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J. V. SCHONME PROPERTY

Ogden Township, Ontario

GEOLOGY

GOLD DEPOSITS

and

DIAMOND DRILLING 1934 to 1981

Timmins, Ontario,

April 24, 1981.

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## S U M M A R Y

J. V. Bonhomme holds a group of 48 claims, including the old De Santis gold property, in Ogden Township. Situated a few miles south of Timmins, Ontario, the property is readily accessible.

A drill programme consisting of 30 holes, totalling over 25,000 feet, has recently been completed mainly in an area adjacent to and west of the old mine site. This work confirms the presence of a 125,000 ton gold deposit averaging 0.16 oz. gold per ton. The tabular deposit located between 500 and 750 feet below surface is accessible by a flooded vertical shaft and underground workings.

Other locations on the property have potential for gold mineralization. A zone of gold values near surface adjacent to the old No. 1 shaft offers the most promise. A programme of earth removal is proposed for this area to expose bedrock for detailed mapping and sampling. Based on the results of this work drilling is recommended for this location and two other gold occurrences in the south half of the property.

A programme of up to 10,000 feet of drilling may be required to evaluate these gold occurrences. At an overall cost of \$20. per foot, the drilling would cost \$200,000. An additional amount of \$10,000. is estimated for earth removal, sampling and assaying for a total cost of \$210,000.

## INTRODUCTION

The J. V. Bonhomme holdings include the former De Santis mine property and adjacent claims in Ogden Township, a few miles south of the centre of Timmins.

Since the closing of the De Santis mine, in 1942, two major drill programmes and limited underground development work have been undertaken on the property. All of the previous work has been reviewed and significant data has been recorded on accompanying plans and sections.

An interpretation of the geology on former De Santis claims and adjacent areas to the west is presented on a plan at a scale of one inch to two hundred feet. This work indicates unexplored areas favourable to gold mineralization. The report also includes tonnage and grade of a gold deposit based on the 1980-81 and previous drilling programmes, and underground development work.

The writer planned the 1980-81 drill programme and logged the holes. Information concerning this programme and previous diamond drilling is provided in an Appendix to this report.

## PROPERTY AND LOCATION

A total of 48 contiguous mining claims in the north central sector of Ogden Township comprise the J. V. Bonhomme property. These claims are described as follows:

<u>Claim Numbers</u>	<u>Number</u>	<u>Status</u>
P525987 & P525988	2	requires 99 days
P549069 & P539976	2	ready for lease
P480779 to P480791 incl.	13	ready for lease
P508675 & P508676	2	ready for lease
P516477 to P516479 incl.	3	ready for lease
P517109 to P517112 incl.	4	ready for lease
P522488 & P522489	2	ready for lease
P21514 to P21517 incl.	4	patented
P24768 to P24770 incl.	3	patented
P17798, P17799, P17801	5	patented
P17802 & P18161		
H8953 to H8958 incl., H8805 & H8961	8	patented
	—	
	48	

The property is located within the City of Timmins, a few miles south of the downtown area.

#### ACCESS AND LOCAL RESOURCES

From Pine Street South, access is by a gravel road about two miles long, west to the mine site and centre of the property. Near the east boundary of the property a temporary wooden bridge provides crossing of the Mountjoy River.

Westward from the mine site to the Dalton road, a road has been cleared and ditched over a length of about two miles. This road requires gravel surfacing for use in the nonwinter months.

All services associated with a large mining community are available within a few miles.

HISTORY

De Santis Porcupine Mines Limited operated a mill on the property during the period May, 1939, to October, 1942. Total production amounted to 35784 oz. gold, 3142 oz. silver and 193 lbs. of scheelite.

According to Dunbar (1945) the mine produced 196928 tons with an average mill head grade of 0.19 oz. gold per ton. Production was at the rate of 160 tons per day and gold recovery was better than 90%. In the same report Dunbar estimated that there may be 20,000 tons of ore, mostly in the form of remnants, available for mining.

Including the recently completed project, there have been four drill programmes on the property since 1934. These include the S Series of holes totalling 12,616 feet, apparently carried out by several sponsoring companies, between 1934 and 1944; the H Series of holes totalling 26,708 feet by New Hope Porcupine Gold Mines Limited; two holes by Bika Resources Limited in 1972 totalling 1444 feet; and the J. V. Bonhomme programme which totalled 25,077 feet. Records of previous surface drilling, therefore, indicate a total of 66,045 feet in 86 holes.

Most of the drilling prior to 1980 was supervised and recorded by W. R. Dunbar and R. A. Shatford, both deceased. The approach to logging of drill core prevalent at the time severely curtails the usefulness of the records for stratigraphic interpretation. Moreover, many of the drill hole locations are only approximate.

During the period December, 1965, to August, 1966, the

mine was reopened by Kenilworth Mines Limited and underground development work was carried out. As reported by W. R. Dunbar, 1967, 30 holes were drilled, totalling 2088 feet, and 796 feet of drifting and crosscutting were completed on three levels. This programme was suspended because high costs and an insufficient labour supply indicated poor prospects of profitable production.

#### RESULTS OF DIAMOND DRILLING

##### 1980-81 Programme

Holes 80-1 to 80-4 were drilled generally north of the mine site in an area underlain by sediments and holes 80-5 to 80-8 were drilled west of the mine. The remaining holes, 80-9 to 81-28 inclusive, were concentrated adjacent and west of the mine site on strike with the known gold-bearing rocks.

The holes to the north in an area of fine grained sediments demonstrated that this environment has little potential for gold mineralization. Drilling immediately adjacent to the west of the mine site, shown on Figure 1, outlined a gold-bearing zone at depth within a buff coloured carbonate rock. More specifically the gold horizon is located within a hydrothermal alteration zone up to 100 feet wide. To the west the carbonate rock with accompanying hydrothermal alteration has been located further south at an apparently different stratigraphic horizon (hole 81-28).

All of the gold values are located in quartz-tourmaline stringer zones within the carbonate rock with the exception of two occurrences. In hole 81-20 a quartz-tourmaline stringer zone 9.6

feet wide averaging 0.098 oz. gold occurs near a contact between mafic volcanics and an ultramafic rock. To the west in hole 81-27 pyritized banded carbonate-quartz stringers, 5.8 feet wide, assayed 0.12 oz. gold per ton in a mafic volcanic rock. Some low gold values occur in pyritized graphitic zones in holes 80-5 and 80-6 west and on strike with the gold-bearing carbonate rock.

The drilling indicates some previously unknown geological features in the vicinity of the mine site that are associated with the gold mineralization.

#### 1973 Drill Programme

No values were encountered in the two holes drilled east and west of the mine site.

#### H Series Programme 1960-63

The gold values intersected in holes immediately west of the mine site (shaft No. 2) have been confirmed by the 1980-81 programme.

Just west of shaft No. 1 several shallow holes outlined a near surface gold mineralized zone which is shown on the surface plan (Figure 7). Apparently a drift at the 200 foot level from shaft No. 1, below this gold zone, encountered gold values (Dunbar, 1963).

Holes H17, H26, and H30, northwest of shaft No. 2, are significant in that a hydrothermal alteration zone containing gold values was intersected near surface. This mineralized zone is

apparently the up-dip extension of the hydrothermal zone outlined by holes 81-9 to 81-26 inclusive.

Gold values near the bottom of hole H2 south of the main gold deposit apparently occur in a favourable geological environment.

S Series Programme 1934-44

The lack of significant gold values in this programme is unusual. In hole S1 a 2 foot section, near the top of the hole, assayed 0.41 oz. gold; the log notes basalt with 1 inch of pyrite and arsenopyrite. No log is available for hole S8; Bracken (1972), however, notes intersections of 5 and 4 feet with assays of 0.22 and 0.11 respectively, at about 1000 feet in the hole.

GENERAL GEOLOGY

The most recent geological study of the Timmins area is provided by Pyke, 1980; a more specific study related to the genesis of the Timmins gold deposits has been made by Karvinen, 1980.

Metasedimentary rocks consisting of a turbiditic sequence of greywacke, slates, and conglomerates are in contact with a variety of formations of the Tisdale group. Known formerly as Keweenian and Temiskaming sediments, these rocks are now thought to be facies equivalents of the Tisdale Group volcanics (Pyke, 1980). The sediments were classified as the Porcupine Group by Lorsong (Karvinen, 1980).

Sediments of the Porcupine Group are in contact with Tisdale Group rocks on the J. V. Bonhomme property.

It is suggested by John Thompson, De Santis mine geologist in a report in government assessment work files, that the mine is situated near the nose and on the north limb of an overturned anticlinal fold which pitches to the west at 9 degrees and dips south at 46 degrees. He also refers to a light brown lava as being an excellent host rock for gold mineralization.

Drilling indicates that the rocks dip to the south at 45 to 50 degrees and the light brown lava apparently coincides with the buff coloured carbonate rock in which a gold deposit has been outlined by the present drilling.

Thompson further states that an albite intrusive, composed chiefly of albite feldspar, is the most important for gold deposition. There was little evidence of this rock in the 1960-61 drill programme.

#### GEOLOGY OF J. V. BONHOMME PROPERTY

##### ROCK TYPES

Based on Pyke's stratigraphic column and the possible existence of an anticline in the mine site area, the rocks are described as follows with the great thickness of Porcupine Group sediments to the north being the youngest and the mafic and ultramafic rocks in the centre of the property being the oldest.

##### Porcupine Group Sediments

Drilling and a magnetic survey indicates that the entire north half of the property is underlain by greywacke and slate. Occasional pyritized graphitic zones occur within slate beds.

All of the rocks to the south belong to the Tisdale Group which are described as follows:

Greywacke and Slates

These rocks are separated from the Porcupine Group sediments by a pyritized graphitic zone which may in part represent an unconformity. Otherwise these rocks are very similar to the Porcupine Group.

Carbonate Rock

This rock is generally buff coloured, very fine grained and without volcanic structures. Occasional narrow carbonaceous sections and partings account for the banding in the rock. Dilute hydrochloric acid indicates a composition of more than 50 per cent carbonate.

Within and conformable to this rock is present a hydro-thermal alteration zone hosting a gold deposit, outlined at depth west of shaft No. 2.

Between hole S14 and the section formed by holes 80-5 and 80-6 a facies change occurs, whereby the carbonate content of the rock diminishes and greywacke type minerals increase. This feature confirms that the carbonate rock is sedimentary in origin.

Intermediate Volcanics

These rocks generally exhibit volcanic structures such as pillows, bombs, lapilli and are locally amygdaloidal. They are light green to green in colour. Without structure these rocks are similar to the carbonate rock.

Mafic Volcanics

Dark green and chloritic, these rocks often contain abundant carbonate stringers. Generally well banded most of these rocks were probably deposited as tuffs. Features characteristic of massive flows and pillow lava are also present. A well defined carbonate stringer zone exists at the contact between mafic volcanics and carbonate rock west of the mine site.

Ultramafic Rock

This rock may be intrusive or extrusive. It is blue black in colour, talcose, and very soft. Much carbonate as irregular stringers is normally present.

STRUCTURAL GEOLGY

All of the rocks trend generally west-southwest and dip south at 45 to 50 degrees.

An open z-shaped warp or drag fold, just west of shaft No. 2, is the most significant structural feature on the property. Marker horizons, including mafic volcanics and ultramafic rocks, suggest that a north trending fault zone bisects the structure. If the faulting does not exist the warp of the drag fold is more extreme. The gold deposit outlined by drilling is located immediately east of the postulated fault.

In general the stratigraphy supports a fold structure perhaps anticlinal with its west-southwest axis located just south of the mine site. If as suggested by Thompson (1938) the structure

plunges 9 degrees west closure of the fold to the west would be very gradual and difficult to recognize. In the western part of the map area the stratigraphic section, as marked by graphitic horizons, show a closure of several hundred feet.

### ECONOMIC GEOLOGY

#### General

As previously described under the section dealing with structural geology, a gold mineralized zone has been outlined west of shaft No. 2 and 733 ft drift. The deposit is shown on figures 1 and 7, and Sections A1, A, and B. It is located in a hydrothermal zone conformable to a carbonate host rock of sedimentary origin.

#### Hydrothermal Zone

Up to 150 feet wide, this zone of alteration is harder & lighter coloured than the carbonate host rock. It is generally massive and variably fractured except for a central portion which exhibits light green coloured banding with chart-like characteristics. Within this zone are quartz and quartz-carbonate stringer zones, concentrations of heavy pyrite, up to 10 per cent, often associated with tourmaline, up to 30 per cent. In turn the tourmaline zones are associated with narrow zones of tiny vugs. Where the rock is massive and without mineralization it exhibits characteristics of an aplite which may be equivalent to the albatite referred to by previous writers.

#### Mineralization & Structure of Gold Deposit

The gold values are associated with a zone of relatively sparse and irregular quartz-carbonate stringers. The quartz-carbonate ranges from 5 to 80 per cent but averages about 20 per cent. A little tourmaline and up to 5 per cent pyrite is associated with the quartz-carbonate stringer zone. Below the gold-bearing zone, less than 25 feet, are heavy concentrations of tourmaline with pyrite but without gold values.

Striking slightly south of west and dipping about 45 degrees south, the deposit is situated between 550 and 750 feet below surface. The drilling, and development work along 733 W drift indicate a maximum slope dimension of 350 feet and a strike length of 450 feet.

#### Tonnage and Grade

Diamond drilling from the 1980-81 and the 1960-63 (H Series) programmes and sampling from the 733 W drift provide the data for calculations. Because of the differing sets of data the gold mineralization adjacent to 733 W drift is handled separately. In the calculations 12 cubic feet are representative of one ton and values are cut to one ounce.

The drill indicated tonnage is divided into two blocks corresponding to Sections A & B as follows:

Section A - Grade

<u>Hole No.</u>	<u>Intersection(ft.)</u>		<u>Grade</u>		<u>Product</u>	
	<u>apparent</u>	<u>true</u>	<u>Uncut</u>	<u>Cut</u>	<u>Output</u>	<u>Cut</u>
H19	21.0	(19)	0.15	0.15	3.15	3.15
SD-10	23.7	(22)	0.20	0.20	4.74	4.74
H15	(3.9) - 7.8	(7)	3.90	0.19	30.42	1.482
	52.5	(46)			38.31	9.372
<u>Average true width</u>		16	<u>Ave. 0.730 0.179</u>			

\*intersection is doubled to achieve a minimum mining width

Section B - Grade

<u>Hole No.</u>	<u>Intersection(ft.)</u>		<u>Grade</u>		<u>Product</u>	
	<u>apparent</u>	<u>true</u>	<u>Uncut</u>	<u>Cut</u>	<u>Output</u>	<u>Cut</u>
SD-17	17.7	(15)	0.29	0.29	5.133	5.133
SD-11	12.0	(10)	0.037	0.037	0.444	0.444
H23	12.1	(10)	0.049	0.049	0.593	0.593
SD-12	13.0 54.8	(11) (46)	0.066	0.066	0.858	0.858
<u>Average true width</u>		11.5	<u>Ave. 0.128 0.128</u>			

Section A - Tonnage

<u>Height(slope)</u>	<u>Length</u>	<u>Width</u>	<u>Tons</u>	<u>Grade</u>		<u>Product</u>	
				<u>Uncut</u>	<u>Cut</u>	<u>Uncut</u>	<u>Cut</u>
250	190	16	63333	0.730	0.179	46133	11336

Section B - Tonnage

360	160	11.5	35200	0.128	0.128	7065	7065
		Total Tons	118533	0.450	0.159	53298	18401

733 W Drift Zone

According to Dunbar's report of November, 1967, the last 185 feet of 733 W drift averaged 0.37 oz. gold per ton over a width of 3.6 feet. The location of 733 W drift on Figure 1 indicates

that almost half of the drift vein is within the Section A tonnage block. The east portion of this 185 foot section averaged 0.69 oz. over 3.1 feet. It is proposed that the length of the zone be 100 feet with a grade of 0.69 oz. over 3.1 feet.

From the 733 W drift the upward extension is limited by negative results in hole 80-18 and the downward extension by sampling results in 833-20 stops. It is, therefore, proposed that the block be 100 feet in slope height. With a minimum mining width of 7 feet the east sector of 733 W drift is representative of 5833 tons as follows:

<u>Height(slope)</u>	<u>Length</u>	<u>Width</u>	
100	100	7	= 5833 tons

at a grade of 0.69 oz. over 3.1 feet, equivalent to 0.266 oz. over ?  
a mining width of 7 feet.

Total Tonnage and Grade

	<u>Tonnage</u>	<u>Grade</u>
	<u>Uncut</u>	<u>Cut</u>
Drill indicated on Sections A & B	118533	0.450 0.155
733 W drift	<u>5833</u>	<u>0.266 0.266</u>
	124366	0.441 0.160

Potential Elsewhere

The most obvious location for the discovery of additional gold mineralization would be in the drag fold structure controlling the above described gold deposit. This structure, however, has been well investigated to a depth of about 900 feet. Deep drilling would be required to further explore the structure.

West of shaft No. 1 shallow drilling and underground development work at the 200 foot level has indicated generally low grade values for a length of about 300 feet. Further work in the area may indicate the presence of ore grade mineralization.

Gold values were intersected in hole M2. A hydrothermal zone was intersected within the favourable carbonate rock in hole 81-28. Gold values, as yet unsubstantiated, are reported in hole 58. These intersections appear to be located at the same stratigraphic horizon in the carbonate rock which may be the south limb of the carbonate horizon hosting the gold zone west of shaft No. 2.

#### CONCLUSIONS

Approximately 66,000 feet of surface drilling has been completed on the J. V. Bonhomme holdings mainly on the part formerly known as the De Santis mine property.

This work, particularly the 1980-81 programme, has clarified the geology especially west of shaft No. 2 where a drag fold structure is associated with a gold deposit. This deposit up to 22 feet wide strikes slightly south of west and dips 40 to 50 degrees south. It is approximately 450 feet long, and 350 feet high along the dip, between 500 and 750 feet vertical below surface.

Based on 7 drill hole intersections and sampling data from 733 # drift (650 foot level) the deposit is estimated to contain 125,000 tons averaging 0.441 uncut and 0.160 cut ounces of gold per ton. The high uncut grade is based on one high grade intersection

(hole H15). The average grade in 733 ft drift adjacent to hole H15 indicates that a grade in the order of 0.160 oz. should be anticipated.

Subsequent to the closure of the mine in 1942, Dunbar (1945) suggested that there may be an additional 20,000 tons of mineralized rock occurring as remnants in the mine.

Further work in selected areas of the property may outline additional gold deposits. Surface stripping to enable detailed mapping and sampling on a gold mineralized zone adjacent to shaft No. 2 is necessary to evaluate this occurrence. Encouraging results from such a programme would necessitate additional drilling below this zone to outline the deposit. Because of the shallow overburden a deposit in this area could be developed by ramp, separate from the underground workings.

Comparitively little exploratory drilling has been undertaken in the south half of the property where a carbonate horizon with gold values is apparently present. Values were intersected in hole H2, possibly S8, and hydrothermal alteration in hole 81-28. Drilling adjacent to H2 and S8 would provide an adequate evaluation of the potential in this area.

#### RECOMMENDATIONS

As previously indicated some additional work is required to more fully evaluate the potential of the property.

To determine a more reliable grade and establish dimensions, overburden stripping is recommended on an area of gold values

adjacent to the west of shaft No. 2. Cost of such a programme is estimated at \$10,000. Encouraging results would justify additional drilling in this area.

Listed in terms of priority, four areas are proposed for exploratory drilling:

1. Adjacent, east and west of hole H2  
2 holes each 1000 feet . . . . . 2,000
  2. Adjacent east of hole S8 - 1 hole . . . . . 1,000
  3. Below the drag fold structure hosting  
the gold deposit - one deep hole . . . . . 2,000
  4. Contingent upon results from surface  
sampling west of shaft No. 2 . . . . . 5,000
- Total Footage 10,000

This programme, if fully implemented, would cost \$210,000. with overall drilling costs estimated at \$20 per foot.

Respectfully submitted,  
SHIELD GEOPHYSICS LIMITED,

Timmins, Ontario.

April 24, 1981.



R. J. Bradshaw, P. Eng.,

Geologist.

C E R T I F I C A T E

I, Ronald J. Bradshaw, residing at R. R. 2, Airport Road, Timmins, Ontario, a consulting geologist with office at R. R. 2, Airport Road, Timmins, Ontario, do hereby certify that:

I attended Queen's University, Kingston, Ontario, and graduated with an Honours B.A. degree in Geological Sciences in 1958.

I am a Fellow of the Geological Association of Canada, a Member of the Canadian Institute of Mining and Metallurgy and of the Association of Professional Engineers of the Province of Ontario.

I have no interest either directly or indirectly in the shares or securities of J. V. Bonhomme.

Timmins, Ontario

April 24, 1981.



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## APPENDIX

### SUMMARY OF SURFACE DRILLING

#### 1980-81 Programme

The all drill core recovered from this programme is stored at 79 Pine Street South, Timmins, Ontario.

Commencing in July, 1980, and finishing in March, 1981, the programme is summarized as follows:

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
80-1	Bass line 70+00 East	grid North	50°	301'
80-2	Line 48 East 48+00 North	grid North	50°	245'
80-3	Line 48 East 37+50 North	grid North	50°	553'
80-4	Line 36 East 10+00 North	grid North	50°	552'
80-5	Line 32 East 6+50 South	grid North	50°	770'
80-6	Line 32 East 10+00 South	grid North	50°	857'
80-7	Line 16 East 24+50 South	grid North	53°	747'
80-8	Line 24 East 20+00 South	grid North	50°	757'
80-9	116° West & 75.5° south of hole H-15	N10°E	70°	1397'
80-10	116° West & 57.5° north of hole H-15	North	70°	1067'
80-11	267° West & 92° south of hole H-15	North	70°	1257'
80-12	267° West & 57.5° north of hole H-15	North	70°	857'
80-13	116° West & 176° south of hole H-15	North	70°	985'
80-14	116° West & 326° south of hole H-15	North	70°	977'

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
80-15	116' West & 207' north of hole H-15	North	70°	887'
80-16	267' West & 157' north of hole H-15	North	70°	650'
80-17	267' West & 192' south of hole H-15	North	70°	854'
80-18	34' East & 60' north of hole H-15	North	70°	757'
81-19	34' East & 210' north of hole H-15	North	70°	650'
81-20	267' West & 342' south of hole H-15	North	70°	1090'
81-21	418' West & 220' south of hole H-15	North	70°	1007'
81-22	418' West & 370' south of hole H-15	North	70°	1097'
81-23	418' West & 70' south of hole H-15	North	70°	900'
81-24	568' West & 220' south of hole H-15	North	70°	1600'
81-25	568' West & 370' south of hole H-15	North	70°	1100'
81-26	220' South & 720' west of hole H-15	North	70°	185'
81-26	220' South & 720' west of hole H-15	North	70°	537'
81-26A	225' South & 720' west of hole H-15	North	70°	997'
81-27	Line 32 East 15+00 South	grid North	70°	937'
81-28	Line 32 East 20+00 South	grid North	70°	1107'

Holes 80-1 to 81-28 incl., hole 81-26A, and two holes number 81-26; total of 30 holes 25077'

Holes 80-1 to 80-8, 81-27 and 81-28 are located with reference to a grid established in 1978-79 for the purpose of controlling geo-physical surveys on most of the property. Holes 80-9 to 81-26A inclusive are located with reference to the collar of hole H-15 which is 641 feet S52°W from the centre of shaft No. 1, a line crossing shaft No. 2.

Holes 80-1 to 80-8 inclusive were drilled on unpatented claims to satisfy assessment work requirements. This drilling may be classified as basic exploration having no targets, in most instances, conductive zones representative of sulphide-bearing shear zones. The remaining holes, including 80-9 to 81-28 inclusive, were located to confirm the presence of gold-bearing mineralization several hundred feet west of shaft No. 2 and extend this zone to the west if possible.

Overall cost of this drilling including engineering, assaying and preparation of storage facilities was approximately \$16.70 per foot.

#### 1973 Programme

In 1973, Sico Resources Inc. drilled two holes on the Barhamme property as follows:

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth(ft.)</u>
N-73-1	SW corner of claim P525987	N10°W	45°	801
N-73-2	adjacent to hole 81-27	N13°W	65°	643
				Total of 1444 ft.

Based on hole N-73-2, adjacent to hole 81-27, the rock description and classification compares fairly well with that used in the 1980-81 series. No gold values were encountered.

#### H Series Programme, 1960-63

No drill core is available from this programme. The drill logs were only recently located which accounts for some apparent

duplication by the 1980-81 programme. The summary, as follows, is basically that prepared in a report by J. M. Brecken, 1972.

<u>Hole No.</u>	<u>Location</u>	<u>Direction (magnetic)</u>	<u>Dip</u>	<u>Depth</u>
H1	10+00 W 14+50 S	North	67°	1182'
H2	6+10 W 14+70 S	North	67°	1710'
H3	1+30 W 10+50 S	North	67°	1144'
H4	14+00 E 5+00 S	327°	55°	1108'
H5	15+50 E 4+00 S	327°	49°	993'
H6	12+00 E 5+50 S	327°	55°	1110'
H7	*approximate; determined from 1961 survey plan	N37°W (astronomic)	45°	193'
H8	"	Northwest	44°	150'
H9	"	Northwest	35°	219'
H10	"	Northwest	45°	183'
H11	"	Northwest	45°	127'
H12	"	Northwest	45°	140'
H13	"	Northwest	45°	239'
H14	50 E 20 N	North	67°	711'
H15	1+30 W 1+00 S	North	67°	745'
H16	6+00 E 4+50 N			221'
H17	1+30 W 3+50 N	North	50°	570'
H18	3+60 W 1+50 N	North	50°	416'
H 19	2+30 W 1+00 S	North	67½°	753'

<u>Hole No.</u>	<u>Location</u>	<u>Direction (magnetic)</u>	<u>Dip</u>	<u>Depth</u>
H20	8+00 E 5+50 N			117'
H21	3+60 W 0+00	North	67°	780'
H22	5+10 W 90 S	North	67°	792'
H23	3+60 W 1+10 S	North	67°	791'
H24	6+10 W 1+00 S	North	67°	773'
H25	1+30 W 2+50 S	North	67½°	1006'
H26	7+30 W 4+00 N	North	50°	402'
H27	13+40 W 2+00 N	North	55°	531'
H28	3+60 W 8+00 S	North	67°	1229'
H29	13+40 W 8+30 S	North	67°?	709'
H30	7+30 W 6+50 N	North	48°	321'
H31	48+00 W 2+50 S	North	47°	225'
H32	46+00 W 0+00	North		92'
H33	2+00 E 2+00 S	North	67°	764'
H34	2+00 E 1+40 N	North	65°	580'
H35	2+00 E 10+00 S	North	67½°	1065'
H36	2+30 W 5+00 S	North	67½°	1107'
H37	5+10 W 5+00 S	North	67½°	1257'
H38	1+30 W 1+60 N	North	67°	650'

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u> (magnetic)	<u>Dip</u>	<u>Depth</u>
H39	2+30 W 1+40 N		67½°	760'
H40	1+30 U 2+40 S	North	67½°	843'
H41	2+30 U 2+40 S	North	67½°	not <u>completed</u>
<u>Holes H1 to H41 inclusive, total</u>				<u>26708'</u>

\*The location of these holes is based on the coordinates of shaft No. 1 being N920.00 and E890.00, according to an unidentified O.L.S. on a plan dated April 29, 1961.

The drill core from this programme was logged and sampled by W. R. Dunbar with the exception of hole H35 which was logged by former government resident geologist R. H. Ginn, on behalf of New Hope Porcupine Gold Mines Limited. The logs by Dunbar consisted of hand written field notes. An effort was made to prepare a new set of logs from the notes. However, the usefulness of the logs is severely curtailed by the lack of rock classification according to chemical composition. The logs mainly describe real or apparent volcanic structures, a common practice up until the last ten or twenty years when the importance of rock classification according to their basic chemical composition was determined to be of primary importance.

Wherever noted, gold values in the logs have been plotted as accurately as possible to assist in the evaluation of the property.

#### S Series Programme, 1934-44

This programme, undertaken during the period 1934 to 1944, initially was sponsored by McIntyre Mines but subsequently,

after the completion of hole S5, other mining groups provided financing and supervision.

Apparently several geologists were involved in the programme; those shown on the records include W. R. Dunbar and R. A. Shatford. Detailed sections of hole S9 to S16, prepared by Shatford are the most useful records, although they tend to emphasize volcanic structures rather than differences between rock types based on chemistry.

Few significant gold values were encountered in this drilling. J. M. Bracken (1972) reports interesting values in hole S8 for which no log is available.

Apparently two different coordinate systems have been used in locating these holes; locations on the plans, therefore, are only approximate.

<u>Hole No.</u>	<u>Location</u>	<u>Direction (astronomic)</u>	<u>Dip</u>	<u>Depth(ft.)</u>
S1 McIntyre	claims P480785 P480789	N28°W	45°	1524
S2 McIntyre	claim P480790	N30°W	45°	1553
S8	claims P480788 P480791	North	60°?	1696 ?
S9	claims HS958 HS805	N 6°E	55°	766
S10	claims HS958 HS955	N10°W	52°	800
S11	claim HS954	N15°W	50°	1316
S12	claim HS955	N15°W	50°	818
S13	south of claim HS955	N15°W	47°	688

<u>Hole No.</u>	<u>Location</u>	<u>Direction (astronomic)</u>	<u>Dip</u>	<u>Depth(ft.)</u>
S14	S 145 W 931 survey plan	N10°W	48°	668
S15	S1000 W 838 survey plan	N10°W	48°	900
S16	claim HS954	N10°W	50°	987
S17	claim HS954	N10°W	45°	500
S18	claim HS805	N20°W	?	300 ?
S19	claim HS805	N10°W	?	300 ?
				<u>12816</u>

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-19  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 34° East & 210' North CORE LOCATION 79 Pine St. S.  
 OF Hole H-15 DATUM North (est.)  
 BEARING North (est.) DEPTH 650'  
 ELEVATION  DIP 70°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 48	Casing (overburden).			
48 - 67	Ultradeuteric Rock: grey, f. grained, irregular white carbonates veining in talcose rock.			
53.0-55.0	core ground			
62.0-67.0	core ground			
87 - 255	Mafic Volcanic Tuff ?: green, v. f. gr.; slight mineral foliation @ 60° coincides with slety cleavage, some carbonate banding.			
227-255	occasional seams of epidote			
255 - 385	Intermediate Volcanic Tuff ?: buff grey, v. f. gr., apparently massive with odd qtz or carb str.			
262-263	3" qtz-carb-tourm str. @ 70° + py, po	19-1	1.0	Tr
287-288	3" qtz-carb-tourm str. @ 70° + po, cpv	19-2	1.0	Tr
332-340	well developed cleavage with fine carbonaceous veining, some grey carbonate stringers			
333.8-334.5	rusted, perhaps water seam			
335.8-340.8	10% carb veining, talcose siltse conforming to schistosity represented fault, sli. py, po	19-3	5.0	Tr

Drilled By Dominik

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-19  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2

LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DATUM \_\_\_\_\_ DEPTH \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
385 - 508	Carbonaceous Intermediate Tuff: buff to grey colour, v. f. gr. banded showing thin graphite seams & very coloured tuff bands; some sulphide bands.			
477.0 - 490.0	generally black carbonaceous with heavy py-po mineralization (+10%)	19-4	5.0	0.01
481.5 - 486.5	12% massive py	19-5	3.8	0.01
486.5 - 490.3	5% py seams			
508 - 607.7	Carbonatized Intermediate Volcanic: grey-green to buff, v. f. gr., generally massive except for str. of grey carbonate containing pyrite.			
575.0 - 607.7	banding developed after seams of light brown tourmaline, sericitic, carbonate			
607.7 - 650	Mafic Volcanic Flow: green, v. f. gr. chloritic fairly massive.			
650	END.			
	SURVEY TEST			
	DIP Direction			
300°	65° 001 (mag)			
600°	60° 360 (mag)			

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# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-20  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 267' West & 342' South  
of hole H-15 CORE LOCATION 79 Pine St. S.  
 DATUM \_\_\_\_\_ STARTED January 9, 1981  
 BEARING North (est.) COMPLETED January 14, 1981  
 DIP 70° DEPTH 1090'  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 56	Casing (overburden).			
56 - 248	Mafic Volcanic Tuff: green, v. f. gr., chloritic quite soft in places.			
56.0-100.0	core is quite vuggy & soft			
63-67	core ground			
68-77	core ground			
79-87	core ground			
90-97	core ground			
101-102	5% diss. by			
103	3" Qtz-carb. str. @ 50° to c.e.			
105-107	core ground			
109	4" Qtz-carb str. @ 45°			
111-116	25% Qtz-carb str. @ 50°, 1% py	20-1	5.0	Tr
116-121	20% Qtz-carb str. @ 50°, 1% py	20-2	5.0	Tr
121-125.5	30% Qtz-carb str. @ 50°, 2% py	20-3	4.5	Tr
125.5-130.5	40% Qtz-carb str. @ 60°, 1% py	20-4	5.0	Tr
131	well defined banding @ 70-45° after fine carbonate seams			

Drilled By Dominik

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# DIAMOND DRILL RECORD

PROPERTY	HOLE NO.	81-20		
TOWNSHIP	PAGE NO.	2		
LOCATION	STARTED			
DATUM	COMPLETED			
BEARING	DEPTH			
DIP	ELEVATION			
DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLES	WIDTH	AU/OZ
214	1" massive magnetite			
217	2" Qtz-carb bending @ 60°			
227	finely banded from carbonatization			
229-232	& silicification			
235.8-240.8	50% Qtz-tourmal strgs.. silt. Pv			
240.8-245.4	meriposite-fuchsite + 2% Pv	20-6	5.0	.06
245.4-247.1	sericitic, 2% dikes. Pv			.098 / .96
247.1-250.0	70% Qtz-carb, some m.f., 1% Pv	20-7	4.6	.03
248 - 466	Ultramafic Rock: gray, f. grained, soft, granular texture, talcose, with irreg. carbonate	20-8	1.7	Tr
	seeming, some Qtz, minor pyrite.			
281.0-285.0	metac volcanic inclusion			
415-448	metac volcanic inclusion, dark green, chloritic			
418-419.5	2-6" white Qtz-carb strgs. @ 45°			
423.5	6" white Qtz-carb str. @ 45°			
466 - 604.5	Intermediate Volcanic: dark grey, v. f. fr., massive to poorly defined foliation.			

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# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-20  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 3  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 DIP \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WEIGHT OF SAMPLE	AU/OZ
516	5" Qtz-tourm str.	20-9	4.6	Tr.
527.4-532.0	10% Qtz-carb str., 1% Pyrite	20-10	1.2	Tr.
532.0-533.2	1' Qtz-tourm v.			
604.5 - 646	Carbonatized Intermediate Tuff: green to gray, f. qr. numerous carbonate str. forming banding @ 60°.			
646 - 864	Carbonatized Intermediate Tuff: gray to buff, v. f. qr. banded @ 60-70° with carbonates, pyrite seams, Qtz at about 70° to c.s., contact gradational.			
768.0-792.0	Intensely schistose with gray carbonate, sericitic, some pyrite seams @ 70°	20-11	5.0	Tr.
768.0-773.0	20% carb seams, 2% pyrite	20-12	5.0	Tr.
773.0-778.0	40% carb seams, 2% pyrite	20-13	5.0	Tr.
778.0-782.0	50% carb seams, 3% pyrite	20-14	5.0	Tr.
782.0-787.0	60% carb seams, 2% pyrite	20-15	5.0	Tr.
787.0-792.0	30% carb seams, 3% pyrite	20-16	5.0	Tr.
849.4-854.4	25% carb seams, 3% pyrite			

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# DIAMOND DRILL RECORD

PROPERTY		HOLE NO.	81-20
TOWNSHIP		PAGE NO.	4
LOCATION	CORE LOCATION	STARTED	
DATUM		COMPLETED	
BEARING		DEPTH	
ELEVATION	DIP		
DETH FET	FORMATION	SAMPLE NO. OF SAMPLE	WIDTH AU/OZ
864 - 971	Aplitic or Silicified Volcanic: brown, v. f. gr. f. fairly massive, medium hard, numerous altered glasses.	20-17	5.0 Tr
	877.0-882.0 irregular diss. tourmaline, meriposite, qtz-corb, 1% pyrite	20-18	1.0 0.03
	882.0-883.0 white qtz //ing c.s., diss. tourm, pyrite in wallrock	20-19	4.0 1.10
	883.0-887.0 sil. diss. tourm, pyrite	20-20	6.0 Tr
	887.0-893.0 30% diss. tourm, med. green alter- ation	20-21	5.0 Tr
	893.0-898.0 20% tourm. 8" apple green mineral, green with pink cast, 1% pyrite	20-22	5.0 Tr
	898.0-903.0 10% tourm altered green	20-23	2.0 Tr
	903.0-905.0 some tourm, 1% py, banded	20-24	2.4 0.01
	905.0-907.4 35% qtz-tourm str. @ 60°, 2% py in v. & wlk	20-25	5.6 Tr
	907.4-913.0 gray, fine tourm bending, 3% pyrite	20-26	2.8 0.06
	913.0-915.8 2-4" qtz-tourm str. @ 45°, 1% py wlk	20-27	4.0 Tr
	915.8-919.8 grey banded, 1% pyrite		

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# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-20  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 5

LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DATUM \_\_\_\_\_ DEPTH \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
919.8-924.5	20% tourn. brecciated wlk., 1% py	20-28	4.7	0.02
924.5-929.5	2% py, tourn	20-29	5.0	0.02
929.5-934.0	4" & 2" Qtz str., tourn banded, 1%	20-30	4.5	0.01
934.	Intensely altered, grey to green, py irregular to banded @ 70°. tournalline, minor pyrits			
971 - 1090	Intermediate Volcanic Tuff: v. f. gr., carb & py. <del>garnet</del> , cont. to schistosity @ 60-70°; deeper becomes more massive with silty cleavage.			
1089-1090	graphite veining with pyrite			
1090	END.	SURVEY		
	Depth	Dip	Direction	
	500'	61°	05° (Mag)	
	1000'	54°	05° (Mag)	

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# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-21  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 41S' West & 22D' South CORE LOCATION 79 Fine St. S.  
of hole H-15 DATUM January 18, 1981  
 BEARING North (est.) COMPLETED January 18, 1981  
 ELEVATION  DEPTH 1007'  
 DIP 70°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 62	Casing (overburden).			
62 - 67	Core ground			
67 - 204	Mafic Volcanic Tuff ?; green, v. f. gr., massive to poorly foliated at 60°-45° after carbonates seams, chloritic with carbonates str., conf. to foliation, with some cubic pyrite.			
77.5-81.5	90% irreg. qtz-cerb. sili. tourn epidote, sili. pyrite	21-1	4.0	nil
133-204	1888 chlorite with, more carbonates			
204 - 372	Ultramafic Rock: grey to greenish, v. f. gr. roughly banded at 50°, soft, talcose, much carb banding at approx. 50°; upper contact is gradational.			
304.0-307.0	core ground			
294.5-295.0	talcose shear @ 60°			
314-317	core ground			
324.5-372	becomes harder with much more carb			
372 - 486.7	Intermediate Volcanic: grey to green, v. f. gr. massive, to poorly banded, carbonate str.			

Drilled By Dominik

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# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-21  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
380	1" carb str. @ 70° - fault			
391.7-393.0	brown carbonate alteration			
393-397	much carbonate as str. @ 50°			
397	1" carbonates & mud @ 45° - fault			
411-419.4	massive with apparent fiss. carb			
449.4	bending after carbonates str.			
462-479.5	cream bleached			
467 & 468.5	1" & 2" qtz str. respect. @ 50°			
479.4-484.5	20% qtz & carb seams with tourm, chlorite wirk, 3% py	21-1A	5.0	Tz
486.7 - 783	Intermediate Volcanic Tuff: light green to buff v. f. gr. fairly well banded with carb str. cubic pyrite, soft, chloritic to sericitic, @ 50° occasional carbonaceous seams up to 2", silty cleavage; in contact areas rather minor channe.			
546.5	3" qtz-carb str. @ 45°			
556	7" qtz-carb str.			
650	2" qtz-tourm str.			
653-655	shearing with carbonaceous seam	-		

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY _____	HOLE NO. 81-21			
TOWNSHIP _____	PAGE NO. 3			
LOCATION _____	STARTED _____			
DATUM _____	COMPLETED _____			
BEARING _____	DEPTH _____			
ELEVATION _____	DIP _____			
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
673	3" graphite represent shearings			
681-683	sheared, carbonates, graphite seams			
752	1" graphite with pyrite			
778	1" qtz. str.			
379.7	1" qtz-tourm str.			
783 - 871	Tourmaline Zone: with hydrothermal alteration.			
787-791.7	2" qtz-tourm str. @ 50° + 10% tourm	21-2	4.7	Tr
	diss.			
791.7-796.6	10% qtz str., 10% tourm. silicified	21-3	4.9	Tr
	1% py			
796.6-801.6	10% tourm. bleached, 1% py	21-4	5.0	0.01
801.6-806.6	4% tourm, 1% py, green, silic.	21-5	5.0	Tr
806.6-811.0	5% tourm. silicified. brecciated.	21-6	4.4	Tr
	2% py			
811.0-816.0	5% tourm, 2-1" qtz str.. bleached	21-7	5.0	0.01
	silicified, 25% epidote			
816.0-821.0	5% tourm. 30% epidote min.. 1% py	21-8	5.0	nil
821.0-829.0	bleached. silicified. sili. py			
829.0-834.0	20% qtz-tourm. carb. 3% py	21-9	5.0	0.01

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-21  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 4  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DIP \_\_\_\_\_ ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
834.0-839.0	10% qtz-tourm stns., banded @ 70-30°, 2% py	21-10	5.0	nil
839.0-844.0	10% qtz-tourm stns. @ 60°, banded @ 50°, 1% py	21-11	5.0	0.01
844.0-847.0	20% qtz-tourm stns. drizzled, sil. py	21-12	3.0	nil
847.0-855.0	some tourm - altered			
855.0-861.0	bleached banded & silty cleavage @ 70°, 1% py			
861.0-866.0	as above sericitic seams, 2% pyrite	21-13	5.0	nil
866.0-871.0	80% qtz-tourm-silbits, brecciated w/rk, 2% diss. py, ssy, cov	21-14	5.0	Tr
871.0-874.7	banded as above, 1% pyrite	21-15	3.7	nil
871 - 905.5	Intermediate Volcanic Tuff; grey to grey-buff, v. fr. or. banded except where altered from fine carbonatization (bleached & massive).			
892.0-893.0	10% qtz stns. @ 60-70°, w/rk, 1% bleached (carbonatized ??) with 3% diss. pyrite	21-16	5.0	nil
893.0-908.5	bleached less than 1% pyrite			

Drilled By \_\_\_\_\_

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-21  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 5  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLE	WIDTH OF SAMPLE	AU/OZ
908.5-913.5	5" qtz-carb str. & banded sericitic.	21-17	5.0	T.F.
913.5-918.5	carbonates, 1% pyrite			
947.5-949.5	1" qtz str., wlk bleached, with 2%	21-18	5.0	nil
964	pyrits			
977	muddy with fault -carbonate str.			
982.0-985.5	5" qtz-carbonate-pyrite zone	21-19	2.7	nil
985.5 - 1007	Intermediate Volcanic Flow ?: gray-green, v. f.			
	qr. massive, chloritic, some carbonate, slt. py.			
1007	END.			
	SURVEY			
	Depth	Dip	Direction	
	400'	65°	08° (mag)	
	800'	57°	02° (mag)	

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
 SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME  
 TOWNSHIP Ogden Township  
 LOCATION 418' West & 370' South  
 of hole H-15  
 ELEVATION  
 HOLE NO. 81-22  
 PAGE NO. 1  
 CORE LOCATION 79 Pine St. S.  
 DATUM  
 BEARING North (est.)  
 DIP 70°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 60	Cassino (overburden).			
60 - 61	Felsic Volcanic: brown, v. f. gr., hard. probable boulder.			
61 - 67	Core ground.			
67 - 332	Mafic Volcanic: green, v. f. gr., massive to banded at 45°. Chloritic, with fine carb seams. 67.0-117.0 core is very soft schistose			
72-77	core ground			
82-83	" "			
84-87	" "			
93-97	" "			
100-102	" "			
103-107	" "			
108-117	" "			
128-133	15% Qtz. stns. @ 45°. sil. rv.	22-1	5.0 Tr	
133-137.0	fine banding after carb @ 45°			
135-137	core ground			
137.0-142.0	90% white qtz. sil. rv. in chloritic wall rock	22-2	5.0 Tr	

Dilled By Dominik

Signed

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-22  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
142.8-147.0	90% white qtz, silt, py in wlk	22-3	4.2	0.01
147.0-150.5	35% qtz, 1% py	22-4	3.5	Tr
150.5-192.5	fairly well defined banding @ 45-60°			
204.6	4" qtz-tourm str. @ 70°			
192.5-261	banding less pronounced			
261-265.7	bleached with 10% qtz-tourm str. @ 70°	22-5	4.7	Tr
	70° & 1% py			
265.7-271.0	90% white qtz, pink albite, wuggy with rusty fractures, less than 1%	22-6	5.3	Tr
	py, cpv			
271.0-273.0	40% irreq. qtz-tourm, silt, py	22-7	2.0	0.01
273	well banded @ 40-60° after carb			
285.5	7" white qtz			
305.6	rusty crack - water seam			
312.4	7" white qtz			
325	6" white qtz			
327-332	silicified with magnetite etc.			
332 - 513	Ultramafic Rock: greev. v. f. or. talc with numerous irreq. carb str., occ. xst. of pyrite.			

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-22  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 3  
 LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DATUM \_\_\_\_\_ DEPTH \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_

ELEVATION \_\_\_\_\_  
 DEPTH FEET FORMATION  
 443.0-445.5 up to 10" mud sections  
 450.0-451.0 6" mud  
**513 - 557 Carbonatized Intermediate Volcanic:** med. green,  
 v. f. gr., moderately schistose, with abundant  
 carbonates str., in sericitized rock.  
 513.0-526.0 60% carbonate  
**557 - 905.6 Intermediate Volcanic Tuff ?:** medium grey, v. f.  
 gr., massive to finely banded @ 60° to c.s., odd  
 irreg. qtz-carb str.

626 bending becomes more pronounced at  
 60-70°, differing colour, carbonate,  
 graphite  
 645-648 60% black, graphite, 1% pyrite  
 650. colour becomes buff brown  
**661-662.8** 60% carb-qtz, sericitic wlrk, 1% py  
**683-684.8** 50% qtz-carbonate + tourmaline  
 722-724.4 70% grey to black carb, sil. silt.  
 727 5" qtz-carbonate  
 737-738.4 4" qtz-carb, minor tourmaline

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SURFACE	AU/OZ
443.0-445.5	up to 10" mud sections			
450.0-451.0	6" mud			
<b>513 - 557</b>	<b>Carbonatized Intermediate Volcanic:</b> med. green, v. f. gr., moderately schistose, with abundant carbonates str., in sericitized rock.			
513.0-526.0	60% carbonate			
<b>557 - 905.6</b>	<b>Intermediate Volcanic Tuff ?:</b> medium grey, v. f. gr., massive to finely banded @ 60° to c.s., odd irreg. qtz-carb str.			
626	bending becomes more pronounced at 60-70°, differing colour, carbonate, graphite			
645-648	60% black, graphite, 1% pyrite			
650.	colour becomes buff brown			
<b>661-662.8</b>	<b>60% carb-qtz, sericitic wlrk, 1% py</b>	22-8	1.8	Tr
<b>683-684.8</b>	<b>50% qtz-carbonate + tourmaline</b>	22-9	1.8	nil
722-724.4	70% grey to black carb, sil. silt.	22-10	2.4	nil
727	5" qtz-carbonate			
737-738.4	4" qtz-carb, minor tourmaline	22-11	1.4	nil

Drilled By \_\_\_\_\_

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# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-22  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 4  
 LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DIP \_\_\_\_\_ ELEVATION \_\_\_\_\_

DEPTH FT.	FORMATION	SAMPLE NO. OF SAMPLES	WIDTH OF SAMPLE	AU/OZ
756.5-758.5	carb-qtz with 4% pyrite seems	22-12	2.0	Tr
756.5-763.5	carbonaceous partings			
815-957	bending becomes less pronounced &			
	rock lighter colour to grey-cream; shows that carb str. have become dissolved or diffused into wlk from hydrothermal alteration, gradually rock becomes essentially massive			
887.7	3" qtz str. @ 70°			
901	carbonaceous flame-like structure			
905.6 - 981.8	Vein Zone: In hydrothermal altered zones.			
905.6-909.2	80% qtz-carb + tourmaline, vuggy	22-13	3.6	0.01
	silite or carbonates, 3% seemed py			
909.2-939.2	sl1. pyrite dissemination			
939.2-940.4	4" qtz-carb str., 3% py in wlk	22-14	1.2	Tr
940.4-944.2	1% disse. py	22-15	3.8	0.11
944.2-947.0	5% py in grey carb; 1/2" qtz str.	22-16	2.8	0.01
947.0-951.6	4" qtz-tourm. tourm fracture & 2%	22-17	4.6	Tr
	pyrite, in buff wlk:			

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Signed \_\_\_\_\_  
 SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. .... 81-22  
 TOWNSHIP \_\_\_\_\_ PAGE NO. .... 5  
 LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 DATUM \_\_\_\_\_ DEPTH \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_

DEPTH FT	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
951.6-956.6	2% diss. py	22-18	5.0	Tr
956.6-961.6	light green siliciclastic banding up to 40°, 1% pyrite	22-19	5.0	nil
961.6-967.8	60% qtz, some carb, tourm, 2% py	22-20	6.2	Tr
967.8-972.1	darker colour with diss. tourm ?, 1% pyrite	22-21	4.3	Tr
972.1-976.8	10% qtz str.: in carbonaceous & sericitized banded wlrk @ 40-70°, 2% pyrite	22-22	4.7	Tr
976.8-981.8	20% qtz in wlrk ss above, 1% pyrite	22-23	5.0	0.01
981.8 - 1097	Intermediate Volcanic Tuff: buff brown, v. f. gr., fine banding @ 70°, some pyrite, graphites & few carbonate bands.			
1076.5-1081.5	30% qtz-carb-tourm str., 1% py	22-24	5.0	Tr
1081.5-1084.7	10% qtz-carb-tourm str., 1% py	22-25	3.2	nil
1097	END.			
	D10 sample # 1097: 1g 56.			

Drailed By \_\_\_\_\_

Signed \_\_\_\_\_

SHIELD GEOPHYSICS LIMITED

# DIAMOND DOLL RECORD

PROPERTY	J. V. BONHOMME	HOLE NO.	81-23
TOWNSHIP	Ogden Township	PAGE NO.	1
LOCATION	418' West & 70' South of hole H-15	CORE LOCATION	79 Pine St. S.
		DATUM	North (88t.)
ELEVATION		DIP	70°
		STARTED	January 26, 1981
		COMPLETED	January 30, 1981
		DEPTH	900'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 56	Casing (overburden).			
56 - 75.5	Mafic Volcanic: green. V. f. gr., soft. chloritic. schistose @ 60° conformable to some carbonate seams.			
66.0-67.0	core ground	66		
75.5 - 178.5	Ultramafic Rock: blue green, v. f. gr., soft, talcose with carbonate strg. & seams, occ. xts of of pyrite.			
85.0-87.0	core ground	85		
95.0-97.0	core ground	95		
146-147	core ground	146		
154-157	core ground	154		
167	1' white carbonates	167		
171	1' white carbonates	171		
178.5 - 233.4	Carbonatized Intermediate to Mafic Volcanic: green, f. gr., banded at 50-60° with carbonates strs. talcose over 50%; both contacts well defined.			

Drilled By \_\_\_\_\_ Date \_\_\_\_\_

SIGNED  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-23  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
233.4 - 270	Carbonatized Intermediate Volcanic Tuff ?:			
	light green, v. p. gr., veined with carbonates averaging 1/8" @ 50-60°, silty to schistose.			
270 - 406	Intermediate Tuff: grey to buff brown, v. f. gr. finely banded @ 50-60° apparently with fine carb veins, locally more massive.	23-1	3.0	TR
324.0-327.0	2" & 1" qtz str., 10" bleached & rusty section			
354.5-356	cream coloured bleaching			
362-363	70% qtz-carb @ 65°..			
368-372	10% qtz-carb-tour & 11" qtz-carb @ 45-60°	23-2	4.0	TR
376-384	pronounced banding perhaps after shearing, some conformable lamellae or rounded breccia fragments			
392.4-394.0	2" white carb str., silt. by	23-3	1.6	TR
394.0-399.0	100% qtz-carb-tour, sericitic, silt. by	23-4	5.0	nl
399.0-404.0	90% qtz-carb, silt. tourm. sericitic	23-5	5.0	TR
404.0-406.6	90% qtz-carb cont. @ 50-60°	23-6	2.6	TR

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 SHIRLEY CROWDER VERN TRIPPIER

# DIAMOND DRILL RECORD

PROPERTY		HOLE NO.	81-23
TOWNSHIP		PAGE NO.	3
LOCATION		STARTED	
DATUM		COMPLETED	
BEARING		DEPTH	
DIP			
ELEVATION			
DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLES	WT. IN OZ
406.6-409.0	bending (shearing) @ 45°, 1% pyrits	23-7	2.4
406 - 625.5	Intermediate Tuff: buff brown, v. f. gr., massive to bended @ 50-60°, may be almost totally brown carbonates with secondary grey carbonate str., some pyrits.	Tr	
421.5-422.5	qtz-carb, 2% py	23-8	1.0
427.0-427.8	70% qtz-carb, 2% py	23-9	0.8
440	4" qtz-carb-tourm. sli. py @ 50°	Tr	
545-557	shear zone @ 60-70° with seeming of carbonates; graphite, pyrits		
548-551	core ground		
557-577	shearing less intense		
625.5 - 737.5	Hydrothermal Alteration Zone: light grey, fairly massive but with few fractures: seems to be almost totally carbonate composed of v. fine gr. fragments in coarser matrix: upper contact marked by 1" carbonate stringer & sharp change.		
625-630	finely fractured + 2% disse. py	23-10	5.0
630-647	soothers brecciated	Tr	

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Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY	HOLE NO.	81-23
TOWNSHIP	PAGE NO.	4
LOCATION	STARTED	
CORE LOCATION	COMPLETED	
DATUM	DEPTH FT	
BEARING	DIP	
ELEVATION		
	DEPTH FEET	SAMPLE NO. OF SAMPLE
	FORMATION	WIDTH IN
	647.0-684.0 incident banding green altered	AU/OZ
	carbonate oreline & some of tourm with bleached w/ltk contacts & dikes.	
	yellow cov. locally wavy	
	650.0-655.0 tourmaline + 2% dikes. py?	23-11 5.0 TR
	664.5-667.0 ss above + 2" giz stfr. some pyrite	23-12 2.5 TR
	680.1 wavy with specularite remaining	
	684.0-715.5 generally cream coloured + tourm some pyrite	
	715.5-737.5 mostly green alteration with tourm	
	737.5 - 900 Carbonatized Volcanic ? light green then buff. banded @ 60° or massive may be totally carbonatite with few secondary stres. some pyrite.	
	861.7-870.0 breccia & fracture zone	
	873-875 core around	
	890.0-891.2 4" & 2" giz-crb stfr. + dikes. py	23-13 1.2 ml
	900 END.	No Test

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME

TOWNSHIP Ogden Township

LOCATION 560' West & 220' South  
of hole H-15

CORE LOCATION 79 Pine St. S.

PAGE NO. 1

STARTED February 1, 1981  
COMPLETED February 6, 1981  
DEPTH 1000

DATUM  
BEARING North (est.)  
DIP 70°

ELEVATION

BINN' FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 60	Casing (overburden).			
60 - 80.5	Mafic Volcanic: dark green, v. f. or. silty cleavage @ 80° with odd conf. carb str., chlorite,			
80.5 - 105	Ultramafic Rock: blue gray, v. f. or.. talcose with odd str. of carbonate.			
105 - 211.7	Mafic Volcanic: dark green, v. f. or.. chloritic carbonate foliation @ 45° suggests tuff.			
132.5-138.5	Irred. qtz-carb			
142.5-143.5	barren qtz-carb @ 70°			
156	3" qtz-carb @ 45°-			
168.5	7" qtz-carb @ 50°			
170	3" qtz-carb @ 50°			
175.7	4" qtz-carb @ 70°			
176.5	4" qtz-carb @ 40°			
177.6	6" qtz-carb @ 45°			
182	2" qtz with fragments of brown chlorite ?			
211.7 - 382.5	Ultramafic Rock: blue gray, v. f. or.. soft. talcose, with iron, seams & sts. of carbonate.			

Drilled By Dominik

Signed

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-24  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_

BIRTH TEST	FORMATION	SAMPLE NO.	WIDTH OF SURVEY	AU/OZ
	241.0-251.0 mafic volcanic. harder, noncalcareous			
242-245	core ground			
305-306	core ground			
304-305	qtz-carbonate			
382.5 - 757	Carbonatized Intermediate Volcanic: medium gray-green to buff color. V. f. gr. carbonates, disseminated as stringers, totalling +50%. mineral foliation about 50° to S.E., westerly cont. fairly abrupt.			
384.6	1" qtz str.			
438.5	1" qtz-carb str.			
442	1" qtz-carb str. @ 90°			
458.2	3" qtz-carb str. @ 50°. diss. py			
467-4537	oreophilic partings. some pyrite			
527-529	up to 50% oreophilic material @ 50°			
567.7-568.7	9" qtz-carb v. @ 70°	24-1	1.0	0.01
604-687	schistose after sericitic, carbonate & pyrite @ 50°			
619-622	60% carbonate-qtz, 2% pyrite	24-2	3.0	0.01

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-24  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 3  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_  
 DATUM \_\_\_\_\_  
 BEARING \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
649.3-651.0	graphite & pyrite seeming			
664.5-669.5	+50% grey carbonates, 2% pyrite	24-3	5.0	Tr
706.5	6" qtz-carb str. @ 50°			
757 - 878.8	Hydrothermal Altered Zone: no definite contact; description as follows:			
757-771.5	grey massive with fine black fractures, sli. pyrite	24-4	3.5	Tr
771.5-775.0	10% irreg. qtz str. i. 2% pyrite	24-5	6.5	Tr
775.0-781.5	3% py in lightly fractured massive rock			
781.5-786.0	2% py in massive rock	24-6	4.5	0.01
786.0-790.0	70% qtz-tourm v., 2% pyrite	24-7	4.0	Tr
790.0-796.0	10% irreg. carb, qtz=tourm, 3% py	24-8	6.0	0.01
796.0-800.5	70% carb-qtz, 2% pyrite	24-9	4.5	0.01
800.5-805.0	10% qtz-carb str., 3% seems pyrite	24-10	4.5	0.01
805.0-808.5	10% qtz str., diss. tourm, 1% py	24-11	3.5	nil
808.5-810.0	70% qtz, 4% py in wlrk	24-12	1.5	Tr
810.0-815.0	light green bands, crossed, yellow sld. rock, 1% pyrite	24-13	5.0	Tr

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SHIELD GEOPHYSICS LIMITED

# DIAMOND DOLL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. .... 81-24  
 TOWNSHIP \_\_\_\_\_ PAGE NO. .... 4  
 LOCATION \_\_\_\_\_  
 CORE LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DIP \_\_\_\_\_  
 ELEVATION \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLE	WIDTH	AU/OZ
815.0-819.0	gray, silicified, 3% pyrite	24-14	4.0	Tr
819.0-823.0	10% qtz-carb, heavy conc. pyrite near bottom	24-15	4.0	Tr
823.0-828.0	sheared, graphitic @ 60°, 2% pyrite	24-16	5.0	Tr
828.0-829.2	90% qtz-carb, 1% py wlrk	24-17	1.2	Tr
829.2-834.0	2" qtz-carb str. cont. to banding (shearing) @ 50°, 3% pyrite	24-18	4.8	0.01
834.0-847.0	shearing marked by graphite seams, sericitic, pyrite			
847-861	more massive, but banded @ 70° & vuggy			
861-864	3% pyrite seams, vuggy at start	24-19	3.0	Tr
864-869	60% qtz-tourm str., @ 70°, 3% pyrite in wlrk	24-20	5.0	n.d.
869-873.0	massive, few fractures, 3% pyrite	24-21	4.8	n.d.
873.0-878.0	1" qtz-tourm str. @ 50°, 2% pyrite	24-22	5.0	Tr
878.0-880.0	2" carb str., 1% pyrite	24-23	2.0	n.d.
878.0 - 971	Carbonatized Intermediate Volcanic; gray to buff. f. or. mineral foliation @ 80° to c.s., some seaming of carbonates & pyrite.			

DRIED BY \_\_\_\_\_

SIGNED GEOPHYSICS LIMITED  
SIGNED \_\_\_\_\_

## **DIAMOND ROLL RECORD**

PROPERTY \_\_\_\_\_ HOLE NO. 81-24  
TOWNSHIP \_\_\_\_\_ PAGE NO. 5  
LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
ELEVATION \_\_\_\_\_ DATUM \_\_\_\_\_  
BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
DIP \_\_\_\_\_

DRAFTED BY

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SHIRE GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-25  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 568' West & 370' South  
 of hole H-15  
 ELEVATION  
 STARTED February 7, 1981  
 DATUM CORE LOCATION 79 Pine St. S.  
 BEARING North (est.)  
 DIP 70°  
 COMPLETED February 12, 1981  
 DEPTH 1100'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 64	Casing (overburden).			
64 - 108	Intermediate Volcanic: light green, v. f. gr., massive with faded amygdalites to banded @ 50° to 6.8.	25-1	2.7	nil
	77.5-80.2 90% qtz-carbonate			
	97.2-98.2 90% qtz-carbonate as above			
108 - 175	Mafic Volcanic: medium to dark green, softer than above, chloritic with fine carbonates banding @ 50-60°, silty cleavage.			
	108-110 core ground			
	146-147 core ground			
	152-157 core ground			
	159-160 core ground			
	160.2-160.7 wuggy			
175 - 204	Intermediate Volcanic: light green, v. f. gr., massive with faded amygdalites-as above.			
204 - 236.5	Mafic Volcanic: dark green, chloritic, with carb. seams @ 45°-60° - as above, contacts between units not well defined.			

Drilled By Dominik

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY _____	HOLE NO. 81-25			
TOWNSHIP _____	PAGE NO. 2			
LOCATION _____	STARTED _____			
DATUM _____	COMPLETED _____			
BEARING _____	DEPTH _____			
ELEVATION _____	DIP _____			
DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLE	WEIGHT OF SAMPLE	AU/OZ
<u>236.5 - 247.0</u>	<u>Ultramafic Rock: gray to blue black, v. f. gr.</u> <u>soft, banded after carbonate, talcose.</u>			
<u>247.0 - 336.0</u>	<u>Mafic Volcanic: green, chloritic, carbonate</u> <u>green @ 60° as above.</u>			
	<u>273.7-278.7 20% qtz-carb-tourm, 2% py</u>	25-2	5.0	0.02
	<u>278.7-282.7 30% qtz-carb-tourm, 4% py</u>	25-3	6.0	0.01
	<u>284 3" qtz str.</u>			
<u>336 - 482</u>	<u>Ultramafic Rock: gray to blue black, v. f. gr..</u> <u>banded after carbonate, talcose, occ. sections of</u> <u>mafic volcanic.</u>			
	<u>410.5-412.0 75% irreg. white qtz</u>			
<u>482 - 560</u>	<u>Carbonate Zone: gray, f. gr., irreg. banding et</u> <u>about 50° of carbonate totalling +50%, remainder</u> <u>probably chlorite, scattered mariposite-fuchsite.</u>			
	<u>507.0-514.0 20% white qtz</u>	25-4	7.0	Ir
	<u>518.2-524.0 20% white qtz, 1% py</u>	25-5	5.8	Ir
	<u>524.0-530.3 60% qtz with tourm., mariposite, 1% py</u>	25-6	6.3	Ir
	<u>530.3-535.3 much mariposite, 1% py</u>	25-7	5.0	n.i.
	<u>535.3-540.0 10% qtz-tourm, some mariposite, 1% py</u>	25-8	4.7	n.i.

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY ..... HOLE NO. 81-25  
 TOWNSHIP ..... PAGE NO. 3  
 LOCATION ..... STARTED ..... COMPLETED  
 CORE LOCATION ..... DATUM .....  
 BEARING ..... DEPTH .....  
 ELEVATION ..... DIP .....  
 DEPTH FEET

DEPTH FEET	FORMATION	SAMPLE NO. OR SAMPLE	WIDTH OF SAMPLE	AU/OZ
540.0-545.0	20% Qtz with tourm, some mariposite,	25-9	5.0	Tr
	sli. pyrite			
560 - 908.3	Carbonatized Intermediate Volcanic: green-brown, v. f. gr. more massive than above, few carbonate seams.			
580	1" white Qtz-carbonate			
621-642	slaty cleavage after fine carbon seams @ 60°			
642-677	light buff colour, fine bending & slaty cleavage suggests tuff or sediment			
748.8-754	carbonaceous seams, sli. pyrite			
799-856	comparatively massive, v. f. gr. foliation features are faded sug- gesting secondary hydrothermal alteration, become increasingly lighter colour (cream) to 856			
853.6-856.2	30% carb-qtz, some tourm, 2" py	25-10	2.6	Tr
859.7-860.8	30% qtz-carb str. @ 90°, 2% py	25-11	1.1	Tr

Drilled By

Signed

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY	HOLE NO. 81-25		
TOWNSHIP	PAGE NO. 4		
LOCATION	STARTED	COMPLETED	
DATUM			DEPTH
BEARING			
ELEVATION	DIP		
DEPTH FT.	FORMATION	SAMPLE NO. OF SAMPLE	WIDTH AU/OZ
860.8-874.5	some bedding of tourm & diss. py	25-12	4.7
874.5-879.2	few tourm seams, 2% py	25-13	n/a
903.5-908.3	15% qtz-tourm, 3% py	25-13	4.8
908.3 - 930	Banded Carbonatized Intermediate Volcanic: light green alternates with grey carbonates seams.		Tr
929	4" qtz-carbonate		
930 - 944	Slate: grey to black, v. f. gr. bands @ 90°.		
944 - 1082	Greywacke or Carbonate Sediment: grey to brown, v. f. gr., some bending @ 70-80°, similar to units above; but syngentic carbonate?		
972.0-974.8	3% py in fractures	25-14	2.8
974.8-979.8	60% qtz-carb-tourm, 3% py in wlrk	25-15	5.0
979.8-982.8	25% qtz-carb-tourm, 2% py in wlrk	25-16	3.0
1033	2" qtz-carb str.		Tr
1082 - 1100	Volcanic Fragmental: light green to brown, initially banded then displays eolianitic appearance with some pyrite.		
1086.7	3" qtz-carbonate		
1100	END.		

Drilled By

.....

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED



# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-26  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 220, South & 720, West CORR LOCATION 79 Pine St., S.  
 of hole H-15 DATE February 16, 1981 STARTED February 16, 1981  
 BEARING North (88.5°) COMPLETED February 12, 1981  
 DIP 70° DEPTH 185'  
 ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 56	Casing (overburden).			
56 - 185	Mafic Volcanic: green, v. f. gr., slightly schistose after banding or carbonate seems @ 60° & chlorite.			
66.0-67.0	core ground			
76.0-77.0	core ground			
106.0-115.0	ultramafic rock-blue black, talcose			
185	END.			

Hole restarted after cementing collar.

Dilled By Dominik

Signed                     
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME  
 TOWNSHIP Dodson Township  
 LOCATION 220' South & 720' West  
of hole H-15  
 ELEVATION \_\_\_\_\_

HOLE NO. H1-26  
 PAGE NO. 1  
 CORE LOCATION 79 Pine St. S.  
 DATUM \_\_\_\_\_  
 BEARING North (est.)  
 DIP 70°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 61	Casing (overburden).			
61 - 66	Cement (because of cement drill bit missed original hole)			
66 - 208	Mafic Volcanic: green. v. f. or.. banded at 40- 60° after carbonate seams. slightly achistose. after chlorite.			
103.0-111.0	ultramafic rock. blue black-talcous gradational contacts			
113	1" red hematite			
166.4-168.4	95% Qtz-carbonate ..			
175-177	core ground			
208 - 327	Ultramafic Rock: blue black. v. p. or.. soft. talcous. with irreg. carbonate stringers.			
327 - 347.2	Carbonatized Mafic Volcanic: white banded carb. # 60° in light green host rock accounts for 70%			
346.9-347.4	50% Qtz-carbonate. s.l. pyrite	26-1	2.5	0.1
347.2 - 337	Carbonatized Intermediate Volcanic: grey to buff colour. v. f. or.. almost 100% carbonates, may be carbonates sediment, odd qtz str., s.l. pyrites.			

Drilled By Dominik

Signed

# DIAMOND DHL RECORD

HOLE NO. 81-26  
PAGE NO. 2

**STARTED** \_\_\_\_\_  
**COMPLETED** \_\_\_\_\_  
**DEATH** \_\_\_\_\_

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**SHIBU SHIBUYASUKE NINTEI**

Drilled By-

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-26A  
 TOWNSHIP Ogden Township PAGE NO. 1  
 LOCATION 225' South & 720' West CORE LOCATION 79 Pine St., S.  
 of hole H-15 STARTED February 22, 1981  
 DATUM COMPLETED February 27, 1981  
 BEARING North (est.) DEPTH 927'  
 DIP 70°  
 ELEVATION

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 66	Casing (overburden).			
66 - 212	Mafic Volcanic: green, v. f. gr., chloritic with carbonate veins. @ 60° to C.S.			
110.0-118.3	ultramafic rock-blue black, v. f. gr. talcose			
172.8	6" qtz str.			
120.0-121.2	heavy spodite			
212 - 330.7	Ultramafic Rock: blue black, v. f. qz. numerous carbonate str., talcose, minor pyrite.			
295-297	core around			
330.7 - 358.5	Carbonatized Mafic Rock: grey green, f. qz., numerous (+ 50%) white carbonate str. @ 60° to 0.8.			
336.7-338.2	80% qtz-schrb	26A-1	1.5	nil
346.8-353.4	75% qtz-carb + magnetite, sil. ev	26A-2	6.6	nil
358.5 - 724	Carbonate Rock: grey to buff colour. v. f. qz.. massive as compared to unit above, with odd conformable carbonates str. @ 60° to C.S., previously termed "carbonatized intermediate volcanic".			

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_ HOLE NO. 81-26A  
 TOWNSHIP \_\_\_\_\_ PAGE NO. 2  
 LOCATION \_\_\_\_\_ STARTED \_\_\_\_\_  
 DATUM \_\_\_\_\_ COMPLETED \_\_\_\_\_  
 BEARING \_\_\_\_\_ DEPTH \_\_\_\_\_  
 ELEVATION \_\_\_\_\_ DIP \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
385.0-390.0	60% qtz-carb with tourm, sericitic,	26A-3	5.0	nil
390.0-394.0	40% qtz-carb with tourm, sericitic,	26A-4	4.0	nil
396.9-400.2	much grey to black carb, sericitic,	26A-5	3.3	nil
400.2-403.3	70% qtz-carb + sericitic, sli. py	26A-6	3.1	nil
403.3-420.0	some qtz-carb + maripositic, sericitic	26A-7	3.4	nil
456-459.4	70% qtz-carb + tourmaline, sericitic			
459.4-463.5	carbonate & graphitic material			
469-479	graphitic with carbonate			
479-585.5	grey to buff colour, slaty cleavage @ 60° with odd grey to black carb st.			
570.	1" carbonaceous	26A-8	1.8	nil
585.5-587.3	80% qtz-carb + tourm	26A-9	1.3	nil
593-594.3	80% qtz-carb, tourm			
594.3-617	pronounced carbonate banding, almost schistose			
597.2	10" qtz-carb v.			

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_  
TOWNSHIP \_\_\_\_\_

LOCATION \_\_\_\_\_  
CORE LOCATION \_\_\_\_\_  
DATUM \_\_\_\_\_  
BEARING \_\_\_\_\_  
ELEVATION \_\_\_\_\_  
DIP \_\_\_\_\_

HOLE NO. 1-26A  
PAGE NO. 3

STARTED \_\_\_\_\_  
COMPLETED \_\_\_\_\_  
DEPTH \_\_\_\_\_  
DIP \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WEIGHT OF SAMPLE	AU/OZ
604.6-607.5	90% qtz-carb. tourn. silt. py	26A-10	2.9	n.i.l
612.6	2" carb. fust. & quartz - fault			
613.3	1" fust - fault			
617-724	buff colour & more massive			
682.6-683.6	50% qtz-carb + tourmaline	26A-11	1.0	n.i.l
704.5-709.5	30% irreg. qtz-carb + tourmaline	26A-12	5.0	n.i.l
710.7	3" qtz-carb + tourn			
724 - 773.5	Hydrothermal Alteration Zone: fairly massive buff carbonates with heavy local concentrations of tourmaline.			
742.0-743.4	2" qtz str. @ 45°. tourn. 1% py	26A-13	1.4	n.i.l
	In wlrk			
747-751.6	few irreg. str. of tourn & qtz	26A-14	4.6	n.i.l
751.6-756.6	60% brecciated tourn. 10% grey qtz strg.. 3% pyrite	26A-15	5.0	n.i.l
756.6-758.1	75% tourmaline-qtz. 5% py	26A-16	1.5	n.i.l
758.1-761.5	massive. silt. py	26A-17	3.4	n.i.l
761.5-767.0	10% qtz-carb strg.. 3% py. sericitic	26A-18	5.5	n.i.l
767.0-772.0	60% carb-qtz @ 50°. 3% py. sericitic	26A-19	5.0	n.i.l

Drailed By \_\_\_\_\_

Signed \_\_\_\_\_

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_  
TOWNSHIP \_\_\_\_\_

LOCATION \_\_\_\_\_  
CORE LOCATION \_\_\_\_\_  
DIP \_\_\_\_\_

ELEVATION \_\_\_\_\_  
DATUM \_\_\_\_\_  
BEARING \_\_\_\_\_

HOLE NO. 81-26A  
PAGE NO. 4

STARTED \_\_\_\_\_  
COMPLETED \_\_\_\_\_  
DEPTH: 4

DEPTH FT	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
772.0-773.5	1% Pyrite	26A-20	1.5	nil
<b>773.5 - 837</b>	<b>Slate &amp; Carbonate Rock: black bands of slate @ 45-90° with intervening carbonates.</b>			
774	3" gauge - fault			
<b>832.4-837.0</b>	<b>80% Qtz-Carb v. + 1% massive pyrite</b>	<b>26A-21</b>	<b>4.6</b>	<b>nil</b>
<b>837 - 977</b>	<b>Carbonate Rock: grey, f. gr., silty carbonaceous cleavage @ 70°.</b>			
843.6-849.0	20% Qtz-Carb, tourm, 2% py	26A-22	5.4	nil
877-879.8	20% Qtz-Carb @ 45%, -sl. py	26A-23	2.8	nil
903	3" Qtz-Carb str.			
929.5-932	20% Qtz-Carb str. + tourm, sl. py	26A-24	2.5	nil
944.7-946	60% Qtz-Carb + tourm, sl. py	26A-25	1.3	nil
972-977	CORE shows parting at 70° after shearing, carbonaceous planes & schistosity			
<b>977 - 986.4</b>	<b>Pyritized Graphite Carbonate Zone: foliated at 80°.</b>			
977-981.5	25% grey carbonates, 4% pyrite	26A-26	4.5	nil
981.5-986.5	grey carb, black graphite, 8% pyrite	26A-27	5.0	nil

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_ SHIELD GEOPHYSICS LIMITED

# DIAMOND DOLL RECORD

PROPERTY	HOLE NO.	81-26A
TOWNSHIP	PAGE NO.	5
LOCATION	CORE LOCATION	
	DATUM	
LOCATION	BEARING	
	DIP	
	ELeVATION	
	STARTED	
	COMPLETED	
	DEPTH	

DRAFT BY

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SHELDON COOPERMAN

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME

TOWNSHIP Ogden Township

LOCATION Line 32 East

Station 15+00 South

(geophysical grid)

ELEVATION

HOLE NO. 81-27

PAGE NO. 1

CORE LOCATION 79 Pine St. S.

DATUM

BEARING Grid North

DEPTH 937'

STARTED March 1, 1981

COMPLETED March 7, 1981

ELEVATION 70°

DEPTH FEET	FORMATION	SAMPLE NO. OR SAMPLE	WIDTH	AU/OZ	Ag/OZ
0 - 64	Casing (overburden).				
64 - 98.5	Intermediate Carbonatized Volcanic: light green, v. f. gr., poorly defined small grey spheroids at intervals - amygdalites.				
98.5 - 177	Carbonate Rock: grey to buff colour, colour banding at 45° may represent bedding, little py few carbonate stns.	27-1	2.4	nil	Tr
134.6-137.0	80% white qtz v.i. at contact with sericitic & in sericitic seems is pink metallic perhaps native silver or telluride				
137.0-140.2	100% barren white qtz	27-2	3.2	nil	Tr
140.2-142.4	90% white qtz, few seems light brown	27-3	2.2	nil	Tr
142.4-144.6	taum., sericitic, streak of pink metallic				
144.6-149.6	green carbonatized wlk	27-4	2.2	nil	Tr
149.6-155.1	75% qtz-carb + wlk & some tourm. sericitic	27-5	5.0	nil	Tr
		27-6	5.5	nil	Tr

Drilled By Dominik

Signed.....  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY	HOLE NO.	81-27			
TOWNSHIP	PAGE NO.	2			
LOCATION	STARTED				
DATUM	COMPLETED				
BEARING	DEPTH				
ELEVATION	DIP				
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ	AG/OZ
155.1-157.0	core ground				
157.0-161.0	50% qtz-carb. irreg. freq. of wlk.	27-7	4.0	nil	Tr
	sil. tourm, sericitc				
161.0-166.0	80% carb-qtz. some tourm, ser.	27-8	5.0	nil	Tr
166.0-169.8	60% carb-qtz	27-9	3.0	nil	Tr
176.5-177.5	carbonate, silice, pyrits, etc.	27-10	1.0	nil	Tr
	banded at 45°				
177 - 448	Intermediate to Mafic Carbonatized Volcanic:				
	gray to green, v. f. gr. with scattered amygdalae				
	chloritic & epidotized locally & banded @ 60°.				
232.7-238.5	1st & last ft. banded carbonates-qtz	27-11	5.8	0.12	
	with 8% pyrits				
302-309	ultramafic, blue-black, talcose				
326	6" qtz-epidote-hematite str.				
366-409	carb filling, amygdalae & epidote				
409-448	banded, chloritic				
448 - 476	Ultramafic Rock: blue black, v. f. gr. talcose: bottom contact fairly sharp.				

Drilled By

Signed

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY _____	HOLE NO. 81-27
TOWNSHIP _____	PAGE NO. 3
LOCATION _____	CORE LOCATION _____
DATUM _____	STARTED _____
BEARING _____	COMPLETED _____
DIP _____	DEPTH _____
ELEVATION _____	

DEPTH FEET	FORMATION	SAMPLE NO. OF SAMPLES	WIDTH OF SAMPLES	AU/OZ	Ag/Oz
476 - 901.7	Grauwacke-Slates: grey to black, v. f. gr.				
	uniform banding @ 65° to c.8. odd carb-gtz str.				
576.0	4" carbonate-gtz str.				
648	6" carbonates-gtz in breccia zone adjacent to draged sediments				
656.5	4" carbonates-gtz				
777	7" of gtz-carb str.				
801-802.8	6" & 1" gtz-carb str., some pyrite	27-12	1.8	0.03	
901.7 - 910.5	Carbonate-Quartz Vein: grey, sil. pyrite. 901.7-905.9 90% carb-gtz, 1" dolom. st. absent	27-13	4.2	Tr	
	indicates fault				
905.9-910.9	90% carb-gtz	27-14	5.0	Tr	
910.5 - 937	Carbonate Rock: light green, v. f. gr., faded banding at 70°, very high carbonate content, 1% dolom. pyrite as seams.				
	925.6-930.6 representative sample	27-15	5.0	Tr	
937	END.				
	Dip Test at 937' - 61°				

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY J. V. BONHOMME HOLE NO. 81-2B  
 TOWNSHIP Odgen Township PAGE NO. 1  
 LOCATION Line 32 East CORE LOCATION 79 Pine St., S.  
 Station 20+00 South DATUM Grid North  
 (Geophysical grid) BEARING DIP DEPTH 1107'  
 ELEVATION DIP 70°

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
0 - 88	Casing (overburden).			
88 - 277	Carbonate Rock: light grey-green. v. f. gr.. generally massive with local banding @ 50-60°.			
192.0-193.0	brecciated rusty qtz	28-1	1.0	nil
241-263	cream stretched voids may represent old anhydrites			
269-274	colour is light brown			
261-277	green to buff colour			
274-277	core around			
277 - 301	Hydrothermal Alteration Zone: "grey to light green. banded at 45°-50° marked by secondary carbonates, marlomite, pyrite,			
277-283	light green to buff			
283-288.8	buff colour with slight shearing may be contact zone of different rock types			
283-289	70% carbonate with 5% py & go	28-2	6.0	Ir
301 - 404	Carbonate Rock: brown, v. f. ff. generally massive, occ. with bending at 50-60°, very high carbonate.			

Drilled By, Dominik

Signed

SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY	TOWNSHIP	CORE LOCATION	STARTED	HOLE NO.	81-28
LOCATION	DATUM	BEARING	COMPLETED	PAGE NO.	2
ELEVATION	DIP	DEPTH			
		DEPTH FT	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE
		330.0-331.0	some banded qtz-carb		Au/oz
		376.0-387.0	colour changes to light grey-green		
		404.0-441.0	light green, incipient banding at 50° occ. diss. pyrite		
441 - 484		Amygdaoidal Intermediate Volcanic:	light green, v. f. gr., scattered zones of faded amygdalooids, dark green, chloritic sections probably represent pillow or lepilithi selvages, carbonate is secondary as stringers, upper contact poorly defined.		
484 - 619.5		Carbonate Rock:	light green to brown, v. f. gr. generally massive very high CO <sub>2</sub> , no volcanic structures.		
		539.5-562.5	40% qtz-carb @ 70°	28-3	3.0
		616 & 617	4" 8" 2" pink qtz stns.		Tr.
619.5 - 737.5		Intermediate Volcanic:	light green, v. f. gr., locally amygdalooidal in part fragmental with leptilli up to 5", in part possible pillow lava,		
		620.7-622	80% pink qtz & carbonates		
		657-677.4	well banded @ 50° suggesting tuff		

Drilled By

Signed

# DIAMOND DUFFILL RECORD

PROPERTY \_\_\_\_\_  
TOWNSHIP \_\_\_\_\_

HOLE NO. .... 81-28  
PAGE NO. .... 3

LOCATION _____	CORE LOCATION _____	STARTED _____
DATUM _____	COMPLETED _____	DEPTH _____
BEARING _____		
DIP _____		

DEPTH INT	FORMATION	WIDTH NO. OF SAMPLE	AU/OZ
624	4" barren white qtz.		
717.1-720.1	70% carb-qtz, tourm. 2% py	28-4	3.0 0.01
737.5 - 782.3	Carbonate Rock ?: grey to green, f. gr., folded bending at 50°, bottom contact at 50°.		
753	7" qtz-carb str.		
762.0-766.0	4-1" qtz str. with "bleached contact"		
769.6-772.6	70° 4-1" qtz-carb, tourm, 1% pyrite	28-5	3.0 TR
782.3 - 942.5	Intermediate to Mafic Volcanic: green to dark green, v. f. gr., rough colour banding @ 50°, tuff & minor fragments; fairly chloritic through- out with fine carbonate veins.		
864	10" qtz-chlorite str.		
885-893	2% diss. pyrite		
942.5 - 989.5	Ultramafic Rock: blue-black, f. gr., soft talcose, much carbonate.		
942.5-944	white carbonate		
954	1" carbonates-qtz		

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

# DIAMOND DRILL RECORD

PROPERTY \_\_\_\_\_

TOWNSHIP \_\_\_\_\_

HOLE NO. 81-28

PAGE NO. 4

LOCATION \_\_\_\_\_

STARTED \_\_\_\_\_

CORE LOCATION \_\_\_\_\_

COMPLETED \_\_\_\_\_

DATUM \_\_\_\_\_

DEPTH \_\_\_\_\_

BEARING \_\_\_\_\_

DEPTHL. \_\_\_\_\_

ELEVATION \_\_\_\_\_

DIP \_\_\_\_\_

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	AU/OZ
989.5 - 1107	Slate-Greywacke: grey to black, v. f. gr., banded at 60-70'.			
993.7	1" carb str., sil. pyrite			
1007	3" Qtz-Carb str. @ 90°			
1086.3	4" Qtz str. @ 90°			
1088.7	3" Qtz-Carb str.			
1091-1093	80% Qtz-Carb @ 50°; 1% pyrite	28-6	2.0	Tr
1107	END.			
	DIP TESTS			
	500' - 66°			
	1107' - 56°			

Drilled By \_\_\_\_\_

Signed \_\_\_\_\_  
SHIELD GEOPHYSICS LIMITED

APPENDIXSUMMARY OF SURFACE DRILLING1980-81 Programme

The All drill core recovered from this programme is stored at 79 Pine Street South, Timmins, Ontario.

Commencing in July, 1980, and finishing in March, 1981, the programme is summarized as follows:

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
80-1	Bass line 70+00 East	grid North	50°	301'
80-2	Line 48 East 48+00 North	grid North	50°	245'
80-3	Line 48 East 37+50 North	grid North	50°	553'
80-4	Line 36 East 10+00 North	grid North	50°	552'
80-5	Line 32 East 6+50 South	grid North	50°	770'
80-6	Line 32 East 10+00 South	grid North	50°	857'
80-7	Line 16 East 24+50 South	grid North	53°	747'
80-8	Line 24 East 20+00 South	grid North	50°	757'
80-9	116' West & 75.5' south of hole H-15	N10°E	70°	1397'
80-10	116' West & 57.5' north of hole H-15	North	70°	1067'
80-11	267' West & 92' south of hole H-15	North	70°	1257'
80-12	267' West & 57.5' north of hole H-15	North	70°	857'
80-13	116' West & 176' south of hole H-15	North	70°	985'
80-14	116' West & 326' south of hole H-15	North	70°	977'

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth</u>
80-15	116' West & 207' north of hole H-15	North	70°	887'
80-16	267' West & 157' north of hole H-15	North	70°	650'
80-17	267' West & 192' south of hole H-15	North	70°	854'
80-18	34' East & 60' north of hole H-15	North	70°	757'
81-19	34' East & 210' north of hole H-15	North	70°	650'
81-20	267' West & 342' south of hole H-15	North	70°	1090'
81-21	418' West & 220' south of hole H-15	North	70°	1007'
81-22	418' West & 370' south of hole H-15	North	70°	1097'
81-23	418' West & 70' south of hole H-15	North	70°	900'
81-24	568' West & 220' south of hole H-15	North	70°	1000'
81-25	568' West & 370' south of hole H-15	North	70°	1100'
81-26	220' South & 720' west of hole H-15	North	70°	185'
81-26	220' South & 720' west of hole H-15	North	70°	537'
81-26A	225' South & 720' west of hole H-15	North	70°	997'
81-27	Line 32 East 15+00 South	grid North	70°	937'
81-28	Line 32 East 20+00 South	grid North	70°	1107'

Holes 80-1 to 81-28 incl., hole 81-26A, and  
two holes number 81-26; total of 30 holes

25077'

Holes 80-1 to 80-8, 81-27 and 81-28 are located with reference to  
a grid established in 1978-79 for the purpose of controlling geo-  
physical surveys on most of the property. Holes 80-9 to 81-26A  
inclusive are located with reference to the collar of hole H-15  
which is 641 feet 552°W from the centre of shaft No. 1, a line  
crossing shaft No. 2.

Holes 80-1 to 80-8 inclusive were drilled on unpatented claims to satisfy assessment work requirements. This drilling may be classified as basic exploration having as targets, in most instances, conductive zones representative of sulphide-bearing shear zones. The remaining holes, including 80-9 to 81-28 inclusive, were located to confirm the presence of gold-bearing mineralization several hundred feet west of shaft No. 2 and extend this zone to the west if possible.

Overall cost of this drilling including engineering, assaying and preparation of storage facilities was approximately \$16.70 per foot.

#### 1973 Programme

In 1973, Bico Resources Inc. drilled two holes on the Bonhomme property as follows:

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u>	<u>Dip</u>	<u>Depth(ft.)</u>
N-73-1	SW corner of claim P525987	N10°W	45°	801
N-73-2	adjacent to hole 81-27	N13°W	65°	643
Total of				1444 ft.

Based on hole N-73-2, adjacent to hole 81-27, the rock description and classification compares fairly well with that used in the 1980-81 series. No gold values were encountered.

#### H Series Programme, 1960-63

No drill core is available from this programme. The drill logs were only recently located which accounts for some apparent

duplication by the 1980-81 programme. The summary, as follows, is basically that prepared in a report by J. M. Bracken, 1972.

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u> (magnetic)	<u>Dip</u>	<u>Depth</u>
H1	10+00 W 14+50 S	North	67°	1182'
H2	6+10 W 14+70 S	North	67°	1710'
H3	1+30 W 10+50 S	North	67°	1144'
H4	14+00 E 5+00 S	327°	55°	1108'
H5	15+50 E 4+00 S	327°	49°	993'
H6	12+00 E 5+50 S	327°	55°	1110'
H7	*approximate; determined from 1961 survey plan	N37°W (astronomic)	45°	193'
H8	"	Northwest	44°	150'
H9	"	Northwest	35°	219'
H10	"	Northwest	45°	183'
H11	"	Northwest	45°	127'
H12	"	Northwest	45°	140'
H13	"	Northwest	45°	239'
H14	50 E 20 N	North	67°	711'
H15	1+30 W 1+00 S	North	67°	745'
H16	6+00 E 4+50 N			221'
H17	1+30 W 3+50 N	North	50°	570'
H18	3+60 W 1+50 N	North	50°	416'
H 19	2+30 W 1+00 S	North	67½°	753'

<u>Hole No.</u>	<u>Location</u>	<u>Direction (magnetic)</u>	<u>Dip</u>	<u>Depth</u>
H20	8+00 E 5+50 N			117'
H21	3+60 W 0+00	North	67°	780'
H22	5+10 W 90 S	North	67°	792'
H23	3+60 W 1+10 S	North	67°	791'
H24	6+10 W 1+00 S	North	67°	773'
H25	1+30 W 2+50 S	North	67½°	1006'
H26	7+30 W 4+00 N	North	50°	402'
H27	13+40 W 2+00 N	North	55°	531'
H28	3+60 W 8+00 S	North	67°	1229'
H29	13+40 W 8+30 S	North	67°?	709'
H30	7+30 W 6+50 N	North	48°	321'
H31	48+00 W 2+50 S	North	47°	225'
H32	46+00 W 0+00	North		92'
H33	2+00 E 2+00 S	North	67°	764'
H34	2+00 E 1+40 N	North	65°	580'
H35	2+00 E 10+00 S	North	67½°	1065'
H36	2+30 W 5+00 S	North	67½°	1107'
H37	5+10 W 5+00 S	North	67½°	1257'
H38	1+30 W 1+60 N	North	67°	650'

after the completion of hole S5, other mining groups provided financing and supervision.

Apparently several geologists were involved in the programme; those shown on the records include W. R. Dunbar and R. A. Shatford. Detailed sections of hole S9 to S16, prepared by Shatford are the most useful records, although they tend to emphasize volcanic structures rather than differences between rock types based on chemistry.

Few significant gold values were encountered in this drilling. J. M. Bracken (1972) reports interesting values in hole S8 for which no log is available.

Apparently two different coordinate systems have been used in locating these holes; locations on the plans, therefore, are only approximate.

<u>Hole No.</u>	<u>Location</u>	<u>Direction (astronomic)</u>	<u>Dip</u>	<u>Depth(ft.)</u>
S1 McIntyre	claims P480785 P480789	N28°W	45°	1524
S2 McIntyre	claim P480790	N30°W	45°	1553
S8	claims P480788 P480791	North	60°?	1696 ?
S9	claims HS958 HS805	N 6°E	55°	766
S10	claims HS958 HS955	N10°W	52°	800
S11	claim HS954	N15°W	50°	1316
S12	claim HS955	N15°W	50°	818
S13	south of claim HS955	N15°W	47°	688

<u>Hole No.</u>	<u>Location</u>	<u>Direction</u> (magnetic)	<u>Dip</u>	<u>Depth</u>
H39	2+30 W 1+40 N		67½°	760'
H40	1+30. W 2+40 S	North	67½°	843'
H41	2+30 w 2+40 S	North	67½°	not <u>completed</u>
<u>Holes H1 to H41 inclusive, total</u>				<u>26708'</u>

\*The location of these holes is based on the coordinates of shaft No. 1 being N920.00 and E890.00, according to an unidentified O.L.S. on a plan dated April 29, 1961.

The drill core from this programme was logged and sampled by W. R. Dunbar with the exception of hole H35 which was logged by former government resident geologist R. H. Ginn, on behalf of New Hope Porcupine Gold Mines Limited. The logs by Dunbar consisted of hand written field notes. An effort was made to prepare a new set of logs from the notes. However, the usefulness of the logs is severely curtailed by the lack of rock classification according to chemical composition. The logs mainly describe real or apparent volcanic structures, a common practice up until the last ten or twenty years when the importance of rock classification according to their basic chemical composition was determined to be of primary importance.

Wherever noted, gold values in the logs have been plotted as accurately as possible to assist in the evaluation of the property.

#### S Series Programme, 1934-44

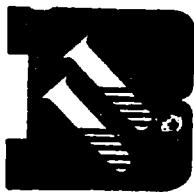
This programme, undertaken during the period 1934 to 1944, initially was sponsored by McIntyre Mines but subsequently,

<u>Hole No.</u>	<u>Location</u>	<u>Direction (astronomic)</u>	<u>Dip</u>	<u>Depth(ft.)</u>
S14	S 145 W 931  survey plan	N10°W	48°	668
S15	S1080 W 838  survey plan	N10°W	48°	900
S16	claim HS954	N10°W	50°	987
S17	claim HS954	N10°W	45°	502
S18	claim HS905	N20°W	?	308 ?
S19	claim HS905	N10°W	?	300 ?

12816



OM71-PE67-C-81



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

## BOURLAMAQUE ASSAY LABORATORIES LTD.

January 26, 1981.

Shield Geophysics Limited,  
P.O. Box 630,  
Timmins, Ontario.

Attn: Mr. R. Bradshaw

Dear Sirs,

Re: Your project "J.V. Bonhomme"

This will confirm that on your samples  
the fire-assay method is used to determine the gold  
and/or silver content.

Yours truly,

BOURLAMAQUE ASSAY LABORATOIRE

M. Bernier, Senior technician.

*M. Bernier*

/jg.

HOLE 19 - 28 ± MCL.



LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE  
BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS core  
SAMPLES

REÇU DE R.J. Bradshaw  
RECEIVED FROM

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

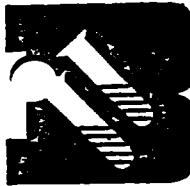
No. 32738

VAL D'OR, QUÉ. January 20 1981

ANALYSES ASSAYS 35 Au.

<u>Sample No.</u>	<u>Au oz/ton</u>	<u>Sample No.</u>	<u>Au oz/ton</u>
19 - 1	Trace	20 - 1	Trace
2	nil	2	Trace
3	Trace	3	Trace
4	0.01	4	Trace
5	0.01	5	Trace
		6	0.16
		7	0.03
		8	Trace
		9	Trace
		10	nil
		11	Trace
		12	Trace
		13	Trace
		14	Trace
		15	Trace
		16	Trace
		17	Trace
		18	0.03
		19	1.10
		20	Trace
		21	Trace
		22	Trace
		23	Trace
		24	0.01
		25	Trace
		26	0.06
		27	Trace
		28	0.02
		29	0.02
		30	0.01

*Oleecichar*  
ANALYSTE / ASSAYER



LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE  
BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

(Project: J.V. Bonhomme)

ÉCHANTILLONS  
SAMPLES Refer Cert. No. 32738

REÇU DE  
RECEIVED FROM R. Bradshaw

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

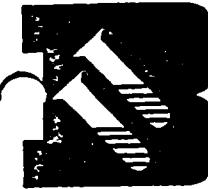
No. 32774

VAL D'OR, QUÉ. January 26 1981

ANALYSES  
ASSAYS 2 Au (checks)

<u>Sample No.</u>	<u>Au oz/ton</u>	
	<u>Cut 1</u>	<u>Cut 2</u>
pulp: 20-19	0.015	0.010

*M. Bovin*  
ANALYSTE / ASSAYER



LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉ  
BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

ÉCHANTILLONS                   reject

REÇU DE                         RECEIVED FROM

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

No. 32886

February 6

VAL D'OR, QUÉ.

ANALYSES  
ASSAYS

1 Au check

Sample No.

Reject

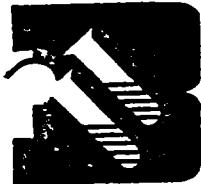
Au oz/ton

20-19

0.005

*Oleebbaad*

ANALYST / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

## BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS  
SAMPLES core

REÇU DE  
RECEIVED FROM R. Bradshaw

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

No. 32787

VAL D'OR, QUÉ. January 26 19... 81

ANALYSES  
ASSAYS 20 Au.

Sample No. Au oz/ton

21 - 1	nil
21 - 1A	Trace
21 - 2	Trace
21 - 3	Trace
21 - 4	0.01
21 - 5	Trace
21 - 6	Trace
21 - 7	0.01
21 - 8	nil
21 - 9	0.01
21 - 10	nil
21 - 11	0.01
21 - 12	nil
21 - 13	nil
21 - 14	Trace
21 - 15	nil
21 - 16	nil
21 - 17	Trace
21 - 18	nil
21 - 19	nil

J. Gagné  
ANALYSTE / ASSAYER  
Geo. W. McInnis



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

## BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS core  
SAMPLES

REÇU DE R. Bradshaw  
RECEIVED FROM

### CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

No 32815

VAL D'OR, QUÉ. January 29 1981

ANALYSES 25 Au.  
ASSAYS

#### Sample No. Au oz/ton

22 - 1	Trace
2	Trace
3	0.01
4	Trace
5	Trace
6	Trace
7	0.01
8	Trace
9	nil
10	nil
11	nil
12	Trace
13	0.01
14	Trace
15	nil
16	0.01
17	Trace
18	Trace
19	nil
20	Trace
21	Trace
22	Trace
23	0.01
24	Trace
25	nil

J. Gagné  
ANALYSTE / ASSESSOR



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

## BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS  
SAMPLES Core

REÇU DE  
RECEIVED FROM R. Bradshaw

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

No. 32906

VAL D'OR, QUÉ. February 10 1981

ANALYSES  
ASSAYS 13 Au.

Sample No.      Au oz/ton

23 - 1	Trace
23 - 2	Trace
23 - 3	Trace
23 - 4	nil
23 - 5	Trace
23 - 6	Trace
23 - 7	Trace
23 - 8	Trace
23 - 9	Trace
23 - 10	Trace
23 - 11	Trace
23 - 12	Trace
23 - 13	nil

*Alleecebaud*  
ANALYSTE / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉ

## BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Ltd.

Project: J.V. Bonhomme

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

No. 32948

February 16

81

VAL D'OR, QUÉ.

19

ÉCHANTILLONS  
SAMPLES core

REÇU DE  
RECEIVED FROM R. Bradshaw

ANALYSES  
ASSAYS 23 Au.

Sample No.	Au oz/ton
24 - 1	0.01
24 - 2	0.01
24 - 3	Trace
24 - 4	Trace
24 - 5	Trace
24 - 6	0.01
24 - 7	Trace
24 - 8	0.01
24 - 9	0.01
24 - 10	0.01
24 - 11	nil
24 - 12	Trace
24 - 13	Trace
24 - 14	Trace
24 - 15	Trace
24 - 16	Trace
24 - 17	Trace
24 - 18	0.01
24 - 19	Trace
24 - 20	nil
24 - 21	nil
24 - 22	Trace
24 - 23	nil

*R. Bradshaw*  
ANALYSTE / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

## BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Projet: J.V. Bonhomme

ÉCHANTILLONS  
SAMPLES core

REÇU DE  
RECEIVED FROM R. Bradshaw

### CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

No. 32986

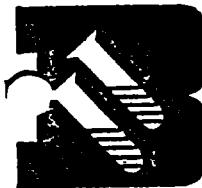
VAL D'OR, QUÉ. February 19 81  
19

ANALYSES  
ASSAYS 16 Au.

#### Sample No.      Au oz/ton

25 - 1	nil
2	0.02
3	0.01
4	Trace
5	Trace
6	Trace
7	nil
8	nil
9	Trace
10	Trace
11	Trace
12	nil
13	Trace
14	Trace
15	Trace
16	Trace

*Alleechard*  
ANALYSTE / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

# BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS                    core

REÇU DE                        R. Bradshaw

## CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

No. 33115

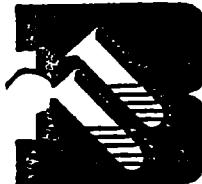
VAL D'OR, QUÉ.                    March 4                    19... 81

ANALYSES                        35 Au.  
ASSAYS

Sample No.	Au oz/ton
24 - 24	nil
26 - 1	nil
2	nil
3	nil
4	nil
5	nil
6	nil
7	nil
8	nil
9	nil

Sample No.	Au oz/ton
26A - 1	nil
2	nil
3	nil
4	nil
5	nil
6	nil
7	nil
8	nil
9	nil
10	nil
11	nil
12	nil
13	nil
14	nil
15	nil
16	nil
17	nil
18	nil
19	nil
20	nil
21	nil
22	nil
23	nil
24	nil
25	nil

Olivier Légaré  
ANALYSTE / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE

# BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Projet: J.V. Bonhomme

ÉCHANTILLONS      core

REÇU DE            R. Bradshaw

## CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

No. 33172

VAL D'OR, QUÉ. March 10 1981  
ANALYSES 12 Au.  
ASSAYS

<u>Sample No.</u>	<u>Au oz/ton</u>
26A - 26	nil
27	nil

<u>Sample No.</u>	<u>Au oz/ton</u>
27 - 1	nil
2	nil
3	nil
4	nil
5	nil
6	nil
7	nil
8	nil
9	nil
10	nil

*Alleechard*  
ANALYSTE / ASSAYER



LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE  
BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS  
SAMPLES ..... pulp  
REÇU DE  
RECEIVED FROM ..... R. Bradshaw

CERTIFICAT D'ANALYSES  
CERTIFICATE OF ANALYSIS

No. 33215

VAL D'OR, QUÉ. March 13 1981  
ANALYSES ASSAYS 10 Ag.

<u>Sample No.</u>	<u>Ag oz/ton</u>
27 - 1	Trace
2	Trace
3	Trace
4	Trace
5	Trace
6	Trace
7	Trace
8	Trace
9	Trace
10	Trace

Almeida  
ANALYST / ASSAYER



# LABORATOIRE D'ANALYSE BOURLAMAQUE LTÉE BOURLAMAQUE ASSAY LABORATORIES LTD.

Shield Geophysics Limited

Project: J.V. Bonhomme

ÉCHANTILLONS  
SAMPLES core

REÇU DE  
RECEIVED FROM R. Bradshaw

## CERTIFICAT D'ANALYSES CERTIFICATE OF ANALYSIS

No. 33325

VAL D'OR, QUÉ. March 26 1981  
ANALYSES ASSAYS 11 AU.

### Sample No. Au oz/ton

27 - 11	0.12
12	0.03
13	Trace
14	Trace
15	Trace

28 - 1	nil
2	Trace
3	Trace
4	0.01
5	Trace
6	Trace

*Olecluchard*  
ANALYSTE / ASSAYER

OM 71 - PE 67 - C-81

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

① GROUND MAG+EM by R.J. BRADSHAW  $\Rightarrow$  2. 4559  
FEB. 10/82

② \* D.D. HOLES 80-3 TO 80-8  $\Rightarrow$  REPORT OF WORK #213-80

③ \* D.D. HOLE 80-1  $\Rightarrow$  REPORT OF WORK #161-80

④ D.D. HOLES 80-1 TO 80-18  $\Rightarrow$  O.M.E.P. # 24 - PE 20 - I - 80  
TORONTO FILE: # OGDEN P.D.R. # 18

\* THESE HOLES CAN BE VIEWED IN ④ ABOVE

**SHIELD GEOPHYSICS LIMITED**

MINING EXPLORATION CONSULTANTS &amp; CONTRACTORS

AIRPORT ROAD, TIMMINS, ONTARIO

TELEPHONE (705) 264-9405  
MAILING ADDRESS:  
P.O. BOX 630  
TIMMINS, ONTARIO  
P4N 7G29 : 24  
March 3, 1982.

Mining Recorder's Office,  
Ministry of Natural Resources,  
60 Wilson Avenue,  
Timmins, Ontario.

Attention: Mr. Wm. Goode

Dear Sir:

Re: Application for Lease  
J. V. Bonhomme Claims - Ogden Township

Mr. J. V. Bonhomme, through a wholly owned Company,  
holds the following claims in Ogden Township.

<u>Claim Numbers</u>	<u>Number</u>	<u>Status</u>
P525987 & P525988	2	approval by Ministry of geophysics will complete assessment work requirements
P549069 & P539976	2	ready for lease
P480779 to P480791 incl.	13	ready for lease
P508675 & P508676	2	ready for lease
P516477 to P516479 incl.	3	ready for lease
P517109 to P517112 incl.	4	ready for lease
P522488 & P522489	2	ready for lease
P21514 to P21517 incl.	4	patented
P24768 to P24770 incl.	3	patented
P17798, P17799, P17801, P17802 & P18161	5	patented
HS953 to HS958 incl., HS805 & HS961	8	patented
	—	
	48	

...2

- 2 -

On those claims which are unpatented and ready for lease, Mr. Bonhomme would like to proceed with application for lease.

Many of the claims abut or are surrounded by patented claims as shown on the attached map. I expect that this will effect subsequent instructions concerning survey requirements.

May I hear from you on this matter at your earliest convenience.

Yours truly,  
SHIELD GEOPHYSICS LIMITED,



R. J. Bradshaw, P. Eng.

RJB:pd  
Encl.

c.c. Mr. J. V. Bonhomme

**SHIELD GEOPHYSICS LIMITED**

**MINING EXPLORATION CONSULTANTS & CONTRACTORS**

AIRPORT ROAD, TIMMINS, ONTARIO

TELEPHONE (705) 284-9405  
MAILING ADDRESS:  
P.O. BOX 630  
TIMMINS, ONTARIO  
P4N 7G2

March 4, 1982.

22 MAR 6 9 0 7

**Mining Recorder's Office,  
Ministry of Natural Resources,  
60 Wilson Avenue,  
Timmins, Ontario.**

Dear Sirs:

**Re: Application for Lease  
J. V. Bonhomme Claims - Ogden Township**

Pursuant to my letter and conversations of March 3rd, please find enclosed a map of J. V. Bonhomme's holdings in Ogden Township.

In view of the distribution of patented and unpatented land held by Mr. Bonhomme and subject to satisfactory survey data being available to the Ministry, a perimeter survey as outlined in yellow would appear to be the most ideal in terms of identifying the unpatented land and proceeding from known survey points along the Township line.

It is, therefore, requested that a survey as shown by the yellow line be undertaken to satisfy the requirements for application of lease of the unpatented claims.

Yours truly,  
**SHIELD GEOPHYSICS LIMITED,**

  
R. J. Bradshaw.

RJB:pd  
Encl.

c.c. J. V. Bonhomme

Pamour Porcupine Mines, Limited  
Administration Building  
P.O. Bag 2010  
Timmins, Ontario, Canada P4N 7X7

**PAMOUR**

March 8, 1982.

J.V. Bonhomme,  
P.O. Box 1023,  
Timmins, Ontario.

Attention: Mr. J.V. Bonhomme

Dear Sir:

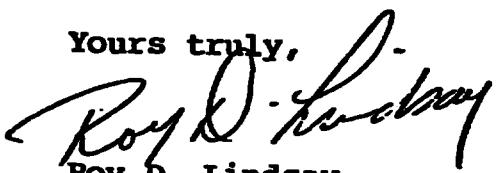
Re: Assaying and Disposal of Desantis Ore

Enclosed please find a Commercial Transport invoice for \$2,027.50 dated March 4, 1982 to cover the cost of moving the Desantis material to a dump location from the main coarse ore stockpile at Pamour Porcupine Mines, Ltd. No. 1 Mine. Would you please make your cheque payable to Commercial Transport, Timmins at the address indicated on the invoice.

Also attached is the assay suite requested for all the trucks of Desantis material delivered to the Pamour 1 Mine. An assay (atomic absorption technique) charge of \$647.50 (185 samples x \$3.50) has been applied to these samples. It is noteworthy that there has been no charges assessed for the fire assays (16) conducted. Payment of assay charges would be made to Pamour Porcupine Mines, Limited using Account No. 7000 and Reference No. 0694.

Thank you very much for your co-operation in this matter.  
If you have any questions arising from these charges or  
handling of same, please contact me at Pamour Porcupine Mines,  
Limited.

Yours truly,



Roy D. Lindsay,  
Area Superintendent,  
Metallurgical Operations.

RDL/cn  
c.c. W. W. Holmes  
D. Towers  
Encl.

J.V. Bonhomme  
Box 1023  
Timmins, Ontario

Pamour Porcupine Mines Limited,  
Administration Offices,  
Schumacher, Ontario.

Attention: Warren Holmes

Metallurgical Testing of Ore

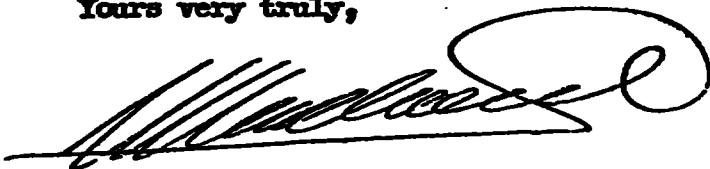
Dear Sir,

This letter is to confirm that you are authorized to dispose of the rock pile at Pamour #1 into the cave in pit at your property. This is due to the erratic assays and average low grade obtained on the overall shipment.

I look forward to receiving copies of all individual assays on samples from the trucks that were taken at the scales. So I may conclude a report assessing the stockpile. You can invoice me for charges of moving the rock which I understand will be in the neighbourhood of \$ 2,000.00 and also for assay charges.

I thank you for your co-operation.

Yours very truly,



JVB/rm

J.V. Bonhomme.

## PAMOUR PORCUPINE MINES LTD.

#16

## ASSAY REPORT

DATE - FEB. 3 / 82

IRAY FA.

TYPE - TRUCKS LOCATION -

DE STANIS

NO.	SAMPLE NUMBER	F.A. OZ. Per TON Au	A.A. Ton Au Ag	Ag %	Cu %	Zn %	Pb %	Fe %
1	501203	✓		.01				
2	06	✓		TR				
3	07	✓		~				
4	08	✓		.02				
5	09	✓		.01				
6	10	✓		TR				
7	11	.02		.01				
8	12	.01		.01				
9	13	✓		TR				
10	14	✓		.01				
11	15	.04		.03				
12	16	✓		TR				
13	17	✓		~				
14	18	.01		.01				
15	19	✓		.01				
16	501220	✓		TR				
17								
18								
19								
20								
21								
22								
23								
24								
25								
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28								
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ASSAYER

## PAMOUR PORCUPINE MINES LTD.

## ASSAY REPORT

TRAY NO. 5TYPE TRUCK LOCATION- DECANTISDATE- Feb 12 1882

NO.	SAMPLE NUMBER	OZ. Per TON <u>Au</u>	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	501317	.26						
2	18	.26						
3	19	.07						
4	20	.26						
5	21	.1						
6	22	.26						
7	23	.04						
8	24	.01						
9	25	.02						
10	26	.26						
11	27	.01						
12	28	.01						
13	501329	.01						
14	506447	.01						
15	50	.26						
16	51	.01						
17	52	.04						
18	53	.26						
19	54	.01						
20		.26						
21								
22								
23								
24								
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35								

ASSAYER

## PAMOUR PORCUPINE MINES LTD.

TRAY NO. 13 B

## ASSAY REPORT

TYPE - 1 UCK LOCATION - DE SANTISDATE - Feb. 11/82.

SAMPLE NO.	SAMPLE NUMBER	OZ. Per <u>Au</u>	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	501253	.02						
2	501059	.01						
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
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ASSAYER - 151

## ASSAY REPORT

Total location: Decantia

DATE: Feb 5/82

SAMPLE NUMBER	GR. PER AU	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1 501233	.01						
2 34	X						
3 35	.01						
4 36	.0						
5 37	.01						
6 38	X						
7 39	.01						
8 40	.01						
9 41	.02						
10 42	X						
11 43							
12 44							
13 45	X						
14 46	.01						
15 47	.01						
16 48	.01						
17 49	.01						
18 50	X						
19 51	X						
20 501252	X						
21							
22							
23							
24							
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32							
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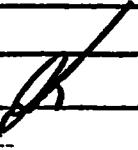
ASSAYER

## ASSAY REPORT

Truck Section - DESANTIS

DATE - Feb. 4 / 83

SAMPLE NO.	NUMBER	OZ. PER TON (AU)	AO	NI %	CU %	Zn %	Pb %	Fe %
1	501221	TV.						
2	23	.01						
3	23	X.						
4	24	.01						
5	25	X.						
6	26	X.						
7	27	.01						
8	28	X.						
9	29	S						
10	30	S						
11	31	X.						
12	501232	.01		Au	Au			
13				AA	FA			
14								
15				70	16			
16								
17								
18								
19								
20								
21								
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ASSAYER - 

K.Y.

DATE - Feb. 24

NO.	SAMPLE NUMBER	OZ. Per TON (Au)	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	9151	.01						
2	50	.10						
3	53	.01						
4	511	.01						
5	55	.01						
6	9156	.20						
7								
8								
9								
10	Ave	0.023						
11								
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ASSAYER - 6 Day

78 : 78  
TICK LOCATION - DESANTIS

DATE - Feb. 25/82

NO.	SAMPLE NUMBER	OZ. Per Au	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	SD1215	27						
2	16	7						
3	18	27						
4	19	02						
5	22	27						
6	23							
7	24							
8	28							
9	39							
10	30							
11	31							
12	32	27						
13	33	.01						
14	37							
15	48							
16	50							
17	51							
18	52							
19	53							
20	55	.01						
21	56							
22	60							
23	61	.01						
24	63	.01						
25	66	27						
26	67							
27	72							
28	73							
29	74							
30	77							
31	78							
32	80							
33	81							
34	83							
35	SD12 84	27						

ASSAYER - 0.7 -

TIRAY NO. 3

## ASSAY REPORT

TYPE 1b LOCATION DesantesDATE Feb. 25/82

SAMPLE NO.	SAMPLE NUMBER	OZ. Per (A.D.)	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	SO1201	41						
2	02	.03						
3	03	21						
4	04	21						
5	05	.06						
6	06	.04						
7	07	21						
8	08	.01						
9	09	21						
10	10	1						
11	11							
12	13							
13	35							
14	36							
15	39							
16	42							
17	46							
18	47							
19	54							
20	62							
21	65							
22	68	21						
23	69	.03						
24	70	21						
25	71	21						
26	75	.01						
27	82	.17						
28	85	21						
29	87	1						
30	88							
31	90							
32	91							
33	97							
34	SO1299							
35	SO1305	71						

ASSAYER - DJ

## HATOURUM - PURULUPINE

TRAY NO. 2

## ASSAY REPORT

TYPE - Tz LOCATION - PescantisDATE - FEB. 25/80.

SAMPLE NO.	SAMPLE NUMBER	OZ. Per <u>AD</u>	TON Ag	NI %	Cu %	Zn %	Pb %	Fe %
1	501212	.01						
2	14	✓						
3	21	✓						
4	26	.01						
5	27	✓						
6	34	✓						
7	38	✓						
8	41	.01						
9	49	.01						
10	57	.03						
11	58	✓						
12	76	/						
13	79	/						
14	86	/						
15	89							
16	92							
17	93							
18	94	✓						
19	95	.01						
20	96	✓						
21	501298	.01						
22	501300	.01						
23	01	.01						
24	02	.02						
25	03	✓						
26	04	.01						
27	06	.02						
28	07	.06						
29	08	✓						
30	09	/						
31	11	✓						
32	12	.01						
33	14	.01						
34	15	✓						
35	501316	.13						

ASSAYER - DA7

## PAMOUR PORCUPINE MINES LTD.

TRAY - 78

## ASSAY REPORT

TYPE - TRUCK LOCATION - Desante

DATE - Feb 24 52

NO.	SAMPLE NUMBER	OZ. Per TON Au	TON Ag	NI %	Cu %	Zn %	Pb %	Fa %
1	501240	.01						
2	501259	.2						
3	501310	.01						
4	501313	.01						
5								
6								
7								
8								
9								
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ASSAYER - A.D.F.

**SHIELD GEOPHYSICS LIMITED**

MINING EXPLORATION CONSULTANTS &amp; CONTRACTORS

AIRPORT ROAD, TIMMINS, ONTARIO

TELEPHONE (705) 204-9405  
MAILING ADDRESS:  
P.O. BOX 630  
TIMMINS, ONTARIO  
P4N 7G2

October 23, 1981.

Mr. J. V. Bonhomme,  
168 Algonquin Blvd. E.,  
Timmins, Ontario.

Dear Sir:

**Re: Ogden Township Property**

Please be advised that the status of the Ogden Township claims is as follows:

<u>Claim Numbers</u>	<u>Number</u>	<u>Status</u>
P525987 & P525988	2	requires 99 days
P549069 & P539976	2	ready for lease
P480779 to P480791 incl.	13	ready for lease
P508675 & P508676	2	ready for lease
P516477 to P516479 incl.	3	ready for lease
P517109 to P517112 incl.	4	ready for lease
P522488 & P522489	2	ready for lease
P21514 to P21517 incl.	4	patented
P24768 to P24770 incl.	3	patented
P17798, P17799, P17801	5	patented
P17802 & P18161		
HS953 to HS958 incl., HS805 & HS961	8	patented
	—	
	48	

You will note that all of the claims, with the exception of two, are ready for lease which involves a perimeter land survey about the claim block.

Claims P525987 and P525988 require 99 days additional assessment work. I have recently received at a cost of \$1002. geophysical data covering these two claims. On preparation and submission to the Ministry of maps and a report of the geophysical survey data, work requirements are expected to be satisfied. I require your approval to proceed with this matter. Thereafter, applications for lease can be made on claims P525987 and P525988.

Yours truly,  
SHIELD GEOPHYSICS LIMITED,



R. J. Bradshaw, P. Eng.

RJB:pd



Ontario

Ministry of the  
Environment

13:22  
Northeastern  
Region

13:22  
83 Algonquin Blvd., West,  
Timmis, Ontario.  
P4N 2R4  
(705) 284-9474

October 23, 1981

Mr. J.V. Bonhomme,  
168 Algonquin Blvd. E.,  
Timmins, Ontario.

Dear Sir:

On August 13, 1981 I submitted for analysis some mine shaft water you obtained from the Desantis Mine. Results of the analysis showed the arsenic level in the water to be at 2.2 mg/l. Our Ministry restricts the input of arsenic to the environment at 0.5 mg/l.

I have reviewed your proposal of emptying the mine water into a ditch. The ditch extends from the mining property eastward to Mountjoy River. The ditch should provide sufficient time for the arsenic to settle out before the mine water enters Mountjoy River. I will be monitoring the flow through the ditch to be sure there is sufficient settling time. I would appreciate a drawing showing the exact location of the ditch.

Please remember that we must approve of any other type of discharge you may be planning.

Yours truly,

B. Cave,  
Environmental Officer.

BC/ha



Ministry of  
Natural  
Resources

Whitney Block  
Queen's Park  
Toronto Ontario  
416/965-1301

25 8 : 56

October 21st, 1981.

Mr. J.V. Bonhomme,  
168 Algonquin St. E.,  
Timmins, Ontario.

Dear Mr. Bonhomme:

I refer to our recent telephone conversation concerning the draining of the shafts of a mine in Ogden Township.

Mr. John Hatton, District Officer, Abatement, Ministry of the Environment, advises me staff of that Ministry have now been in discussion with you and have suggested disposal of waste water to either a tailings type area or a swamp or marsh. This is necessitated by an abnormal amount of arsenic in the water samples. I am told it is five times the accepted limit. We are hopeful that an early solution to this problem will be found.

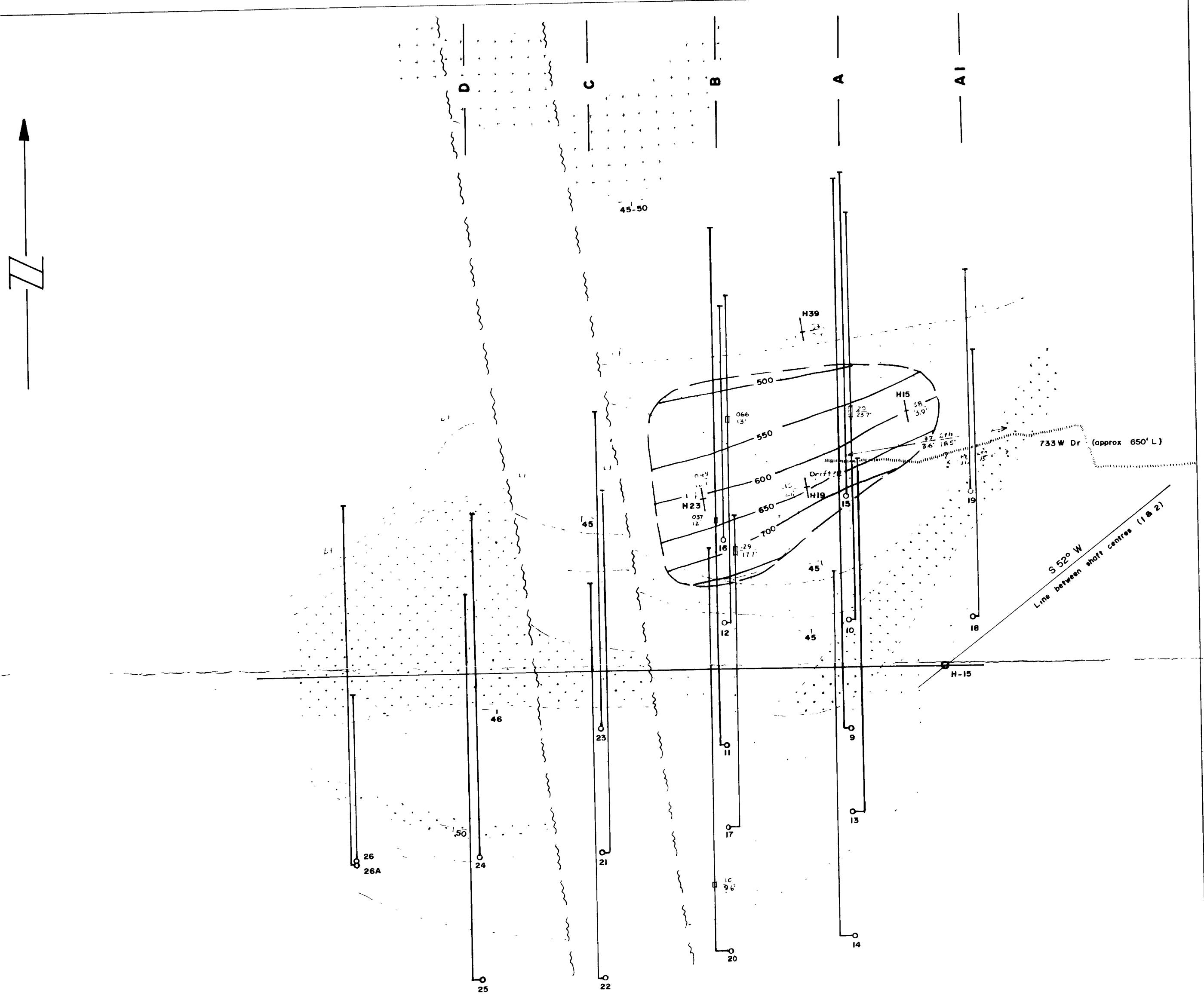
In respect to your application under the Ontario Mining Exploration Program, there does not appear to be a problem. I understand you had an initial designation from September to December, 1981 and received a grant of \$40,636. Your 1981 program was split into two segments and under the initial segment to March 31, 1981 you received \$43,061. Your second segment provides you with a possible maximum grant of \$226,250 if you incur eligible expenditures of \$905,000 before December 31, 1981.

I hope this is a satisfactory explanation of the current status of your problem.

Yours sincerely,



Robert L. Kertson,  
Special Assistant to the  
Minister.



42A06NW0205 63.3962 OGDEN

200

#### LEGEND

- Mafic volcanics, probable tuff
- Ultramafic rock
- Intermediate carbonatized volcanics (buff coloured rock - carbonate sediment)
- Silt or greywacke
- Hydrothermal alteration zone
- Carbonate stringer zone

#### SYMBOLS

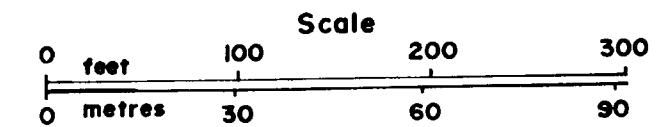
- Horizontal projection of drill hole
- Contour and outline of gold zone
- Gold value - oz./ton over width in feet
- Fault
- Strike and dip
- Approx. location of gold intersection - H Series

63.3962

#### DIAMOND DRILL HOLE PLAN

#### J. V. BONHOMME PROPERTY

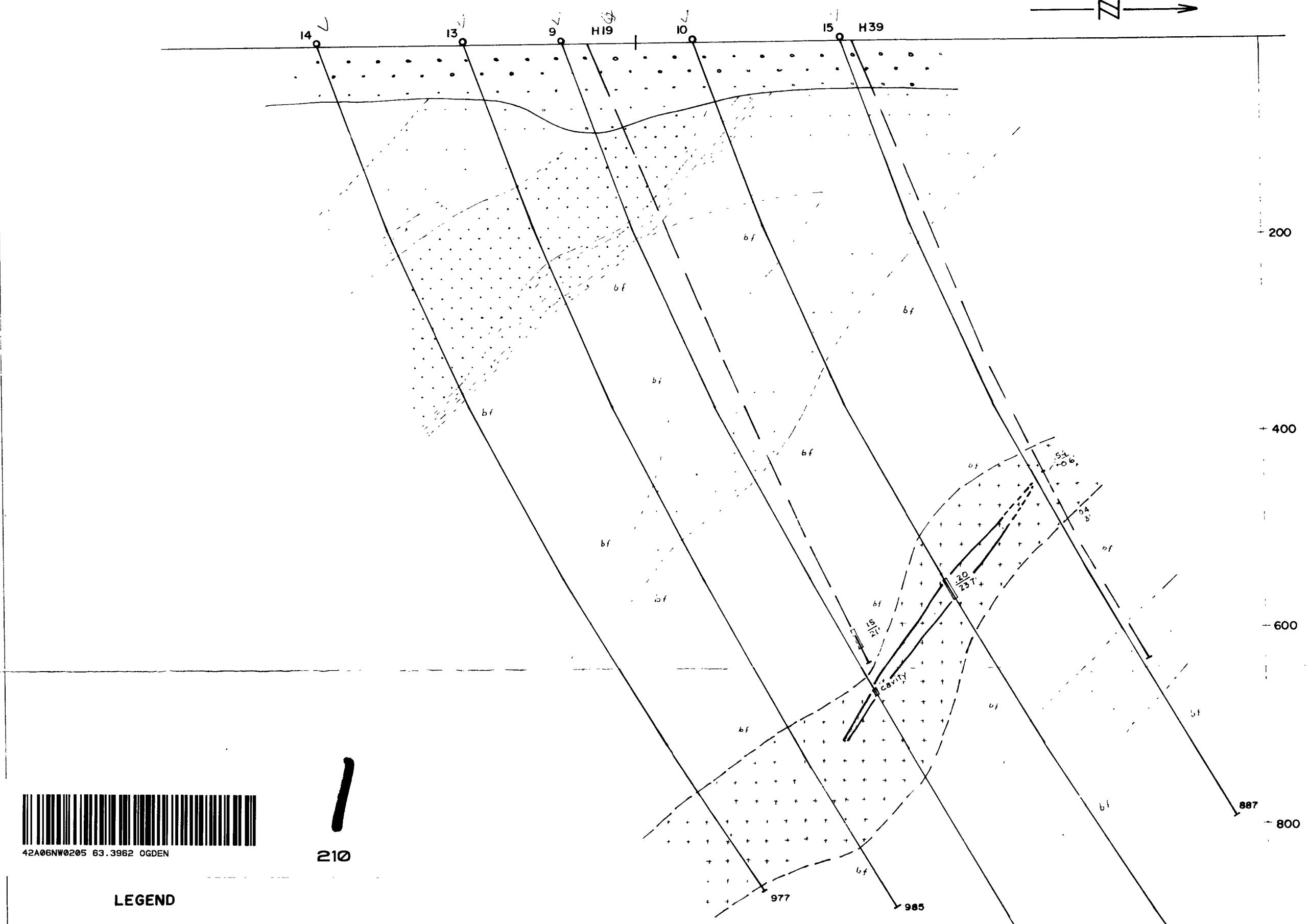
OGDEN TOWNSHIP, ONTARIO



FEBRUARY, 1981

FIGURE I

OM71 - PE67 - C-81



42A06NW0205 63.3962 OGDEN

210

#### LEGEND

- • Overburden
- Mafic volcanics, probable tuff
- Ultramafic rock
- ▨ Intermediate carbonatized volcanics  
(buff coloured rock - carbonate sediment)
- ▀▀▀ Slate or greywacke
- ++ Hydrothermal alteration zone
- █████ Carbonate stringer zone

#### SYMBOLS

- Q-Q Drill hole, location approximate
- $\frac{20}{23.7}$  Gold value - oz./ton over width in feet
- ~~~~ Fault

#### SECTION A

(116' west of hole H-15)

#### J. V. BONHOMME PROPERTY

OGDEN TOWNSHIP, ONTARIO

#### Scale

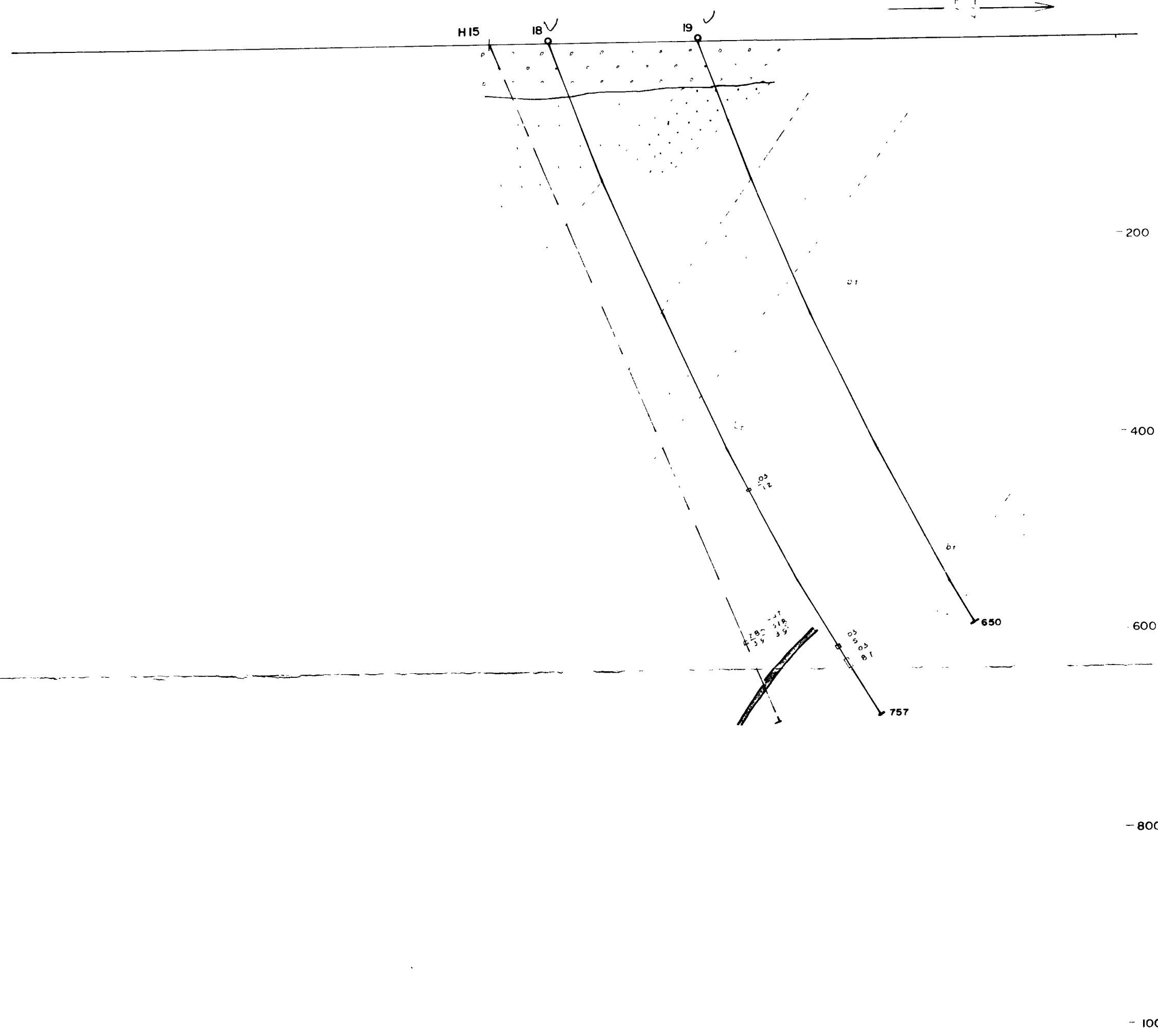
0 feet 100 200 300  
0 metres 30 60 90

63.3962

FEBRUARY, 1981

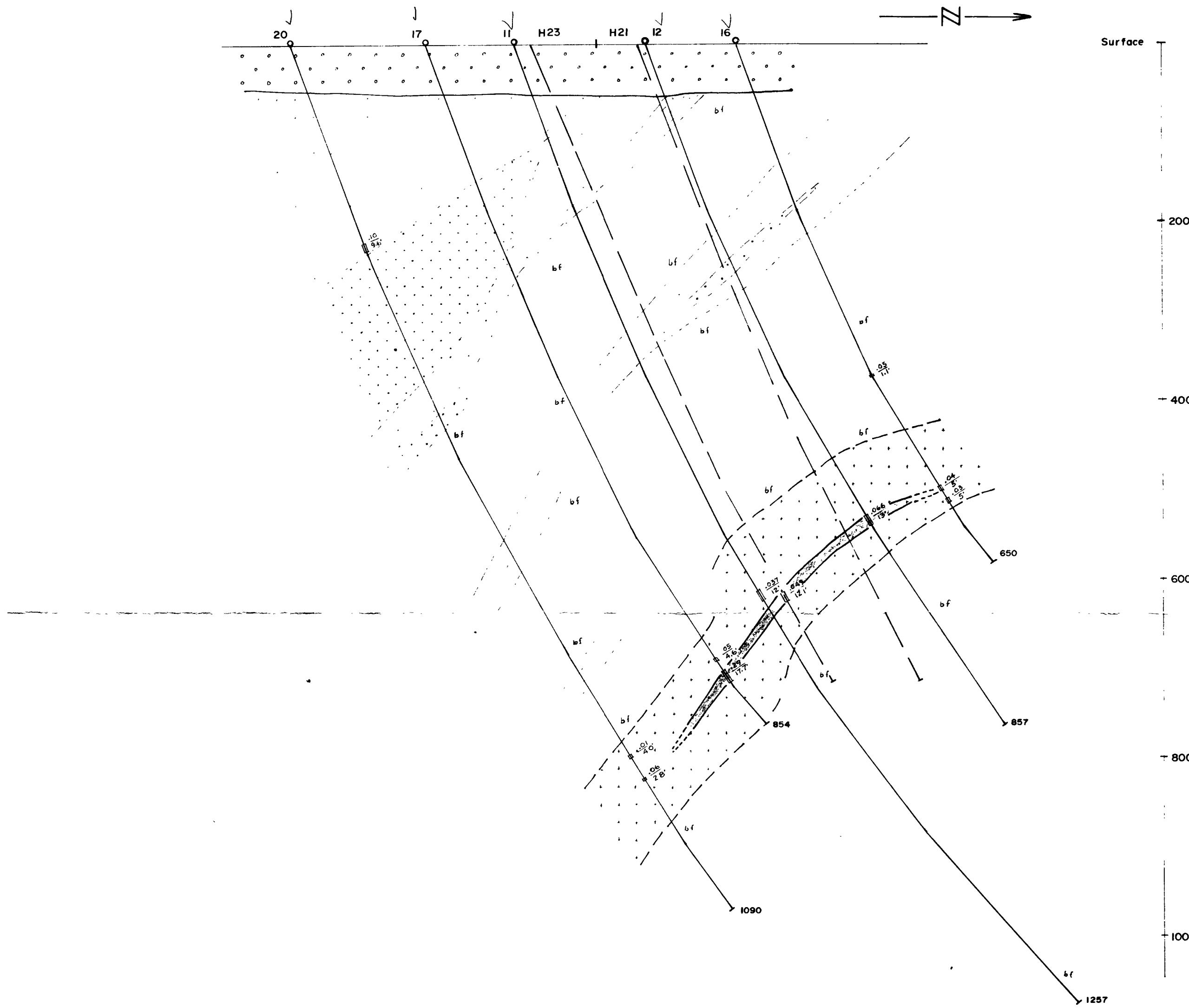
FIGURE 2

OM 71 - PE 67 - C-81



42A06NW0205 63.3962 OGDEN

220



**SECTION B 63-39**

(267' west of hole H-15)

**J. V. BONHOMME PROPERTY**  
OGDEN TOWNSHIP, ONTARIO

Scale

0	feet	100	200	300
0	metres	30	60	90

FEBRUARY, 1981

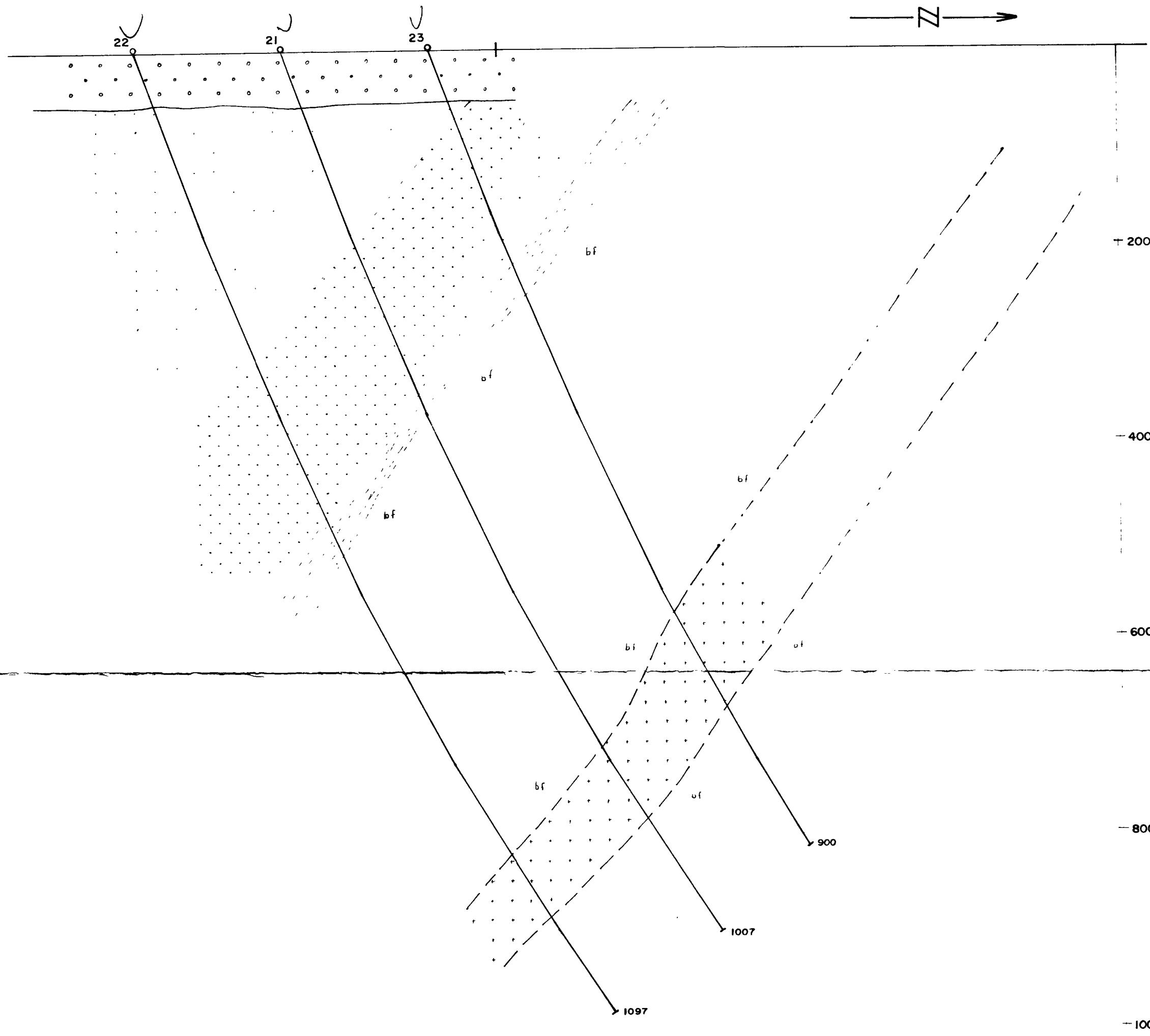
OM71-PE67-C-81

FIGURE



42A06NW0205 63.3962 OGDEN

230



63.396  
SECTION C

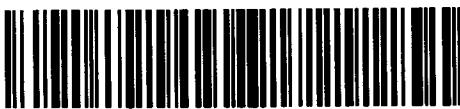
(418' west of hole H-15)

J. V. BONHOMME PROPERTY  
OGDEN TOWNSHIP, ONTARIO

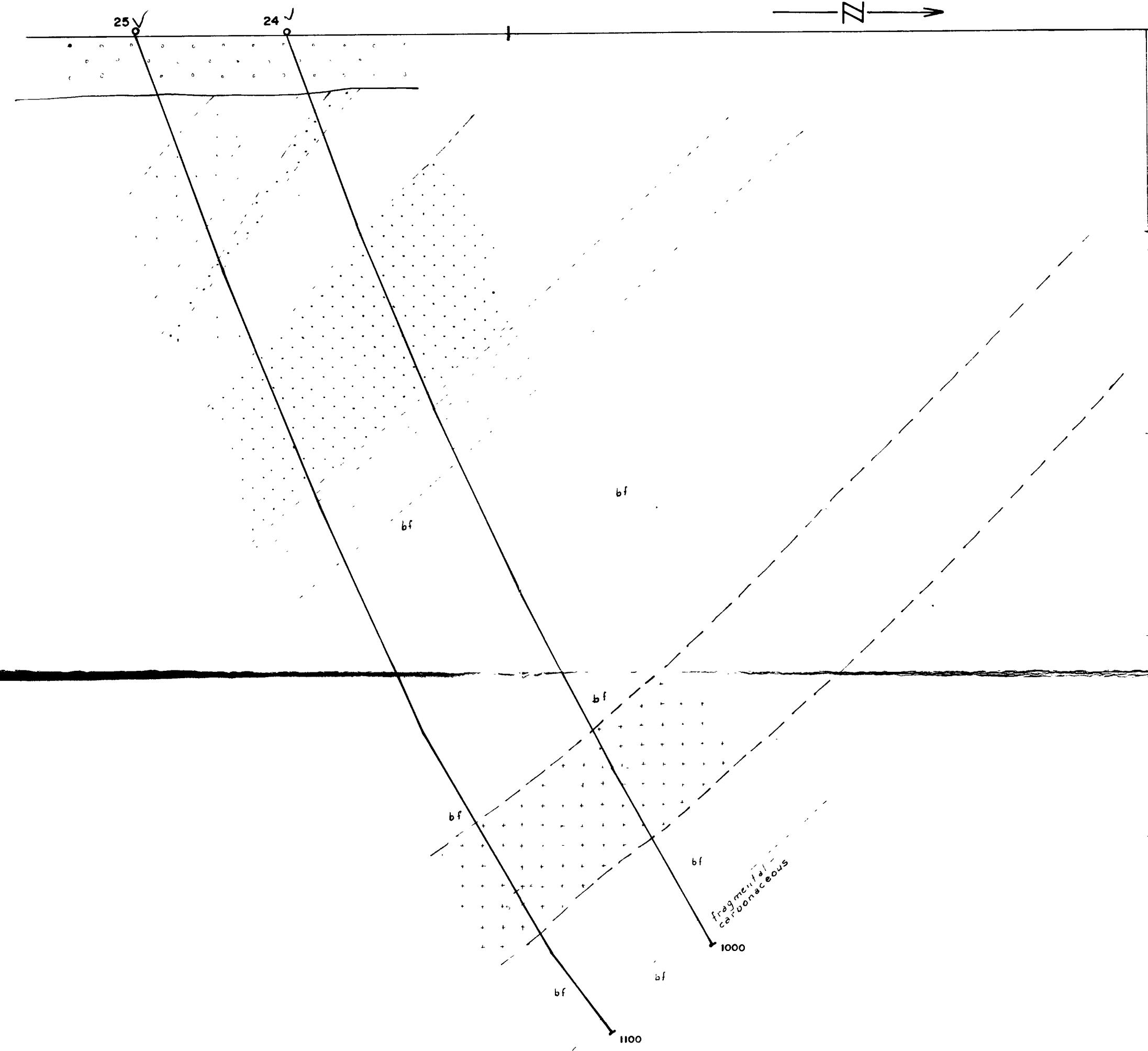
Scale  
0 feet 100 200 300  
0 metres 30 60 90

FEBRUARY, 1981

OM71 - PE67 - C-81



42A06NW0205 63.3962 OGDEN



63.396

**SECTION D**

(568' west of hole H-15)

**J. V. BONHOMME PROPERTY**

OGDEN TOWNSHIP, ONTARIO

Scale

0	feet	100	200	300
0	metres	30	60	90

FEBRUARY, 1981

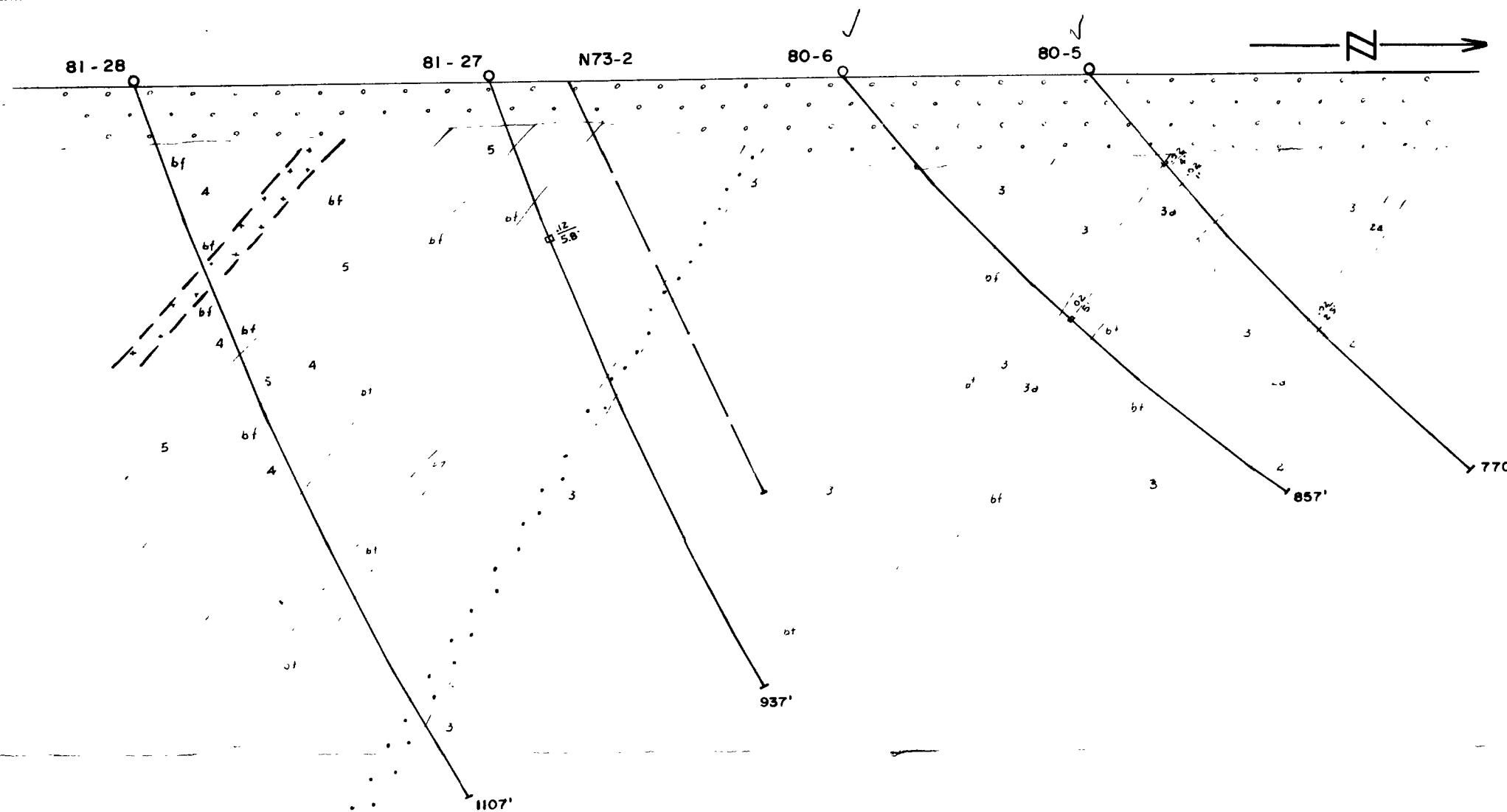
FIGURE



42A0GNW0205 63.3962 OGDEN

250

DM71 - PE67-C-81



63.3962

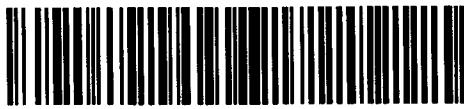
**SECTION E**

**J. V. BONHOMME PROPERTY**

OGDEN TOWNSHIP, ONTARIO

Scale

0	feet	200	400	600
0	metres	60	120	180



42A06NW0205 63.3962 OGDEN

260

For LEGEND see FIG. 7

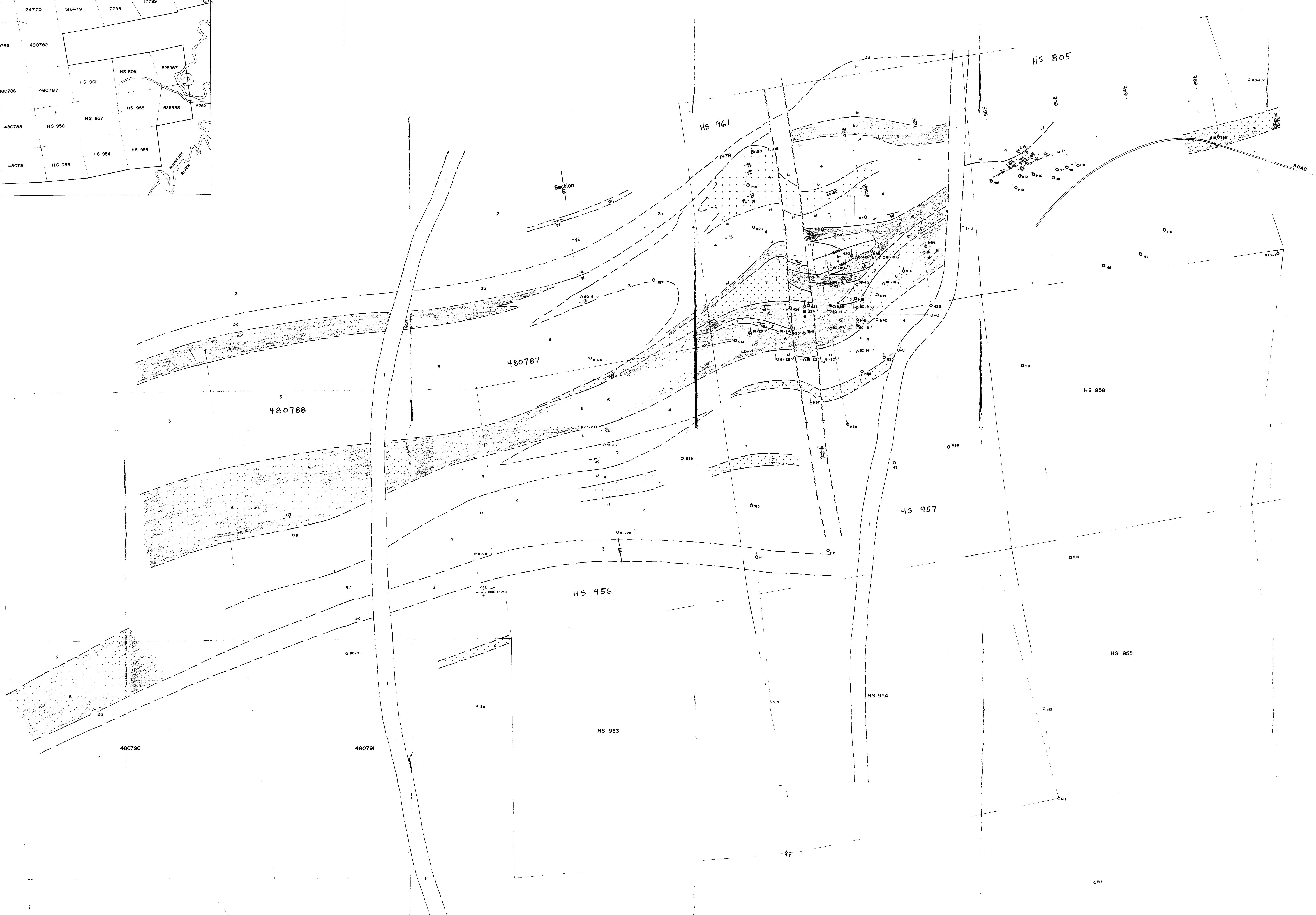
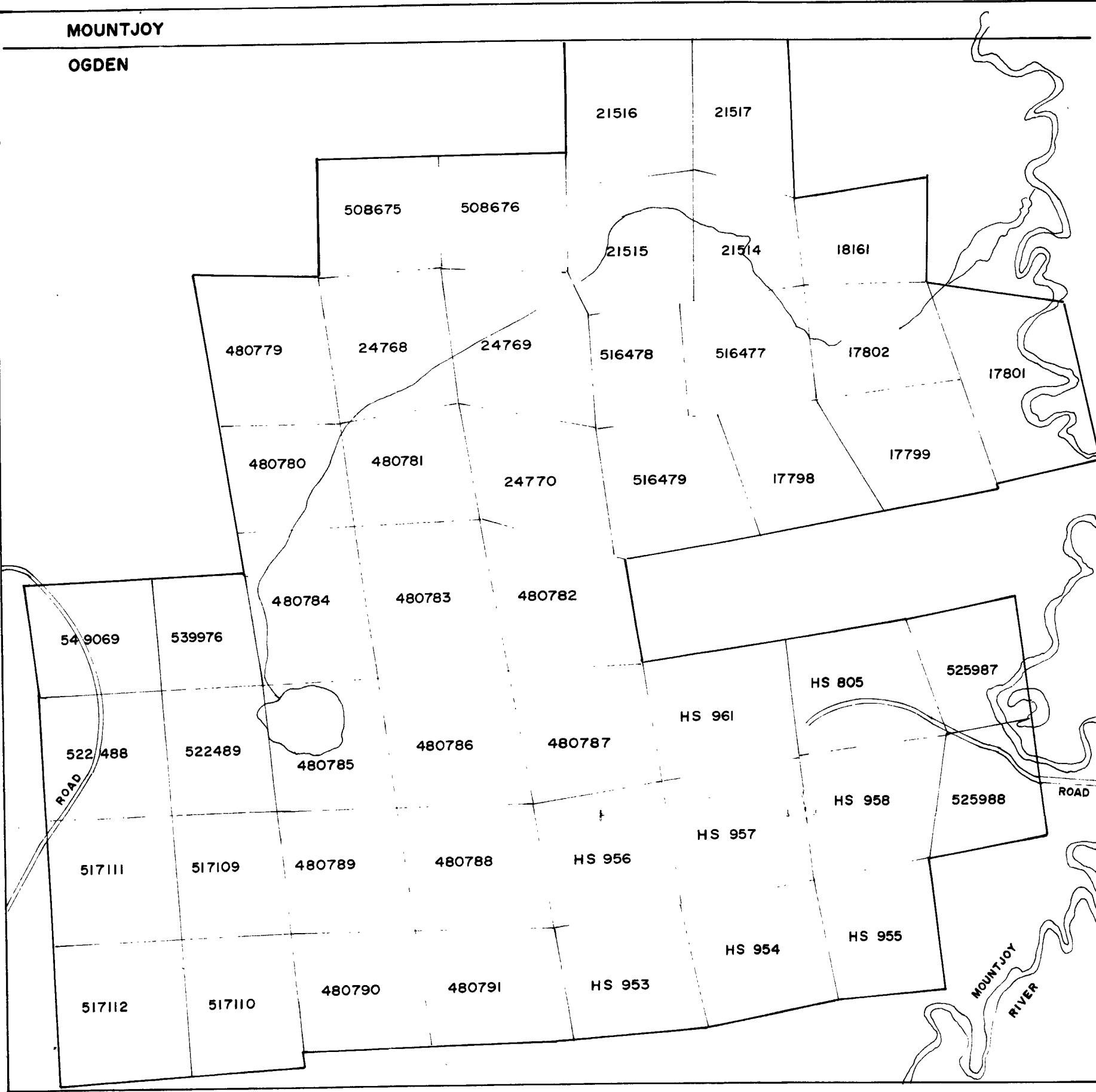
APRIL, 1981

DM71-P667-C-81

FIGURE 6

## KEY MAP

1 inch to 1320 feet



## SYMBOLS

- Horizontal projection of drill hole
- Series H - location established
- Series M - location fairly well established
- Series S - location approximate
- Rock contact 70' below surface, established from drill hole, projected
- Strike and dip
- Fault = vertical
- $\frac{1}{10}$  Gold value in oz per ton over width in feet
- Horizontal projection of gold zone, with contours showing depth from surface
- Near surface gold zone west of shaft No. 1

## LEGEND

- 1 Database
- 2 PORCUPINE GROUP (Temiskaming Sediments) Pike et al
- 3a Greywacke, slate
- 3b Graphite with pyrite
- 4 TISDALE GROUP Pike et al
- 5a Greywacke, slate
- 5b Graphite with pyrite
- 6 Carbonate rock, buff to cream coloured and generally banded, may in part be intermediate tuff
- 7 Intermediate volcanic tuffs and flows
- 8a Agglomerate
- 8b Metacarbonate, dark green, carbonate stringers and chloritic
- 9a Ultramafic rocks, blue black and talcose
- In some locations, possibly stratigraphically related to 3 by facies change
- ALTERATION
- 10a Carbonate stringer zone
- 11 Hydrothermal zone, abundant tourmaline, quartz, sulphides and locally vuggy

DIAMOND DRILLING & GEOLOGY  
J.V. BONHOMME PROPERTY

OGDEN TOWNSHIP, ONTARIO

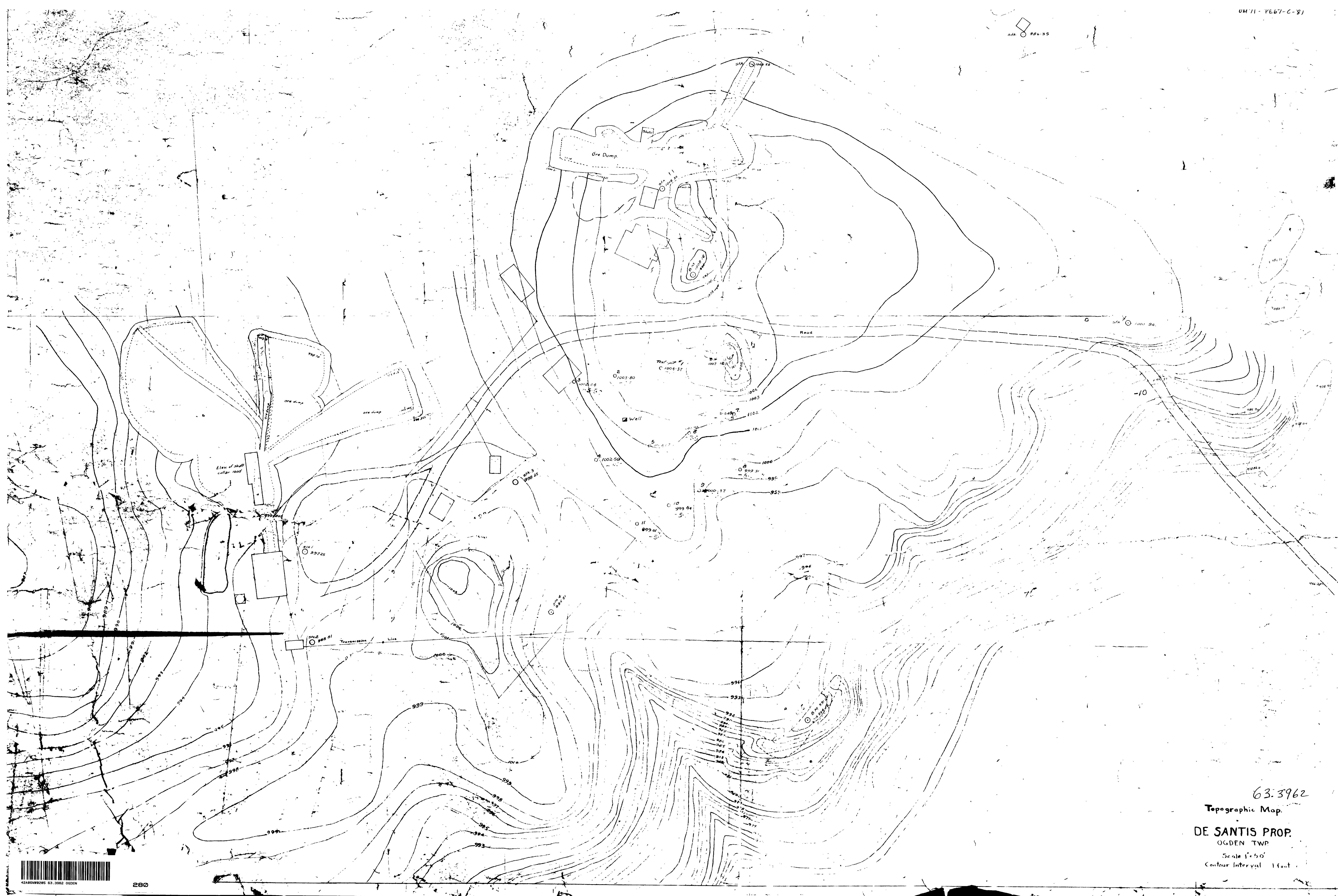
SCALE  
0 feet 200 400 600  
0 metres 60 120 180

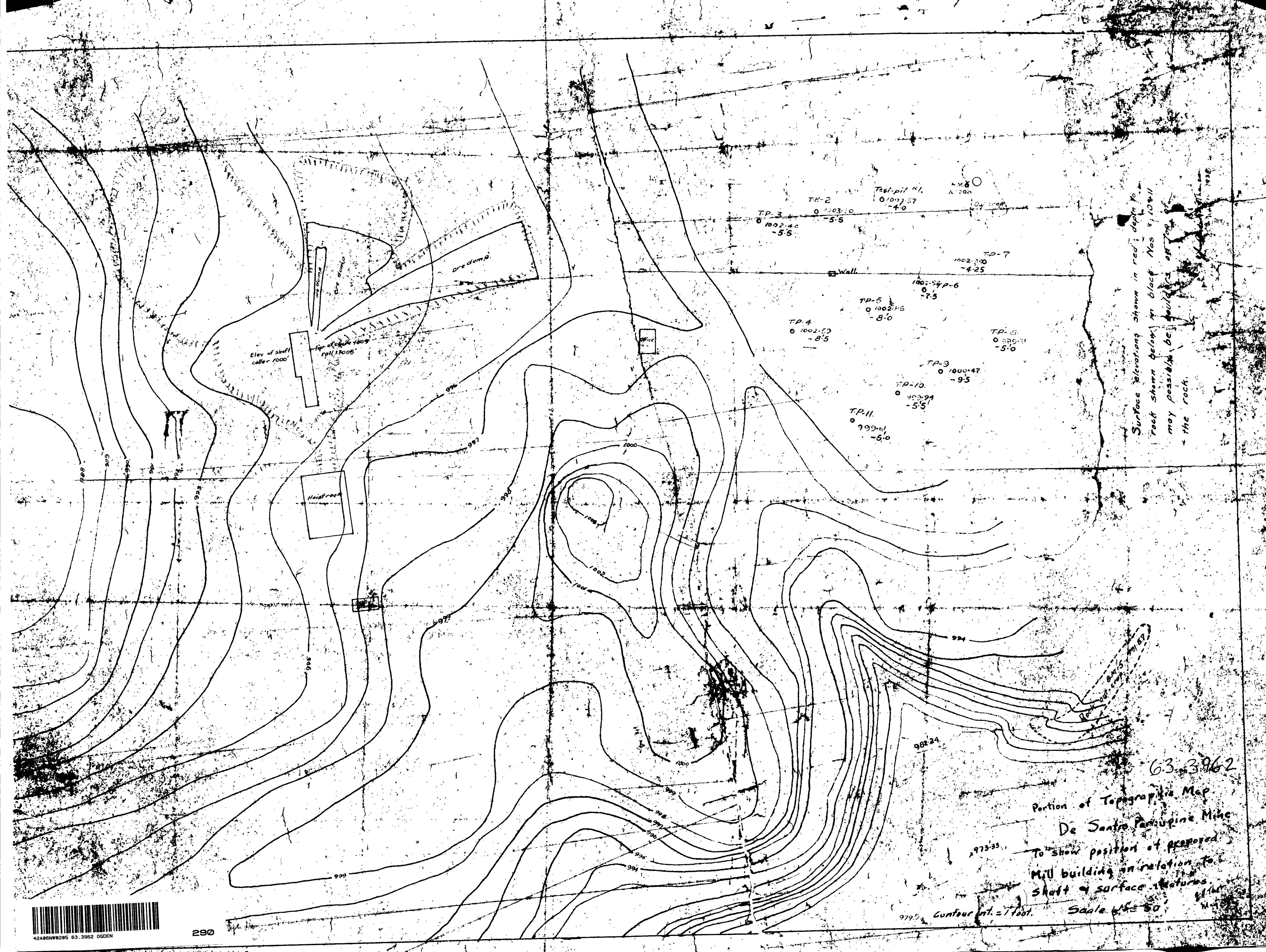
633962

R.J. BRADSHAW APRIL, 1981

FIGURE 7







Surface elevations shown in red; depth to rock shown below in black. Nos 3, 10 & 11 may possibly belong on top of the rock.

63-3962

Portion of Topographic Map

De Sante Parcypine Mine  
To show position of proposed  
mill building in relation to  
shaft or surface features.

9795 Contour Int. = 7 foot. Scale 1 mile = 30 miles