disseminated pyrite. Hematitic from 54.15 - 54.55 m.
										56.35 - 57.1 m - Epidotitic and sericitic core. Hematitic to 56.65 m.
										57.43 - 57.33 m - Hematitic core.
										64.92 - 66.0 m - Epidotitic and sericitic core. Hematitic to 66.67 m.



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DRILL LOG

HOLE NO. WIS 85-4.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
									66.38 - 67.3 m - Largely epidotitic and sericitic core. Slightly hematized from 66.85 m.	
									74.67 - 77.51 m - As from 66.38 - 67.3 m.	
									74.8 - 75.08 m - Hematized core. Quartz vein from 74.9 - 74.98 m.	
									75.4 - 75.8 m - Hematized core.	
									79.0 - 80.7 m - Epidotitic and sericitic core.	
									79.29 - 79.32 m - Quartz vein with black material (tourmaline?) at and near contact.	
									79.38 - 79.46 - Quartz vein with minor pyrite and tourmaline filled fractures.	
									79.57 - 79.72 m - 3-4 mm wide tourmaline filled fracture. Contains microbrecciated material.	
									80.35 - 80.49 m - Quartz vein. From about 75.0 m the mafic material within the granodiorite appears to be slightly less chloritized. Visually, the chloritic alteration ranges from 80% to 40% of the mafics.	
									80.7 - 106.85 m - Large zones (0.2 cm) of sericitic/ epidotitic core are less common than in the section to 80.7 metres.	
									85.75 m - 2 cm quartz vein with coarse pyrite. Bounded by sericitic and hematitic core.	



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DRILL LOG

HOLE NO... WIS 85-4

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
									89.68 - 89.75 m - Quartz vein bounded by hematitic and sericitic core.	
									89.82 - 90.25 m - Epidotitic and sericitic core.	
									90.6 - 91.5 m - Hematized core.	
									93.15 - 93.5 m - Epidotitic and sericitic core. Hematized from 93.25 m.	
									96.6 - 98.0 m - Epidotized and sericitized core.	
									98.95 - 100.2 m - Broken core. Minor kaolinite on fractures.	
									100.2 - 100.5 m - Epidotized and sericitized core.	
									101.03 - 101.14 m - Quartz vein.	
									106.85 - 115.8 m - Increased epidotitic and sericitic alteration noted.	
									106.85 - 107.85 - Largely epidotized and sericitized core.	
									106.92 - 106.94 m - Quartz vein.	
									106.97 m) Galena and sphalerite filling fractures.	
									106.99 m)	
									108 - 109.11 m - Moderately fractured core. Hematite on fractures.	
									109.05 - 109.55 m - 60% quartz veins.	
									109.55 - 111.3 m - Epidotized and sericitized core.	
									110.1 - 110.2 m - Quartz vein.	
									111.0 m - Quartz vein with pyrite and black fine grained tourmaline. Bounded by muscovitic alteration.	



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DRILL LOG

HOLE NO. WIS 85-4

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										112.4 - 115.8 m - Largely epidotized and sericitized core.
115.8	121.7 m	Quartz Chlorite Schist	Greyish green	Fine to medium	Weakly foliated	Chlorite Local Silici- fication	Pyrite	20		Heavily fractured rock. Hematized fractures from 117.34 - 118.6 m. Foliated at 60° to 70° to CA. Fractures are predominantly parallel to foliation. Contains occasional 1 cm quartz veins. Contains 1 - 2% disseminated pyrite. Silicified to 116.2 m. 121.3 - 121.7 m - Heavily fractured core.
121.7	130.72 m	Granodiorite	Greenish grey	Medium	Crystal- line Mottled	Epidote Sericite Muscovite	Pyrite	8 - 10		Mottled core with weak to moderate epidotitic and sericitic alteration locally. Muscovite development is evident adjacent to quartz veins. 126.05 - 126.35 m - Extensive sericite development. 127.84 - 127.92 m - Quartz vein. 129.14 - 129.29 m - Quartz vein bounded by sericite and muscovite alteration. 129.75 - 129.79 m - Quartz vein bounded by sericite and muscovite. 130 - 130.25 m - Broken core. 130.9 m - 1 to 1.5 cm pyrite vein bounding quartz vein.
130.72	134.3 m	Silicified Quartz	Medium green	Fine	Weakly foliated	Silicified Epidotized	Pyrite	20		Very heavily fractured core to 134.11 m. Rock is greenish in colour and appears to have been extensively

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
		Chlorite Schist								silicified and epidotized. Contains disseminated pyrite. Heavily fractured to 132.2 m. Very heavy fracturing from 132.2 to 133.7 m with fragments measuring less than 3 cm in size. 0.5 m lost core. Foliated at 60 - 70° to CA.
134.3	137.15 m	Faulted Quartz Chlorite Schist	Dark green	Fine grained		Chlorite	Pyrite	20		Extremely fractured and sheared quartz chlorite schist. Contains minor pyrite locally, especially along fractures. Minor hematite. Extensive shearing evident.
137.15	138.37 m	Granodiorite	Greenish grey	Medium	Mottled	Epidote Chlorite Sericite	Pyrite	15 - 20		Granodiorite dyke with extensive alteration. Disseminated pyrite. Moderately fractured.
138.37	145.1 m	Quartz Chlorite Schist	Greenish grey	Fine to medium	Weakly foliated	Chlorite	Minor pyrite	15 - 20		Heavily fractured quartz chlorite schist with chlorite, manganese and hematite on fractures. Contains occasional narrow granodiorite dykes. 139.5 - 139.59 m - Granodioritic material. 140.6 - 140.9 m - Granodioritic material. 141.7 - 142.3 m - Grey fine grained silicious material. Possible altered granodiorite. 144.5 - 144.6 m - Altered granodiorite. Quartz phenos in chlorite/epidote matrix. 144.8 m - Quartz fragments.

SELCO DIVISION -
BP RESOURCES CANADA LIMITED**DRILL LOG**

HOLE NO. ... WIS 85-4 ...

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										145 - 145.1 m - Hematized silicified core.
145.1	149.05 m	Altered Granodiorite	Brown to green	Medium	Crystal- line	Hematitic Chlorite Epidotic		10 - 15		Heavily hematized core from 145.1 to 145.7 m. Locally sericitic. 145.7 - 146.6 m - Epidotitic and chloritic core with hematized fractures. 146.6 - 147.21 m - Heavily hematized core. 147.21 - 149.05 m - Consists of rounded to angular quartz phenocrysts in a dark green chloritic and epidotitic matrix.
149.05	149.7 m	Shear Zone	Grey to black		Weakly foliated	Carbonate veining Hematiz- ation		20		Composed of brecciated limestone and black chloritic material cut by numerous stringers and veinlets of calcite. Heavily hematized fractures to 149.35 m.
149.7	149.95 m	Grey banded Limestone	Grey	Fine	Banded	Carbonate veining		8 - 10		Grey brecciated limestone with fractures rehealed by calcite. Microbrecciation evident. Banded at 50 - 60° to CA.
149.95	155.3 m	Sheared Chlorite Schist Graphitic	Black	Fine	Weakly foliated	Chlorite Pyrite		10 - 15 to 151.8 m 20 from 151.8		Black heavily sheared chloritic rock containing graphite. Extensive rehealed brecciation evident to 151.8 m. Graphite and chlorite evident on sheared fractures. Breccia rehealed with carbonate and chlorite.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION							STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS	
										151.8 - 155.3 m - Sheared and broken core. Pyrite evident on shear fractures.	
155.3	163.06 m	Quartz Chlorite Schist	Dark grey	Fine	Foliated	Chlorite	Pyrite	6 - 8		Massive well foliated rock with foliations parallel to sub parallel to CA. Contains occasional carbonate healed fractures. Pyrite and pyrrhotite occur as disseminations and along fractures. Highly siliceous core. Manganese also occurs as a fracture coating.	
										162.65 - 163.06 m - Medium grey core.	
163.06		END OF HOLE.									



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DRILL LOG

HOLE NO. WIS 85-5

DRILLING CO.	LOCATION SKETCH	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED:	PROJECT:
		COLLAR	-90°		August 28, 1985	Wisconsin
		48 m	-89°		DATE COMPLETED:	N.T.S.:
		98 m	-88°		August 29, 1985	82F/7
		148 m	-88°		COLLAR ELEV.:	LOCATION:
					1894 m	129 + 00 N
					NORTHING:	3 + 25 E
					EASTING:	
					AZIMUTH:	
					DEPTH:	DATE LOGGED:
HOLE TYPE					148.13 m	August 30, 1985
NQ					CORE SIZE:	LOGGED BY:
					NQ	T. Carpenter

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
0	9.14 m	Casing								
9.14	13.3 m	Muscovite	Brownish	Fine	Foliated	Hematized		20		Moderately hematized rock due to surface weathering.
		Chlorite	grey							Foliated at 45° to CA. Heavily hematized fractures
		Schist								cut by occasional quartz veinlets to 1 cm.
13.3	19.1 m	Quartzite	Light	Fine	Banded	Chloritic		20		Contains well defined local foliation with foliation
			brown		and	Weakly				defined by presence of chloritic material. Hematitic
					foliated	hematized				fractures occasional quartz veins.
										14.5 m - Banded at 50° to CA.
										15.4 m - Foliated at 50° to CA.
										15.85 - 16.1 m - Quartz veining evident.
19.1	26.52 m	Chlorite	Greenish	Fine to	Foliated	Chlorite		20		Chlorite and muscovite alteration of sedimentary rock.
		Muscovite	grey to	medium		Muscovite				Strongly foliated. Extensive fracturing found
		Schist	brown			Hematite				throughout the section. Hematite and manganese are
										found on fractures. Hematite also stains the rock
										a brown colour throughout most of the section.



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DRILL LOG

HOLE NO. WIS 85-5.....

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										Quartz veining and granodiorite dikes evident at intervals through the section.
										Foliated at 45 - 50° to CA.
										20.5 - 22.55 m - Very heavily fractured rock.
										23.1 - 23.29 m - Granodiorite.
										23.35 - 26.52 m - Moderately to heavily fractured hematized core.
										25.0 - 25.3 m - Quartz vein.
26.52	31.15	Muscovite	Greenish	Fine to	Foliated	Chlorite				Unaltered version of previous section strongly foliated at 45° to 50° to CA. Locally hematized. Contains occasional granodiorite dykes and sills.
		Chlorite	grey	medium		Muscovite				
		Schist				Hematite				
										Contains minor fine grained black material peppered through the section which appear to be chlorite blebs or possibly tourmaline.
										26.52 - 26.83 m - Hematized core.
										27.4 - 27.9 m - Granodiorite at 40° to CA.
										28.5 - 29.2 m - Hematized core.
										30.48 - 30.58 m - Altered granodioritic material.
31.15	40.1 m	Muscovite	Medium	Fine	Foliated	Muscovitic		15 - 20		Core becomes lighter grey in colour with less chlorite. Contains approximately 5% disseminated blebs of black material to 1 mm in size. This material is relatively soft and is probably chlorite.
		Schist	grey			Hematitic				

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										33.1 - 35.1 m - Hematized fractures.
										35.85 - 37.05 m - Hematized core.
40.1	45.3 m	Chlorite	Brownish	Fine	Foliated	Chlorite		15 - 20		Foliated at 50° to CA. Hematite is common on fractures
		Muscovite	to green-			Muscovite				to 44.6 m. The peppery black material seen in the
		Schist	ish grey			Hematite				previous section is less common in this section.
										Gradational contact with underlying quartzite.
45.3	47.5 m	Quartzite	Greenish	Fine	Banded	Chlorite		12 - 15		Largely quartzitic interval with narrow interbeds of
			grey to							chloritic schistose material.
			brownish							46.9 m - Banded at 60° to CA.
			grey							45.65 - 46.3 m - Quartz veining.
47.5	52.7 m	Chlorite	Brownish	Fine	Foliated	Chlorite		20		Heavily fractured core with hematized fractures.
		Sericite	green			Sericite				Sericite content in parts a pale brownish colour to
		Schist				Hematite				the core.
52.7	56.0 m	Muscovite	Brownish	Fine	Foliated	Muscovite		15 - 20		Hematitic fractures in a dark brownish grey rock.
		Chlorite	grey			Chlorite				Contains 3-5% fine grained blackish material peppered
		Schist				Hematite				through the rock.
										55.3 - 55.4 m - Pale green altered core.
56.0	57.9 m	Silicified	Greenish	Fine	Foliated	Chlorite		15 - 20		Silicified rock largely composed of quartz with
		Quartz	grey		and	Silicifi-				10 - 15% chlorite. Locally darker grey in colour
		Chlorite			banded	cation				with increased chlorite content. Hematite evident
		Schist								on occasional fractures.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
57.9	60.5 m	Silicified Chlorite Schist	Dark grey	Fine	Weakly foliated	Chlorite Silicified		12 - 15		Weak banding and foliation evident at 50° to CA. Grades into quartzitic rock at base of section. 58.0 - 58.4 m - Quartz vein. 58.4 - 58.5 m - Biotite rich rock. 59.25 - 59.9 m - Granodioritic material.
60.5	66.75 m	Quartzitic Quartz Chlorite Schist	Grey to greenish grey	Fine	Banded and foliated	Silicified		10 - 15		Interbedded quartzite and chloritic quartzite. Locally rusty brown in colour. Bedded at 45° to CA. 63.1 - 63.7 m - Broken core with highly hematized fractures. 66.0 - 66.4 m - Dark brown fine grained sericitic rock - possibly altered intrusive. 66.4 - 66.75 m - Quartzite.
66.75	71.2 m	Quartz Chlorite Schist	Dark greenish grey	Fine to medium	Foliated	Chlorite- ized Weakly skarn- ified	Pyrite Pyrr- hotite	10 - 12		Strongly foliated/banded at 45° to CA. Composed of impure quartzite with narrow interbeds of chlorite rich material. Locally contains garnet porphyroblasts to 3 mm. Locally sheared. Minor pyrite and pyrrhotite stringers occur through the core. Possible sillimanite locally. 67.5 - 67.85 m - Garnetiferous zone.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
71.2	80.16 m	Quartz Chlorite Muscovite Schist	Medium grey	Medium to coarse	Foliated	Muscovite Chlorite		10 - 15		Contains coarse grained muscovite and chlorite. Cut by quartz vein and granodiorite. At 75.4 m - foliation parallel to CA. 73.0 - 73.7 m - Broken hematized core. 74.8 - 75.3 m - Granodiorite with aplite from 74.9 to 75.1 m. 75.8 - 76.29 m - Brecciated quartz vein rehealed with chlorite. 76.25 - 76.35 - 10% black 2 mm porphyroblasts in muscovitic/chloritic matrix. 76.35 - 78.0 m - Foliation parallel to CA. Quartz veining and quartz fragments prominent. 78.0 - 79.1 m - Bull quartz vein with minor pyrite, pyrrhotite. 79.3 - 79.93 m - Quartz veining with minor pyrite. Schistose material adjacent contains chlorite(?) needles or plates.
80.16	86.95 m	Chlorite Serpentine (??) Schist	Greenish grey	Fine	Foliated	Chlorite Sericite (?)	Pyrite	10 - 15		Foliation parallel to core axis. Consists of interlayered chloritic and fine grained pale greenish grey material. The latter can be easily scratched with a knife and has a soapy feel - possibly serpentine as does not appear to be soft enough to be talc as pyrophyllite. Minor pyrite occurs as stringers.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										This section is much finer grained than previous section.
										82.5 - 83.35 m - Brown altered core.
										83.05 - 84.2 m - Parallel to sub parallel. Highly hematized fracture.
										84.2 - 86.0 m - Dark greenish grey rock with increased chlorite.
										86.0 - 86.9 m - Quartz vein.
										81.9 m - Coarse grained muscovite material.
86.95	88.15 m	Granodiorite (Altered)	Greenish grey	Medium	Crystal- line	Epidotitic		6 - 8		Altered granodiorite with quartz and muscovite in a largely epidotized matrix. A 1.5 cm garnet occurs at 87.12 m. 87.55 - 87.65 m - Xenolithic material.
88.15	92.0 m	Chlorite Schist (Silicified)	Black to medium grey	Fine	Foliated	Silicified	Pyrr- hotite	6 - 8		Similar to section to 86.95 but contains 70% silicified chloritic material and 25% softer medium grey material (serpentine?) Foliation varies from 0° to 15° to CA. Pyrrhotite stringers from 90.7 to 90.95 m.
92.0	98.65 m	Quartz Chlorite Schist	Greenish grey	Fine to medium	Foliated and banded	Local skarn- ification Silici- fication	Pyrite Pyrr- hotite	8 - 10		Core is lighter in colour with sharp change in foliation, which trends from 15° to 50° to CA in this section. The core is locally bleached and/or altered to a

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
										brownish colour and appears to be skarnified. Silification is moderate to intense. Pyrrhotite/pyrite stringers are found at intervals through the section but at most comprises 1-2% of core. Calcite occurs healing occasional fractures. 95.8 - 96.15 m - Quartz veining.
98.65	104.15 m	Quartz Chlorite Schist	Dark grey	Fine to medium	Foliated and banded	Chlorite	Pyrrhotite	8 - 10		Differs from previous section in that the rock is a uniform dark grey colour with no skarnification. Contains frequent calcite filled hairline fractures. Well banded at 101.6 m at 50° to CA. Rock contains 2-3% pyrrhotite predominantly as a fracture filling and along bedding from 101.2 to 101.8 m.
104.15	133.0 m	Silicified Quartz Chlorite Schist	Greenish grey	Fine	Foliated and banded	Chloritic Silicic Epidotitic	Pyrrhotite Pyrite	8 - 10		Similar to section from 92.0 - 98.65 m. Consists of interbeds of chlorite rich material and quartz rich material. The latter generally pale green in colour - presumably due to the epidotization of feldspathic material within the matrix. The quartzitic epidotized zones are quite siliceous. Carbonate if found healing hairline fractures and tension fractures. Pyrite and pyrrhotite are found along fractures and

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										as minor veinlets.
										104.8 m - Foliation at 45° to CA.
										106.9 - 107 m - Microfaulting.
										107.55 - 107.75 m - Microfaulting at 90° to CA.
										108.8 - 108.9 m - Broken hematized core.
										109.85 - 110.8 m - Broken core. 0.9 m lost core.
										114.8 - 122.0 m - Core is darker grey in colour with less epidotized (?) material.
										119 - 121.91 m - Moderately to heavily fractured core. Approximately 0.7 lost core.
										115 m - Foliation at 60° to CA.
										118.9 m - Foliation at 50° to CA.
										122.0 - 130.7 m - As from 104.15 - 114.8 m - i.e. chloritic and epidotitic material. Greenish grey in colour. Increased chlorite. Thin section from 104.19 m.
										130.7 - 133 m - As from 114.8 - 122.0 m.
133.0	139.92 m	Quartz Chlorite Schist	Dark grey to pale green	Fine	Foliated and banded	Skarn- ified	Pyrrhot- ite	8 - 10		Dark grey silicified schistose rock composed largely of quartz and chlorite with possibly epidotized feldspathic material. Foliated at 45° to 60° to CA. Contains pyrrhotite coating fractures. Contains intervals of siliceous skarn comprising bleach silicified epidotitic rock with garnet development.



SELCO DIVISION -
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DRILL LOG

HOLE NO. WIS 85-5

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
									133.25 - 133.45 m - Skarn zone.	
									133.7 - 134.6 m - Skarn zone.	
									135.15 - 135.9 m - Skarn zone. Bleached epidotized, silicified and chloritic core.	
									Garnetiferous from 135.45 to 135.7 m.	
137.9	139.92 m	Skarn							137.9 - 139.92 m - Skarn. As above from 135.15 - 135.9 m with extensive garnet development.	
									Foliated at 50° to CA.	
139.92	143.7 m	Quartz Chlorite Schist	Dark grey to black	Fine to medium	Foliated	Chlorite	Pyrite Mangan- ese	8 - 10	Well banded rock with minor folding and microbrecciation evident. Foliation from 10° to 50° to CA.	
									Pyrite and manganese are found on fractures.	
									140.6 - 140.7 m - Quartz vein.	
									142.5 - 142.7 m - Sub parallel fracturing. Shearing evident.	
									143.45 m - 2 cm quartz vein.	
143.7	144.1 m	Granodiorite	Light grey	Medium	Mottled	Chloritic		12 - 15	Granodiorite with chloritized mafic material.	
									Hematized fractures.	
144.1	148.13 m	Quartz Chlorite	Dark grey	Fine	Foliated	Chlorite	Min- pyrite	20	Heavily fractured core dark grey to black in colour.	
									144.3 - 144.75 m - Black sheared graphitic core with minor pyrite.	
									146.0 - 146.6 m - Black sheared graphitic core with carbonate veins. Foliation	

DRILL LOG

HOLE NO. WIS 85-5

INTERVAL	FROM	ROCK TYPE	CLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	REMARKS MINERALIZATION, TYPE, AGE RELATIONS
	TO									

148.13 m										highly distorted.
										146.6 - 148.13 m - Broken core with occasional carbonate veins.

148.13 m END OF HOLE

DRILL LOG

sample data

NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	% AMT. LOST	VISUAL ESTIMATES (% ORE MINERALS)	As g/t	Ag g/t	As %	Cu %	Pb %	Zn %
35634	106.90	107.10	0.2		100		4.07	40.5	0.08	0.03	1.75	1.26
CORE RECOVERY												
ASSAY RESULTS												

DRILL LOG

HOLE NO... WIS. 85-6.....

DRILLING CO. Bergeron Drilling	LOCATION SKETCH N	DEPTH	TESTS DIP ANGLE	AZIMUTH	DATE STARTED: August 30, 1985	PROJECT: Wisconsin
		COLLAR	-80°	105°	DATE COMPLETED: September 2, 1985	N.T.S.: 82F/7
		47 m	-78°	105°	COLLAR ELEV.: 1901 m	LOCATION: L28 + 00N
		97 m	-76°	105°	NORTHING: 28 + 00 N	3 + 25 E
		147 m	-74°	105°	EASTING: 3 + 25 E	
HOLE TYPE NO					AZIMUTH: 105°	
					DEPTH: 150.26 m	DATE LOGGED: September 2, 1985
					CORE SIZE: NO	LOGGED BY: T. Carpenter

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE (FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE		
0	6.1 m	Casing								
6.1	17.0 m	Sillimanite Muscovite Schist	Brown to grey	Fine to medium	Porphy- roblastic	Hematite Chlorite		15 - 20	Core contains 30 - 40% grey-blue porphyroblasts in a muscovitic-chloritic matrix. The porphyroblases appear to be sillimanite, however some porphyroblasts may be quartz. The porphyroblasts range up to 4 mm in size. The core has hematized fractures and locally hematized matrix. Occasional quartz veining is noted. Moderately to heavily fractured core. 6.1 - 6.2 m - Quartz fragments. 10.25 - 14.0 m - Heavily fractured core. Quartz fragments at 12.8 m.	
17.0	21.3 m	Quartz Muscovite Schist	Greenish grey	Fine	Foliated	Chlorite Hematite		20	Grey rock composed largely of quartz and muscovite with some chlorite development. Contains narrow intervals of sillimanitic core. Foliated at 60° to CA. Moderately to heavily hematized fractures with minor	

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
									manganese.	
									17.95 - 18.05 m - Sillimanitic core.	
									18.3 - 18.9 m - Broken core.	
									19.1 - 19.4 m - Siliceous rock. Possible quartzite bed. Beds at 60° to CA.	
									19.4 - 19.65 m - Silicified core.	
									20.5 - 21.3 m - Light grey to light brown. Slightly bleached core.	
21.3	21.7 m	Altered Lamprophyre	Dark Brown	Fine	Porphyritic	Hematitic		15 - 20	Very heavily hematized broken rock. Consists of black phenocrysts to 2 mm and remnant plagioclase laths in a dark brown heavily hematized matrix.	
21.7	28.15 m	Quartzite	Light Brown	Fine grained	Bedded	Hematitic		20	Siliceous light brown rock with minor foliation locally. The rock has been stained a light brown colour which is pervasive. Micaeous material has been altered and heavily stained by hematite. Minor quartz veining evident. Foliation and bedding at 60° to CA.	
									22.8 - 22.9 m - Quartz vein.	
									25.0 - 26.0 m - Heavily fractured core.	
									26.8 - 28.04 m - Heavily fractured core.	
									28.04 - 28.15 m - Heavily hematized schistose core.	
28.15	38.7 m	Quartz Muscovite	Greenish grey	Fine	Foliated	Chlorite Hematite		10 - 15	Fresh rock little subjected to surface weathering. Occasional hematized fractures. Well foliated	



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										at 60° to CA. Composed of quartz and muscovite with minor chlorite. Occasional quartz veins. 29.6 - 29.7 m - Quartz vein. 31.9 - 38.7 m - Core becomes darker grey in colour to 35.35 m and is slightly maroon in colour from 35.35 to 38.7 m. 38.42 - 38.7 m - Hematized core.
38.7	40.2 m	Quartzite	Light grey	Fine	Weakly foliated	Chlorite		8 - 10		Massive core with weak local chloritic foliation and local hematite staining. Cut by occasional quartz veins. No sulphides evident.
40.2	53.05 m	Quartz Muscovite Chlorite Schist	Maroon to dark grey	Fine to medium	Foliated	Chlorite Hematite		12 - 15		Foliated at 60° to 65° to CA. Variably hematized to 44.7 m. Locally banded. Chlorite peppered through core. 42.5 - 42.65 m - Contains rounded to angular quartz grains to 4 mm. Possible altered grit. 41.7 - 42.0 m - Quartz vein bounded by bleached core. 44.3 - 44.65 m - Heavily hematized core. 49.3 - 49.45 m - Highly epidotized granodiorite dyke. 49.7 - 49.93 m - Dark brown rock with fine grained biotite (?) 50.0 - 50.3 m - Bleached core and quartz. 51.0 - 51.5 m - Hematized core. Moderately fractured

DRILL LOG

HOLE NO... WIS 85-6

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										with heavily hematized fractures.
51.5	52.88 m	Fault zone								51.5 - 52.88 m - Fault zone. Broken core and gouge. 0.7 m lost core.
53.05	56.25 m	Quartzite	Light brown	Fine	Bedded	Chlorite Sericite		15 - 20		Weakly hematized rock that appears to have been silicified. Hematitic fractures. Locally schistose. Much of the original chlorite has been altered to sericite. Banded and foliated at 60° to CA. Cut by occasional narrow (to 4mm) quartz veins parallel to foliation. Base of zone marked by quartz veining.
56.25	60.1 m	Quartz Chlorite Schist	Dark grey	Fine to medium	Foliated	Chlorite Sericite		10 - 12		Dark grey rock peppered with about 5-7% "clots" of black material to 3 mm in size. These clots are likely to be chlorite. Bleached slightly hematized core to 56.8 m. 56.95 m - 1.5 cm pegmatite. 58.0 - 58.4 m - Slightly hematized brownish core with hematized fractures. 59.0 - 59.2 m - Broken hematized core. 59.2 - 60.1 m - Slightly coarser grained rock.
60.1	70.41 m	Biotite Muscovite	Black	Medium to	Foliated Porphy-	Biotite Muscovite		10 - 12		Black rock containing fragments of what appears to be remnant mafic material as well as white material

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
		Schist - Altered Diorite?		Coarse	roblastic	Chlorite				which may be feldspar fragments. This material is completely different from other rock types in this hole and gives the impression of being a schistose highly altered diorite. Upper contact is marked by a quartz vein from 60.15 to 60.2 m. Foliated at 50 - 55° to CA. 60.2 - 62.6 m - Greenish in colour and contains 30 - 40% epidote(?) 60.45 - 60.51 m - Quartz vein. 60.95 - 61.2 m - Hematized core. 62.8 - 63.9 m - Slightly to moderately hematized core. 67.6 m - Chlorite on fracture. 69.75 - 70.35 m - Broken core and gouge. 0.4 m lost core. 70.41 m - Gouge and clay.
70.41	93.2 m	Quartz Chlorite Schist	Dark grey to dark brown	Fine to medium	Foliated	Chlorite		8 - 10		May contain minor sericite and possibly biotite in darker brown areas. Overall the core is very siliceous except in areas of coarse chlorite development. Foliated and locally banded at 60° to CA. 70.6 - 71.2 m - Hematized core with hematitic features. 71.45 - 71.62 m - Broken core. Highly chloritic. 75.05 - 75.59 m - Broken core. Hematized fractures.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										71.7 - 77.3 m - Core predominantly dark brown in colour.
										77.3 - 78.2 m - Dark grey core.
										78.2 - 78.39 m - Dark brown core.
										78.39 - 78.56 m - Highly epidotized material - altered granodiorite(?)
										78.56 - 80.2 m - Interbanded grey and dark brown core.
										80.2 - 80.26 m - Quartz vein.
										80.26 - 84.12 m - Medium grey core.
										80.87 - 81.07 m Quartz vein.
										84.12 - 86.5 m - Grey core with up to 60% patchy brown alteration - composition unknown, possibly sericite or light brown biotite.
										Crosscut by chlorite healed fractures.
										86.5 - 93.2 m - Grey locally slightly brownish core.
										91.2 - 91.6 m - Sub parallel fractures healed with carbonate and quartz. Slightly bleached core.
										92.7 - 93.2 m - Broken core with hematized fractures.
93.2	93.65 m	Skarn	Green and brown	Coarse	Porphyritic	Epidotitic		10 - 15		Consists of light brown garnet crystals to 3 cm in a pale green epidotized matrix. Pyrrhotite occurs as a fracture filling and makes up 1-2% of the rock.

DRILL LOG

HOLE NO. WIS 85-6

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
93.65	100.8 m	Skarnified Quartz Chlorite Schist	Brownish grey to brown	Fine to medium	Foliated Mottled	Skarn- ified	Pyrrho- tite	8 - 10		Core has an overall mottled appearance due to the development of a dark to maroon brown material which may be medium brown biotite. Locally, extensive secondary chlorite development and epidotization is evident. Zones of intense skarnification are few and overall the core appears to be slightly to moderately skarnified. 94.35 - 94.5 m - Skarn. As from 93.2 to 93.65 m. 95.6 m - Minor garnetiferous skarn material. 100.35 - 100.5 m - Quartz vein.
100.8	102.05 m	Skarn	Light green and brown	Fine to coarse	Porphy- ritic	Epidotitic				Consists predominantly of light to medium brown garnets in a pale green epidotized matrix. Quartz and chlorite evident locally. The interval also contains areas of extensive chlorite development and minor siliceous bleached material. Foliated at 60° to CA.
102.05	108.5 m	Skarnified Quartz Chlorite Schist	Dark grey to brownish grey	Fine	Weakly foliated	Skarn- ified	Pyrrho- tite Pyrite	6 - 8		Pyrrhotite is much more extensive than in previous sections, makes up 3-5% of the rock and is found along foliation, healing fractures and as "wisps" throughout the core. Pyrite is found on fractures. The core has a somewhat mottled appearance due to the development of epidote, chlorite and the previously described brownish material. Highly siliceous core.



DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										103.1 - 103.6 m - Bleached core with sub parallel quartz healed fractures.
										105.05 - 105.3 m - Dark brown core bounded by bleached material 1 cm wide. Contains 10 - 15% pyrrhotite.
108.5	115.8 m	Quartz Chlorite Schist	Dark grey	Fine	Foliated	Silicified	Pyrite	12 - 15		Dark grey to black rock with very little evidence of skarnification. The core is moderately fractured from 112.16 m and contains fine grained pyrite on fractures. Carbonate occurs as a fracture filling.
115.8	121.07 m	Skarnified Quartz Chlorite Schist	Greenish grey to dark brown	Fine to medium	Foliated	Chlorite Epidote Biotite(?)	Pyrr- hotite Pyrite	8 - 10		Consists of greenish grey chloritic and epidotitic core interlayered with dark brown possibly biotitic core. Locally contains coarser grained chloritic material e.g. 120.4 - 120.8 m
121.07	122.2 m	Lamprophyre	Black	Fine	Porphyritic	Sericitic				Consists of black to greenish and rounded phenocrysts to 2 mm in a black fine grained matrix. The phenocrysts from earlier thin section work are usually sericitic in composition. Carbonate on fractures 121.29 - 121.35 m - Calcite healed breccia. 121.58 - 121.7 m - Xenolith of altered schist. 122.08 - 122.2 m - Bleached pale green core with bright green phenocrysts.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC):	MINERALIZATION, TYPE, AGE RELATIONS
										Upper contact at 90° to CA. Lower contact sheared at 45° to CA and hematized.
122.2	135.63 m	Quartz Muscovite Chlorite Schist	Dark grey	Fine	Banded and Foliated	Chlorite Epidote	Pyrite Pyrrhotite	8 - 10		Well banded rock consisting of varying amounts of chlorite and muscovite. Is a dark grey quartzofeldspathic matrix. The banding is caused by quartz rich and chlorite rich layers. Minor epidotization of the quartzofeldspathic material is noted to 126.7 m. Quartz veins to 3 cm are ubiquitous. Carbonate veins are also evident. Pyrite and pyrrhotite occur as disseminations and fracture fillings. Hematized fractures are noted locally. 122.2 - 122.3 m - Heavily hematized fractures. 128 - 128.3 m - Hematized fractures. 128.3 - 129.0 m - Black very fine grained slightly schistose material - possibly altered lamprophyric material. 129.3 - 129.53 m - Quartz vein. 135.05 - 135.63 m - Epidotized core.
135.63	142.0 m	Quartz Chlorite Schist	Black	Fine	Foliated	Chlorite	Pyrrhotite	8 - 10		Section lacks the distinctive banding of the previous section. Major increase in chlorite content noted. Less quartz veining evident than in previous section. Strongly foliated at 60° to CA. Pyrite and pyrrhotite noted along foliation.

DRILL LOG

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC.)	MINERALIZATION, TYPE, AGE RELATIONS
										137.55 - 139.4 m - Heavily fractured core. 0.7 m lost core. Graphite evident on fractures.
142.0	145.6 m	Quartz	Medium	Fine	Foliated	Chlorite		12 - 15		Similar to section from 122.2 to 135.63 m, however locally contains sharp increase in chlorite content. These increases are usually related to shearing and brecciation within the core. Banded at 65 - 70° to CA.
		Muscovite	to dark							
		Chlorite	grey							
		Schist								
										142.45 - 142.95 m - Darker chloritic core. Slightly brecciated with fractures healed by carbonate.
										142.95 - 144.5 m - Sheared chloritic core. Less brecciation evident. Graphitic fractures.
										144.5 - 145.5 m - Grey carbonate rich rock with 20 - 25% dark green to black chlorite(?) Clots.
										145.5 - 145.6 m - Dark green to black sheared chloritic core.
145.55	146.9 m	Skarn	Green	Fine	Foliated	Epidotitic		8 - 10		Siliceous pale green skarn composed largely of pale green epidote. Chlorite and quartz with 20 - 25% light brown garnet. The garnet occurs as porphyroblasts to 1.5 cm in size. Foliated at 60° to CA.
			to brown	to coarse						



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

DRILL LOG

HOLE NO. WIS 85-6

INTERVAL		ROCK TYPE	DESCRIPTION						STRUCTURE	REMARKS
FROM	TO		COLOUR	GRAIN SIZE	TEXTURE	ALTERATION	ORE MINERALS	FRACTURES PER METRE	(FRACTURES, FAULTS, FOLDING, BEDDING, ETC)	MINERALIZATION, TYPE, AGE RELATIONS
										Similar to skarn from 100.8 to 102.05 m.
146.9	150.26 m	Brecciated Grey Banded Limestone	Medium grey	Fine	Banded Bedded	Brecci- ated		20		Only 0.5 m of core recovered from interval between 146.9 to 150.26 m. 146.9 - 147.82 m - Clay seam - no recovery. Recovered core consists of brecciated grey banded limestone with fractures rehealed with calcite. No mineralization of any type is evident in the recovered core. Bedding at 65° to CA.
150.26 m		END OF HOLE								



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

REGISTRATION

DRILL LOG

sample data

S A M P L E					C O R E R E C O V E R Y		V I S U A L E S T I M A T E S (% O R E M I N E R A L S)	A S S A Y R E S U L T S					
NUMBER	FROM	TO	TOTAL METRES	Sp. Gr	%	AMT. LOST		Au g/t	Ag g/t	As %	Cu %	Pb %	Zn %
35635	100.80	101.50	0.70		100		<0.07	2.3	.002	<0.01	0.04	0.07	
35636	101.50	102.05	0.55		100		<0.07	0.5	.001	<0.01	<0.01	0.01	
35637	105.00	106.00	0.50		100		<0.07	1.0	<.001	<0.01	<0.01	0.01	
35638	106.00	107.00	1.0		100		<0.07	0.5	<.001	<0.01	<0.01	0.01	
35639	145.65	146.25	0.6		100		<0.07	0.5	.001	<0.01	<0.01	<0.01	
35640	146.25	146.90	0.65		100		<0.07	0.5	.001	<0.01	<0.01	0.02	

TABLE 5
WISCONSIN PROJECT
LEVEL AND PROFILE NOTES

August 28 - 30, 1985

Surveyor: Ken Murray

TABLE 5 (cont.)

Benchmark located immediately above WISCONSIN ore dump at an approximate elevation of 6100 feet (1859.3 m).

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
B.M.					6100.00	1859.3
TP	11.13			0.07		
	11.59			0.08		
	11.66			0.20		
	12.00			0.22		
TP	12.15			0.51		
[31+50N]						
[3+75E]	10.87	6168.32	2.4		6166.00	1879.4
TP				0.31		
TP	11.25			0.13	6179.13	1883.4
TP	11.50			0.55		
TP	11.36			0.70		
[31+50N]						
[3+50E]	11.28	6212.02	8.6		6204.00	1891.0
TP				0.00	6212.02	1893.4
TP	11.02			0.20		
TP	11.59			1.39		
[DDH WIS-]						
[84-1]	11.14	6244.18	9.35		6234.80	1900.4
[DDH WIS]						
[84-2]			8.62		6235.60	1900.6
[31+50N]						
[3+00E]			4.90		6239.0	1901.6
TP				0.53		
TP	11.68			0.46		
[31+50N]						
[2+75E]	11.10	6265.97	6.80		6259.0	1907.7
TP				0.06		
TP	11.02			1.00		
[31+50N]						
[2+50E]	10.58	6286.51	9.00		6277.0	1913.2
TP				0.60		
TP	11.28			0.35		
TP	10.47			0.64	6306.67	1922.3
[31+50N]						
[2+25E]	11.35	6318.02	1.0		6319.0	1926.0
TP				11.48		
TP	0.46			11.89	6295.11	1918.7
TP	1.94			11.61	6285.44	1915.8
TP	1.32			11.98		
[32+00N]						
[2+50E]	2.19	6276.97	9.1		6268.0	1910.5
[32+00N]						
[2+75E]			11.1		6266.0	1909.9
TP				7.10		
[32+00N]						
[3+00E]	10.84	6280.71	3.5		6277.0	1913.2
TP				1.22		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
[32+00N]						
[3+25E]	6.77	6282.26	3.6		6283.0	1915.0
TP				12.03		
[DDH WIS]						
[94-4]	1.27	6275.5	5.74		6269.8	1911.0
[DDH WIS]						
[84-3]			5.62		6270.0	1911.1
TP				11.29		
[32+00N]						
[3+50E]	2.43	6266.64	7.6		6259.0	1907.7
TP				11.47		
TP	0.63			11.46		
TP	0.13			11.47		
[32+00N]						
[3+75E]	0.78	6233.78	7.1		6227.0	1898.0
TP				11.90		
[32+00N]						
[4+00E]	1.11	6222.99	8.7		6214.0	1894.0
TP				8.23		
[32+00N]						
[4+25E]	1.84	6216.60	12.5		6204.0	1891.0
TP				11.21		
TP	1.19			11.20		
[32+00N]						
[4+50E]	1.32	6196.70	6.4		6190.0	1886.7
TP				1.14		
TP	11.34			0.93		
TP	11.32			0.92		
TP	11.82			0.29		
TP	11.45			0.41		
TP	11.66			0.28	6250.32	1905.1
TP	11.44			1.34	6260.42	1908.2
[33+00N]						
[5+00E]	10.90	6271.32	12.3		6259.0	1907.7
[33+00N]						
[4+75E]			6.4		6265.0	1909.6
TP				0.45		
[33+00N]						
[4+50E]	9.54	6280.41	8.0		6271.0	1911.4
TP				0.80		
[33+00N]						
[4+25E]	11.43	6291.04	3.1		6288.0	1916.6
TP				0.56		
[DDH WIS]						
[84-5]	6.71	6297.19	7.52		6289.7	1917.1
[DDH WIS]						
[85-6]			7.55		6289.7	1917.1
[33+00N]						
[3+75E]				3.37	6294.0	1918.4

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
[33+00N]						
[3+50E]	3.28	6297.10	5.60		6291.0	1917.5
TP				11.83	6285.27	1915.7
[33+00N]						
[3+25E]	0.68			11.57	6274.0	1912.3
TP	0.74			10.67		
TP	0.45			11.84		
[33+00N]						
[3+00E]	0.60			11.59	6242.0	1902.6
TP	2.24			11.66		
TP	0.27			11.87		
TP	1.48			11.27		
TP	0.22			11.76		
TP	3.10			11.61		
TP	1.57			11.40		
TP	1.79			11.52		
TP	1.19			11.70		
TP	0.78			10.47		
[33+50N]						
[2+75E]	0.96	6152.41	18.9		6133.0	1869.3
TP				0.91		
TP	11.45			0.63		
[33+50N]						
[3+00E]	11.37			0.58	6173.0	1881.5
TP	11.73			0.66	6184.18	1884.9
TP	10.90			0.03		
TP	12.04			0.20		
TP	11.40			0.32		
[33+50N]						
[3+25E]	12.10	6280.07	9.0		6221.0	1896.2
TP				0.06		
TP	11.76			0.31		
TP	11.46			0.55		
TP	11.49			0.37		
[33+50N]						
[3+50E]	10.63	6274.12	8.8		6265.0	1909.6
TP				0.95		
[33+50N]						
[3+75E]	11.76	6284.93	6.3		6279.0	1913.8
TPA				0.40	6284.53	1915.5
TP	1.65			11.95		
TP	0.94			11.82		
TP	0.15			11.36		
[DDH WIS]						
[85-1]	0.89	6253.03	9.77		6243.3	1902.9
[DDH WIS]						
[85-2]			9.45		6243.6	1903.0
TP				1.14		
TP	10.62			0.85		
TP	11.82			6.36		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
TP	0.01			12.07		
TP	0.61			11.90		
TP	0.41			11.70		
TP	0.43			11.42		
TP	0.67			11.73		
TP	0.32			11.33		
[DDH WIS]						
[85-3]	0.71	6200.13	9.90		6190.2	1886.8
[DDH WIS]						
[85-4]			10.00		6190.10	1886.7
TP				0.51	6199.62	1889.6
TP	11.40			0.69		
TP	11.51			0.63		
TP	11.31			0.84		
TP	10.72			0.71		
TP	11.42			0.21		
TP	11.37			0.40		
TP	10.30			0.78		
TP	11.86			0.83		
TP	11.41			6.63		
TPA	2.96			7.46	6284.7	1915.6

TP					6100.00	1859.3
TP	0.21			11.65		
TP	0.28			11.73		
CAMP	1.73	6078.84	4.3	4.3	6074.0	1851.3
TP				11.78		
TP	0.76			11.83		
TP	0.78			12.07		
TP	0.40			11.76		
TP	1.64			11.27		
[30+50N]						
[4+50E]	0.94	6024.65	12.8		6012.0	1832.5
TP				0.51		
TP	11.18			0.59		
TP	11.20			0.61		
[30 50N]						
[4+25E]	11.08	6056.40	7.6		6049.0	1843.7
TP				0.19		
TP	11.04			0.92		
TP	11.40			0.14		
[30+50N]						
[4+00E]	11.94	6089.53	9.6		6080.0	1853.2
TP				0.08	6089.45	1856.1
TP	10.86			1.12		
[30+50N]						
[3+75E]	7.29	6106.48	1.7		6105.0	1860.1
TP				0.38		
TP	12.20			0.69		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
TP	9.65			0.80		
[30+50N]						
[3+50E]	11.45	6137.91	9.3		6129.0	1868.1
[DDH WIS]						
[84-7]			4.23		6133.7	1869.5
[DDH WIS]						
[84-8]			4.28		6133.7	1869.5
TP				0.43		
TP	10.42			0.47		
TP	11.19			0.48		
[30+50N]						
[3+25E]	10.79	6168.93	5.10		6164.0	1878.8
TP				0.87		
TP	10.89			0.55		
TP	11.86			0.70		
TP	11.96			0.52		
TP	12.02			0.71		
TP	12.02			0.26		
[30+50N]						
[3+00E]	11.75	6235.82	4.8		6231.0	1899.2
TP				0.29		
TP	11.43			0.28		
TP	11.76			0.18		
[30+50N]						
[2+75E]	11.63	6269.89	4.1		6266.0	1909.9
TP				0.59		
TP	11.16			0.36		
[30+50N]						
[2+50E]	11.14	6291.24	1.7		6290.0	1917.2
TP				1.11		
TP	11.96			0.35		
TP	10.91			0.20		
TP	10.49			0.20		
TP	9.60			11.89	6320.45	1926.5
TP	0.12			11.88		
[29+00N]						
[2+50E]	3.42			7.37	6304.74	1921.7
TP	1.56			11.46		
[29+00N]						
[2+75E]	1.37	6269.21	6.2		6290.0	1917.2
TP				12.05		
TP	1.22			11.86		
[29+00n]						
[3+00e]	0.69	6274.21	7.3		6267.0	1910.2
TP				11.43		
TP	0.06			11.66		
TP	5.43			11.86		
TP	0.00			11.71		
TP	0.00			11.45		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
[DDH WIS] [85-5]	1.58	6223.17	7.90		6215.3	1894.4
TP				11.26		
TP	0.32			11.62		
TP	1.06			11.56		
TP	0.82			11.83		
TP	0.19			11.88		
TP	0.43			10.64		
[29+00N] [3+50E]	0.66	6157.86	.26		6155.0	1876
TP				11.04		
TP	0.52			11.66		
TP	1.11			12.04		
TP	2.18			11.41		
[29+00N] [3+75E]	0.57	6116.09	7.8		6108.0	1861.7
TP				11.06		
TP	0.61			11.77		
TP	0.75			11.10		
[29+00N] [4+00E]	3.74	6087.26	4.7		6083.0	1854.1
TP				10.73		
TP	1.48			11.38		
[29+00N] [4+25E]	8.58			10.52	6064.69	1848.5
TP	11.01			0.07		
TP	8.56			2.55		
TP	9.71			1.02		
TP	11.10			0.27		
TP	11.43			6.71		
TP	5.03			4.74		
TP	1.00			11.02		
TP	2.39			6.50		
BM	11.73			2.54	6101.29	1859.7
DDH WIS 85-1					6243.3	1902.9
TP	2.89			11.34		
TP	2.55			11.31		
TP	0.86			11.75		
TP	1.02			11.31		
[34+00N] [3+50E]	1.90			10.20	6197.0	1888.8
TP	2.01			11.22		
TP	0.26			11.57		
TP	1.13			11.50		
[34+00N] [3+25E]	1.05	6166.77	8.8		6158.0	1876.9
TP				11.83		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
TP	0.78			11.56		
TP	4.11			11.49		
TP	1.99			12.04		
[34+00N]						
[3+00E]	0.00			12.42	6114.0	1863.5
TP	0.57			11.03		
TP	0.36			12.07		
TP	1.07			11.93		
[34+00N]						
[2+75E]	0.92			20.7	6061.0	1847.4
TP	11.23			0.38		
TP	11.80			0.33		
TP	10.96			1.54		
[34+00N]						
[4+00E]	10.85	6285.89	4.8		6281.0	1914.4
TP				0.56		
TP	9.34			0.52		
[34+00N]						
[4+25E]	10.40	6304.55	7.9		6297.0	1919.3
TP				0.82		
[34+00N]						
[4+50E]	7.44	6311.17	5.2		6306.0	1922.1
TP				12.02		
[34+00N]						
[4+75E]	4.22			8.30	6295.0	1918.7
TPA					6284.53	1915.5
TP	11.08			9.69		
TP	7.90			7.17		
TP	1.09			11.90		
TP	0.62			7.70		
[30+50N]						
[2+75E]	7.13			8.8	6267.09	1910.2
[29+00N]						
[4+25E]					6064.69	1848.5
TP	12.15			1.85		
TP	3.60			8.20		
TP	1.29			11.32		
TP	1.21			11.45		
TP	11.46			0.13		
TP	10.18			0.27		
[28+00N]						
[4+25E]	11.11	6082.47	9.1		6073.0	1851.0
TP				0.00	6082.47	1853.9
TP	11.92			0.29		
TP	11.97			0.28		
TP	11.50			0.21		
[28+00N]						
[4+00E]	11.24	6128.32	2.8		6126.0	1867.0
TP				0.45		

TABLE 5 (cont.)

SHOT	B.S.	H.I.	I.S.	F.S.	ELEV in FT.	ELEV in M.
TP	11.63			0.15		
TP	11.30			0.18		
TP	11.36			0.13		
[28+00N]						
[3+75E]	10.93	6172.63	6.9		6166.0	1879.0
TP				1.11		
TP	11.40			0.73		
TP	11.19			0.19		
[28+00N]						
[3+50E]	11.36	6204.55	6.5		6198.0	1889.0
TP				0.62		
TP	11.22			0.84		
TP	11.41			0.55		
TP	10.68			0.79		
[PAD DDH]						
[WIS 85-6]	11.01	6246.04	10.3		6236.0	1901.0
TP				0.49		
TP	11.75			0.40		
[28+00N]						
3+00E]	11.07	6267.97	8.7		6259.0	1908.0
TP				0.01	6267.96	
TP	11.15			0.30		
[28+00N]						
[2+75E]	11.11	6289.92	8.4		6282.0	1915.0
TP				0.78		
[28+00N]						
[2+50E]	9.96	6299.10	2.9		6296.0	1919.0
TP				1.51		
[28+00N]						
[2+25E]	11.00			0.83		
TP	4.14			1.83		
TP	8.70			0.90		
[29+00N]						
[2+25E]	9.27	6327.14	2.6		6325.0	1928.0
TP				11.60		
[29+00N]						
[2+50E]	0.72			10.80	6305.46	1921.9

CONCLUSIONS

The Wisconsin is hosted by units of the Horsethief Creek and Irene Volcanic Formations in close proximity to their fault contact with clean quartzites of the Hamill Formation.

The sulphide zone shows evidence of recrystallization and intense shearing in association with the local intrusion of an extensive granitic unit. The mineralization varies from massive to semi-massive with varying ratios of arsenopyrite and pyrite forming the bulk of the sulphide zone. Locally minor amounts of sphalerite, galena, chalcopyrite and pyrrhotite are evident. Barite, locally, is noted to constitute a significant portion of the precious + base metal sulphide zone. The sulphide zone, in general, appears to conform to a UTEM geophysical anomaly along strike.

The origin of the Wisconsin at this time is still problematic but it is assumed that the barite and base metals were originally part of the local stratigraphy and were subjected to shearing and late stage enrichment in arsenopyrite and gold during the period of granitic intrusion.

Regardless of origin, the ore grade zone has now been tested

18.

metres along strike and to a depth of about 150 metres to define a zone with an average width of 2.48 metres which grades about 4.02 grams gold with minor silver values.

RECOMMENDATIONS

- 1) Further drilling in the vicinity of line 34+00 and 35+00 north to determine the downdip continuity of the sulphide zone and to further assess the style of faulting suspected in this vicinity.

- 2) Further drilling on the southern strike extension of the Main Zone to elaborate on the nature of the sulphide zone in this area and to confirm the cause of the UTEM conductor.

ITEMIZED COST STATEMENTPhysical Work

Road ungrading and maintenance	9,000
Drill site and road construction	6,690
Control Level Survey	6,210
	<u>16,310</u>

Diamond Drill Program

Contract Drilling Costs 925.07 m	71,462.76
Drilling Supervision and Logging	
Project Geologist 21 days @150/day	3,150
Field Assistant 21 days @100/day	2,100
Truck and Fuel costs	
Ford 4X4 21 days @ 50/day	1,050
Camp Operating Costs	
Includes food costs, equipment purchases, fuel oil and miscellaneous	1,000
Miscellaneous Costs (office and administration)	
Project planning, evaluation and report writing:	
Senior Geologist, 2 weeks, salary & benefits	2,000
Project Geologist, data analysis and report writing - 10 days @150/day	1,500
Office supplies, postage and telephone	250
Drafting and reproduction services	750
Helicopter Costs	
3 hours @500/hr	1,500
Analytical and Related Costs	
Sample shipping	50
Sample preparation 40 samples @2.50/sample	100
Sample analysis 40 samples @18.45/sample	738

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TOTAL Drilling and Related Costs	101,960.76
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Sample of Assessment Distribution

Physical work (\$16310.00)	GP1 50%	8,155.00
	GP2 50%	8,155.00
Drilling and directly related costs	GP1 68%	57,638.68
	GP2 32%	27,124.08
Analytical (\$888)	GP1 85%	754.80
	GP2 15%	133.20

TOTALS	GP1	\$66,373.48
		\$35,237.28

PAC Withdrawal - 30% of Drilling and Analytical costs only		\$23,949.24
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PAC Distribution	GP1	\$7,206.52
	GP2	\$16,742.72
		=====

TOTAL Physical and Drilling and related costs and PAC.		\$125,560.00
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To be applied to Group 1 and Group 2 claims.

STATEMENT OF QUALIFICATIONS

I Donald B. Grant, currently of Castlegar, British Columbia, hereby certify that:

1. I am a geologist employed by Selco Division - BP Resources Canada Limited.
2. I received a Bachelor of Science degree, major in geology, minor in physics, from Memorial University of Newfoundland in 1970.
3. I have been practising my profession continually since my graduation in 1970.
4. I did personally supervise the work documented in this report.
5. I am a Fellow of the Geological Association of Canada and a Professional Engineer of the Province of Saskatchewan.
6. I hold no interest either directly or indirectly in this property.

Respectfully submitted,

D.B. Grant, B.Sc., FGAC, P.Eng.(Sask)
November, 1985