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3/88

REPORT ON  
1986 PROSPECTING, TRENCHING, SAMPLING  
SURVEYING, LINE CUTTING, GEOPHYSICAL  
SURVEYING, GEOLOGICAL MAPPING AND  
PERCUSSION DRILLING

ON THE

DON 1, DON 2, DON 3, DON 4,  
JUL 2, MEY 1  
MINERAL CLAIMS

AND ON THE

PESO, APRIL FR., MY 1,  
DE 2, DE 3, MEY 2, MAR 1  
MINERAL CLAIMS

FOR

MANDUSA RESOURCES LTD.

SPANISH MOUNTAIN AREA  
BRITISH COLUMBIA  
CARIBOO MINING DIVISION

15,880

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

FILMED

NTS: 93 A/11W  
LAT: 52°35.6'N  
LONG: 121°26.6'W

R.J. NICHOLSON, B.A.Sc., P.Eng.  
February 27, 1987

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## SUMMARY

Mandusa Resources Ltd. optioned 111 claim units and claims in the Spanish Mountain - Spanish Creek area of the Cariboo in June 1986, and carried out a field exploration program on the property from July to mid October.

Work carried out by the owner on contract to Mandusa consisted of prospecting, trenching, sampling, chain and compass surveying, and drill site preparation. Mandusa carried out surveying, examination, sampling, geological mapping and supervision of the program, and contracted out picket line cutting, Induced Polarization survey, and percussion drilling.

## CONCLUSIONS AND RECOMMENDATIONS

1. Geological mapping identified two gold mineralized geological environments. One environment, aided in identification by the I.P. survey, is dominated by a broad graphitic shear zone extending westerly from Spanish Lake. The other environment appears to be a stratigraphic succession of sediments and volcanic derived sediments into which gold bearing quartz veins have intruded fractures and/or local shears, and generally have produced alteration haloes.
2. Drilling of the large shear zone in the Don claims area indicates ubiquitous anomalous gold values within at least a 100 x 300 m area of the shear. Five holes drilled in this area, with a total footage of 1020 feet (310.9 m) sampled, indicate: 865 feet (263.6 m) with an average grade of 0.008oz Au/Ton; or, 230 feet (70.1 m) with an average grade of 0.015 oz Au/Ton. The best assay returns indicate a grade of 0.033 oz Au and 0.7 oz Ag/Ton in one five-foot length within a 75-foot intersection that averages 0.015 oz Au and 0.109 oz Ag/Ton.
3. Percussion drilling on the Peso claim identified one area, the "Green" Pit area, to host encouraging gold intersections. An apparent horizontal structure, related to shearing and/or fracturing within nodular phyllite, extends for at least 40 m at a depth of about 10 m below surface. Of the three holes drilled in this area: one hole intersected 10 feet (3.05 m) with an average grade of 0.206 oz Au and 0.122 oz Ag/Ton; another hole intersected 10 feet (3.05 m) with an average grade of 0.024 oz Au and 0.061 oz Ag/Ton, plus 5 feet (1.52 m) with a grade of 0.079 oz Au and

0.058 oz Ag/Ton; and the third hole intersected 5 feet (1.52 m) of 0.071 oz Au and 0.015 oz Ag/Ton, 10 feet (3.05 m) of 0.532 oz Au and 0.267 oz Ag/Ton, 10 feet of 0.049 oz Au and 0.031 oz Ag/Ton, and 20 feet (6.1 m) of 0.032 oz Au and 0.025 oz Ag/Ton.

4. The percussion drilling method used did not reflect gold values previously obtained in surface sampling, nor did it support the expectation related to the presence of visible gold and mineralization in outcrop. The percussion drill technique and sample collection method are highly suspect in being able to provide representative samples, at least in the Don claim environment.

It is recommended that the Don claim area be investigated further, mainly to establish a credible gold content through large diameter drilling and bulk sampling, with great care given to collection method and sampling technique. Thorough stripping, trenching, sampling, and evaluation should be done prior to drilling, within a 150 m x 500 m area encompassing drill holes PH86-1, PH86-2 and PH86-5.

It is recommended that stripping and trenching be carried out in the "Green" Pit area to aid better geological evaluation. Further drilling should be also carried out, initially with vertical holes using more refined drilling and sampling techniques, to define the extent of gold mineralization. Stripping and trenching should also be directed to the north-northeasterly and opposite extensions of alteration and potential gold mineralization of the "Blonde" and "Hi-Grade" showings prior to further drilling on Peso claim.

Consideration should also be given to intensifying prospecting and examination of many parts of the property, still relatively untouched; with view to test for the presence of a Frasergold type deposit. and to test extensions on Peso claim of CPW claim mineralization. Eureka Resources Inc., recently employed a large-diameter reverse circulation drill, and large diameter (4-inch core) diamond drill to help overcome a sampling problem on their Frasergold property, apparently located in a similar geological environment to the Spanish Mountain property. Possible reserves at Frasergold are reported in "Canadian Penny Mines Analyst" (January 15, 1987), to be 3.5 million tons grading 0.2 oz/ton gold. A 1985 Mt. Calvery Exploration Ltd. exploration report contains an estimate of a probable reserve of nearly 400,000 tons grading 0.1 oz/ton gold on CPW claim, with zone open on strike to the southwest.

## INTRODUCTION

Under an option agreement with Diana V. Mickle and Robert E. Mickle of Likely, B.C., Mandusa Resources Ltd. carried out in 1986 an exploration program to assess gold bearing occurrences in the Spanish Mountain area near Likely, B.C.

### Property:

The thirteen optioned mineral claims and one fractional claim are all within Cariboo Mining Division, and are listed as follow:

<u>Claim</u>	<u>Record No.</u>	<u>No. of Units and Claims</u>	<u>Registered Owner</u>	<u>Expiry Date</u>
Peso	487	9 units	Diana V. Mickle	Sept.21/88
Don 1	1383	2-post claim	Diana V. Mickle	Dec. 24/87
Don 2	1384	2-post claim	Diana V. Mickle	Dec. 24/87
Don 3	1385	2-post claim	Diana V. Mickle	Dec. 24/87
Don 4	1386	2-post claim	Diana V. Mickle	Dec. 24/87
Jul 2	1853	9 units	Diana V. Mickle	Aug. 8/88
Mar 1	4716	15 units	Diana V. Mickle	Mar. 21/87
April Fr.	4771		Diana V. Mickle	Apr. 22/87
My 1	4861	2 units	Diana V. Mickle	May 30/87
De 2	5625	10 units	Diana V. Mickle	Dec. 14/87
De 3	5626	16 units	Diana V. Mickle	Dec. 14/87
Mey 1	7656	20 units	Diana V. Mickle	May 8/87
Mey 2	7657	20 units	Diana V. Mickle	May 8/87

Total: Four 2-post claims, 1 fractional claim, and 101 units.

Two fractional mineral claims staked in 1986 to become part of the option agreement are as follows:

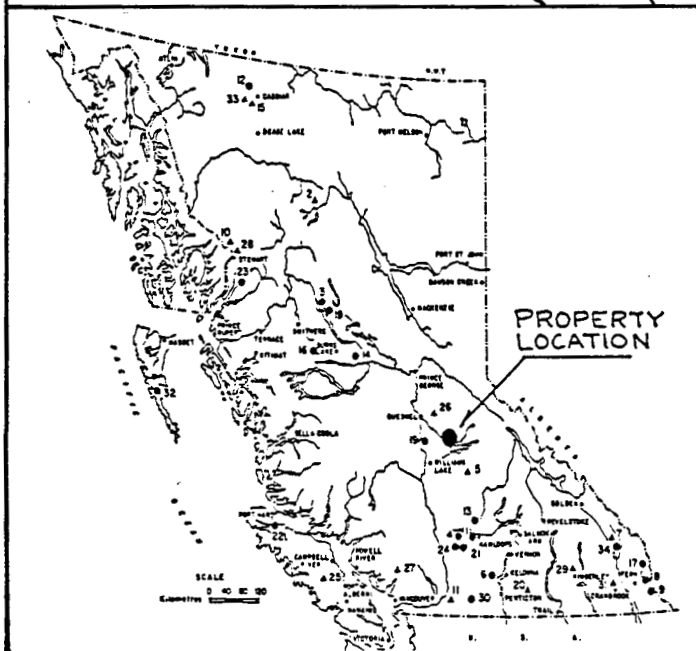
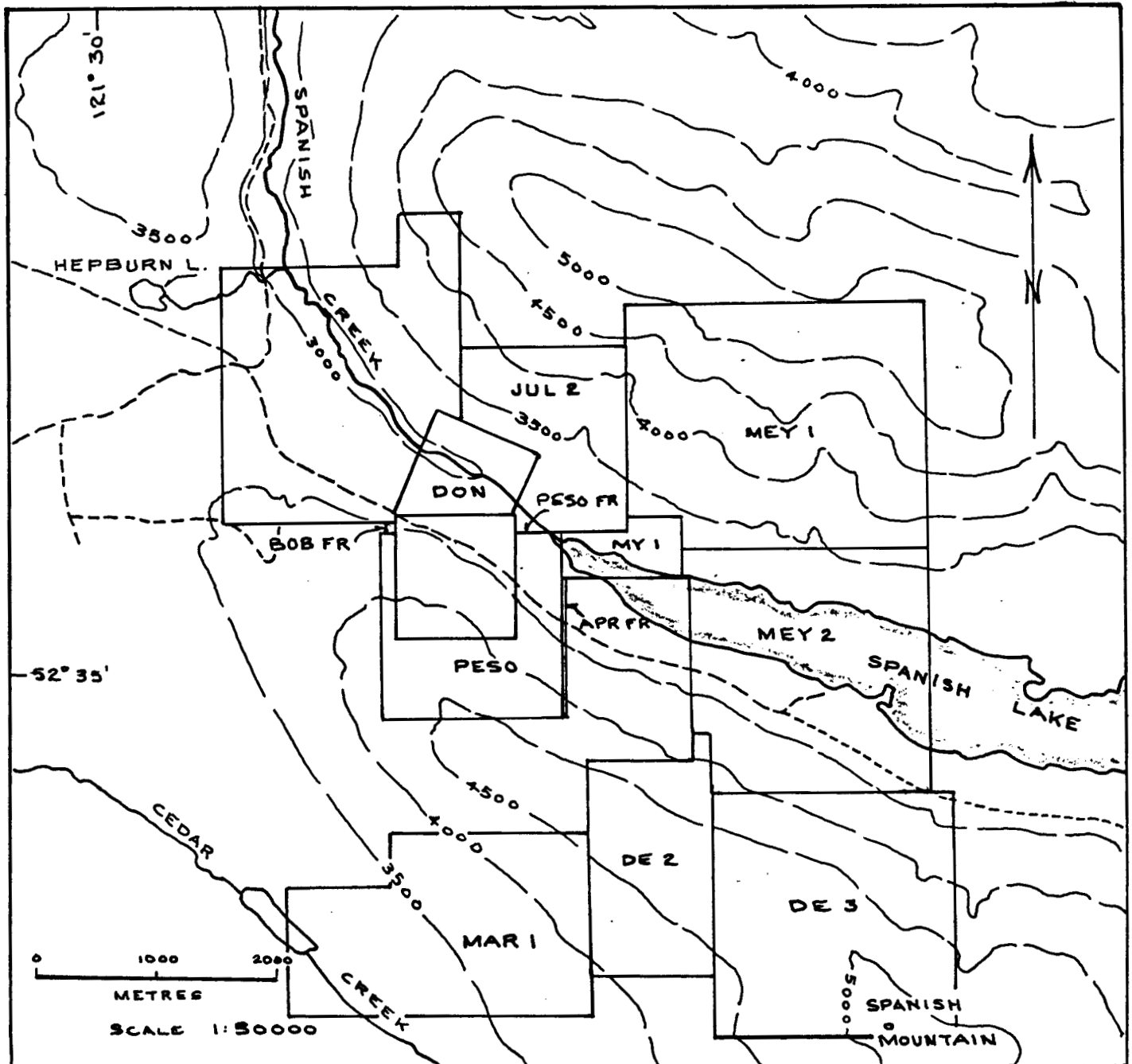
<u>Claim</u>	<u>Record No.</u>	<u>Registered Owner</u>	<u>Expiry Date</u>
Bob Fr.	8061	Mandusa Resources	Oct. 7/87
Peso Fr.	8062	Mandusa Resources	Oct. 7/87

Note: Lot 12083, near the outlet of Spanish Lake, lies within Peso claim.

### Location and Access:

NTS 93 A/11W

The Spanish Mountain property is centred on the outlet of Spanish Lake, at 52° 35.6' North and 121° 26.6' West, extending north-south from the crest of Black Bear Mountain to the crest of Spanish Mountain, and from western Spanish Lake to the turning northward of Spanish Creek. The topography is moderate, with elevations ranging from 920 m at Spanish Lake to about 1500 m on both mountains. Natural



MANDUSA RESOURCES LTD.

PROPERTY LOCATION  
AND CLAIM MAP

SPANISH MTN. PROPERTY

CARIBOO MINING DIVISION

93 A II

To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

outcroppings of rock are rare; overburden is relatively thin but effective, and forest cover is dense except where logged. The recent logging has provided better local access.

Access to the property is from the village of Likely, situated at the outlet of Quesnel Lake. Paving of the highway northerly from 150 Mile House to Likely was finally completed in 1986. The best access from Likely to the property is via the all-weather Spanish Lake haul road that passes Hepburn Lake near the air strip, about 6.5 km from Likely. Access within the property boundaries is provided by logging and rough bush roads.

The property engulfs CPW mineral claim (the older Mariner II Property), owned by C.P. Wallster and subsequently optioned to Pundata. A 1985 exploration report on the "CPW Gold Prospect" by Mt. Calvary Resources Ltd. states that "To date, drilling and trenching results indicate the Madre Zone to have a probable reserve of nearly 400,000 tons grading 0.1 oz/Ton gold, with the zone open on strike to the southwest and to depth. The ultimate potential reserve of the Madre Zone to a depth of 70 m and over a strike length of 350 m is believed to be in excess of 1 million tons grading 0.1 oz/Ton gold"; and that "Gold mineralization on strike with the Madre Zone has been observed on the Peso ground, a distance of 50 metres from the claim boundary, with the favourable shale and shaly siltstone units exposed for over 250 m south of the claim boundary."

#### History:

Interest in gold in the area dates from the earliest mining activity in British Columbia. Prospecting and exploration activity for lode deposits on the north slope of Spanish Mountain dates to at least 1933. Work on the subject property has only more recently been undertaken as follows:

- 1979 - Aquarius Resources. Although Peso claim was part of the property, a geochemical survey was carried out on Peso B mineral claim only.
- 1981 - Aquarius Resources. A very limited geochemical survey was carried out on Peso claim. An airborne electromagnetic and magnetic survey was flown to cover Peso, Peso B and Peso E mineral claims.

- 1981/82 - Norsemont Mining Corp. and R.E. Mickle carried out prospecting, stripping by bulldozer, and excavating backhoe trenches on the Don claim.
- 1983 - Lacana Mining Corporation on behalf of Canadian Minerals joint Venture, carried out line cutting; soil sampling primarily on Don, Jul 2, March 1 and lower Peso claims; rock sampling on Don claim showings; VLF survey on and adjacent to Don claims; geological mapping on the gridded area; road construction for backhoe access; and excavation of trenches and test pits by backhoe and by hand.
- 1984/85 - Hycroft Resources and Development Ltd. after initiating a contracted property examination report, carried out a soil sampling program and trenching on Peso claim.
- 1985 - Mt. Calvery Resources Ltd. acquired the property from Hycroft and carried out a diamond drilling program on Peso claim. Because of a dispute between Hycroft and Mt. Calvery, Hycroft logged the core in early 1986 in order to apply assessment credit.
- The 1986 diamond drilling report written for Hycroft Resources and Development Ltd. recorded an assay of 0.158 oz/Ton gold over 3.0 m near the bottom of Hole 85-MD-13.
- 1986 - Mandusa Resources Ltd. Following two examinations made by Dr. P.H. Sevensma, the property was optioned by Mandusa on June 21, and an exploration program was initiated in July. Ten random samples averaging 0.65 kg weight, taken in the examinations from several trenches located on three well-separated claims, returned assays as follows: 0.316, 0.810, 0.419, 0.670, 0.456, 2.580, 0.001, 0.003, and 0.840 oz Au/Ton.

#### 1986 WORK PROGRAM

Work was carried out by Robert E. Mickle and by Mandusa Resources Ltd. Work by Mickle was done mostly under contract to Mandusa, and consisted of trenching, pitting, bridge construction, road and drill site access, trench sampling, chain and clinometer surveying, prospecting, and guidance. Work carried out by Mandusa consisted of surveying, geological mapping, trench sampling, line cutting, geophysical surveying, and drilling with related sampling.



### Surveying:

A transit stadia survey was carried out by the writer, to resolve a problem of spatial relationships of claim boundaries, older trenches, various meanderings of access roads, and geological observation. Previous picketed lines are essentially non-existent, and significant elevation differences in a relatively densely forested area created difficulty in areal relationship. The survey ties in to the already surveyed western corners of CPW claim, and provided a network to relate some trenches, roads, legal corner posts, topographic features, a new picketed grid, drill holes and subsidiary chain-clinometer surveys. All data were reduced to coordinates, and computer programmed to provide control for maps on chosen scales.

### Line Cutting:

An old line was re-established as an 800 m base line with bearing of  $285^\circ$ , about 100 m south of Spanish Creek on Don claims. Picket lines at 100 m interval were cut from Spanish Creek to Spanish Creek road.

A second grid was established on Peso claim, with baseline along the southern boundary of CPW mineral claim, and six picket lines cut north-south at 100 m interval from CPW claim to the southern Peso boundary; plus two north-south lines on the eastern portion of the claim.

Under contract to Bill Chase, all lines were cut with power saw and picketed at 25 meter interval. A total of 5,500 meters were cut on Don claims, and 6,500 meters were cut on Peso claim.

### Geophysics:

An Induced Polarization survey was carried out over portions of Don claims and Peso claim, under contract to Alan Scott. A total of 7.675 line-kilometers were surveyed: 4.075 km on Don claims, and 3.6 km on Peso claim.

### Geological Mapping:

Geological mapping was carried out by the writer on a portion of the Don claim area, and on most of Peso claim area where bedrock is exposed. A section on "Geology" follows.

### Drilling:

Fifteen percussion holes were drilled: six on Don 2 and Don 3 claims, and nine on Peso claim. Two holes on Peso claim were drilled vertically; all the rest were

inclined at 45°. Samples were collected mostly in five-foot increments; dry if possible, and wet below the water table. Drilling totalled 2733 feet; 1170 feet on Don claims, and 1563 feet on Peso claim.

The drilling was contracted to Tonto Drilling B.C. Ltd. A self-propelled Nodwell Carrier-mounted percussion drill was provided, that drilled 1½" diameter holes.

A discussion of results is included under "Geology", following.

#### Sampling:

Rock samples were taken for comparison of prior sampling evidence, but primarily to test values in new trenches. Soil samples were also collected to corroborate and expand prior evidence.

321 rock chip samples from trenches, and 198 soil samples from traversed lines in areas of interest were collected and analyzed. In addition, five drill core samples from 1985 drilling on Peso claim, and 502 percussion drill samples were analyzed.

Initially in 1986, 264 rock chip samples analyzed by Acme Analytical Laboratories Ltd. in Vancouver, were tested by 16-element ICP and later 30-element ICP method including gold and silver. Checks on 27 pulps from these samples indicating significant metal content were done by fire assay. An initial 131 soil samples were also analyzed by Acme using the ICP technique for gold and silver. The five drill core samples were fire assayed.

Min-En Laboratories Ltd. in Vancouver, from mid August analyzed a further 67 soil samples by Atomic-Absorption method, of which 21 samples were tested by fire assay. All 502 percussion drill samples were analyzed by Min-En Atomic Absorption and fire assay.

Percussion drill samples were split 50/50, and collected in polyethylene "Glad" bags lining a metal dust bin. Dry samples were split with a Jones riffle splitter; wet samples were split equally by a Tee, with flocculant added to the sample before decanting. All "Glad" bag samples were further enclosed in standard polyethelene sample bags. Half of each sample was submitted to Min-En Laboratories; and the other half was submitted to the property owner, under the terms of the option agreement, for storage in Likely.

## GEOLOGY

### Regional Geology:

The property lies within an area underlain by Upper Triassic and/or Lower Jurassic rocks of the Quesnel Trough, close to the southwestern boundary of the Omineca Crystalline Belt, about 75 km northeast of Pinchi Fault. G.S.C. Open File 920 indicates a poorly exposed sequence of clastics and volcanics in the vicinity of the property, overlying and in part thrust over the undifferentiated Paleozoic (?) Snowshoe Group and the Permian Slide Mountain Group. The property appears to be situated in a similar geological environment as the Frasergold property about 70 km to the southeast, also within the eastern Quesnel Trough. Drill indicated, semi-conformable stratabound gold reserves at Frasergold are recently reported to be 3.5 million tons grading 0.2 oz/ton gold. ("Canadian Penny Mines Analyst", January 15, 1987)

As defined, the Upper Triassic unit at Spanish Lake is undifferentiated and consists of black shale slate and argillite, micritic limestone and limy sandstone; and is probably overlain by Upper Triassic/Lower Jurassic black shale and argillite, andesite derived greywacke, andesite and basalt.

### Local Geology:

#### Don Claims

The area is characterized by a graphitic shear zone that occupies the low land of Spanish Creek. The shear has the same bearing as Spanish Lake, about N65° W, and is at least 500 m wide. The resistivity contour plan of the IP survey appears to define the southern boundary of the zone, as well as to indicate "horses" within the shear.

Evidence of unsheared rock in the Spanish Creek valley exists in two locations: on the "upper access road" to Don claims, about 400 m from its intersection with Spanish Lake road; and at the "lower access road" turnoff near where drainage from Hepburn Lakes crosses the road to the garbage dump. The sediments on the upper access road dip gently to the southwest; the substantial outcrop on the lower access road consists of thinly laminated fissile shales, dipping 25° to the northwest.

Schists within the shear zone have essentially the same strike as the shear, with dips 60° SW to vertical. Quartz veins in the shear strike northerly to northeasterly across the shear, with westerly dips from 45° to vertical.

One occurrence was observed of thrust faulting within the shear, having an attitude of N 10° E/25°W. One occurrence was observed of drag folding within the shear. Quartz veining accompanies both occurrences.

#### Peso Claim

The claim covers a relatively undisturbed succession of recessive dark clastics and minor volcanics, interlayered with more-resistant nodular phyllite. A northwesterly trending shear zone transects the claim, with the undisturbed succession occupying most of the claim to the south, and a smaller disturbed succession more closely allied with rock types on CPW claim to the north.

Notes on interpretation of the relatively few exposures, all created by man, are as follows:

1. Thinly laminated bedding is present in at least two argillitic exposures, both exhibiting a north-northeasterly bearing and dip of 45° to 50° East.
2. Although not in place but definitely near source, a specimen of cross-bedded clastics implies fluvial origin.
3. Nodular phyllite predominates, and is of unknown origin. Abundant clasts forming nodules to 6mm in size are considered to be ankerite. If the phyllite can be presumed to have an attitude conformable with the bedded argillite, then the phyllite correlates approximately with a sheared outcrop of phyllite at the outlet of Spanish Lake.
4. Quartz veins appear to be associated with nodular phyllite on Peso claim, because of a presumed relatively brittle nature of the phyllite.

The quartz veins within the phyllite generally strike north-northeast to northeast, and dip moderately to steeply to the northwest. Quartz veins in the central part of the claim, specifically in the "Green Pit" area and toward the shear zone, exhibit various strikes and dips from vertical to flat lying.

5. A few light-coloured layers appear to be conformable within the black shales and schists of the northeastern portion of the claim. The lighter layers are considered to be volcanic in origin, and are designated as an "ash fall tuff". The shear zone separates phyllite from shales. The Induced Polarization survey indicates the schists and shales to have much lower resistivity than the phyllite.

The black shale, - ash fall tuff sequence appears more closely related to CPW claim environment. The shales and tuff layers on Peso claim strike northeasterly and dip 25° E.

#### Mineralization:

##### Don Claims

It is proposed that by preservation of the valley floor through stagnant glaciation, a deeply weathered bedrock remains. It appears that the weathered portion of the graphitic schist at one time contained a significant proportion of disseminated auriferous pyrite, which now contains minute gold remnant particles in voids.

Quartz veining in the schist is relatively common and occurs mainly as steeply dipping veinlets at right angles to the axial plane of the shear. Veins or veinlets are mostly less than 6" wide, have lengths at least up to 50 feet, and occur to some extent in swarms. Quartz veins also occupy other low pressure areas, related to singly known instances of drag folding and thrust faulting. Some quartz veins parallel the schistosity, and might be related to pressure shadows of "horses" within the shear.

Quartz veins perpendicular to the shear occasionally carry varying minor amounts of pyrite, chalcopyrite, galena and bournonite (?), in addition to gold.

Narrow zones of "aerobar" formations also lie perpendicular to the shear plane. "Aerobar" is a local appellation for a porous shaly rock that at one time possibly contained a significant proportion of disseminated pyrite.

Gold appear to be ubiquitous within the shear; with better values occurring within sulphide or sulpho-salt mineralized quartz veins, narrow quartz veins carrying pyrite and within "Aerobar" structures.

Representative sampling has been a problem. Fine gold can be identified by panning of broken material in many trenched areas. Gold can be identified in some quartz voids previously occupied by pyrite, and occasionally can be seen as very thin flakes still surrounding - perhaps as exsolution products - a long-gone pyrite crystal. Attractive assay returns from a freshly exposed trench face are reported always to be better than later check samples. Most schist exposures, because of an extremely friable nature, do not lend to accurate sampling. And, the percussion drilling method used in 1986 is suspected to have either floated off a significant amount of fine gold not collected in the sampling process, or to have enlarged the drill hole sufficiently to omit lifting gold with the cuttings.

### Peso Claim

Bed rock in the area is relatively fresh. Glacial scour and thin till on bedrock provide evidence of recent glaciation.

The quartz veins are commonly enveloped in buff or blonde alteration haloes, with the extent of alteration seemingly disproportionately large relative to the quartz vein. The alteration appears to be a product of silicification, having destroyed most pre-existing texture, and having a very similar appearance to ash fall tuff. Commonly, large pyrite porphyroblasts to 10 mm are associated with alteration envelopes within the shear zone.

As well as visible gold, trenching in the "Green Pit" area divulged the presence of mariposite alteration, pyrite, chalcopyrite and galena. The "Blonde Trench" area exhibited gold, galena and chalcopyrite in vein material at surface.

### Drilling Results:

The original plan for drilling included testing with either diamond drill, or with a reverse circulation drill. For several reasons, the testing had to be done with a percussion drill, which is considered an inferior tool.

Drill holes were planned to have a maximum length of 200 feet. Samples were collected in 5-foot intervals throughout the length of each hole, and a one-half split of all cuttings were provided as duplicate samples to the property owner. The primary samples all were analyzed by Min-En Laboratories in North Vancouver.

Because of the drilling method applied and nature of the sample, examination of cuttings to determine rock types was virtually impossible.

### Don Claims

Six inclined holes were drilled, totalling 356.6 m (1170 ft). The drill sites were located to test better-known mineralization in areas of reasonable access. Holes were spotted to intersect the cross-cutting mineralized quartz veins and other mineralization of the shear zone.

The results of the first drill hole, PH86-1, are considered not reliable due to significant difficulties experienced in both drilling and sampling.

The other five drill holes, PH86-1 to PH86-6, were drilled in an area of about 100 x 300 m oriented lengthwise within the shear, somewhat separate from PH86-1 area. The best assay from the five holes indicates a grade of 0.033 oz Au/Ton in one five-foot length. A total of 865 feet (263.6 m) of samples from 1020 feet (310.9 m) drilled in five holes average 0.008 oz Au/Ton; a total of 230 feet (70.1 m) of samples from the same holes average 0.0147 oz Au/Ton.

One of the five holes, PH86-3, drilled to test quartz veining and associated sulphides of the "Bournonite" zone, cut one 5-foot length of 0.033 oz Au/Ton and 0.7 Ag/Ton within a 75-foot intersection that averages 0.015 oz Au/Ton and 0.109 oz Ag/Ton.

### Peso Claim

Nine holes were drilled, seven inclined and two vertical, totalling 476.4 m (1563 ft). Four areas were drilled: three areas in phyllite environment, and one area in the shear zone.

Three areas within phyllite were drilled as follows:

#### 1. "Hi-Grade" Pit

Two holes, PH86-7 inclined and PH86-8 vertical, were drilled to test down the dip of a quartz vein that had been exposed by trenching. The vein strikes northeasterly and dips moderately to the northwest. Considerable bleached alteration is present at surface and can be traced for 100 m. Surface sampling in the trench indicated grades of up to 2.5 oz Au/Ton. The best grade indicated in drilling is 0.004 oz Au/Ton in 5 feet (1.52 m).

#### 2. "Green" Pit Area

Initial trenching exposed an area of gently dipping quartz veins within a mariposite-rich alteration zone. Further trenching exposed a horizontal vein mineralized with visible gold, minor pyrite and some chalcopyrite. Subsequent trenching exposed steeply to gently dipping veins, shearing, and bedded argillite; and as reported by the owner, also removed the high-grade gold vein.

Three holes were drilled; one vertical and two inclined. An apparently east-west linear mineralized zone about 40 m long was intersected at about 10 m depth, with significant grades in all three holes. Grades and intersections are tabulated as follows:

<u>Hole No.</u>	<u>Intersected Length ft(m)</u>	<u>Vertical Depth (m)</u>	<u>Grade</u>	
			<u>oz Au/T</u>	<u>oz Ag/T</u>
PH86-9(-90°)	10 (3.05)	7.6 to 10.7	0.206	0.122
PH86-10(-48°)	10 (3.05)	9.1 to 11.3	0.024	0.061
	5 (1.52)	11.3 to 12.4	0.079	0.058
PH86-11(-45°)	5 (1.52)	4.3 to 5.4	0.071	0.015
	10 (3.05)	7.5 to 9.6	0.532	0.267
	10 (3.05)	9.6 to 11.8	0.049	0.031
	20 (6.10)	12.9 to 17.2	0.032	0.025

### 3. "Blonde" Trench Area

One inclined hole, PH86-14, was drilled to test under the gold-galena-chalcopyrite mineralized quartz veining exposed in the trench. Considerable bleached alteration appears to surround the vein. The vein strikes north-northeasterly and dips steeply.

No grade of interest was intersected under the surface trace of the vein. However, a 10 foot (3.05 m) length indicating 0.021 oz/Ton was intersected at the drill collar, in an area of overburden.

The area within the shear zone was tested by two drill holes as follows:

#### 1. Cabin zone

One inclined drill hole, PH86-12 to test reported interesting assay values in graphitic schist, and also to test for an extension at depth of an old working beside the cabin, intersected five feet of 0.120 oz Au and 0.137 oz Ag/Ton. The intersection essentially confirmed the extension of the old working, and indicates that mineralization within the shear zone lies at an acute angle to the axis of the shear.

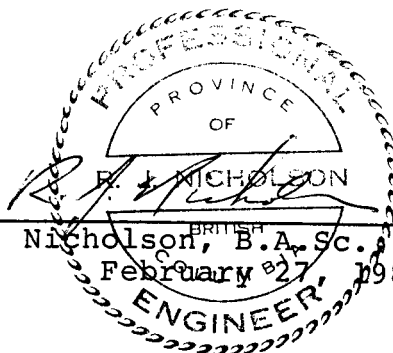
#### 2. Lower Landing

Two inclined drill holes, PH86-13 and PH86-13A together provided a 200-foot test of quartz mineralized shear zone. No gold values of interest were intersected.



ESTIMATED COST OF RECOMMENDED EXPLORATION PROGRAM

Stripping, Drill Access, and Reclamation	
Bulldozer - 15 days @ \$700/day	\$10,000
Trenching and Bulk Sampling	
Backhoe - 10 days @ \$400/day	4,000
Diamond Drilling, BQ and/or NQ core, and/or Reverse Circulation Drill	50,000
Geological Support	8,000
Assaying and Bulk Sample Treatment	12,000
Transportation	2,000
Living Costs	3,000
Equipment and Supplies	1,000
Engineering, Supervision, and Report	10,000
	<hr/>
Total	\$100,000
	<hr/> <hr/>


  
 R.J. Nicholson, B.A., Sc., P.Eng.

APPENDIX A  
COST STATEMENT

STATEMENT OF COSTS

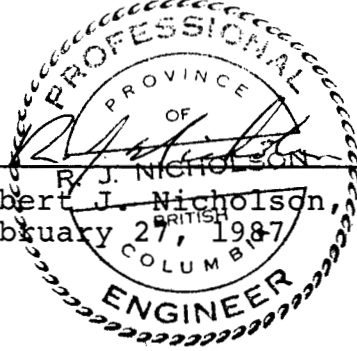
	<u>PESO GROUP</u>	<u>DON GROUP</u>
FIELD PERSONNEL		
J.R. Bulger 38 days @ \$100.00	\$ 1900.00	\$ 1900.00
A. Chilian 9 days @ \$110.00	660.00	330.00
R. Toupin 2 days @ \$100.00		200.00
CONSULTANTS		
R.U. Bruaset - Geological research	252.44	252.44
R.J. Nicholson - Supervision, geology, sampling, survey	7500.00	7500.00
- Report	5000.00	5000.00
CONTRACTORS		
R.E. Mickle - Contract trenching, sampling, access roads, prospecting checks, chain and clinometer survey, site preparation, core storage	4459.50	17698.40
W. Chase - Line Cutting (12 km)	1625.00	1375.00
A. Scott - Induced Polarization Survey (7.675 km)	3657.00	4139.53
Tonto Drilling - Percussion Drilling Peso - 1563 feet, Don -1170 feet	14916.45	10660.00
MacBurney Logging - Bulldozer	1190.00	
FOOD AND ACCOMMODATION	2764.95	2837.76
VEHICLE RENTAL AND COSTS	1984.05	1984.06
EQUIPMENT AND SUPPLIES	1015.42	1015.41
LABORATORY ANALYSES		
Acme Analytical Laboratories Ltd.	2596.19	4687.60
Min-En Laboratories Ltd.	5379.13	5686.95
TOTALS	<u>\$54900.13</u>	<u>\$65267.15</u>

APPENDIX B  
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATION

I am a consulting geological engineer residing at 1021 Beaumont Drive, North Vancouver, British Columbia, and do hereby certify:

1. I am a graduate of The University of British Columbia (1953) in Geological Engineering and hold a Bachelor of Applied Science degree.
2. I am a registered member, in good standing, of The Association of Professional Engineers of the Province of British Columbia, and also of the Association of Professional Engineers of the Province of Ontario.
3. Since graduation, I have worked continuously as a mine geologist, exploration geologist or geological engineer, in all parts of Canada.
4. I supervised the field program on the Spanish Mountain property, and carried out geological mapping, surveying, and sampling.
5. I have no direct or indirect interest in the property herein described, or in any securities of Mandusa Resources Ltd., nor do I expect to receive any.
6. This report may be utilized by Mandusa Resources Ltd. for inclusion in a Prospectus or Statement of Material Facts.

A circular seal for the Province of British Columbia Professional Engineers. The outer ring contains the text "PROFESSIONAL ENGINEER" at the top and "PROVINCE OF BRITISH COLUMBIA" at the bottom. In the center, there is a signature and the name "R. J. NICHOLSON".  
\_\_\_\_\_  
Robert J. Nicholson, B.A.Sc., P. Eng.  
February 27, 1987

APPENDIX C  
LOGISTICAL REPORT  
INDUCED POLARIZATION SURVEY

LOGISTICAL REPORT  
INDUCED POLARIZATION SURVEY

SPANISH MOUNTAIN

DON AND PESO CLAIMS

LIKELY AREA, B.C.

on behalf of

MANDUSA RESOURCES LIMITED  
1003 - 409 Granville Street  
Vancouver, B.C. V6C 1T2

contact: Mr. Pieter Sevensma  
(604) 681 4812

Field work completed: September 5 to 11, 1986

by

Alan Scott, Geophysicist  
4013 West 14th Avenue  
Vancouver, B.C. V6R 2X3  
(604) 228 0237

September 11, 1986

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2 Survey Location	1
3 Survey Grid and Survey Coverage	1
4 Personnel	2
5 Instrumentation	2
6 Discussion of Results	3

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Spectral Analysis Data Summaries - Don Claims:	4
Spectral Analysis Data Summaries - Peso Claims:	5
Chargeability/Apparent Resistivity Pseudosections - Don Claims:	6
Chargeability/Apparent Resistivity Pseudosections - Peso Claims:	7
Chargeability, Resistivity Contour Plans, SP Gradient (n=1) - Don:	8
Chargeability, Resistivity Contour Plans, SP Gradient (n=1) - Peso:	9
Two (2) floppy discs containing all survey data: CAUTION: do not expose to strong magnetic fields	10
IPR11 receiver field notes and raw data dumps - Don Claims:	11
IPR11 receiver field notes and raw data dumps - Peso Claims:	12



## 1. INTRODUCTION

Induced polarization and resistivity surveys were conducted over portions of the Spanish Mountain Property, Likely Area, B.C. on behalf of Mandusa Resources Limited, in the period September 5 to 11, 1986. The work was performed by Alan Scott, Geophysicist.

The pole dipole electrode array at an "a" spacing of 25 meters, and "n" separations of 1, 2, 3, 4, and 5, was used on the induced polarization survey. The current electrode was to the north of the receiving electrodes on all survey lines.

## 2. SURVEY LOCATION

The Spanish Mountain Property is located some 10 kilometers east of Likely, B.C. Access is via the Spanish Lake road from Likely.

## 3. SURVEY GRID AND SURVEY COVERAGE

The survey was conducted over two separate claim blocks, the Don Claims and the Peso Claims. 4.075 line kilometers on 8 lines were surveyed on the Don Claims and 3.6 line kilometers were surveyed on 6 lines on the Peso Claims. Details of survey coverage are given in the previously submitted production reports.

#### 4. PERSONNEL

Alan Scott operated the IPR-11 receiver. Dave Carr, Ken Moir, Steve Davies and Spencer Robinson made up the survey crew.

Bob Nicholson<sup>was</sup> the project geologist on site on behalf of Mandusa.

#### 5. INSTRUMENTATION

A Scintrex IPR-11 time domain microprocessor based induced polarization receiver and a Scintrex IPC-7 2.5 kw transmitter were used on the survey. The IPR-11 operates on an alternating square wave transmitted current pulse train, and samples the decay curve at ten semilogarithmically spaced times after cessation of each pulse. A 2 second on/2 second off pulse was used on the survey. The data is continually averaged until the operator is satisfied convergence has occurred, and is filed into solid state memory. The eighth slice (from 690 to 1050 milliseconds after shutoff; midpoint at 870 milliseconds) is the value that has been plotted on the plans and pseudosections.

The survey data was archived, processed, and plotted using a Corona PPC 400 microcomputer running the Scintrex Soft II software. All decay curves were submitted to spectral analysis by a curve matching procedure.

## 6. RECOMMENDATIONS

A preliminary examination of the IPR11 survey results on the Spanish Mountain Project indicates that the areas of extremely low resistivity (often less than 1 ohm meter), coincident with moderate to strong chargeability and strong SP gradients, located over most of the Don survey area and in the northeast corner of the Peso survey area, are mapping the extent of graphitic shear zones.

Within these very low resistivity areas it was often not possible to obtain accurate chargeability values at the further separations. In those cases where resistivity measurements could be made, but where the chargeability values were too erratic, the chargeability values have been edited to read ".0" on the data listings and pseudosections.

A detailed interpretation of these results, and correlation to the geological and geochemical data bases, is recommended.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read "Alan Scott", written in a cursive style.

Alan Scott,  
Geophysicist

APPENDIX D  
GEOCHEMICAL CERTIFICATES AND ANALYSES

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

## ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU: 10 GRAM REGULAR ASSAY

DATE RECEIVED: JUNE 16 1986 DATE, REPORT MAILED: *June 19/86* ASSAYER: *D. J. J.* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # B6-1006

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Sample wt GM
77710	.002	.09	.26	.03	1.38	.01	.01	.03	7.14	.03	.002	.01	.010	.040	.010	.316	950
77711	.001	.44	.11	.10	.39	.01	.01	.03	2.67	.01	.002	.01	.010	.010	.010	.810	650
77712	.001	.03	5.39	.23	3.16	.01	.01	.01	1.88	.01	.002	.01	.010	.010	.010	.419	750
77713	.002	.01	.22	.12	.18	.01	.01	.05	8.44	.02	.002	.01	.010	.010	.010	.670	800
77714	.001	.55	.53	.12	13.48	.01	.01	.06	5.56	.02	.002	.01	.010	.010	.010	34.800	700
77716	.001	.01	.07	.03	.09	.01	.01	.08	2.56	.01	.002	.01	.010	.010	.010	.456	950
77717	.001	.01	.16	.02	1.33	.01	.01	.04	2.54	.01	.002	.01	.010	.010	.010	2.580	1050
STD R-1	.086	.89	1.37	2.45	2.96	.03	.02	.07	7.01	.96	.012	.01	.040	.110	.020	-	-

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852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

TELEX 04-53124

## ASSAY CERTIFICATE

SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: JUNE 30 1986 DATE REPORT MAILED:

*July 4/86*ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1213

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Sample WEIGHT gm
515	.001	.01	.52	.04	.34	.01	.01	.03	.68	.01	.002	.01	.010	.010	.010	.063	900
516	.001	.01	.01	.01	.03	.01	.01	.01	.53	.01	.002	.01	.010	.010	.010	.001	970
517	.001	.01	.01	.01	.01	.01	.01	.01	.46	.01	.002	.01	.010	.010	.010	.001	850
518	.001	.13	.01	.01	.14	.02	.01	.03	10.81	.01	.002	.01	.010	.010	.010	.025	1050
536	.001	.01	.01	.01	.02	.01	.01	.01	.77	.01	.002	.01	.010	.010	.010	.001	950
STD R-1	.090	.89	1.37	2.40	2.95	.02	.02	.07	7.02	.87	.005	.01	.040	.060	.030	-	-

## ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.

AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: JULY 2 1986 DATE REPORT MAILED:

July 8/86

ASSAYER

D. J. [Signature]

DEAN TUYE, CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1260

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag UZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	In %	Cd %	Sb %	Bi %	Au UZ/T	Wt GM
519	.003	.03	.04	.11	.10	.01	.01	.10	6.95	.02	.002	.01	.010	.010	.010	.084	6920
520	.004	.01	.04	.04	.05	.01	.01	.09	6.05	.02	.002	.01	.010	.010	.010	.058	7020
521	.001	.01	.01	.02	.03	.01	.01	.10	4.36	.01	.002	.01	.010	.010	.010	.028	6200
522	.001	.01	.01	.01	.01	.01	.01	.11	4.45	.01	.002	.01	.010	.010	.010	.008	5850
523	.001	.01	.01	.01	.02	.01	.01	.09	4.48	.01	.002	.01	.010	.010	.010	.083	7070
524	.001	.01	.01	.01	.01	.01	.01	.10	4.19	.01	.002	.01	.010	.010	.010	.014	4750
525	.001	.01	.01	.01	.03	.01	.01	.10	4.07	.01	.002	.01	.010	.010	.010	.003	5700
526	.002	.01	.01	.01	.02	.01	.01	.10	4.82	.02	.002	.01	.010	.010	.010	.036	8050
527	.001	.01	.01	.01	.01	.01	.01	.11	4.21	.01	.002	.01	.010	.010	.010	.010	7030
528	.001	.01	.01	.01	.01	.01	.01	.11	5.86	.01	.002	.01	.010	.010	.010	.017	6940
529	.002	.01	.01	.02	.01	.01	.01	.13	6.40	.01	.002	.01	.010	.010	.010	.014	7630
530	.002	.01	.01	.03	.04	.01	.01	.10	7.49	.02	.002	.01	.010	.010	.010	.035	5080
531	.001	.01	.01	.02	.02	.01	.01	.09	4.97	.02	.002	.01	.010	.010	.010	.014	6430
532	.001	.01	.01	.02	.02	.01	.01	.11	5.13	.02	.002	.01	.010	.010	.010	.011	6550
533	.002	.01	.01	.03	.01	.01	.01	.13	6.09	.01	.002	.01	.010	.010	.010	.018	6300
534	.001	.01	.01	.01	.13	.01	.01	.06	5.09	.02	.002	.01	.010	.010	.010	.073	7210
535	.001	.01	.01	.03	.03	.01	.01	.16	5.52	.02	.002	.01	.010	.010	.010	.074	7520
537	.004	.01	.01	.03	.05	.01	.01	.12	5.85	.01	.002	.01	.010	.010	.010	.003	2300
538	.004	.01	.01	.05	.04	.01	.01	.18	5.77	.01	.002	.01	.010	.010	.010	.009	3000
539	.003	.01	.01	.03	.02	.01	.01	.09	4.82	.01	.002	.01	.010	.010	.010	.003	3280
STD R-1	.090	.89	1.37	2.39	2.97	.02	.03	.08	7.02	.87	.005	.01	.040	.080	.030	-	-

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### ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.  
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU: 10 GRAM REGULAR ASSAY

DATE RECEIVED: JULY 5 1986

DATE REPORT MAILED:

*July 10/86*

ASSAYER: *D. Toye*

DEAN TOYE, CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1322

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Wt GM
077718	.001	.01	.01	.01	.04	.01	.01	.01	1.73	.01	.002	.01	.010	.010	.010	.001	211
077719	.001	.02	.01	.01	.01	.01	.01	.01	1.77	.01	.002	.01	.010	.010	.010	.003	176
077720	.001	.02	.06	.06	.55	.01	.01	.01	3.56	.02	.002	.01	.010	.010	.010	.840	210
STD R-1	.090	.89	1.37	2.37	2.98	.02	.02	.01	6.90	.86	.006	.01	.040	.070	.030	-	-



## ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO<sub>3</sub>-H<sub>2</sub>O AT 95 DEG. C FOR ONE HOUR.  
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: JULY 9 1986 DATE REPORT MAILED: July 16/86 ASSAYER: D. Toye DEAN TOYE, CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1375

PAGE 1

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Wt GM
BM-1041	.004	.01	.01	.01	.02	.01	.01	.07	6.73	.01	.002	.01	.010	.010	.010	.023	9500
BM-1042	.002	.01	.01	.01	.02	.01	.01	.09	6.44	.01	.002	.01	.010	.010	.010	.010	8250
BM-1082	.001	.01	.01	.02	.03	.01	.01	.12	5.18	.02	.002	.01	.010	.010	.010	.031	6670
BM-1083	.001	.01	.01	.02	.01	.01	.01	.12	4.67	.01	.002	.01	.010	.010	.010	.009	6800
BM-1084	.002	.01	.01	.02	.01	.01	.01	.10	4.22	.01	.002	.01	.010	.010	.010	.036	7000
BM-1085	.001	.01	.01	.02	.03	.01	.01	.12	5.15	.01	.002	.01	.010	.010	.010	.030	6640
BM-1086	.001	.01	.01	.02	.01	.01	.01	.17	4.12	.01	.002	.01	.010	.010	.010	.007	6850
BM-1087	.001	.01	.01	.01	.05	.01	.01	.11	3.90	.01	.002	.01	.010	.010	.010	.013	6120
BM-1088	.001	.01	.01	.01	.01	.01	.01	.13	4.57	.02	.002	.01	.010	.010	.010	.020	6650
BM-1088A	.001	.01	.01	.01	.03	.01	.01	.14	4.05	.03	.002	.01	.010	.010	.010	.011	6200
BM-1089	.001	.01	.01	.01	.03	.01	.01	.15	6.91	.03	.002	.01	.010	.010	.010	.044	12500
BM-1089A	.001	.01	.01	.01	.02	.01	.01	.21	5.47	.02	.002	.01	.010	.010	.010	.035	9800
BM-1090	.001	.01	.01	.01	.05	.01	.01	.14	6.08	.02	.002	.01	.010	.010	.010	.081	10850
BM-1090A	.001	.01	.01	.01	.04	.01	.01	.24	6.02	.01	.002	.01	.010	.010	.010	.121	9980
BM-1091	.001	.02	.01	.02	.03	.01	.01	.13	6.27	.02	.002	.01	.010	.010	.010	.045	8850
BM-1091A	.001	.02	.01	.02	.02	.01	.01	.18	6.59	.01	.002	.01	.010	.010	.010	.019	9100
BM-1092	.001	.01	.01	.01	.04	.01	.01	.11	5.35	.02	.002	.01	.010	.010	.010	.039	8200
BM-1092A	.001	.01	.01	.01	.04	.01	.01	.06	3.66	.01	.002	.01	.010	.010	.010	.021	8150
BM-1093	.001	.01	.01	.02	.02	.01	.01	.10	4.65	.01	.002	.01	.010	.010	.010	.025	6990
BM-1093A	.001	.01	.01	.01	.01	.01	.01	.15	4.08	.01	.002	.01	.010	.010	.010	.004	6150
BM-1094	.001	.01	.01	.01	.04	.01	.01	.14	3.74	.01	.002	.01	.010	.010	.010	.001	7900
BM-1095	.001	.01	.01	.02	.02	.01	.01	.11	4.58	.01	.002	.01	.010	.010	.010	.003	6100
BM-1096	.001	.01	.01	.01	.03	.01	.01	.11	4.81	.01	.002	.01	.010	.010	.010	.006	6050
BM-1096A	.001	.01	.01	.02	.03	.01	.01	.06	3.03	.01	.002	.01	.010	.010	.010	.005	6220
BM-1100	.002	.01	.01	.01	.01	.01	.01	.03	5.90	.02	.002	.01	.010	.010	.010	.002	6770
BM-1101	.001	.01	.01	.01	.01	.01	.01	.06	6.01	.02	.002	.01	.010	.010	.010	.006	6050
BM-1102	.001	.01	.01	.01	.01	.01	.01	.06	6.92	.02	.002	.01	.010	.010	.010	.013	5950
BM-1103	.001	.01	.01	.01	.01	.01	.01	.14	5.27	.01	.002	.01	.010	.010	.010	.001	5920
BM-1104	.001	.01	.01	.01	.03	.01	.01	.07	2.71	.01	.002	.01	.010	.010	.010	.001	6010
BM-1105	.001	.01	.01	.01	.01	.01	.01	.03	3.12	.01	.002	.01	.010	.010	.010	.006	5070
BM-1106	.001	.01	.01	.01	.02	.01	.01	.02	2.99	.01	.002	.01	.010	.010	.010	.003	5050
BM-1107	.001	.01	.01	.01	.03	.01	.01	.03	2.86	.01	.002	.01	.010	.010	.010	.016	5990
BM-1108	.002	.01	.01	.01	.01	.01	.01	.06	4.25	.01	.002	.01	.010	.010	.010	.001	5870
BM-1109	.001	.01	.01	.01	.01	.01	.01	.04	4.00	.01	.002	.01	.010	.010	.010	.006	6200
BM-1110	.001	.01	.01	.02	.04	.01	.01	.03	5.00	.01	.002	.01	.010	.010	.010	.005	4220
BM-1111	.006	.01	.01	.01	.06	.01	.01	.02	4.22	.01	.002	.01	.010	.010	.010	.084	3980

## MANDUSA RESOURCES FILE # 86-1375

PAGE 2

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Wt GM
BM-1112	.006	.01	.01	.02	.01	.01	.01	.08	5.71	.01	.002	.01	.010	.010	.010	.050	4950
BM-1113	.001	.01	.01	.01	.04	.01	.01	.04	3.31	.01	.002	.01	.010	.010	.010	.009	4660
BM-1114	.004	.01	.01	.04	.01	.01	.01	.02	6.36	.01	.002	.01	.010	.010	.010	.010	8100
BM-1115	.003	.01	.01	.02	.03	.01	.01	.03	5.95	.01	.002	.01	.010	.010	.010	.006	7900
BM-1116	.001	.01	.01	.01	.01	.01	.01	.01	1.57	.01	.002	.01	.010	.010	.010	.031	3910
BM-1117	.004	.01	.01	.04	.01	.01	.01	.05	7.00	.01	.002	.01	.010	.010	.010	.005	8910
BM-1118	.002	.02	.01	.04	.07	.01	.01	.10	8.22	.03	.002	.01	.010	.010	.010	.092	7880
BM-1119	.001	.01	.01	.02	.01	.01	.01	.10	5.06	.01	.002	.01	.010	.010	.010	.029	6950

## ASSAY CERTIFICATE

1.00 GRAM SAMPLE IS DIGESTED WITH 50ML OF 3-1-2 OF HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR.  
AND IS DILUTED TO 100ML WITH WATER. DETECTION FOR BASE METAL IS .01%.

- SAMPLE TYPE: ROCK CHIPS AU# 10 GRAM REGULAR ASSAY

DATE RECEIVED: JULY 14 1986 DATE REPORT MAILED:

*July 19/86*

ASSAYER: *D. Toye*... DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1466

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SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag OZ/T	Ni %	Co %	Mn %	Fe %	As %	U %	Th %	Cd %	Sb %	Bi %	Au OZ/T	Wt GM
BM-1120	.001	.01	.01	.02	.01	.01	.01	.06	3.85	.01	.002	.01	.010	.010	.010	.003	5400
BM-1121	.001	.01	.01	.02	.01	.01	.01	.05	3.79	.01	.002	.01	.010	.010	.010	.005	5950
BM-1122	.001	.01	.01	.01	.04	.01	.01	.04	4.69	.01	.002	.01	.010	.010	.010	.008	5500
BM-1123	.001	.01	.01	.01	.02	.01	.01	.04	5.20	.01	.002	.01	.010	.010	.010	.003	6600
BM-1124	.001	.01	.01	.01	.02	.01	.01	.08	5.22	.01	.002	.01	.010	.010	.010	.011	5900
BM-1125	.002	.01	.01	.01	.01	.01	.01	.09	4.23	.01	.002	.01	.010	.010	.010	.001	4300
BM-1126	.003	.01	.01	.02	.01	.01	.01	1.47	4.83	.01	.002	.01	.010	.010	.010	.003	2800
BM-1127	.001	.01	.01	.01	.01	.01	.01	.04	5.22	.01	.002	.01	.010	.010	.010	.004	3950
BM-1128	.001	.01	.01	.02	.01	.01	.01	.04	4.14	.01	.002	.01	.010	.010	.010	.001	2850
BM-1129	.001	.01	.01	.01	.01	.01	.01	.09	3.90	.01	.002	.01	.010	.010	.010	.004	3900
BM-1130	.001	.01	.01	.01	.01	.01	.01	.07	5.32	.01	.002	.01	.010	.010	.010	.001	3200
BM-1131	.001	.01	.01	.01	.01	.01	.01	.07	5.38	.01	.002	.01	.010	.010	.010	.003	3450
BM-1132	.001	.01	.01	.01	.01	.01	.01	.21	5.49	.01	.002	.01	.010	.010	.010	.037	4100
BM-1133	.001	.01	.01	.01	.03	.01	.01	.12	4.74	.01	.002	.01	.010	.010	.010	.001	4550
BM-1134	.001	.01	.01	.01	.02	.01	.01	.13	4.22	.01	.002	.01	.010	.010	.010	.006	4800
BM-1135	.002	.01	.01	.01	.01	.01	.01	.11	5.52	.01	.002	.01	.010	.010	.010	.007	5350
BM-1136	.001	.01	.01	.01	.01	.01	.01	.04	4.55	.01	.002	.01	.010	.010	.010	.001	5850
STD R-1	.086	.89	1.37	2.45	2.96	.01	.03	.07	7.00	.89	.005	.01	.040	.090	.030	-	-





MANDUSA RESOURCES FILE # 86-1504A

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Ri PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au Sample OZ/T WT.	
BM 1219	35	96	54	951	.7	208	19	1266	4.50	192	5	ND	8	23	4	7	4	11	.17	.063	10	7	.09	71	.01	3	.36	.02	.12	7	.006	7180
BM 1220	12	65	411	517	2.1	104	16	1647	3.99	144	5	ND	6	22	3	5	5	8	.23	.056	9	9	.11	70	.01	4	.31	.02	.12	8	.005	5150
BM 1221	26	103	25	828	.4	179	16	1160	4.84	108	5	ND	8	24	4	3	3	10	.19	.069	12	8	.09	72	.01	8	.33	.02	.14	5	.004	5300
BM 1222	10	84	87	505	.5	106	13	1290	3.46	101	5	ND	8	41	3	2	2	8	.64	.060	16	8	.32	75	.01	4	.42	.03	.13	5	.002	4630
BM 1223	18	104	19	191	.5	67	14	727	4.34	142	5	ND	7	9	2	3	4	9	.03	.057	9	6	.04	64	.01	3	.30	.01	.12	4	.001	5050
BM 1224	20	112	41	236	.4	82	18	1046	4.47	156	5	ND	7	16	2	6	4	12	.05	.077	14	8	.05	75	.01	3	.37	.02	.12	4	.006	6340
BM 1225	19	89	39	243	.4	65	13	792	4.34	148	5	ND	6	17	2	4	4	11	.06	.079	12	7	.04	70	.01	4	.32	.02	.12	4	.001	7200
BM 1226	17	90	30	275	.4	95	22	930	4.65	171	8	ND	7	11	3	4	2	8	.06	.075	12	7	.06	67	.01	4	.38	.01	.13	3	.006	5760
BM 1227	20	79	72	241	.9	83	15	763	4.90	175	7	ND	6	13	3	6	3	10	.08	.076	10	8	.08	62	.01	3	.36	.02	.11	6	.003	4820
BM 1228	24	85	42	253	.6	82	17	897	4.08	146	6	ND	7	11	2	2	4	10	.05	.061	13	8	.05	63	.01	4	.35	.02	.12	4	.005	5000
BM 1229	15	89	26	216	.5	82	15	1068	3.99	120	5	ND	8	11	2	6	3	8	.06	.068	13	6	.03	66	.01	4	.32	.01	.11	4	.001	6180
BM 1230	11	153	77	249	5.0	79	16	1151	3.45	110	5	ND	7	18	3	16	4	9	.13	.089	12	7	.05	71	.01	4	.32	.02	.13	5	.002	5520
BM 1231	13	109	64	246	.9	71	12	802	3.41	157	5	ND	7	32	2	5	2	9	.23	.113	13	6	.05	74	.01	5	.31	.02	.13	5	.012	6000
BM 1232	14	88	53	278	.7	88	14	799	3.92	162	5	ND	7	27	2	7	3	10	.15	.074	13	6	.06	90	.01	4	.32	.02	.14	4	.013	4530
BM 1233	18	121	54	306	.8	90	16	880	3.74	150	5	ND	7	29	3	3	5	12	.15	.061	14	7	.07	123	.01	5	.34	.02	.12	3	.002	7270
STD C	22	61	40	141	7.0	73	29	1140	3.97	39	22	7	36	49	19	15	21	70	.48	.109	39	59	.89	185	.09	39	1.73	.09	.13	15	-	-

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: SOIL -80 MESH AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 16 1986

DATE REPORT MAILED:

*July 23/86*ASSAYER: *D. Toye*

DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1504

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SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	N PPM	Au# PPB
BM 1138	5	15	23	258	.5	25	5	253	1.88	15	5	ND	3	12	1	2	2	20	.09	.066	20	15	.13	100	.02	5	.63	.01	.06	1	12
BM 1139	6	15	22	83	.6	18	4	178	1.42	22	5	ND	3	6	1	2	2	13	.03	.027	18	7	.03	48	.01	6	.31	.01	.03	1	3
BM 1140	10	47	58	239	.9	52	11	1273	2.76	57	6	ND	1	20	2	2	2	16	.16	.063	16	11	.06	147	.01	4	.49	.01	.06	1	8
BM 1141	6	27	11	156	.5	40	9	249	3.49	18	5	ND	7	13	1	2	2	29	.09	.127	22	30	.29	111	.02	8	1.02	.01	.06	1	11
STD C/AU 0.5	19	58	39	138	7.0	72	31	1108	3.94	42	22	8	36	51	18	16	18	67	.48	.105	39	60	.88	182	.08	40	1.72	.07	.14	14	-

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS, VANCOUVER B.C.  
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED JULY 22 1986

DATE REPORTS MAILED

*July 24/86*

### ASSAY CERTIFICATE

SAMPLE TYPE : PULP  
AU\*\* (1 A/T) BY FIRE ASSAY

ASSAYER: *D. Toye* DEAN TOYE , CERTIFIED B.C. ASSAYER

MANDUSA RESOURCES FILE# 86-1375 R

PAGE# 1

SAMPLE	Au** oz/t
BM-1041	.021
BM-1042	.009
BM-1096	.004
BM-1096A	.001
BM-1101	.004
BM-1102	.011
BM-1103	.001
BM-1104	.001
BM-1105	.003
BM-1106	.002
BM-1107	.013
BM-1108	.001
BM-1109	.005
BM-1110	.005
BM-1111	.086
BM-1112	.050
BM-1113	.009



ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 21 1986

DATE REPORT MAILED: *July 25/86*...

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SOILS -80 MESH AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES

FILE # 86-1574

PAGE 1

SAMPLE#	Ag PPM	Au* PPB
BM-2036	1.0	80
BM-2037	1.8	470
BM-2038	.7	38
BM-2039	.6	80
BM-2040	1.5	27
BM-2041	.5	48
BM-2042	.3	34
BM-2043	.6	18
BM-2044	.5	20
BM-2045	1.1	12
BM-2046	.5	26
BM-2047	.3	22
BM-2048	.2	15
BM-2049	.4	19
BM-2050	.7	200
BM-2051	1.2	560
BM-2052	.7	1650
BM-2053	2.2	105
BM-2054	.4	270
BM-2055	.3	155
BM-2056	1.3	39
BM-2057	.3	18
BM-2058	.3	165
BM-2059	.6	12
BM-2060	.3	13
BM-2061	.3	53
BM-2062	1.3	100
BM-2063	.6	18
BM-2064	.6	23
BM-2065	.2	6
BM-2066	.1	15
BM-2067	.3	26
BM-2068	1.1	27
BM-2069	.4	11
BM-2070	.6	19
BM-2071	.7	8
BM-2072	.8	55
STD C/AU-0.5	7.1	520

ACME ANALYTICAL LABORATORIES LTD.

852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

## GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.

- SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 21 1986

DATE REPORT MAILED:

*July 25/86*ASSAYER: *Dean Toy*... DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1574A

PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au OZ/T	Wt. GM
BM-1264	1	36	21	29	.9	48	12	629	5.03	232	5	ND	1	29	1	2	2	7	.35	.120	5	6	.10	121	.01	3	.45	.04	.15	3	.058	230
BM-1265	25	81	27	257	.7	51	16	920	5.29	179	5	ND	3	10	2	2	2	9	.09	.081	6	2	.04	43	.01	3	.30	.02	.08	4	.005	200
BM-1266	22	89	48	302	.8	82	24	1450	6.71	221	5	ND	3	13	3	2	2	11	.10	.079	8	3	.05	60	.01	3	.40	.02	.10	4	.007	210
BM-1267	20	135	94	241	2.4	76	29	1316	6.31	194	5	2	3	12	1	2	2	8	.12	.090	7	3	.05	63	.01	3	.34	.02	.08	4	.164	210
BM-1268	14	137	30	245	.7	39	21	1156	5.64	82	5	ND	2	15	2	2	2	11	.15	.105	8	3	.05	181	.01	2	.35	.03	.09	5	.004	190
BM-1269	2	310	20	30	3.4	104	48	198	16.35	286	5	2	2	5	1	16	2	4	.02	.031	2	7	.02	9	.01	3	.13	.03	.06	12	.075	210

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 22 1986

DATE REPORT MAILED: *July 28/86...*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SOIL -80 MESH AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES

FILE # 86-1604

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SAMPLE#	Ag PPM	Au* PPB
BM 2000	2.3	5
BM 2001	.6	7
BM 2002	.3	8
BM 2003	.2	65
BM 2004	.3	60
BM 2005	1.9	32
BM 2006	.1	15
BM 2007	.2	8
BM 2008	.2	1
BM 2009	.5	23
BM 2010	.2	11
BM 2011	.5	19
BM 2012	.2	380
BM 2013	3.0	75
BM 2014	1.0	340
BM 2015	.6	22
BM 2016	.9	180
BM 2017	.3	40
BM 2018	.3	85
BM 2019	.4	7
BM 2020	.2	14
BM 2021	.3	3
BM 2022	.4	4
BM 2023	.4	6
BM 2024	.4	11
BM 2025	.2	85
BM 2026	.3	170
BM 2027	1.0	65
BM 2028	1.1	45
BM 2029	1.4	100
BM 2030	1.3	13
BM 2031	.4	7
BM 2032	.3	6
BM 2033	.3	4
BM 2034	.5	12
BM 2035	.4	6
STD C/AU 0.5	7.1	485



ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: JULY 23 1986

DATE REPORT MAILED: *July 26/86*

### GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: SOILS -80 MESH AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES

FILE # 86-1623

PAGE 1

SAMPLE#	Ag PFM	Au* PPB
BM-2073	.5	50
BM-2074	.6	105
BM-2075	1.5	75
BM-2076	1.6	5
BM-2077	.2	6
BM-2078	.4	7
BM-2079	.7	2
BM-2080	.6	11
BM-2081	1.1	6
BM-2082	.7	150
BM-2083	2.4	130
BM-2084	.6	8
BM-2085	1.0	10
BM-2086	.2	1
BM-2087	.3	3
BM-2088	1.0	10
BM-2089	1.2	13
BM-2090	2.1	29
BM-2091	.7	13
BM-2092	.4	18
BM-2093	.5	7
BM-2094	.3	10
BM-2095	1.5	305
BM-2096	1.1	1
BM-2097	.2	4
BM-2098	.2	1
BM-2099	.2	1
BM-3000	.1	10
BM-3001	.2	19
BM-3002	.2	10
BM-3003	.2	8
BM-3004	.4	29
BM-3005	1.3	70
BM-3006	1.9	19
BM-3007	.6	9
BM-3008	.4	55
STD C/AU-0.5	7.1	505

SAMPLE#	Ag PPM	Au* PPB
BM-3009	.5	5
BM-3010	.8	3
BM-3011	.4	2
BM-3012	.2	3
BM-3013	.3	6
BM-3014	.2	5
BM-3015	.5	2
BM-3016	.2	34
BM-3017	.9	14
BM-3018	.4	3
BM-3019	.6	4
BM-3020	.5	9
BM-3021	.8	8
BM-3022	.7	11
BM-3023	.5	13
BM-3024	.6	75
BM-3025	.4	105
BM-3026	.2	36
BM-3027	.8	75
BM-3028	.9	270
BM-3029	.3	12
BM-3030	1.3	16
STD C/AU-0.5	7.0	505

## GEOCHEMICAL/ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
THIS LEACH IS PARTIAL FOR MN, FE, CA, P, CR, MG, BA, TI, B, AL, NA, K, W, SI, ZR, CE, SN, Y, NR AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
- SAMPLE TYPE: ROCK CHIPS AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 23 1986

DATE REPORT MAILED:

July 26/86

ASSAYER: *D. J. Ryan* DEAN TOYE, CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1623A

PAGE 1

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au	Sample
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	OZ/T	WT GR
BM-1270	19	171	45	287	1.5	89	26	1151	6.67	107	10	ND	7	17	4	8	2	16	.13	.087	9	11	.05	166	.01	6	.37	.03	.06	2	.005	5600
BM-1271	3	66	21	154	.3	68	9	454	3.14	95	5	ND	4	23	2	4	2	5	.31	.044	9	5	.15	59	.01	4	.20	.03	.11	3	.015	1870
BM-1272	23	120	30	253	.7	84	16	814	5.42	127	10	ND	8	16	2	11	2	8	.13	.074	7	8	.08	55	.01	5	.29	.02	.10	3	.001	2640
BM-1273	32	147	22	297	.7	92	17	799	5.32	109	8	ND	9	13	3	4	2	13	.06	.076	9	6	.06	59	.01	5	.30	.02	.10	3	.002	3910
BM-1274	33	130	29	285	.8	100	19	859	5.14	99	5	ND	8	21	3	4	2	13	.06	.083	7	6	.05	73	.01	6	.27	.02	.10	2	.010	5370
BM-1275	42	92	59	234	1.1	58	12	429	4.80	119	5	ND	7	41	2	4	2	12	.04	.103	8	8	.02	80	.01	6	.24	.03	.12	1	.043	5210
BM-1276	39	86	45	254	.9	82	16	623	5.40	129	12	ND	9	22	3	3	2	11	.04	.107	7	5	.03	71	.01	6	.24	.02	.11	1	.025	5660
BM-1277	30	60	37	250	1.0	83	19	640	4.76	88	5	ND	10	36	3	8	2	11	.14	.161	9	6	.03	69	.01	6	.30	.02	.12	1	.017	4290
BM-1278	38	74	23	274	.9	97	17	748	5.38	111	5	ND	11	37	3	6	2	11	.16	.172	10	6	.03	65	.01	7	.27	.02	.12	2	.025	5250
BM-1279	43	115	17	319	.7	106	18	850	6.25	114	9	ND	10	10	3	3	3	9	.03	.091	8	6	.04	53	.01	6	.27	.02	.10	3	.014	4790
BM-1280	37	84	38	323	.6	88	18	622	7.72	161	5	ND	8	25	3	4	2	10	.03	.172	8	5	.03	66	.01	4	.32	.02	.10	2	.009	599
BM-1281	34	70	40	301	.7	89	17	825	5.96	145	7	ND	8	67	4	4	2	13	.19	.236	11	7	.04	78	.01	6	.34	.04	.11	3	.007	5650
STD C	21	59	41	139	7.0	71	29	1118	4.00	40	20	7	35	48	18	17	20	69	.48	.107	39	60	.89	181	.08	41	1.73	.09	.13	14	-	-

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: JULY 28 1986 DATE REPORT MAILED: *Aug 1/86* ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-1697

PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Hg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au PPB
542	12	110	27	217	.5	44	5	289	3.19	82	5	ND	5	15	1	2	2	10	.06	.070	10	8	.01	53	.01	2	.26	.02	.10	4	18
543	4	7805	22115	11798	342.8	23	2	227	7.31	538	5	81	1	78	211	2826	7	3	.65	.007	2	8	.30	5	.01	2	.02	.02	.01	1	91000
544	8	33	1699	146	17.7	17	1	456	2.05	116	5	58	2	3	2	8	5	6	.01	.017	2	10	.01	26	.01	2	.08	.01	.06	10	176000
545	17	74	308	261	1.7	78	10	889	2.97	90	5	ND	5	12	4	13	3	9	.10	.062	8	5	.05	59	.01	3	.24	.01	.12	3	855
546	14	70	301	266	2.5	54	11	379	2.90	90	5	2	3	7	2	12	2	8	.05	.042	5	13	.07	33	.01	2	.21	.01	.07	9	1210
547	14	83	693	131	2.9	65	12	724	4.25	124	7	7	6	6	2	8	2	8	.03	.053	11	9	.06	51	.01	6	.23	.01	.11	6	13000
STD C/AU-0.5	21	60	42	141	7.2	75	30	1143	3.99	42	16	8	35	50	19	16	20	71	.48	.108	39	62	.89	188	.09	37	1.73	.09	.14	15	500

Assay required for correct result



ACME ANALYTICAL LABORATORIES LTD.

DATE RECEIVED AUG 1986

852 E. HASTINGS, VANCOUVER B.C.

FH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE REPORTS MAILED

*Aug 14/86*

### ASSAY CERTIFICATE

SAMPLE TYPE : PULP  
AU\*\* BY FIRE ASSAY

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

MANDUSA RESOURCES FILE# 86-1697 R

PAGE# 1

SAMPLE	Cu %	Pb %	Zn %	Ag %	Sb %	Au** oz/t
543	.81	8.81	1.25	11.20	.39	2.720
544	-	-	-	-	-	4.390
547	-	-	-	-	-	.354

ACME ANALYTICAL LABORATORIES LTD.

852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCKS AND CORES

DATE RECEIVED: AUG 13 1986 DATE REPORT MAILED: *Aug 19/86* ASSAYER: *D. Toye* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-2015

PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM
3151	14	165	329	331	0.4	45	13	776	2.60	74	5	ND	4	15	4	36	2	9	.12	.072	12	7	.04	74	.01	4	.31	.01	.15	1
3152	5	86	12869	705	16.8	6	5	143	1.42	33	5	7	1	56	12	39	2	1	.37	.036	2	6	.14	6	.01	3	.02	.01	.01	1
3153	38	101	214	210	1.0	69	15	621	4.06	142	5	ND	7	7	1	2	3	11	.05	.070	14	11	.07	70	.01	4	.37	.01	.14	1
3154	3	39	29	80	.6	126	38	1135	5.94	219	5	ND	2	124	1	2	2	11	5.80	.088	2	24	2.57	35	.01	3	.32	.03	.16	1
3155	2	17	30	30	1.9	156	50	1009	6.12	309	5	4	1	105	1	2	2	11	4.90	.117	2	20	1.86	24	.01	2	.32	.02	.16	1
3156	3	113	17	137	.7	142	30	1030	6.09	229	5	ND	2	166	1	2	2	11	4.88	.082	2	32	3.62	31	.01	2	.34	.02	.15	1
3157	4	93	28	79	.9	149	47	1042	6.27	312	5	ND	2	164	1	2	2	11	6.15	.082	2	28	2.30	33	.01	2	.46	.03	.14	1
3158	3	121	80	737	.7	160	35	955	6.74	251	5	ND	2	144	4	2	2	12	5.33	.081	2	35	3.40	28	.01	2	.56	.04	.13	1

ACME ANALYTICAL LABORATORIES LTD.  
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DATE RECEIVED AUG 13 1986

PH: (604)253-3158 COMPUTER LINE:251-1011

DATE REPORTS MAILED

*Aug 19/86*

### ASSAY CERTIFICATE

SAMPLE TYPE : ROCK & CORE  
AU (1 A/T) BY FIRE ASSAY  
ND = NONE DETECTED

ASSAYER *D. Toye* DEAN TOYE , CERTIFIED B.C. ASSAYER

SAMPLE	MANDUSA RESOURCES	FILE#	86-2015		NATIVE	AVERAGE	PAGE# 1
			SAMPLE	-100 mesh			
		Weight	Au	Au	Au		
		gm	oz/t	mg	oz/t		
3151		220	.010	ND	.010		
3152		230	.275	.16	.296		
3153		220	.013	ND	.013		
3154		240	.005	ND	.005		
3155		250	.092	.02	.094		
3156		230	.007	ND	.007		
3157		250	.032	ND	.032		
3158		250	.043	.42	.093		

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PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

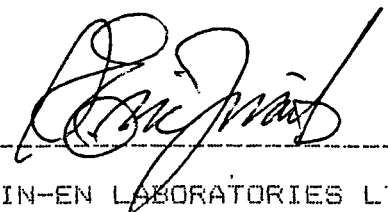
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. E. MICKLE

File: 6-639  
Date: AUGUST 21/86  
Type: -40M SOIL

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
DM 1	0.6	8
DM 2	0.7	18
DM 3	0.7	5
DM 4	1.0	45
BM 3031	0.8	28
BM 3032	0.7	10
BM 3033	0.8	9
BM 3034	0.7	10
BM 3035	1.4	19
BM 3036	1.5	38
BM 3037	1.8	60
BM 3038	1.0	13
BM 3039	1.7	30
BM 3040	0.9	8
BM 3041	0.7	7
BM 3042	1.2	14
BM 3043	0.9	12
BM 3044	1.4	40
BM 3045	0.9	20
BM 3046	1.0	5
BM 3047	NO SAMPLE	

Certified by



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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: MANDUSA RESOURCES

File: 6-639

Project:

Date: AUGUST 20/86

Attention: R.E. MICKLE

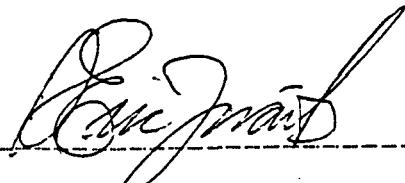
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	*AU G/TONNE	AU OZ/TON
DM 5	3.6	0.11	.01	0.001
DM 6	1.6	0.05	.21	0.006
DM 7	2.0	0.06	.02	0.001
DM 8	43.8	1.28	83.00	2.421
DM 9	8.3	0.24	3.36	0.098
DM 10	2.4	0.07	2.50	0.073
DM 11	5.2	0.15	1.20	0.035
DM 12	2.1	0.06	1.30	0.038
DM 13	2.4	0.07	7.05	0.206

\*2 ASSAY TON.

Certified by



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ACME ANALYTICAL LABORATORIES LTD.

852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6

PHONE 253-3158

DATA LINE 251-1011

## GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.ND AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: AUG 23 1986 DATE REPORT MAILED: *Aug 27/86* ASSAYER: *D. Toyne* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES FILE # 86-2227

PAGE 1

SAMPLE#	Mo PPH	Cu PPH	Pb PPH	Zn PPH	Ag PPH	Ni PPH	Co PPH	Mn PPH	Fe PPH	As PPH	U PPH	Au PPH	Th PPH	Sr PPH	Cd PPH	Sb PPH	Bi PPH	V PPH	Ca %	P %	La PPH	Cr PPH	Mg %	Ba PPH	Ti %	B PPH	Al %	Na %	K %	W PPH	Au4 PPB
B-3159	1	21	74	44	1.1	217	17	1293	2.94	276	5	ND	1	68	1	2	2	5	1.23	.051	4	42	1.16	45	.01	2	.23	.02	.09	1	7050
B-3160	1	7	37	24	.7	7	3	459	1.28	17	5	ND	1	4	1	2	2	2	.04	.030	2	7	.01	19	.01	2	.07	.01	.02	1	2630
B-3161	1	2	3	13	.2	14	3	695	1.15	29	5	ND	1	69	1	2	2	2	1.46	.009	2	5	.16	23	.01	2	.06	.01	.01	1	14
B-3163	1	8	4	9	.1	9	2	388	.89	11	5	ND	1	6	1	2	2	2	.05	.021	2	5	.02	41	.01	3	.16	.01	.06	1	60
B-3164	2	59	3442	670	22.2	6	5	786	2.33	31	5	39	1	9	5	3	9	3	.06	.025	2	3	.03	27	.01	2	.09	.01	.01	1	34000 ✓
B-3165	1	6	23	31	.1	14	4	1618	2.69	19	5	ND	1	10	1	2	2	5	.13	.064	2	3	.04	27	.01	4	.11	.01	.02	1	190
B-3166	2	8	28	42	.3	16	2	471	1.12	6	5	ND	1	6	1	2	2	2	.07	.016	2	5	.03	18	.01	3	.08	.01	.03	1	100
B-3167	1	9	2	12	.2	10	1	722	1.16	2	5	ND	1	2	1	2	2	1	.01	.006	2	13	.01	20	.01	3	.03	.01	.01	1	6
B-3168	1	15	7	32	.2	7	2	258	.67	14	5	ND	1	3	1	2	3	1	.02	.007	2	5	.01	11	.01	2	.03	.01	.01	1	9
B-3169	2	1429	26	2237	14.7	18	2	499	1.37	608	5	20	1	49	26	61	2	3	.93	.020	2	5	.40	31	.01	2	.11	.01	.04	1	17000 ✓
B-3170	2	19	6	22	.2	12	3	338	.79	20	5	ND	1	10	1	2	2	1	.09	.032	2	4	.02	24	.01	2	.09	.01	.03	1	75
B-3171	1	19	3	24	.3	9	3	409	.96	11	5	ND	1	10	1	2	2	1	.25	.014	2	3	.03	7	.01	2	.03	.01	.01	1	39
B-3172	1	7	2	14	.2	6	1	1183	1.26	5	5	ND	1	48	1	2	2	1	1.52	.006	2	5	.48	4	.01	2	.02	.01	.01	1	10
B-3173	1	40	5	11	.3	16	3	234	1.15	11	5	ND	1	4	1	2	2	1	.07	.016	2	7	.01	63	.01	3	.04	.01	.02	1	275
B-3174	1	13	10	33	.3	38	13	487	3.52	178	5	ND	1	82	1	2	2	3	2.54	.097	2	4	.86	39	.01	2	.28	.03	.14	1	140
STD C/AU-0.5	21	58	41	137	7.1	70	30	1102	3.93	42	19	8	32	47	18	15	17	62	.48	.104	37	60	.88	174	.08	39	1.73	.06	.13	13	520

✓ Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS, VANCOUVER B.C.

DATE RECEIVED AUG 28 1986

PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE REPORTS MAILED

*Aug 29/86*

**ASSAY CERTIFICATE**

SAMPLE TYPE : PULP  
AU\*\* BY FIRE ASSAY

ASSAYER

*D. Toye*

DEAN TOYE , CERTIFIED B.C. ASSAYER

MANDUSA RESOURCES FILE# 86-2227 R

PAGE# 1

SAMPLE	Au** oz/t
B-3164	1.460
B-3169	.760

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: MANDUSA RESOURCES  
 Project:  
 Attention: R.E. MICKLE

File: 6-662  
 Date: AUGUST 30/86  
 Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG FPM	AU PPB
DM 14	0.6	5
DM 15	0.4	10
DM 16	0.4	15
DM 17	0.6	10
DM 18	0.7	20
DM 19	0.8	10
DM 20	0.8	10
DM 21	1.0	30
DM 22	0.7	10
DM 23	0.6	20
DM 24	1.6	5
DM 25	1.8	10
DM 26	0.6	20
DM 27	0.5	5
DM 28	0.9	5
DM 29	0.6	5
DM 30	4.2	5
DM 31	0.7	60
DM 32	0.6	15
DM 33	0.9	70
DM 34	0.6	5
DM 35	3.0	5
DM 36	1.0	3
DM 37	1.4	5
DM 38	1.2	5
DM 39	1.2	10
DM 40	0.8	5
DM 41	0.6	5
DM 42	0.6	10
DM 43	1.0	5

CAT

Certified by 



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*Specialists in Mineral Environments*

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 U

**Certificate of ASSAY**

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R.E. MICKLE

File: 6-700  
Date: AUGUST 30/86  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AG G/TONNE	AG OZ/TON	*AU G/TONNE	AU OZ/TON
DM 53	54.0	1.58	33.20	0.968
DM 54	2.3	0.07	.74	0.022
DM 55	0.4	0.01	.34	0.010
DM 56	0.2	0.01	.11	0.003
DM 57	0.6	0.02	.14	0.004

\*TWO ASSAY TON.

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705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM


Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. E. MICKLE

File: 6-700  
Date: SEPT. 2/86  
Type: SOIL GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU PPB
DM 48	1.8	90
DM 49	0.7	15
DM 50	0.6	5
DM 51	1.9	175
F 52	0.8	5
BM 2100	1.0	5
BM 2101	0.9	110
BM 2102	0.8	10
BM 2103	2.1	5
BM 2104	0.6	5
BM 2105	0.7	10
BM 2106	1.8	4850
BM 2107	2.1	1150
BM 2108	1.5	510
BM 2109	2.7	3800
BM 2110	2.4	1300
BM 2111	2.6	1700
BM 2112	1.6	1400
BM 2113	1.5	440
BM 2114	1.3	285

Certified by

  
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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**


Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/B. NICOLSON

File: 6-805/P1  
Date: SEPT 20/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PFB	AG PPM
3201	54	0.8
3202	320	0.3
3203	1450	0.8
3204	1700	0.9
3205	6500	1.0
3206	2000	0.7
3207	750	0.6
3208	390	0.6
3209	1500	1.2
3210	280	1.0
3211	270	0.9
3212	32	0.6
3213	27	0.3
3214	9	0.3
3215	13	0.3
3216	8	0.2
3217	50	0.2
3218	72	0.3
3219	46	0.2
3220	270	0.3
3221	90	1.3
3222	260	3.0
3223	125	0.3
3224	195	0.4
3225	220	0.2
3226	450	0.3
3227	5	0.3
3228	225	0.4
3229	35	0.6
3230	3	0.3

Certified by

  
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MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

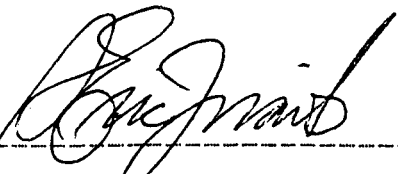
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/B. NICOLSON

File: 6-805/P2  
Date: SEPT 20/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AU-FIRE PPB	AG PPM
3231	102	0.8
3232	4	0.4
3233	365	1.2
3234	6	0.2
3235	15	0.5
3236	10	0.4

Certified by



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MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of ASSAY

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/B. NICHOLSON

File: 6-805  
Date: SEPT 20/86  
Type: ROCK ASSAY

We hereby certify the following results for samples submitted.

Sample Number	AU G/TONNE	AU OZ/TON
3203	1.00	0.029
3204	1.24	0.036
3205	4.70	0.137
3206	2.01	0.059
3207 3207	.80	0.023
3208	.24	0.007
3209	1.24	0.036

Certified by



MIN-EN LABORATORIES LTD.

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: SEPT 16 1986

DATE REPORT MAILED: *Sept 22/86*

**GEOCHEMICAL ICP ANALYSIS**

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.  
 THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK CHIPS AU ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *D. Toy* DEAN TOYE. CERTIFIED B.C. ASSAYER.

MANDUSA RESOURCES

FILE # 86-2690

PAGE 1

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Au* PPB	Wt GM
554	87	9736	64	19.0	76	10300✓	1800
555	101	53	81	.9	95	190	1859
556	1546	7877	13135	18.9	5	1100	1750
557	44	39	322	.3	10	77	1700
558	5995	275	576	39.8	20	8250✓	1920
559	423	40	142	.6	55	320	3800
560	40	8	136	.9	10	2650	2100
561	103	103	323	1.5	205	650	2150
564	47	8	80	.2	51	5	2080
565	63	19	159	.8	800	102	1950
566	68	16	98	1.0	589	150	2000
567	36	15	62	.3	599	270	2100
568	62	21	86	1.9	2392	790	1800
569	124	8	61	1.8	306	1250	2450
570	106	18	39	.1	18	31	2400
3162	9	18	15	.1	9	230	1650

✓ Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS, VANCOUVER B.C.  
PH: (604)253-3158 COMPUTER LINE:251-1011

DATE RECEIVED SEPT 23 1986

DATE REPORTS MAILED

*Sept 29/86*

### ASSAY CERTIFICATE

SAMPLE TYPE : PULP

ASSAYER: *D. Toye* DEAN TOYE, CERTIFIED B.C. ASSAYER

MANDUSA RESOURCES FILE# 86-2690 R

PAGE# 1

SAMPLE	Pb %	Zn %	Ag oz/t	Au oz/t
554	-	-	.84	.291
555	-	-	.01	.003
556	.79	1.24	.51	.071
557	-	-	.02	.001
558	-	-	.84	1.050

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PHONE: (604) 980-5814 DR (604) 988-4524

TELEX: VIA USA 7601067 UG

Certificate of GEOCHEM

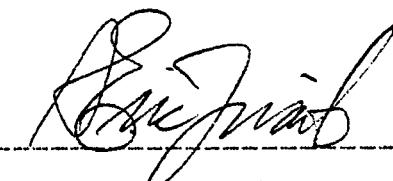
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-852  
Date: SEPT 29/86  
Type: ROCK -40MESH

We hereby certify the following results for samples submitted.

Sample Number	-40MESH WT GM	AG PPM	AU-FIRE PFB
PH 86-1 10-20	2680	1.5	156
PH 86-1 20-25	750	1.0	23
PH 86-1 25-30	360	0.7	14
PH 86-1 30-35	NO SAMPLE		
PH 86-1 35-40	560	1.1	93
PH 86-1 40-45	920	1.2	190
PH 86-1 45-50	900	1.0	29
PH 86-1 50-55	210	1.3	92
PH 86-1 55-60	600	1.4	68
PH 86-1 60-65	800	1.4	73
PH 86-1 65-70	930	3.7	145
PH 86-1 70-75	600	2.8	55
PH 86-1 75-80	710	1.4	170
PH 86-1 80-85	1080	0.8	8
PH 86-1 85-90	1280	0.9	70
PH 86-1 90-95	1300	0.8	16
PH 86-1 95-100	2120	0.6	17
PH 86-1 100-105	1580	0.9	5
PH 86-1 105-110	1660	1.2	27
PH 86-1 110-115	900	0.4	48
PH 86-1 115-120	2300	0.5	3
PH 86-1 120-125	1900	0.7	19
PH 86-1 125-130	2840	0.5	5
PH 86-1 130-135	1930	1.1	1
PH 86-1 135-140	2800	0.6	6
PH 86-1 140-145	2280	0.4	5
PH 86-1 145-150	5200	0.6	3

Certified by



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705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

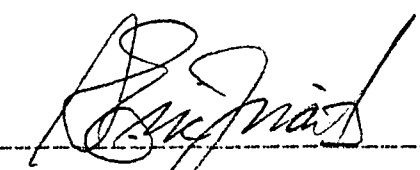
Company: MANDUSA RESOURCES  
 Project:  
 Attention: P. SEVENSMA/R. NICHOLSON

File: 6-852  
 Date: SEPT 29/86  
 Type: ROCK +40MESH

We hereby certify the following results for samples submitted.

Sample Number	+40MESH WT GM	TOTAL WT DRY GM	AG PPM	AU-FIRE PPB
PH 86-1 10-20	2940	5620	0.3	32
PH 86-1 20-25	1700	2450	0.2	4
PH 86-1 25-30	1500	1860	0.5	11
PH 86-1 30-35	NO SAMPLE			
PH 86-1 35-40	5000	5560	0.8	63
PH 86-1 40-45	2500	3420	0.6	58
PH 86-1 45-50	3220	3120	0.6	10
PH 86-1 50-55	500	710	0.7	2
PH 86-1 55-60	560	1160	0.5	13
PH 86-1 60-65	820	1620	0.5	7
PH 86-1 65-70	1820	2750	0.9	195
PH 86-1 70-75	160	760	0.3	4
PH 86-1 75-80	150	860	0.4	115
PH 86-1 80-85	1280	2360	0.3	27
PH 86-1 85-90	2580	3860	0.4	8
PH 86-1 90-95	1900	3200	0.7	4
PH 86-1 95-100	1860	3980	0.6	7
PH 86-1 100-105	2050	3630	0.3	1
PH 86-1 105-110	2800	4460	0.5	3
PH 86-1 110-115	1300	2200	0.6	6
PH 86-1 115-120	3240	5540	0.5	4
PH 86-1 120-125	3080	4980	0.7	1
PH 86-1 125-130	4200	7040	0.6	3
PH 86-1 130-135	1820	3750	0.8	3
PH 86-1 135-140	3340	6140	0.5	1
PH 86-1 140-145	2200	4480	0.4	4
PH 86-1 145-150	6280	11480	0.5	1

Certified by \_\_\_\_\_



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PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: MANDUSA RESOURCES LTD.  
 Project:  
 Attention: P. SEVENSMA/R. NICHOLSON

File: 6-862/P1  
 Date: OCT 3/86  
 Type: -40MESH ROCK

We hereby certify the following results for samples submitted.

Sample Number	-40MESH TOTAL		+40MESH AG		AU-FIRE
	WT GM	WT GM	WT GM	PPM	PPB
PH86-2 10-20	310	3570	3260	0.7	330
PH86-2 20-25	400	2430	2030	1.0	940
PH86-2 25-30	460	2810	2350	1.4	140
PH86-2 30-35	2090	3790	1700	0.9	315
PH86-2 35-40	1110	1610	500	0.9	60
PH86-2 40-45	1410	1890	480	0.6	8
PH86-2 45-50	2120	5010	2890	0.6	85
PH86-2 50-55	1390	2430	1040	0.8	67
PH86-2 55-60	1690	5280	3590	0.5	135
PH86-2 60-65	1800	4420	2620	0.9	120
PH86-2 65-70	2090	4590	2500	0.8	225
PH86-2 70-75	920	1520	600	0.8	83
PH86-2 75-80	1500	2890	1390	0.7	38
PH86-2 80-85	1260	2260	1000	0.6	16
PH86-2 85-90	1290	3530	2240	0.5	19
PH86-2 90-95	1140	1710	570	0.8	22
PH86-2 95-100	900	2410	1510	0.7	100
PH86-2 100-105	1680	2950	1270	0.4	53
PH86-2 105-110	1210	4900	3690	0.8	31
PH86-2 110-115	1310	2620	1320	0.8	215
PH86-2 115-120	1020	1810	790	0.9	230
PH86-2 120-125	1380	2550	1170	0.7	165
PH86-2 125-130	1090	3190	2100	0.7	210
PH86-2 130-135	1110	1730	620	0.9	155
PH86-2 135-140	1330	2830	1500	1.0	180
PH86-2 140-145	1780	4890	3110	1.0	385
PH86-2 145-150	1560	6160	4600	0.6	290
PH86-2 150-155	1200	1700	500	0.8	285
PH86-2 155-160	1630	2950	1320	1.0	750
PH86-2 160-165	1700	3010	1310	1.2	830
PH86-2 165-170	1580	4870	3290	0.9	890

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TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

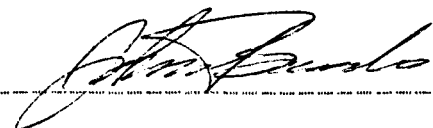
Company: MANDUSA RESOURCES  
 Project:  
 Attention: P. SEVENSMA/R. NICHOLSON

File: 6-862/P2  
 Date: OCT 3/86  
 Type: -40MESH ROCK

We hereby certify the following results for samples submitted.

Sample Number	-40MESH WT GM	TOTAL WTGM	+40MESH WT GM	AG PPM	AU-FIRE PFB
PH86-2 170-175	1140	2230	1090	1.1	960
PH86-2 175-180	1810	3310	1500	1.2	840
PH86-2 180-185	1250	1680	430	1.2	780
PH86-2 185-190	810	1110	300	1.0	425
PH86-2 190-195	1290	1990	700	0.8	370
PH86-2 195-200	2240	3720	1480	0.9	320
PH86-3 10-20	620	1420	800	0.7	74
PH86-3 20-25	2320	4010	1690	0.7	160
PH86-3 25-30	1610	3820	2210	0.8	200
PH86-3 30-35	1510	2210	700	0.6	195
PH86-3 35-40	1980	5080	3100	0.7	930
PH86-3 40-45	1600	2810	1210	0.8	750
PH86-3 45-50	2060	5510	3450	0.5	400
PH86-3 50-55	2110	4700	2600	1.2	315
PH86-3 55-60	1500	3410	1960	24.0	1150
PH86-3 60-65	1900	2980	1080	11.4	800
PH86-3 65-70	2100	5090	2990	4.2	420
PH86-3 70-75	1610	2190	580	3.2	385
PH86-3 75-80	1770	3460	1690	1.5	330
PH86-3 80-85	1500	3400	1900	2.1	295
PH86-3 85-90	2680	7360	4680	1.8	360
PH86-3 90-95	1370	3770	2400	1.3	410
PH86-3 95-100	900	3020	2120	1.3	670
PH86-3 100-105	510	1430	920	0.9	375
PH86-3 105-110	2500	9030	6530	1.0	340
PH86-3 110-115	900	2950	2050	0.9	185
PH86-3 115-120	1880	6080	4200	0.9	280
PH86-3 120-125	1400	4350	2950	0.8	195
PH86-3 125-130	1390	3600	2210	0.8	190
PH86-3 130-135	1380	3480	2100	0.7	120

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
 Project:  
 Attention: P. SEVENSMA/R. NICHOLSON

File: 6-862/P3  
 Date: OCT 3/86  
 Type: -40MESH ROCK

We hereby certify the following results for samples submitted.

Sample Number	-40MESH TOTAL WT GM	TOTAL WT GM	+40MESH AG WT GM	AG PPM	AU-FIRE PPB
PH86-3 135-140	1220	3720	2500	0.7	135
PH86-3 140-145	1200	1700	500	0.6	190
PH86-3 145-150	900	2100	1200	0.7	79
PH86-3 150-155	1410	3010	1600	0.7	125
PH86-3 155-160	1490	4000	2510	0.5	57
PH86-3 160-165	1210	2460	1250	0.6	80
PH86-3 165-170	1700	5000	3300	0.4	92
PH86-3 170-175	1150	2560	1410	0.7	75
PH86-3 175-180	1530	2880	1350	0.6	98
PH86-3 180-185	1190	2790	1600	0.6	170
PH86-3 185-190	1500	3700	2200	0.7	110
PH86-3 190-195	1280	2290	1010	0.5	195
PH86-3 195-200	2050	4900	2850	0.8	130
PH86-3 200-205	1800	3200	1400	0.6	85
PH86-3 205-210	1800	3950	2150	0.8	100
PH86-3 210-215	1130	2130	1000	0.7	94
PH86-3 215-220	1900	3600	1700	0.6	112

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TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSONFile: 6-897/F1  
Date: OCT 7/86  
Type: ROCK GEOCHEMWe hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PFB
PH86-4-10-20	0.9	95
PH86-4-20-25	0.7	74
PH86-4-25-30	1.0	198
PH86-4-30-35	0.7	76
PH86-4-35-40	0.9	95
PH86-4-40-45	1.1	350
PH86-4-45-50	1.1	360
PH86-4-50-55	1.0	218
PH86-4-55-60	1.2	237
PH86-4-60-65	1.6	173
PH86-4-65-70	1.3	140
PH86-4-70-75	1.0	170
PH86-4-75-80	1.1	106
PH86-4-80-85	1.2	205
PH86-4-85-90	1.2	148
PH86-4-90-95	1.1	270
PH86-4-95-100	1.0	204
PH86-4-100-105	1.3	280
PH86-4-105-110	1.1	275
PH86-4-110-115	1.2	168
PH86-4-115-120	1.0	255
PH86-4-120-125	0.9	260
PH86-4-125-130	0.8	220
PH86-4-130-135	1.1	275
PH86-4-135-140	1.1	218
PH86-4-140-145	0.8	323
PH86-4-145-150	0.9	190
PH86-4-150-155	1.0	196
PH86-4-155-160	6.5	170
PH86-4-160-165	1.3	370

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-897/P2  
Date: OCT 8/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PFM	AU-FIRE PPB
PH86-4-165-170	1.3	225
PH86-4-170-175	0.8	310
PH86-4-175-180	1.0	180
PH86-4-180-185	0.9	200
PH86-4-185-190	1.1	250
PH86-4-190-195	1.3	283
PH86-4-195-200	0.9	295
PH86-5-5-10	0.8	46
PH86-5-10-15	0.8	104
PH86-5-15-20	1.6	260
PH86-5-20-25	1.4	1290
PH86-5-25-30	1.1	225
PH86-5-30-35	1.2	480
PH86-5-35-40	0.8	97
PH86-5-40-45	1.0	330
PH86-5-45-50	1.2	500
PH86-5-50-55	1.2	442
PH86-5-55-60	0.9	145
PH86-5-60-65	1.0	126
PH86-5-65-70	1.0	246
PH86-5-70-75	1.1	465
PH86-5-75-80	1.0	298
PH86-5-80-85	1.1	226
PH86-5-85-90	0.9	465
PH86-5-90-95	1.2	575
PH86-5-95-100	0.9	240
PH86-5-100-105	0.9	214
PH86-5-105-110	1.0	144
PH86-5-110-115	1.1	140
PH86-5-115-120	0.9	150

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TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-897/P3  
Date: OCT 9/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-5-120-125	1.3	259
PH86-5-125-130	1.2	200
PH86-5-130-135	1.2	115
PH86-5-135-140	1.1	230
PH86-5-140-145	1.4	100
PH86-5-145-150	1.2	140
PH86-5-150-155	0.8	134
PH86-5-155-160	1.0	90
PH86-5-160-165	1.0	85
PH86-5-165-170	1.1	94
PH86-5-170-175	1.0	115
PH86-5-175-180	1.2	140
PH86-5-180-185	0.9	95
PH86-5-185-190	1.0	80
PH86-5-190-195	1.0	104
PH86-5-195-200	0.9	102
PH86-6-15-20	0.9	63
PH86-6-20-25	0.8	100
PH86-6-25-30	0.9	65
PH86-6-30-35	1.4	255
PH86-6-35-40	1.0	74
PH86-6-40-45	7.2	350
PH86-6-45-50	4.3	335
PH86-6-50-55	2.3	193
PH86-6-55-60	2.2	190
PH86-6-60-65	2.4	205
PH86-6-65-70	1.7	130
PH86-6-70-75	3.0	235
PH86-6-75-80	1.5	123
PH86-6-80-85	2.1	215

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-897/P4  
Date: OCT 9/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
FH86-6-85-90	1.4	173
FH86-6-90-95	1.2	225
FH86-6-95-100	1.2	128
FH86-6-100-105	1.3	150
FH86-6-105-110	1.1	116
FH86-6-110-115	1.5	168
PH86-6-115-120	1.8	145
FH86-6-120-125	1.3	165
PH86-6-125-130	1.0	146
FH86-6-130-135	1.4	115
FH86-6-135-140	1.0	92
PH86-6-140-145	1.1	155
FH86-6-145-150	0.7	123
PH86-6-150-155	1.0	128
FH86-6-155-160	0.8	135
FH86-6-160-165	1.4	235
PH86-6-165-170	1.1	120
PH86-6-170-175	1.1	200
PH86-6-175-180	0.9	148
PH86-6-180-185	1.5	215
FH86-6-185-190	1.2	140
PH86-6-190-195	1.4	215
PH86-6-195-200	1.2	165

Certified by



MIN-EN LABORATORIES LTD.



MIN-EN LABORATORIES LTD.

Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-901/P1  
Date: OCT 13/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-7 0-10	0.6	6
PH86-7 10-15	0.4	4
PH86-7 15-20	0.6	7
PH86-7 20-25	0.6	4
PH86-7 25-30	1.0	8
PH86-7 30-35	0.8	3
PH86-7 35-40	0.8	5
PH86-7 40-45	0.8	5
PH86-7 45-50	0.6	4
PH86-7 50-55	1.2	6
PH86-7 55-60	1.0	2
PH86-7 60-65	1.1	4
PH86-7 65-70	0.6	5
PH86-7 70-75	0.8	3
PH86-7 75-80	0.7	3
PH86-7 80-85	0.7	5
PH86-7 85-90	0.6	5
PH86-7 90-95	0.7	2
PH86-7 95-100	0.5	7
PH86-7 100-105	0.6	8
PH86-7 105-110	0.7	12
PH86-8 10-20	0.7	3
PH86-8 20-25	1.0	4
PH86-8 25-30	0.8	6
PH86-8 30-35	0.6	3
PH86-8 35-40	0.4	2
PH86-8 40-45	0.3	4
PH86-8 45-50	0.4	2
PH86-8 50-55	0.4	4
PH86-8 55-60	0.2	2

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Specialists in Mineral Environments

705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-901/P2  
Date: OCT 14/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-8 60-65	0.6	18
PH86-8 65-70	0.5	5
PH86-8 70-75	0.5	3
PH86-8 75-80	0.4	9
PH86-8 80-85	0.4	8
PH86-8 85-90	0.7	4
PH86-8 90-95	0.4	10
PH86-8 95-100	0.5	6
PH86-8 100-105	0.4	5
PH86-8 105-110	0.6	4
PH86-8 110-115	0.5	3
PH86-8 115-120	0.6	2
PH86-8 120-125	0.4	2
PH86-8 125-130	0.5	3
PH86-8 130-135	0.3	4
PH86-8 135-140	0.4	9
PH86-8 140-145	0.6	8
PH86-8 145-150	0.6	4
PH86-8 150-155	0.4	3
PH86-8 155-160	0.6	6
PH86-8 160-165	0.6	11
PH86-8 165-170	0.4	3
PH86-8 170-175	0.4	2
PH86-8 175-180	0.4	3
PH86-8 180-185	0.4	130
PH86-8 185-190	0.6	8
PH86-8 190-195	0.4	11
PH86-8 195-200	0.4	4
PH86-9 5-10	0.6	36
PH86-9 10-15	0.6	34

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

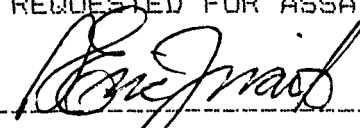
File: 6-901/P3  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-9 15-20	0.8	113
PH86-9 20-25	0.7	185
PH86-9 25-30	3.0	12000
PH86-9 30-35	1.2	2100
PH86-9 35-40	0.9	365
PH86-9 40-45	0.6	40
PH86-9 45-50	0.6	23
PH86-9 50-55	0.6	4
PH86-9 55-60	0.7	51
PH86-9 60-65	0.7	510
PH86-9 65-70	0.6	4
PH86-9 70-75	0.6	11
PH86-9 75-80	0.6	14
PH86-9 80-85	0.7	109
PH86-9 85-90	0.6	6
PH86-9 90-95	0.6	113
PH86-9 95-100	0.5	5
PH86-9 100-105	0.5	3
PH86-9 105-110	0.6	21
PH86-9 110-115	0.8	15
PH86-9 115-120	0.8	5
PH86-9 120-125	0.8	26
PH86-9 125-130	0.4	98
PH86-9 130-135	0.6	6
PH86-9 135-140	0.7	7
PH86-9 140-145	0.6	14
PH86-9 145-150	0.8	43
PH86-9 150-155	0.5	12
PH86-9 155-160	0.6	9
PH86-9 160-165	0.6	13

\*SOME OF THESE SAMPLES SHOULD HAVE BEEN REQUESTED FOR ASSAY.

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TELEX: VIA USA 7601067 UC

## Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

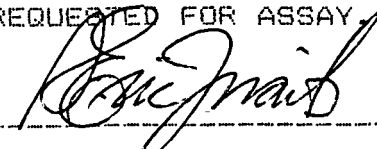
File: 6-901/P4  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-9 165-170	0.7	29
PH86-9 170-175	0.8	4
PH86-9 175-180	0.8	3
PH86-9 180-185	0.7	8
PH86-9 185-190	0.9	5
PH86-9 190-195	0.6	32
PH86-9 195-200	0.6	9
PH86-10 15-25	0.8	4
PH86-10 25-30	0.6	3
PH86-10 30-35	0.5	2
PH86-10 35-40	0.8	3
PH86-10 40-45	2.6	505
PH86-10 45-50	1.6	335
PH86-10 50-55	2.0	2700
PH86-10 55-60	0.8	54
PH86-10 60-65	0.6	115
PH86-10 65-70	0.8	10
PH86-10 70-75	0.6	22
PH86-10 75-80	0.8	11
PH86-10 80-85	0.6	6
PH86-10 85-90	0.6	13
PH86-10 90-95	0.6	4
PH86-10 95-100	0.6	3
PH86-10 100-105	0.5	9
PH86-10 105-110	0.6	4
PH86-10 110-115	0.8	3
PH86-10 115-120	0.6	3
PH86-10 120-125	0.5	10
PH86-10 125-130	0.6	3
PH86-10 130-135	0.4	4

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PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

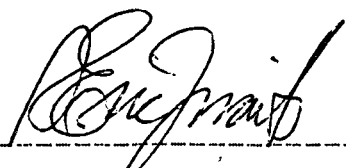
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-901/P5  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-10 135-140	0.8	41
PH86-10 140-145	0.6	19
PH86-10 145-150	0.6	20
PH86-10 150-155	1.0	12
PH86-10 155-160	0.9	14
PH86-10 160-165	0.9	11
PH86-10 165-170	0.9	9
PH86-10 170-175	0.9	6
PH86-10 175-180	1.0	40
PH86-10 180-185	1.1	137
PH86-10 185-190	1.2	50
PH86-10 190-195	1.1	15
PH86-10 195-200	1.0	33
PH86-10 200-205	0.9	37

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

## Certificate of GEOCHEM

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

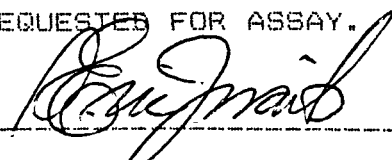
File: 6-935/P1  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-11 10-20	0.4	10
PH86-11 20-25	0.5	2450
PH86-11 25-30	0.5	38
PH86-11 30-35	0.6	440
PH86-11 35-40	15.7	24000
PH86-11 40-45	2.6	12500
PH86-11 45-50	1.4	2000
PH86-11 50-55	0.7	1340
PH86-11 55-60	0.4	118
PH86-11 60-65	0.9	1600
PH86-11 65-70	0.6	510
PH86-11 70-75	1.2	1840
PH86-11 75-80	0.7	445
PH86-11 80-85	0.8	220
PH86-11 85-90	0.5	122
PH86-11 90-95	0.7	250
PH86-11 95-100	0.5	60
PH86-11 100-105	0.4	600
PH86-11 105-110	0.6	175
PH86-11 110-115	0.6	205
PH86-11 115-120	0.6	90
PH86-11 120-125	0.6	120
PH86-11 125-130	0.6	100
PH86-11 130-135	0.7	96
PH86-11 135-140	0.7	102
PH86-11 140-145	0.9	95
PH86-11 145-150	0.8	50
PH86-11 150-155	0.6	60
PH86-11 155-160	0.7	36
PH86-11 160-165	0.8	177

\*SOME OF THESE SAMPLES SHOULD HAVE BEEN REQUESTED FOR ASSAY.

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PHONE: (604)980-5814 OR (604)988-4524

TELEX: VIA USA 7601067 UC

**Certificate of GEOCHEM**

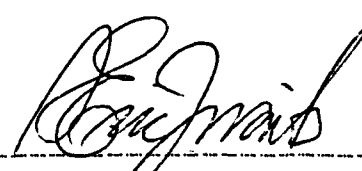
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

File: 6-935/P2  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-11 165-170	0.6	82
PH86-11 170-175	0.7	67
PH86-11 175-180	0.7	58
PH86-11 180-185	0.5	175
PH86-11 185-190	0.5	55
PH86-11 190-195	0.6	120
PH86-11 195-200	0.5	90
PH86-12 5-10	0.4	66
PH86-12 10-15	0.4	19
PH86-12 15-20	0.5	12
PH86-12 20-25	0.6	4
PH86-12 25-30	0.5	20
PH86-12 30-35	0.7	11
PH86-12 35-40	0.7	22
PH86-12 40-45	0.6	6
PH86-12 45-50	0.6	5
PH86-12 50-55	0.6	13
PH86-12 55-60	0.6	10
PH86-12 60-65	0.7	5
PH86-12 65-70	0.6	6
PH86-12 70-75	0.6	3
PH86-12 75-80	0.8	4
PH86-12 80-85	0.8	5
PH86-12 85-90	0.7	2
PH86-12 90-95	0.6	2
PH86-12 95-100	0.8	8
PH86-12 100-105	1.0	3
PH86-12 105-110	0.9	2
PH86-12 110-115	0.7	5
PH86-12 115-120	0.8	16

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PHONE: (604) 980-5814 OR (604) 988-4524

TELEX: VIA USA 7601067 UC

## Certificate of ASSAY

Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENSMA/R. NICHOLSON

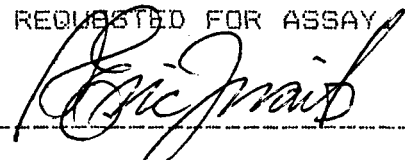
File: 6-935/P3  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-12 120-125	0.8	13
PH86-12 125-130	0.8	11
PH86-12 130-135	0.6	4
PH86-12 135-140	0.6	68
PH86-12 140-145	4.7	4100
PH86-12 145-150	0.9	12
PH86-12 150-155	0.9	3
PH86-12 155-160	0.6	9
PH86-12 160-165	0.8	200
PH86-12 165-170	0.7	90
PH86-12 170-175	0.8	33
PH86-12 175-180	0.6	28
PH86-12 180-185	3.8	14
PH86-12 185-190	0.7	5
PH86-12 190-195	1.0	100
PH86-12 195-200	0.7	15
PH86-13 10-20	0.6	154
PH86-13 20-25	0.6	200
PH86-13 25-30	0.9	9
PH86-13 30-35	0.8	14
PH86-13 35-40	1.2	400
PH86-13 40-45	0.8	4
PH86-13 45-48	1.0	14
PH86-13A 50-55	0.9	258
PH86-13A 55-60	0.9	110
PH86-13A 60-65	0.9	117
PH86-13A 65-70	1.0	76
PH86-13A 70-75	1.0	220
PH86-13A 75-80	1.0	65
PH86-13A 80-85	1.1	52

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705 West 15th Street North Vancouver, B.C. Canada V7M 1T2

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

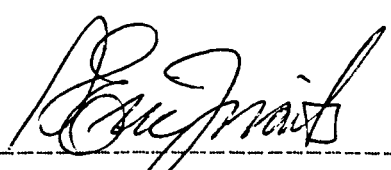
Company: MANDUSA RESOURCES  
Project:  
Attention: P. SEVENEMA/R. NICHOLSON

File: 6-935/P4  
Date: OCT 16/86  
Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-13A 85-90	0.7	49
PH86-13A 90-95	0.9	120
PH86-13A 95-100	0.9	160
PH86-13A 100-105	0.8	120
PH86-13A 105-110	0.8	38
PH86-13A 110-115	0.9	80
PH86-13A 115-120	0.6	28
PH86-13A 120-125	1.0	118
PH86-13A 125-130	0.8	42
PH86-13A 130-135	0.9	51
PH86-13A 135-140	0.8	29
PH86-13A 140-145	1.2	37
PH86-13A 145-150	0.7	33
PH86-13A 150-155	1.8	100
PH86-13A 155-160	0.7	44
PH86-13A 160-165	1.2	29
PH86-13A 165-170	0.9	50
PH86-13A 170-175	1.0	27
PH86-13A 175-180	1.1	41
PH86-13A 180-185	1.3	32
PH86-13A 185-190	1.0	40
PH86-13A 190-195	1.2	77
PH86-13A 195-200	1.1	58

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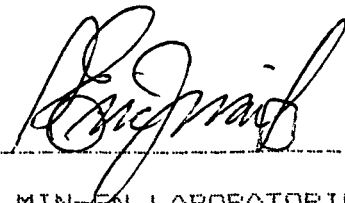
Company: MANDUSA RESOURCES  
 Project:  
 Attention: P. SEVENSMA

File: 6-955/P1  
 Date: OCT 22/86  
 Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PFB
PH86-14 15-20	4.8	1120
PH86-14 20-25	1.3	320
PH86-14 25-30	0.7	72
PH86-14 30-35	0.5	40
PH86-14 35-40	0.8	16
PH86-14 40-45	0.7	10
PH86-14 45-50	0.8	11
PH86-14 50-55	1.0	39
PH86-14 55-60	0.9	15
PH86-14 60-65	0.9	8
PH86-14 65-70	0.7	23
PH86-14 70-75	0.7	7
PH86-14 75-80	0.9	6
PH86-14 80-85	0.8	5
PH86-14 85-90	1.2	22
PH86-14 90-95	1.0	3
PH86-14 95-100	0.7	8
PH86-14 100-105	0.8	10
PH86-14 105-108	0.9	9
PH86-14 108-115	0.9	4
PH86-14 115-120	0.6	8
PH86-14 120-125	1.2	8
PH86-14 125-130	0.4	9
PH86-14 130-135	0.7	5
PH86-14 135-140	0.7	6
PH86-14 140-145	0.5	3
PH86-14 145-150	0.5	7
PH86-14 150-155	0.5	5
PH86-14 155-160	0.6	2
PH86-14 160-165	0.7	34

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TELEX: VIA USA 7601067 UC

Certificate of GEOCHEM

Company: MANDUSA RESOURCES

Project:

Attention: P. SEVENSMA

File: 6-955/P2

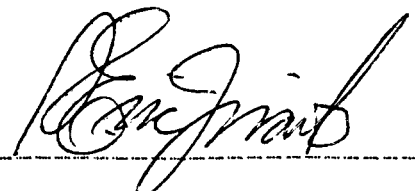
Date: OCT 21/86

Type: ROCK GEOCHEM

We hereby certify the following results for samples submitted.

Sample Number	AG PPM	AU-FIRE PPB
PH86-14 165-170	0.9	11
PH86-14 170-175	0.9	9
PH86-14 175-180	0.8	5
PH86-14 180-185	1.0	8
PH86-14 185-190	1.0	3
PH86-14 190-195	0.8	2
PH86-14 195-200	1.0	4

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APPENDIX E  
DRILL ASSAY LOGS

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: Spanish Mountain

HOLE: Loc'n Don Claim Area - East End (A) : BRG N80°E : DIP -45°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	+40 Mesh Wt Gm	Total Dry Wt.	Ag PPM	Au-Fire PPB
10-20			10'	D	2940	5620	0.3	32
20-25			5'	D	1700	2450	0.2	4
25-30			5'	D	1500	1860	0.5	11
30-35			5'	D	NO SAMPLE			
35-40			5'	D	5000	5560	0.8	63
40-45			5'	D	2500	3420	0.6	58
45-50			5'	D	3220	3120	0.6	10
50-55			5'	W	500	710	0.7	2
55-60			5'	W	560	1160	0.5	13
60-65			5'	W	820	1620	0.5	7
65-70			5'	W	1820	2750	0.9	195
70-75			5'	W	160	760	0.3	4
75-80			5'	W	150	860	0.4	115
80-85			5'	W	1280	2360	0.3	27
85-90			5'	W	2580	3860	0.4	8
90-95			5'	W	1900	3200	0.7	4
95-100			5'	W	1860	3980	0.6	7
100-105			5'	W	2050	3630	0.3	1
105-110			5'	W	2800	4460	0.5	3
110-115			5'	W	1300	2200	0.6	6
115-120			5'	W	3240	5540	0.5	4
120-125			5'	W	3080	4980	0.7	1
125-130			5'	W	4200	7040	0.6	3
130-135			5'	W	1820	3750	0.8	3
135-140			5'	W	3340	6140	0.5	1
140-145			5'	W	2200	4480	0.4	4
145-150			5'	W	6280	11480	0.5	1

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Don Claim Area - Sickie Trench : BRG S40°E : DIP -47°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Weight -40 Mesh	Weight +40 Mesh	AgPPM	Au Fire PPB
10-20			10'	D	310	3260	0.7	330
20-25			5'	D	400	2030	1.0	940
25-30			5'	D	460	2350	1.4	140
30-35			5'	W	2090	1700	0.9	315
35-40			5'	W	1110	500	0.9	60
40-45			5'	W	1410	480	0.6	8
45-50			5'	W	2120	2890	0.6	85
50-55			5'	W	1390	1040	0.8	67
55-60			5'	W	1690	3590	0.5	135
60-65			5'	W	1800	2620	0.9	120
65-70			5'	W	2090	2500	0.8	225
70-75			5'	W	920	600	0.8	83
75-80			5'	W	1500	1390	0.7	38
80-85			5'	W	1260	1000	0.6	16
85-90			5'	W	1290	2240	0.5	19
90-95			5'	W	1140	570	0.8	22
95-100			5'	W	900	1510	0.7	100
100-105			5'	W	1680	1270	0.4	53
105-110			5'	W	1210	3690	0.8	31
110-115			5'	W	1310	1320	0.8	215
115-120			5'	W	1020	790	0.9	230
120-125			5'	W	1380	1170	0.7	165
125-130			5'	W	1090	2100	0.7	210
130-135			5'	W	1110	620	0.9	155
135-140			5'	W	1330	1500	1.0	180
140-145			5'	W	1780	3110	1.0	385
145-150			5'	W	1560	4600	0.6	290
150-155			5'	W	1200	500	0.8	285
155-160			5'	W	1630	1320	1.0	750
160-165			5'	W	1700	1310	1.2	830
165-170			5'	W	1580	3290	0.9	890
170-175			5'	W	1140	1090	1.1	960
175-180			5'	W	1810	1500	1.2	840
180-185			5'	W	1250	430	1.2	780
185-190			5'	W	810	300	1.0	425
190-195			5'	W	1290	700	0.8	370
195-200			5'	W	2240	1480	0.9	320

## MANDUSA RESOURCES LTD.

## ASSAY LOG

PROPERTY: SPANISH MOUNTAINHOLE: Loc'n Don Claim Area - Boulangerite : BRG S55°E : DIP -41°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	-40 Mesh Wt GM	+40 Mesh Wt GM	Ag PPM	Au-Fire PPB
10-20			10'	W	620	800	0.7	74
20-25			5'	W	2320	1690	0.7	160
25-30			5'	W	1610	2210	0.8	200
30-35			5'	W	1510	700	0.6	195
35-40			5'	W	1980	3100	0.7	930
40-45			5'	W	1600	1210	0.8	750
45-50			5'	W	2060	3450	0.5	400
50-55			5'	W	2110	2600	1.2	315
55-60			5'	W	1500	1960	24.0	1150
60-65			5'	W	1900	1080	11.4	800
65-70			5'	W	2100	2990	4.2	420
70-75			5'	W	1610	580	3.2	385
75-80			5'	W	1770	1690	1.5	330
80-85			5'	W	1500	1900	2.1	295
85-90			5'	W	2680	4680	1.8	360
90-95			5'	W	1370	2400	1.3	410
95-100			5'	W	900	2120	1.3	670
100-105			5'	W	510	920	0.9	375
105-110			5'	W	2500	6530	1.0	340
110-115			5'	W	900	2050	0.9	185
115-120			5'	W	1880	4200	0.9	280
120-125			5'	W	1400	2950	0.8	195
125-130			5'	W	1390	2210	0.8	190
130-135			5'	W	1380	2100	0.7	120
135-140			5'	W	1220	2500	0.7	135
140-145			5'	W	1200	500	0.6	190
145-150			5'	W	900	1200	0.7	79
150-155			5'	W	1410	1600	0.7	125
155-160			5'	W	1490	2510	0.5	57
160-165			5'	W	1210	1250	0.6	80
165-170			5'	W	1700	3300	0.4	92
170-175			5'	W	1150	1410	0.7	75
175-180			5'	W	1530	1350	0.6	98
180-185			5'	W	1190	1600	0.6	170
185-190			5'	W	1500	2200	0.7	110
190-195			5'	W	1280	1010	0.5	195

ASSAY REPT: 6-862/P1  
Min-En

DATE: Oct 3/86

HOLE NO: PH86-3

PAGE 1 OF 2

PROPERTY : SPANISH MOUNTAIN

HOLE: Loc'n Don Claims - Boulangerite

: BRG S55°E

: DIP -41°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	-40 Mesh Wt GM	+40 Mesh Wt GM	Ag PPM	Au-Fire PPB
195-200			5'	W	2050	2850	0.8	130
200-205			5'	W	1800	1400	0.6	85
205-210			5'	W	1800	2150	0.8	100
210-215			5'	W	1130	1000	0.7	94
215-220			5'	W	1900	1700	0.6	112



MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Don Claims - Boulangerite (West) : BRG S55°E : DIP -45°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag-PPM	Au-Fire PPB		
10-20			10'	W	0.9	95		
20-25			5'	W	0.7	74		
25-30			5'	W	1.0	198		
30-35			5'	W	0.7	76		
35-40			5'	W	0.9	95		
40-45			5'	W	1.1	350		
45-50			5'	W	1.1	360		
50-55			5'	W	1.0	218		
55-60			5'	W	1.2	237		
60-65			5'	W	1.6	173		
65-70			5'	W	1.3	140		
70-75			5'	W	1.0	170		
75-80			5'	W	1.1	106		
80-85			5'	W	1.2	205		
85-90			5'	W	1.2	148		
90-95			5'	W	1.1	270		
95-100			5'	W	1.0	204		
100-105			5'	W	1.3	280		
105-110			5'	W	1.1	275		
110-115			5'	W	1.2	168		
115-120			5'	W	1.0	255		
120-125			5'	W	0.9	260		
125-130			5'	W	0.8	220		
130-135			5'	W	1.1	275		
135-140			5'	W	1.1	218		
140-145			5'	W	0.8	323		
145-150			5'	W	0.9	190		
150-155			5'	W	1.0	196		
155-160			5'	W	6.5	170		
160-165			5'	W	1.3	370		
165-170			5'	W	1.3	225		
170-175			5'	W	0.8	310		
175-180			5'	W	1.0	180		
180-185			5'	W	0.9	200		
185-190			5'	W	1.1	250		
190-195			5'	W	1.3	283		
195-200			5'	W	0.9	295		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Don Claims - Cottonwood Zone

: BRG S57°E

: DIP -49°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPb		
5-10			5'	D	0.8	46		
10-15			5'	D	0.8	104		
15-20			5'	D	1.6	260		
20-25			5'	D	1.4	1290		
25-30			5'	D	1.1	225		
30-35			5'	D	1.2	480		
35-40			5'	D	0.8	97		
40-45			5'	D	1.0	330		
45-50			5'	D	1.2	500		
50-55			5'	D	1.2	442		
55-60			5'	D	0.9	145		
60-65			5'	D	1.0	126		
65-70			5'	W	1.0	246		
70-75			5'	W	1.1	465		
75-80			5'	W	1.0	298		
80-85			5'	W	1.1	226		
85-90			5'	W	0.9	465		
90-95			5'	W	1.2	575		
95-100			5'	W	0.9	240		
100-105			5'	W	0.9	214		
105-110			5'	W	1.0	144		
110-115			5'	W	1.1	140		
115-120			5'	W	0.9	150		
120-125			5'	W	1.3	259		
125-130			5'	W	1.2	200		
130-135			5'	W	1.2	115		
135-140			5'	W	1.1	230		
140-145			5'	W	1.4	100		
145-150			5'	W	1.2	140		
150-155			5'	W	0.8	134		
155-160			5'	W	1.0	90		
160-165			5'	W	1.0	85		
165-170			5'	W	1.1	94		
170-175			5'	W	1.0	115		
175-180			5'	W	1.2	140		
180-185			5'	W	0.9	95		



MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Don Claims - Cottonwood Zone (West) : BRG S32°E : DIP -44°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
15-20			5'	D	0.9	63		
20-25			5'	D	0.8	100		
25-30			5'	D	0.9	65		
30-35			5'	D	1.4	255		
35-40			5'	D	1.0	74		
40-45			5'	D	7.2	350		
45-50			5'	W	4.3	335		
50-55			5'	W	2.3	193		
55-60			5'	W	2.2	190		
60-65			5'	W	2.4	205		
65-70			5'	W	1.7	130		
70-75			5'	W	3.0	235		
75-80			5'	W	1.5	123		
80-85			5'	W	2.1	215		
85-90			5'	W	1.4	173		
90-95			5'	W	1.2	225		
95-100			5'	W	1.2	128		
100-105			5'	W	1.3	150		
105-110			5'	W	1.1	116		
110-115			5'	W	1.5	168		
115-120			5'	W	1.8	145		
120-125			5'	W	1.3	165		
125-130			5'	W	1.0	146		
130-135			5'	W	1.4	115		
135-140			5'	W	1.0	92		
140-145			5'	W	1.1	155		
145-150			5'	W	0.7	123		
150-155			5'	W	1.0	128		
155-160			5'	W	0.8	135		
160-165			5'	W	1.4	235		
165-170			5'	W	1.1	120		
170-175			5'	W	1.1	200		
175-180			5'	W	0.9	148		
180-185			5'	W	1.5	215		
185-190			5'	W	1.2	140		
190-195			5'	W	1.4	215		
195-200			5'	W	1.2	165		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - High Grade Pit : BRG S60°E : DIP -45°

SAMPLE NO.	FROM	TO	LENGTH	WET /DRY	Ag PPM	Au Fire ppb		
0-10			10'	D	0.6	6		
10-15			5'	D	0.4	4		
15-20			5'	D	0.6	7		
20-25			5'	D	0.6	4		
25-30			5'	D	1.0	8		
30-35			5'	D	0.8	3		
35-40			5'	D	0.8	5		
40-45			5'	D	0.8	5		
45-50			5'	W	0.6	4		
50-55			5'	W	1.2	6		
55-60			5'	W	1.0	2		
60-65			5'	W	1.1	4		
65-70			5'	W	0.6	5		
70-75			5'	W	0.8	3		
75-80			5'	W	0.7	3		
80-85			5'	W	0.7	5		
85-90			5'	W	0.6	5		
90-95			5'	W	0.7	2		
95-100			5'	W	0.5	7		
100-105			5'	W	0.6	8		
105-110			5'	W	0.7	12		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim- High Grade Pit :BRG - :DIP -90°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
10-20			10'	W	0.7	3		
20-25			5'	W	1.0	4		
25-30			5'	W	0.8	6		
30-35			5'	W	0.6	3		
35-40			5'	W	0.4	2		
40-45			5'	W	0.3	4		
45-50			5'	W	0.4	2		
50-55			5'	W	0.4	4		
55-60			5'	W	0.2	2		
60-65			5'	W	0.6	18		
65-70			5'	W	0.5	5		
70-75			5'	W	0.5	3		
75-80			5'	W	0.4	9		
80-85			5'	W	0.4	8		
85-90			5'	W	0.7	4		
90-95			5'	W	0.4	10		
95-100			5'	W	0.5	6		
100-105			5'	W	0.4	5		
105-110			5'	W	0.6	4		
110-115			5'	W	0.5	3		
115-120			5'	W	0.6	2		
120-125			5'	W	0.4	2		
125-130			5'	W	0.5	3		
130-135			5'	W	0.3	4		
135-140			5'	W	0.4	9		
140-145			5'	W	0.6	8		
145-150			5'	W	0.6	4		
150-155			5'	W	0.4	3		
155-160			5'	W	0.6	6		
160-165			5'	W	0.6	11		
165-170			5'	W	0.4	3		
170-175			5'	W	0.4	2		
175-180			5'	W	0.4	3		
180-185			5'	W	0.4	130		
185-190			5'	W	0.6	8		
190-195			5'	W	0.4	11		
195-200			5'	W	0.4	4		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - Green Pit :BRG - :DIP -90°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPR		
5-10			5'	D	0.6	36		
10-15			5'	D	0.6	34		
15-20			5'	D	0.8	113		
20-25			5'	D	0.7	185		
25-30			5'	D	3.0	12000		
30-35			5'	D	1.2	2100		
35-40			5'	D	0.9	365		
40-45			5'	D	0.6	40		
45-50			5'	D	0.6	23		
50-55			5'	D	0.6	4		
55-60			5'	W	0.7	51		
60-65			5'	W	0.7	510		
65-70			5'	W	0.6	4		
70-75			5'	W	0.6	11		
75-80			5'	W	0.6	14		
80-85			5'	W	0.7	109		
85-90			5'	W	0.6	6		
90-95			5'	W	0.6	113		
95-100			5'	W	0.5	5		
100-105			5'	W	0.5	3		
105-110			5'	W	0.6	21		
110-115			5'	W	0.8	15		
115-120			5'	W	0.8	5		
120-125			5'	W	0.8	26		
125-130			5'	W	0.4	98		
130-135			5'	W	0.6	6		
135-140			5'	W	0.7	7		
140-145			5'	W	0.6	14		
145-150			5'	W	0.8	43		
150-155			5'	W	0.5	12		
155-160			5'	W	0.6	9		
160-165			5'	W	0.6	13		
165-170			5'	W	0.7	29		
170-175			5'	W	0.8	4		
175-180			5'	W	0.8	3		
180-185			5'	W	0.7	8		

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'N Peso Claim - Green Pit : BRG -- : DIP -90°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
185-190			5'	W	0.9	5		
190-195			5'	W	0.6	32		
195-200			5'	W	0.6	9		



MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - Green Pit :BRG N46°W :DIP -48°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPG		
15-25			10'	D	0.8	4		
25-30			5'	D	0.6	3		
30-35			5'	D	0.5	2		
35-40			5'	D	0.8	3		
40-45			5'	D	2.6	505		
45-50			5'	D	1.6	335		
50-55			5'	D	2.0	2700		
55-60			5'	D	0.8	54		
60-65			5'	D	0.6	115		
65-70			5'	D	0.8	10		
70-75			5'	D	0.6	22		
75-80			5'	W	0.8	11		
80-85			5'	W	0.6	6		
85-90			5'	W	0.6	13		
90-95			5'	W	0.6	4		
95-100			5'	W	0.6	3		
100-105			5'	W	0.5	9		
105-110			5'	W	0.6	4		
110-115			5'	W	0.8	3		
115-120			5'	W	0.6	3		
120-125			5'	W	0.5	10		
125-130			5'	W	0.6	3		
130-135			5'	W	0.4	4		
135-140			5'	W	0.8	41		
140-145			5'	W	0.6	19		
145-150			5'	W	0.6	20		
150-155			5'	W	1.0	12		
155-160			5'	W	0.9	14		
160-165			5'	W	0.9	11		
165-170			5'	W	0.9	9		
170-175			5'	W	0.9	6		
175-180			5'	W	1.0	40		
180-185			5'	W	1.1	137		
185-190			5'	W	1.2	50		
190-195			5'	W	1.1	15		
195-200			5'	W	1.0	33		
200-205			5'	W	0.9	37		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - Green Pit : BRG N53°E : DIP -45°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
10-20			10'	D	0.4	10		
20-25			5'	D	0.5	2450		
25-30			5'	D	0.5	38		
30-35			5'	D	0.6	440		
35-40			5'	D	15.7	24000		
40-45			5'	D	2.6	12500		
45-50			5'	D	1.4	2000		
50-55			5'	D	0.7	1340		
55-60			5'	D	0.4	118		
60-65			5'	D	0.9	1600		
65-70			5'	W	0.6	510		
70-75			5'	W	1.2	1840		
75-80			5'	W	0.7	445		
80-85			5'	W	0.8	220		
85-90			5'	W	0.5	122		
90-95			5'	W	0.7	250		
95-100			5'	W	0.5	60		
100-105			5'	W	0.4	600		
105-110			5'	W	0.6	175		
110-115			5'	W	0.6	205		
115-120			5'	W	0.6	90		
120-125			5'	W	0.6	120		
125-130			5'	W	0.6	100		
130-135			5'	W	0.7	96		
135-140			5'	W	0.7	102		
140-145			5'	W	0.9	95		
145-150			5'	W	0.8	50		
150-155			5'	W	0.6	60		
155-160			5'	W	0.7	36		
160-165			5'	W	0.8	177		
165-170			5'	W	0.6	82		
170-175			5'	W	0.7	67		
175-180			5'	W	0.7	58		
180-185			5'	W	0.5	175		
185-190			5'	W	0.5	55		
190-195			5'	W	0.6	120		
195-200			5'	W	0.5	90		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - Cabin Zone : BRG N46°E : DIP -48°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
5-10			5'	D	0.4	66		
10-15			5'	D	0.4	19		
15-20			5'	D	0.5	12		
20-25			5'	D	0.6	4		
25-30			5'	D	0.5	20		
30-35			5'	D	0.7	11		
35-40			5'	D	0.7	22		
40-45			5'	D	0.6	6		
45-50			5'	D	0.6	5		
50-55			5'	D	0.6	13		
55-60			5'	D	0.6	10		
60-65			5'	D	0.7	5		
65-70			5'	D	0.6	6		
70-75			5'	D	0.6	3		
75-80			5'	D	0.8	4		
80-85			5'	D	0.8	5		
85-90			5'	D	0.7	2		
90-95			5'	D	0.6	2		
95-100			5'	D	0.8	8		
100-105			5'	D	1.0	3		
105-110			5'	D	0.9	2		
110-115			5'	D	0.7	5		
115-120			5'	D	0.8	16		
120-125			5'	D	0.8	13		
125-130			5'	D	0.8	11		
130-135			5'	D	0.6	4		
135-140			5'	D	0.6	68		
140-145			5'	W	4.7	4100		
145-150			5'	W	0.9	12		
150-155			5'	W	0.9	3		
155-160			5'	W	0.6	9		
160-165			5'	W	0.8	200		
165-170			5'	W	0.7	90		
170-175			5'	W	0.8	33		
175-180			5'	W	0.6	28		
180-185			5'	W	3.8	14		

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'N Peso Claim - Cabin Zone :BRG N46°E :DIP -48°

SAMPLE NO.	FROM	TO	LENGTH	WET /DRY	Ag PPM	Au Fire PPB		
185-190			5'	W	0.7	5		
190-195			5'	W	1.0	100		
195-200			5'	W	0.7	15		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'N Peso Claim- Lower Landing :BRG N89°W :DIP -46°

SAMPLE NO.	FROM	TO	LENGTH	WET /DRY	Ag PPM	Au Fire PPB		
10-20			10'	D	0.6	154		
20-25			5'	D	0.6	200		
25-30			5'	D	0.9	9		
30-35			5'	D	0.8	14		
35-40			5'	D	1.2	400		
40-45			5'	D	0.8	4		
45-48			5'	D	1.0	14		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY : SPANISH MOUNTAIN

HOLE : Loc'n Peso Claim - Lower Landing

: BRG N87°W

: DIP -46°

SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
50-55			5'	W	0.9	258		
55-60			5'	W	0.9	110		
60-65			5'	W	0.9	117		
65-70			5'	W	1.0	76		
70-75			5'	W	1.0	220		
75-80			5'	W	1.0	65		
80-85			5'	W	1.1	52		
85-90			5'	W	0.7	49		
90-95			5'	W	0.9	120		
95-100			5'	W	0.9	160		
100-105			5'	W	0.8	120		
105-110			5'	W	0.8	38		
110-115			5'	W	0.9	80		
115-120			5'	W	0.6	28		
120-125			5'	W	1.0	118		
125-130			5'	W	0.8	42		
130-135			5'	W	0.9	51		
135-140			5'	W	0.8	29		
140-145			5'	W	1.2	37		
145-150			5'	W	0.7	33		
150-155			5'	W	1.8	100		
155-160			5'	W	0.7	44		
160-165			5'	W	1.2	29		
165-170			5'	W	0.9	50		
170-175			5'	W	1.0	27		
175-180			5'	W	1.1	41		
180-185			5'	W	1.3	32		
185-190			5'	W	1.0	40		
190-195			5'	W	1.2	77		
195-200			5'	W	1.1	58		

MANDUSA RESOURCES LTD.

ASSAY LOG

PROPERTY: SPANISH MOUNTAIN

HOLE: Loc'n Peso Claim - Blonde Pit : BRG N75°W : DIP -47°

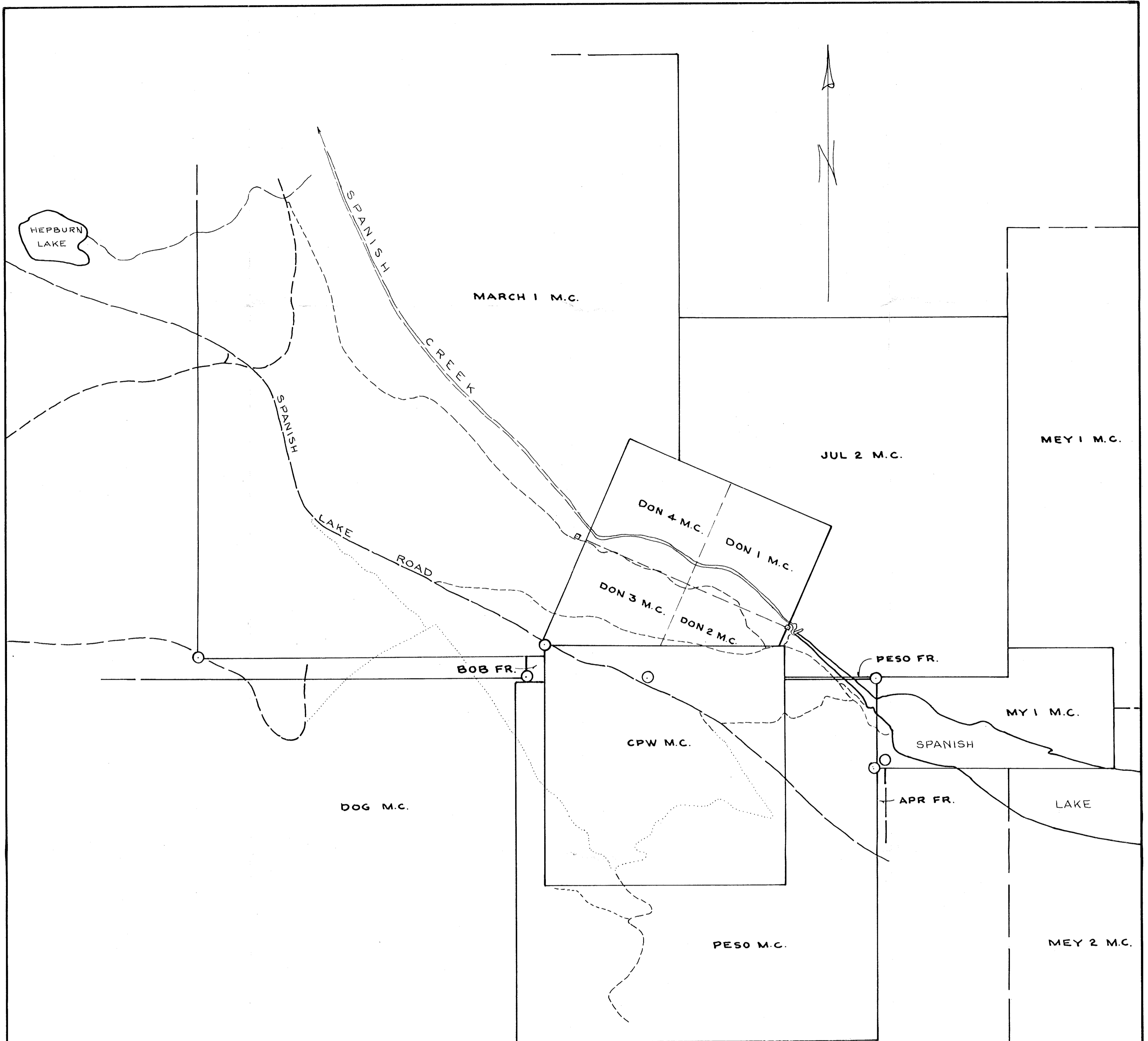
SAMPLE NO.	FROM	TO	LENGTH	WET / DRY	Ag PPM	Au Fire PPB		
15-20			5'	D	4.8	1120		
20-25			5'	D	1.3	320		
25-30			5'	D	0.7	72		
30-35			5'	D	0.5	40		
35-40			5'	D	0.8	16		
40-45			5'	D	0.7	10		
45-50			5'	D	0.8	11		
50-55			5'	D	1.0	39		
55-60			5'	D	0.9	15		
60-65			5'	D	0.9	8		
65-70			5'	D	0.7	23		
70-75			5'	D	0.7	7		
75-80			5'	D	0.9	6		
80-85			5'	D	0.8	5		
85-90			5'	D	1.2	22		
90-95			5'	D	1.0	3		
95-100			5'	D	0.7	8		
100-105			5'	D	0.8	10		
105-108			5'	D	0.9	9		
108-115			5'	W	0.9	4		
115-120			5'	W	0.6	8		
120-125			5'	W	1.2	8		
125-130			5'	W	0.4	9		
130-135			5'	W	0.7	5		
135-140			5'	W	0.7	6		
140-145			5'	W	0.5	3		
145-150			5'	W	0.5	7		
150-155			5'	W	0.5	5		
155-160			5'	W	0.6	2		
160-165			5'	W	0.7	34		
165-170			5'	W	0.9	11		
170-175			5'	W	0.9	9		
175-180			5'	W	0.8	5		
180-185			5'	W	1.0	8		
185-190			5'	W	1.0	3		
190-195			5'	W	0.8	2		

195-200  
ASSAY REPT: 67955/P1  
Mih-En

5' W  
DATE: Oct. 22/86

1.0  
HOLE No: 4  
PH86-14

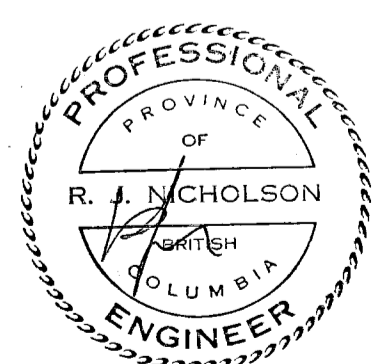
PAGE 1 of 1



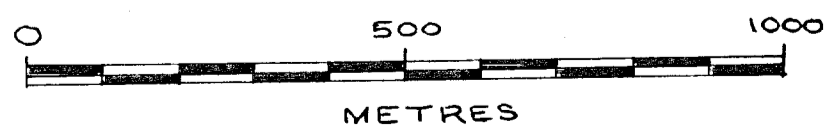
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,880

CAT M.C.



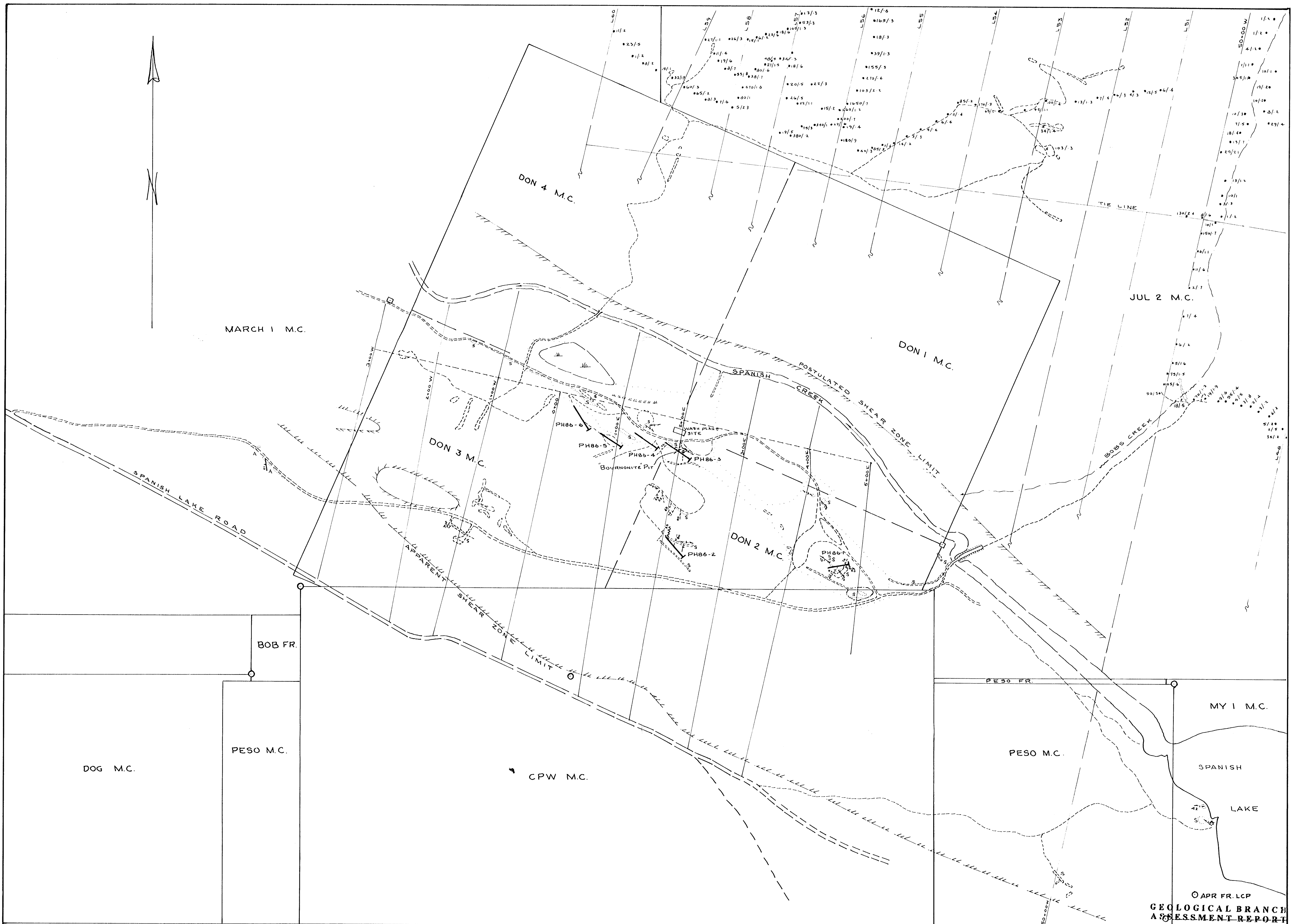
- LEGEND
- PRIMARY ACCESS ROAD; SECONDARY
  - BUSH ROAD; APPROXIMATE
  - LEGAL CORNER POST
  - INITIAL & FINAL POST, 2-POST CLAIM
  - CLAIM BOUNDARY, 2-POST INTERNAL



To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

MANDUSA RESOURCES LTD.				
SPANISH MOUNTAIN PROPERTY ACCESS				
DRAWN BY	NTS	DATE	SCALE	PLATENO.
RJN	93A11	NOV. 1986	1:10000	1



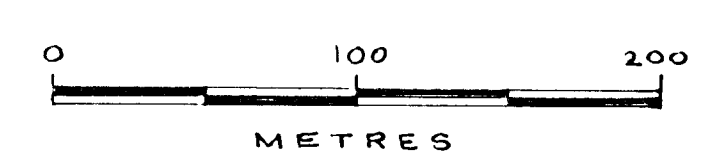
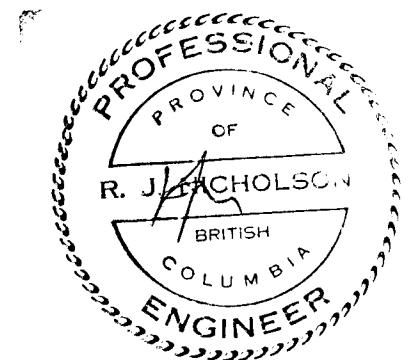


**LEGEND**

- ACCESS ROAD; BUSH OR SKID ROAD, APPROX.
- LEGAL CORNER POST; INITIAL OR FINAL CLAIM POST
- CLAIM BOUNDARY; 2-POST INTERNAL
- PICKET LINE; BASE LINE
- OLD DAM
- DEPRESSED AREA
- PLACER EXCAVATION
- UN-TREED AREA
- OUTCROP
- TRENCH, MOSTLY TO BEDROCK
- BEDDING, INCLINED
- SCHISTOCITY, INCLINED; VERTICAL
- THRUST FAULTING; INCLINED
- QUARTZ VEIN, INCLINED; VERTICAL
- ARGILLITE; GRAPHITIC SCHIST
- PH86-1 PERCUSSION DRILL HOLE, INCLINED

**ASSAY EXTENSION RE: PLATE 4**

- LACANA FLAGGED GRID - APPROXIMATE
- 35/12 SOIL SAMPLE - ppbAu/ppmAg
- 47/21 TRENCH SAMPLE - ppbAu/ppmAg



O APR FR. LCP  
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

**15,880**

To accompany report by R.J. Nicholson, BA Sc. P.Eng.

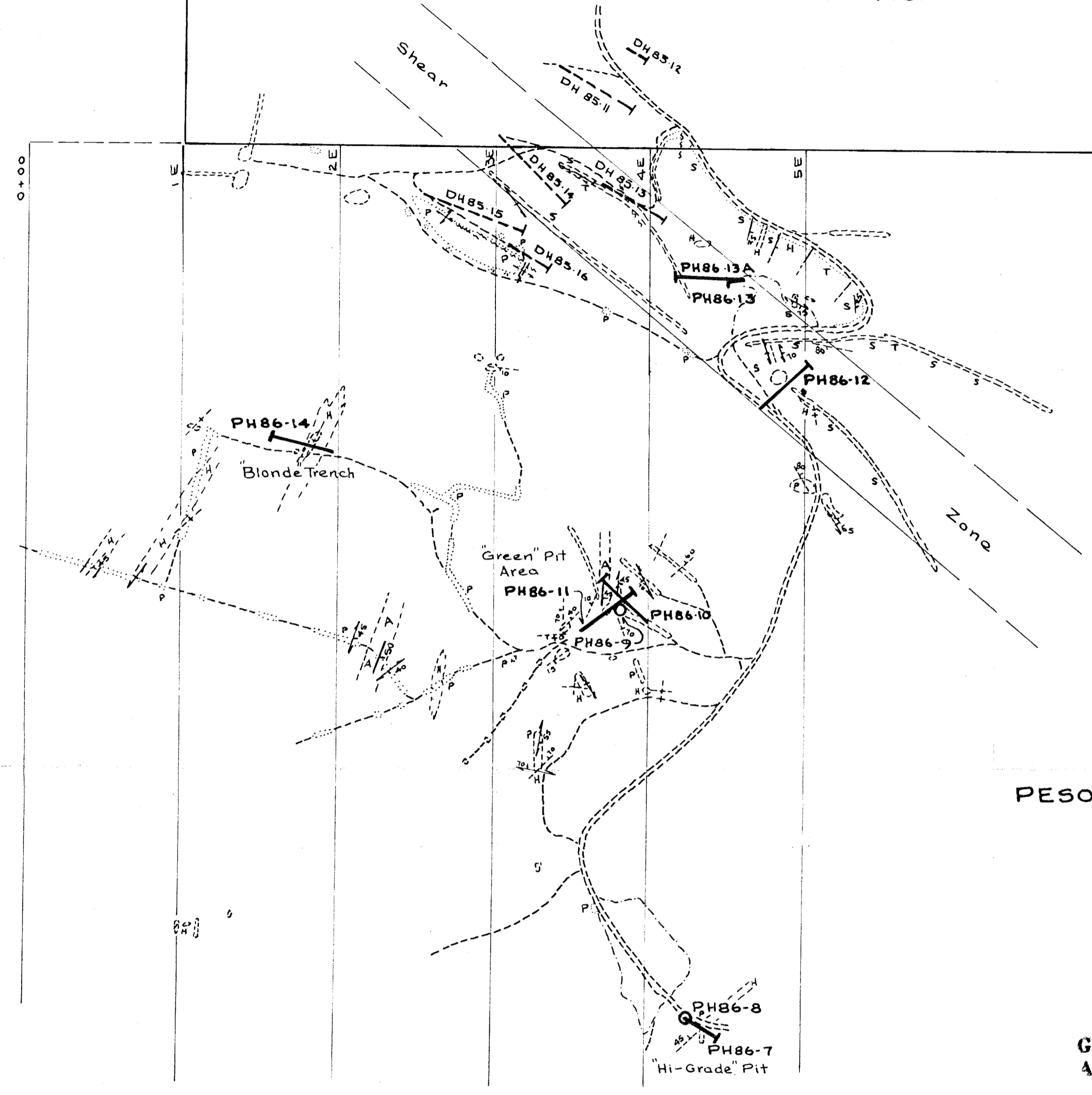
**MANDUSA RESOURCES LTD.**

**SPANISH MOUNTAIN PROPERTY  
GEOLOGY - DON AREA**

DRAWN BY RJN	NTS 93A11	DATE NOV. 1986	SCALE 1:2500	PLATE NO 2
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CPW M.C.



DOG M.C.

PESO M.C.

CAT M.C.

LEGEND

- CLAIM BOUNDARY
- ACCESS ROAD; BUSH ROAD
- LOG LANDING
- HISTORIC CABIN
- PICKET LINE; BASE LINE
- OUTCROP
- TRENCH
- BEDDING, INCLINED
- SCHISTOCITY, INCLINED; VERTICAL; HORIZONTAL
- QUARTZ VEIN, INCLINED; VERTICAL; HORIZONTAL
- MINOR SHEAR, VERTICAL
- ARGILLITE, LAMELLAR
- PHYLLITE, NODULAR
- ASH FALL TUFF
- GRAPHITIC SCHIST, BLACK SHALE
- ALTERATION HALO
- PERCUSSION DRILL HOLE, VERTICAL; INCLINED (1986)
- DIAMOND DRILL HOLE, INCLINED (1985)
- GEOLOGICAL CONTACT, APPROXIMATE

GEOLOGICAL BRANCH ASSESSMENT REPORT

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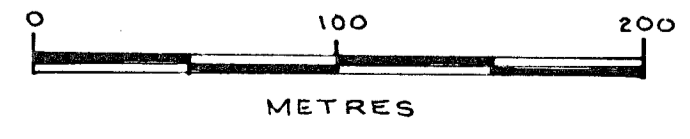


To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

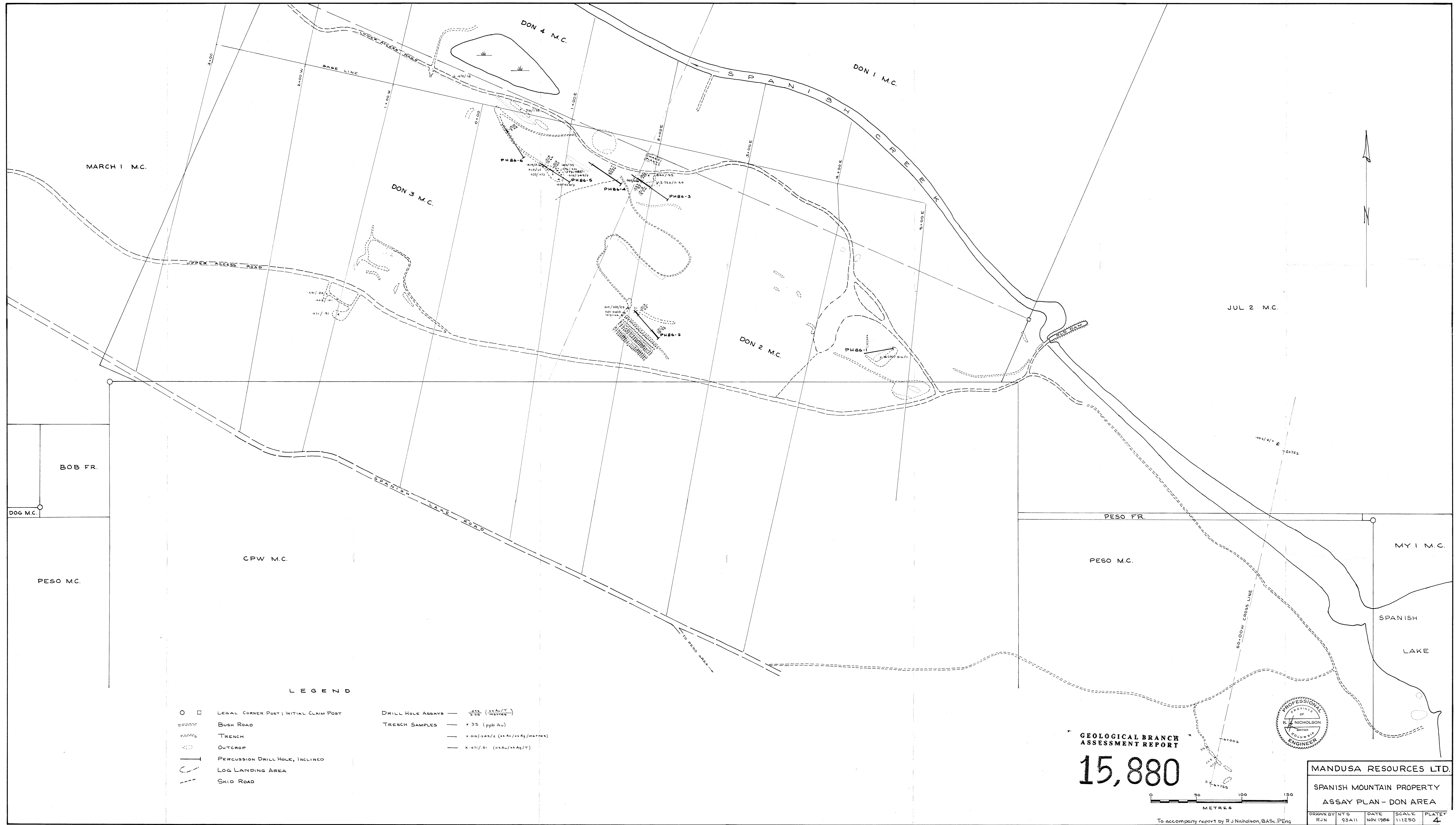
MANDUSA RESOURCES LTD.

SPANISH MOUNTAIN PROPERTY

GEOLOGY - PESO AREA



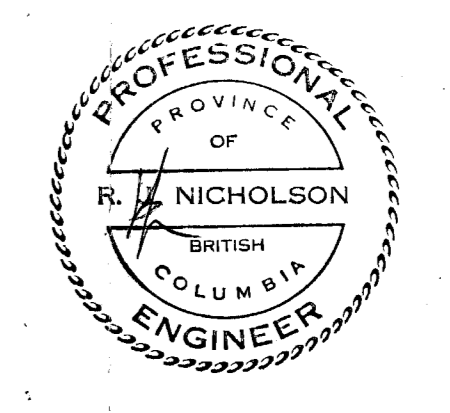
DRAWN BY RJN	NTS 93A11	DATE NOV. 1986	SCALE 1:2500	PLATE NO 3
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LEGEND

- |       |                                       |                                  |                   |
|-------|---------------------------------------|----------------------------------|-------------------|
| ○ □   | LEGAL CORNER POST; INITIAL CLAIM POST | — $\frac{0.25}{0.25}$ (0.25Au/t) | DRILL HOLE ASSAYS |
| — — — | BUSH ROAD                             | — x .33 (ppb Au)                 | TRENCH SAMPLES    |
| — — — | TRENCH                                | — x .010/.245/2 (0.245Au/0.245m) |                   |
| ○ ○ ○ | OUTCROP                               | — x .071/.51 (0.245Au/0.245m)    |                   |
| —   — | PERCUSSION DRILL HOLE, INCLINED       |                                  |                   |
| — — — | LOG LANDING AREA                      |                                  |                   |
| — — — | SKID ROAD                             |                                  |                   |

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**15,880**



MANDUSA RESOURCES LTD.

SPANISH MOUNTAIN PROPERTY  
ASSAY PLAN - DON AREA

DRAWN BY	NTS	DATE	SCALE	PLATE
RUN	93A11	NOV 1986	1:1250	4

To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

CPW M.C.

BASE LINE

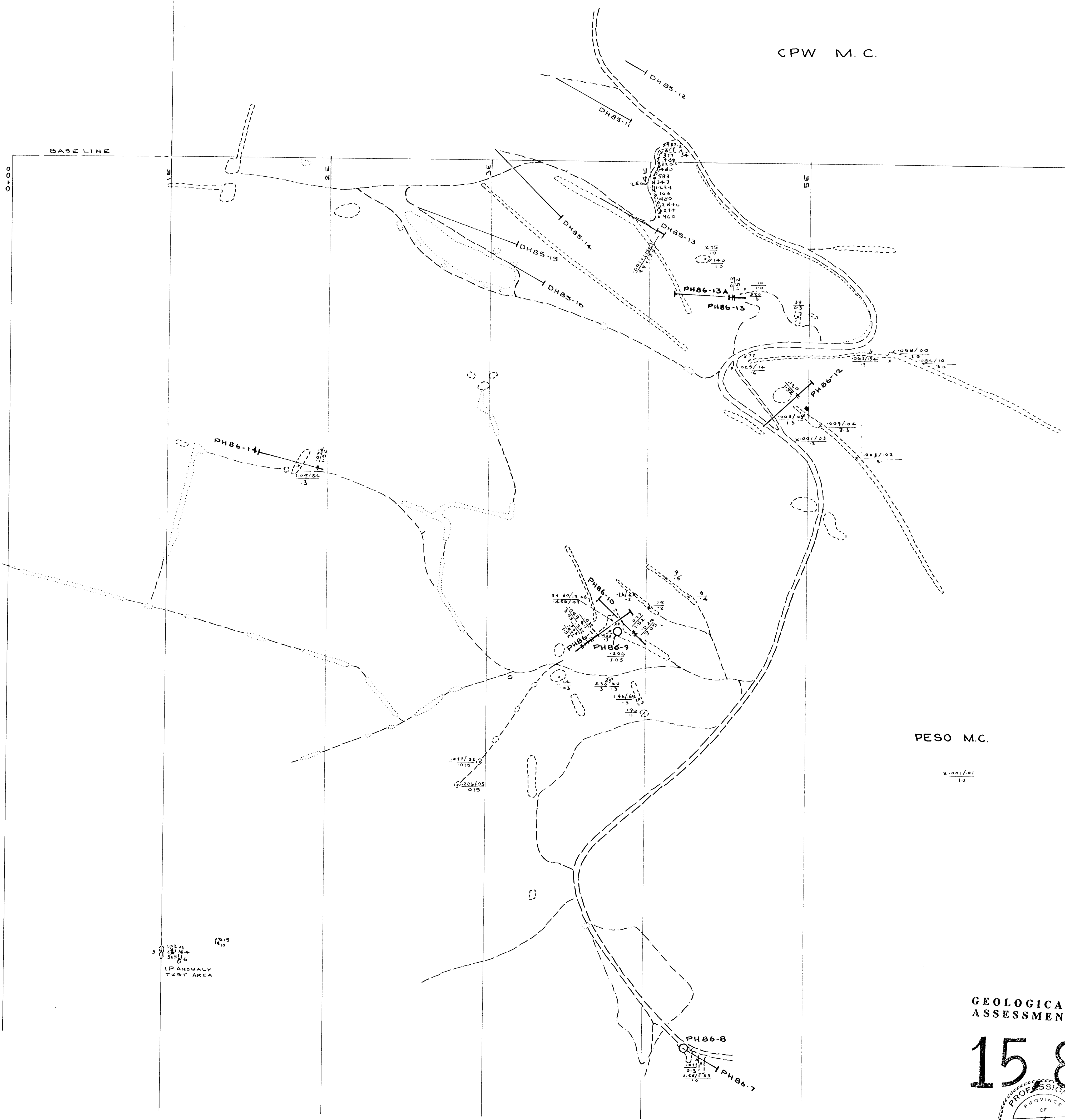
0+00

1E

2E

3E

5E



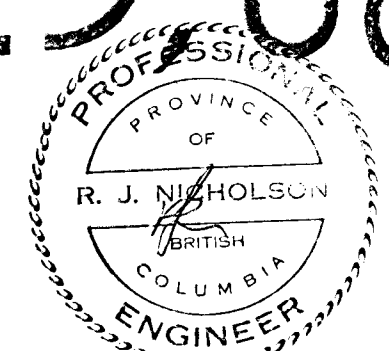
PESO M.C.

x 0.01/01  
10

1927  
1928  
1929  
1930  
IP ANOMALY  
TEST AREA

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

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LEGEND

- ACCESS ROAD; BUSH ROAD
- TRENCH; OUTCROP
- LOG LANDING AREA
- HISTORIC CABIN
- 1985 DIAMOND DRILL HOLE (APPROX)
- 1986 PERCUSSION DRILL HOLE
- DRILL HOLE ASSAYS —  $\frac{0.12}{3.03}$  ( $\frac{oz Au}{T}$ )
- TRENCH SAMPLES — x 3 (ppb Au)
- x  $\frac{14}{3}$  ( $\frac{ppb Au}{m^2 \times 723}$ )
- x  $\frac{241}{3}$  ( $\frac{oz Au}{oz Ag/T}$ )



To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

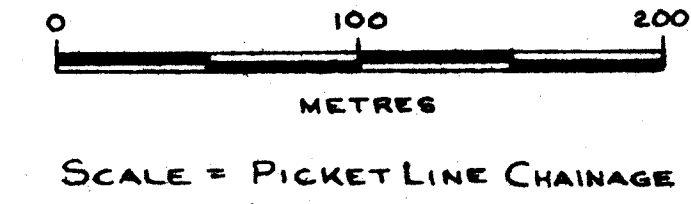
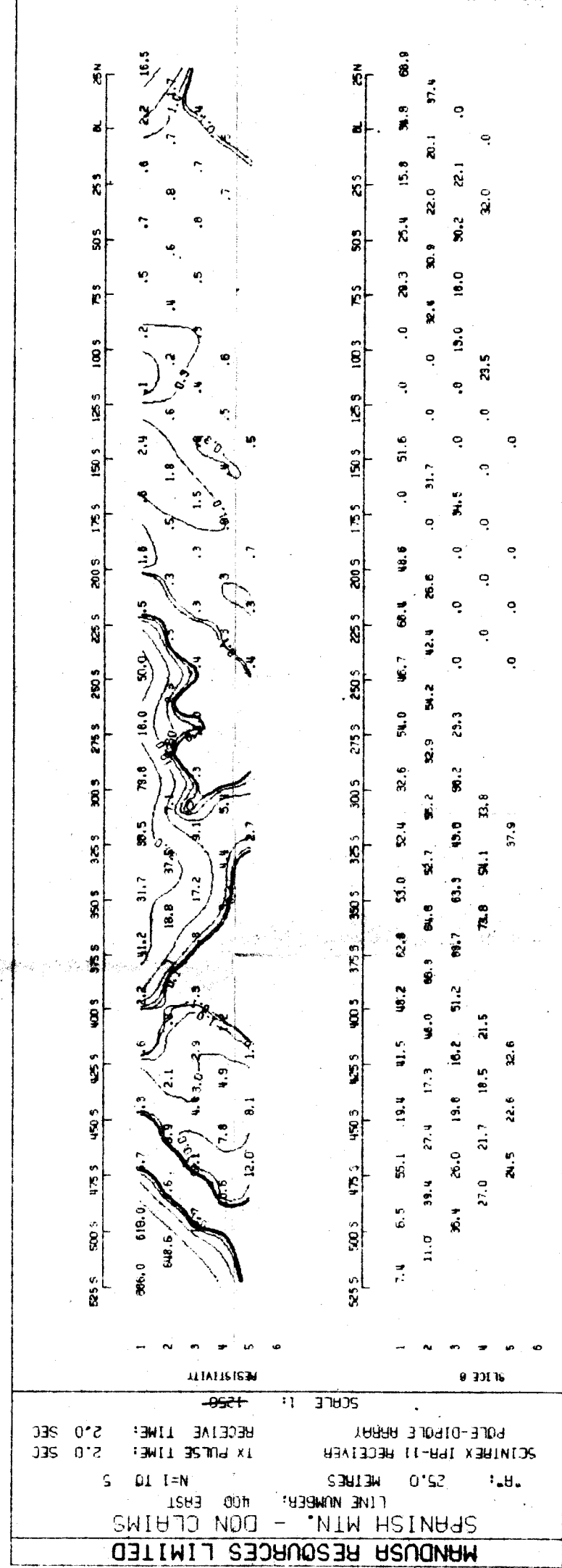
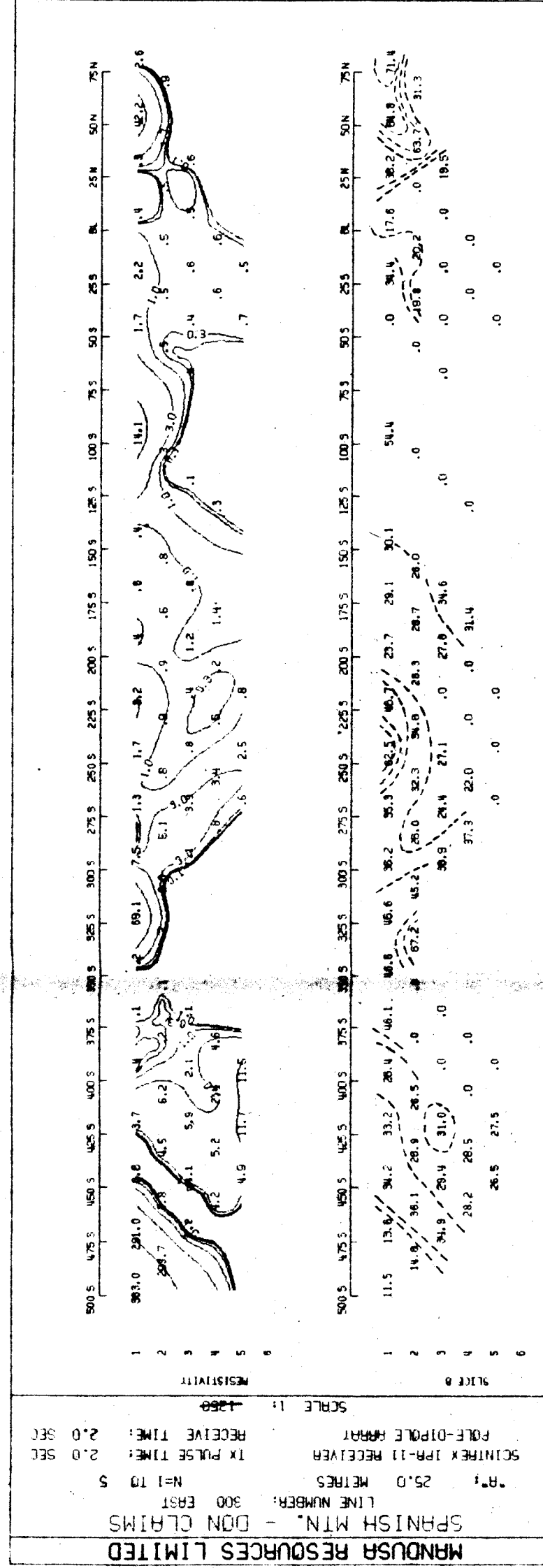
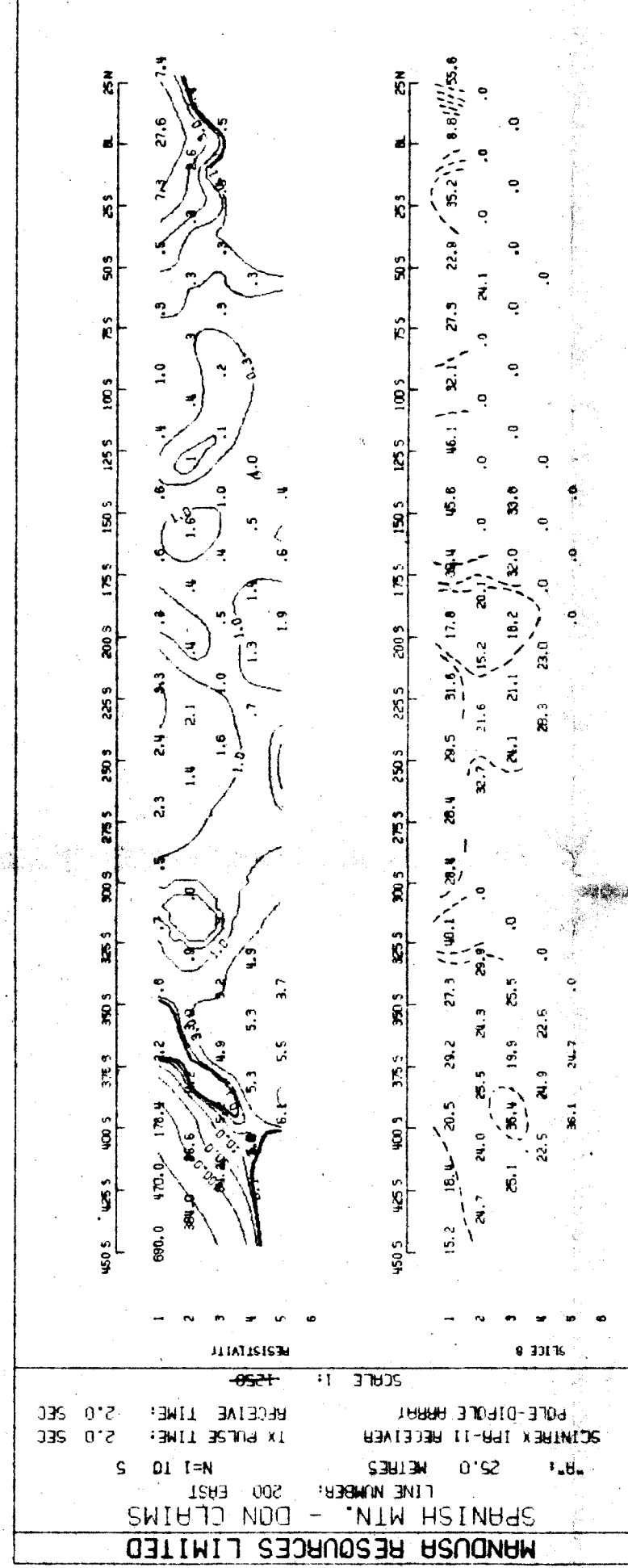
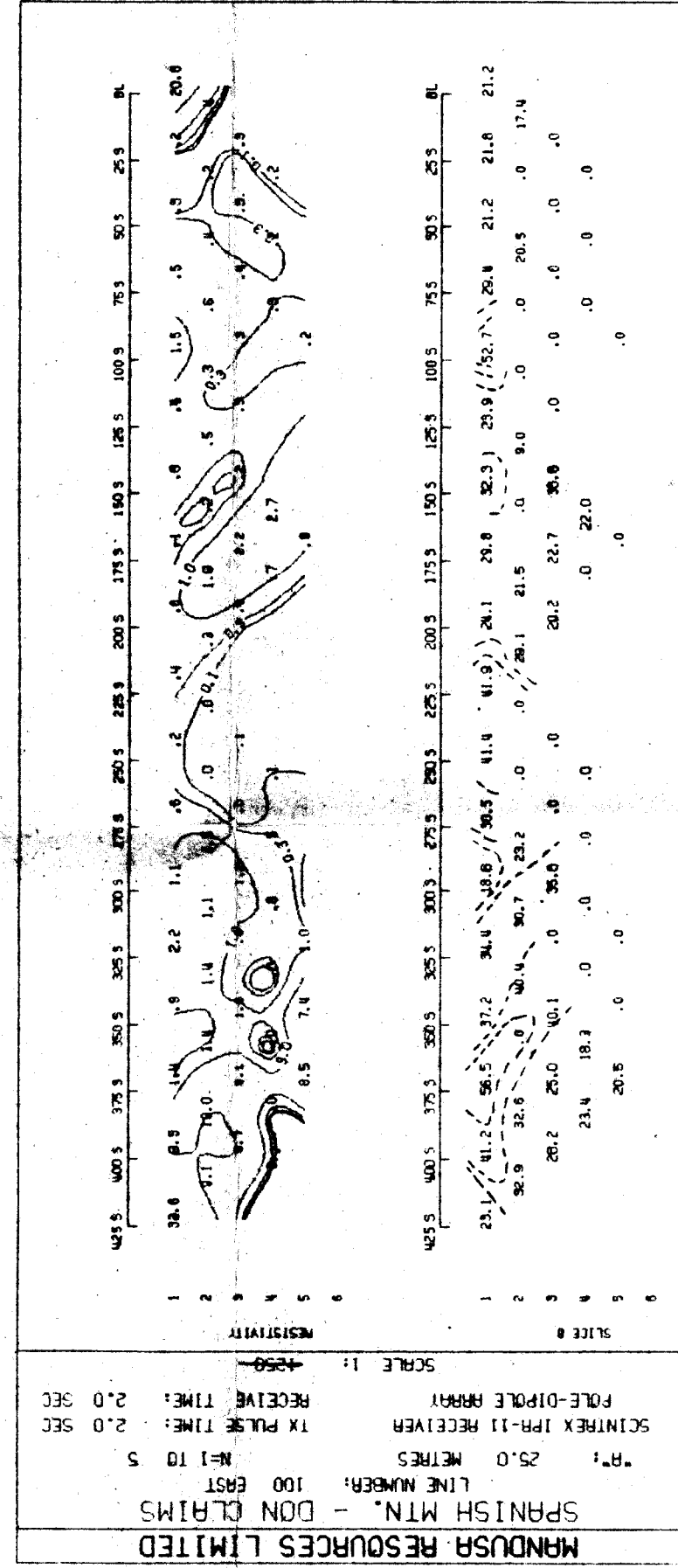
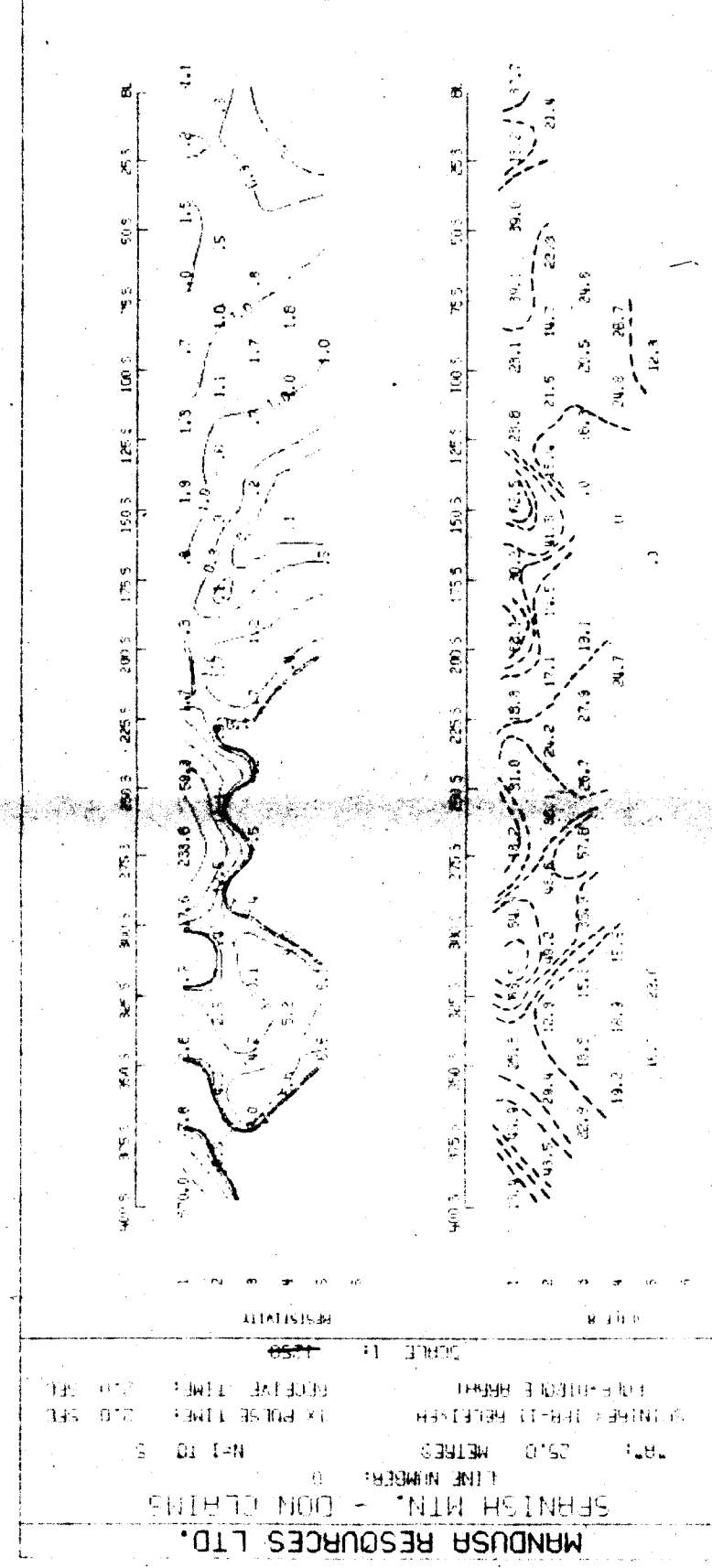
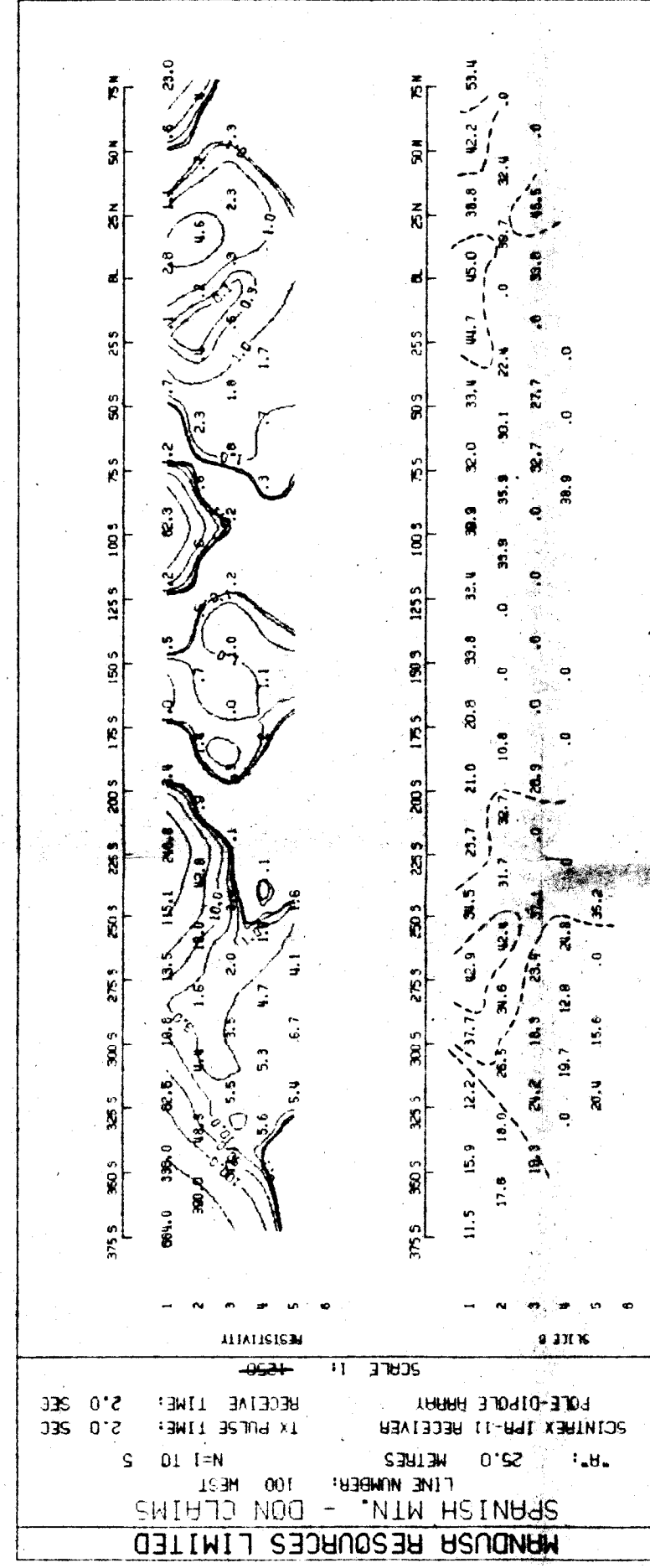
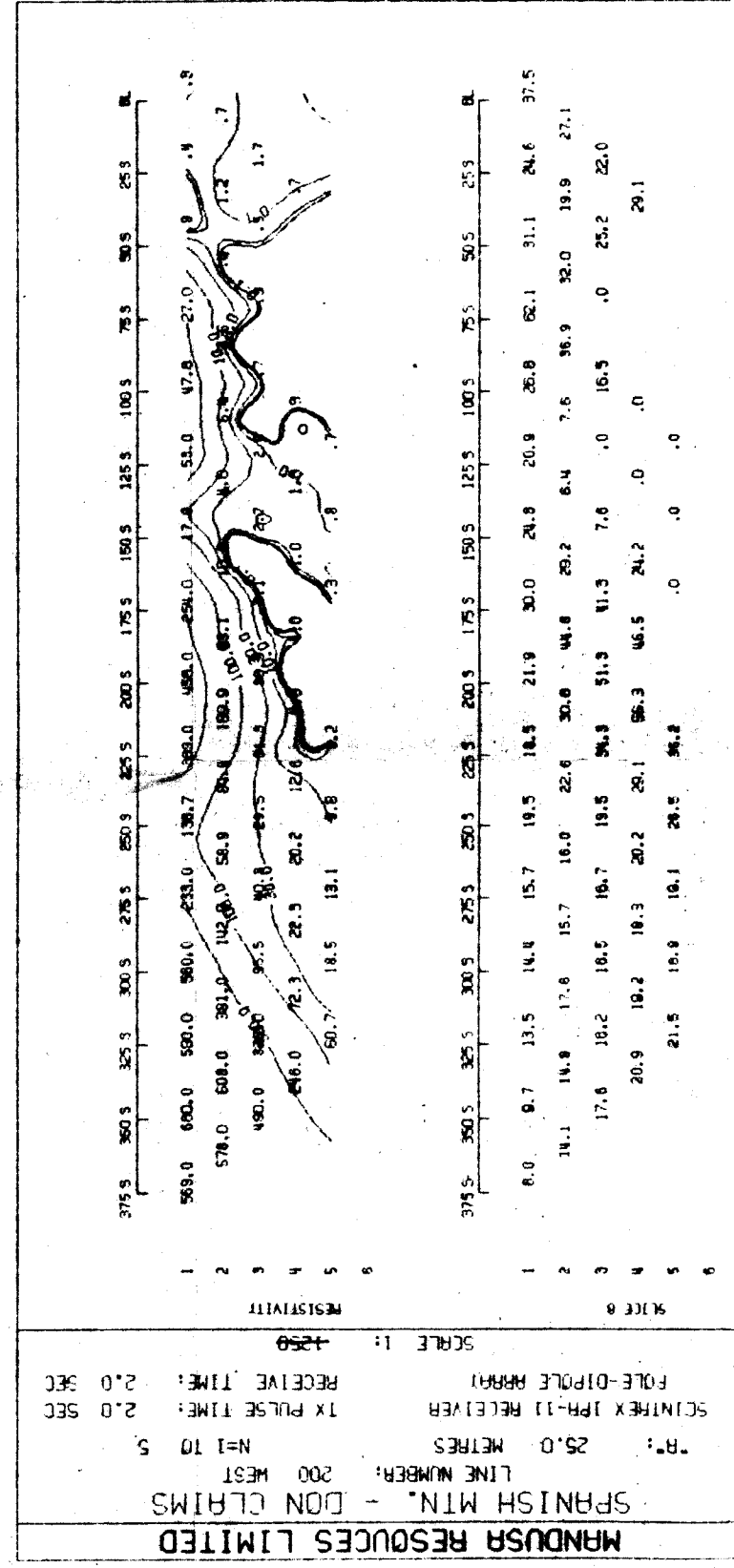
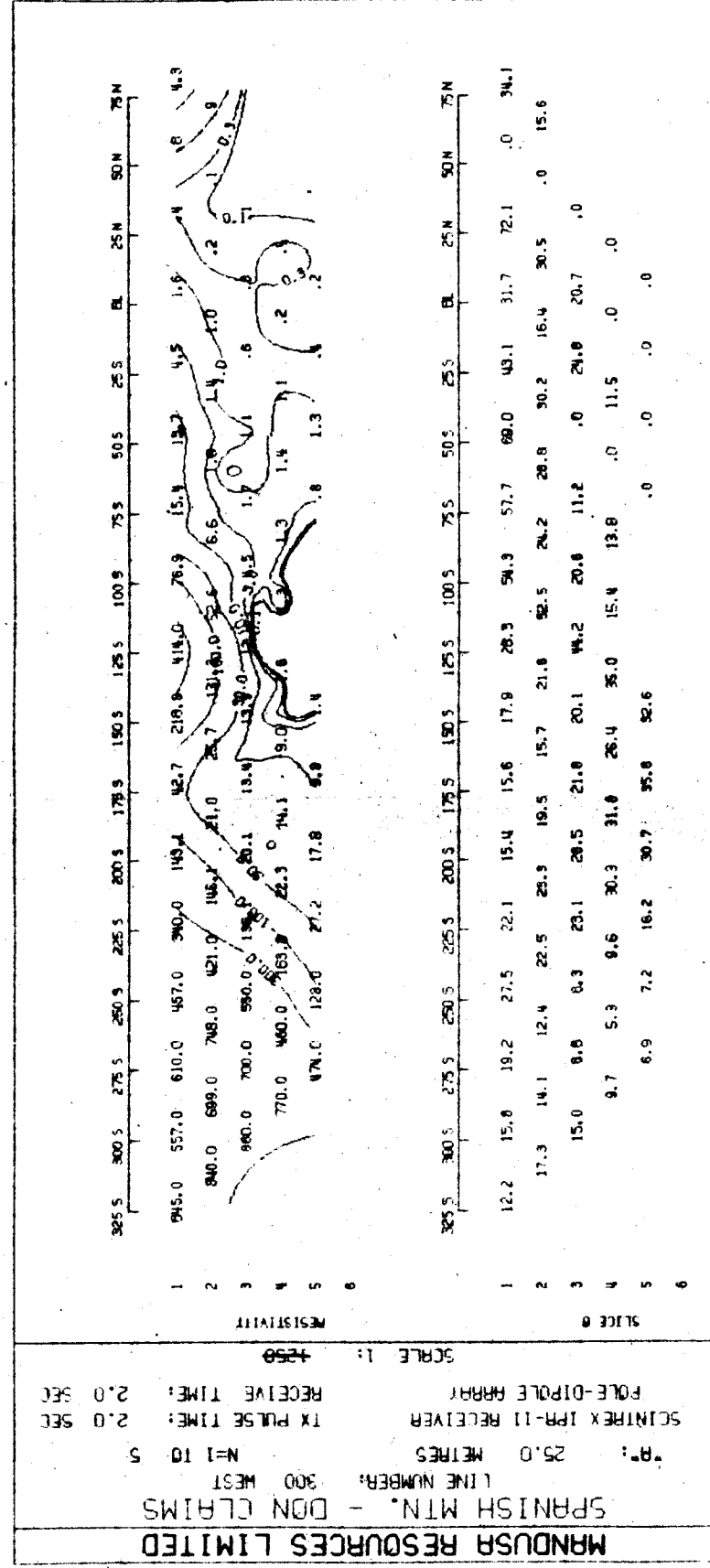
DOG M.C.

CAT M.C.

MANDUSA RESOURCES LTD.

SPANISH MOUNTAIN PROPERTY  
ASSAY PLAN - PESO AREA

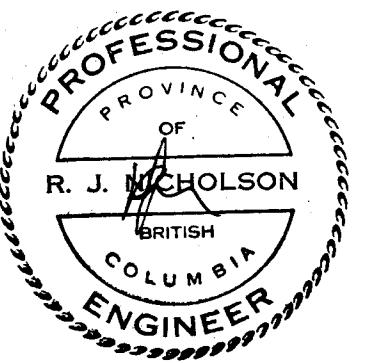
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RJN	93A11	NOV 1986	1:1250	5



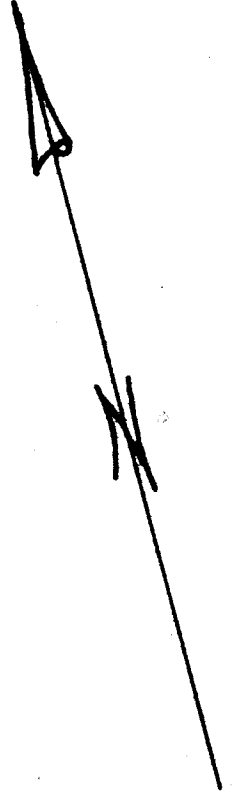
MANDUSA RESOURCES LTD.				
SPANISH MOUNTAIN PROPERTY				
IP SECTIONS - DON CLAIMS				
DRAWN BY: R/JN	N.T.S.: 93A11	DATE: JAN 27/87	SCALE: 1:2500	PLATE NO.: 6

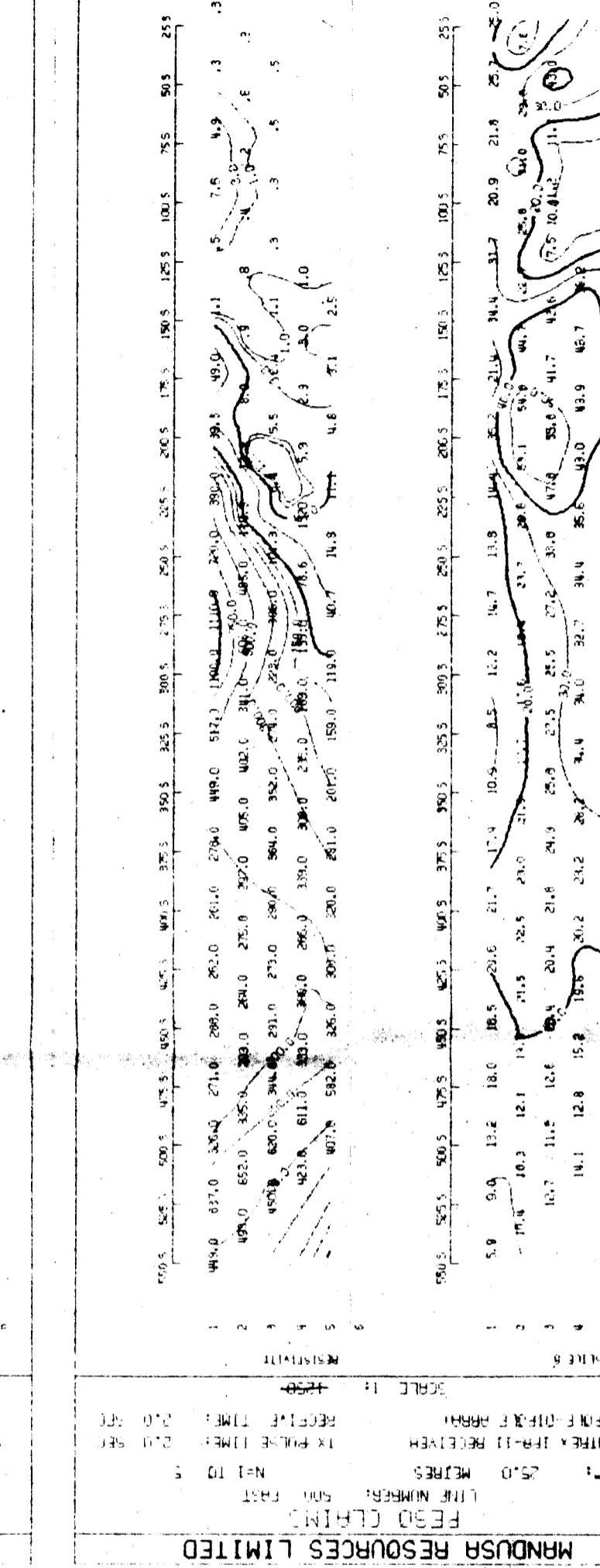
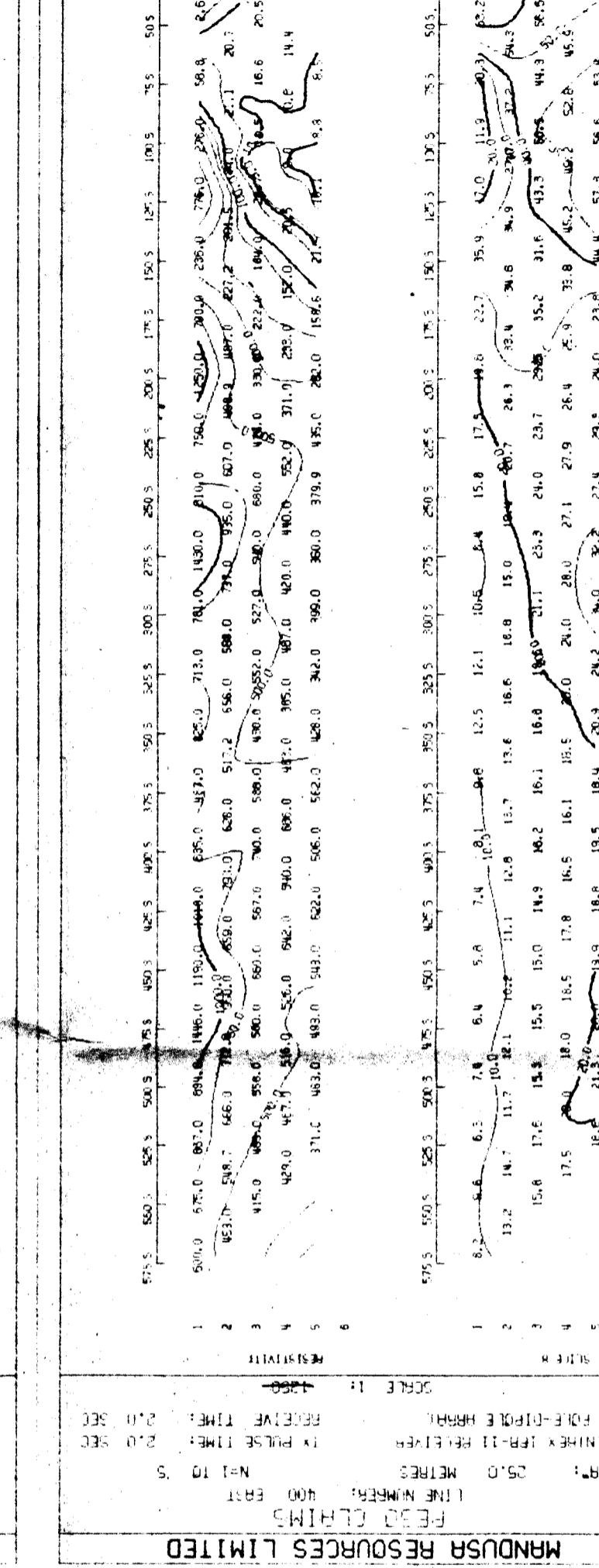
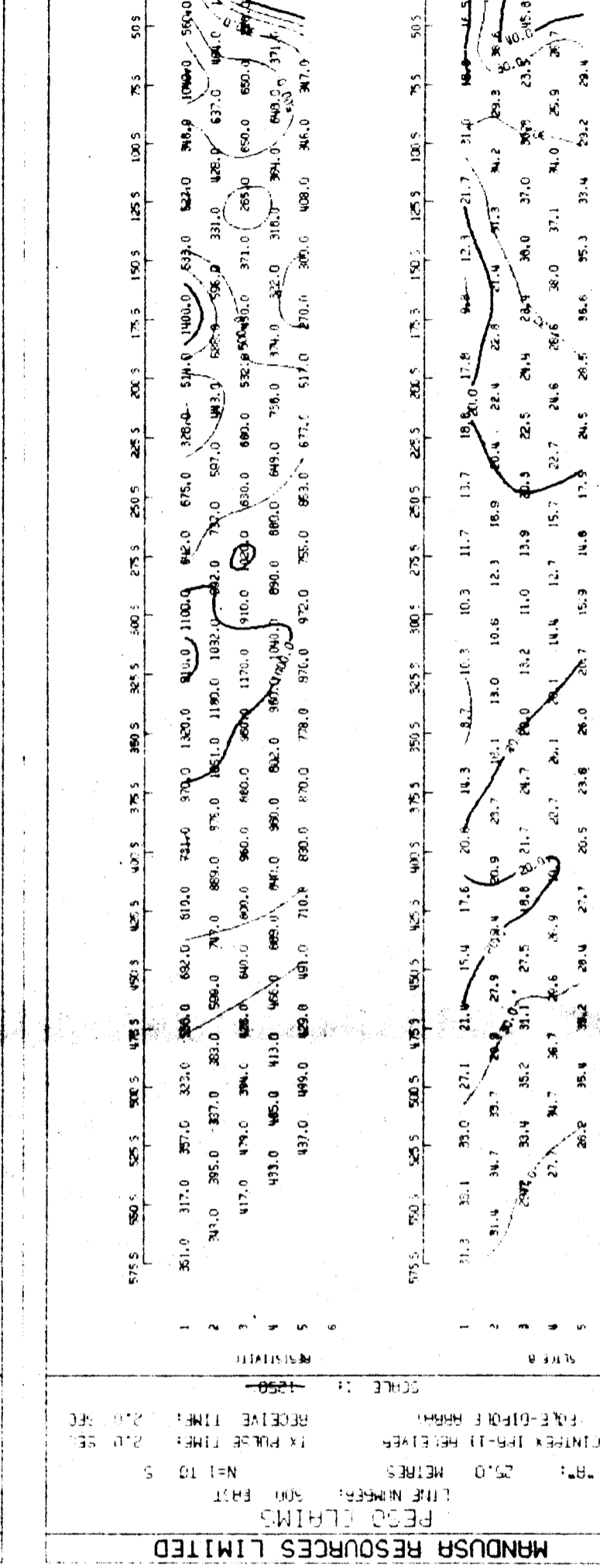
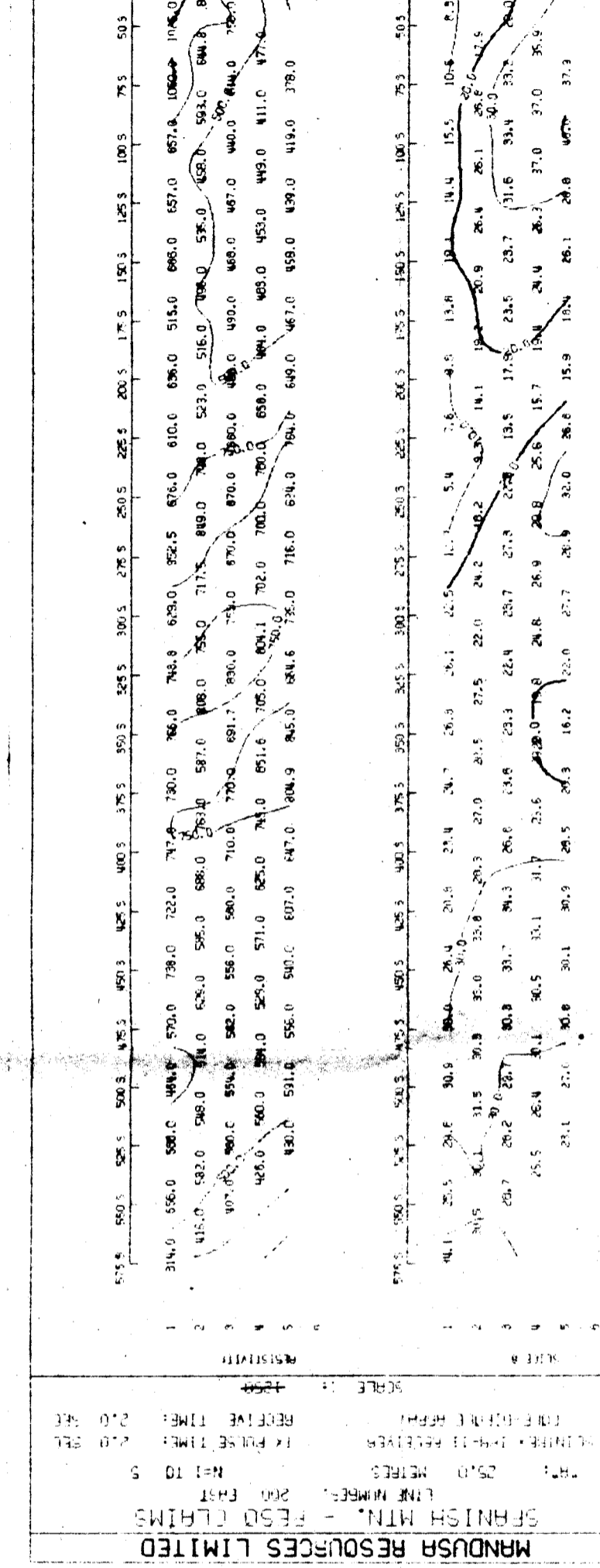
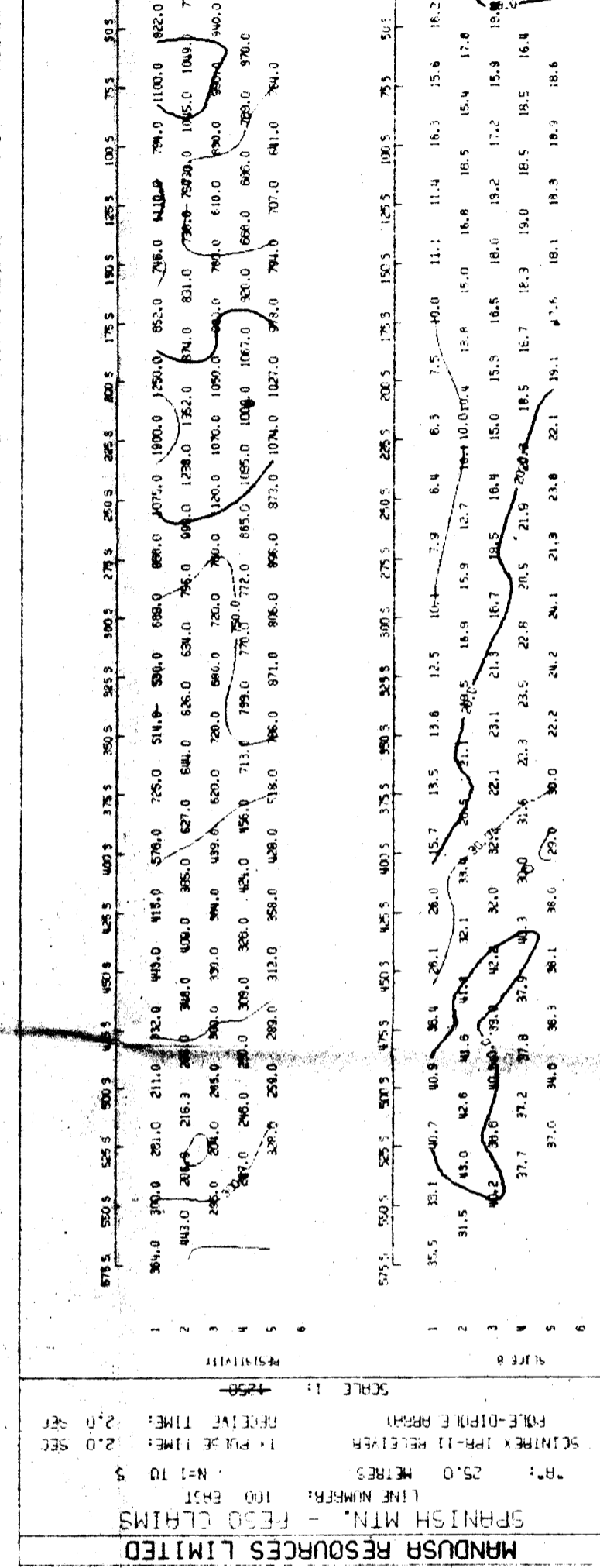
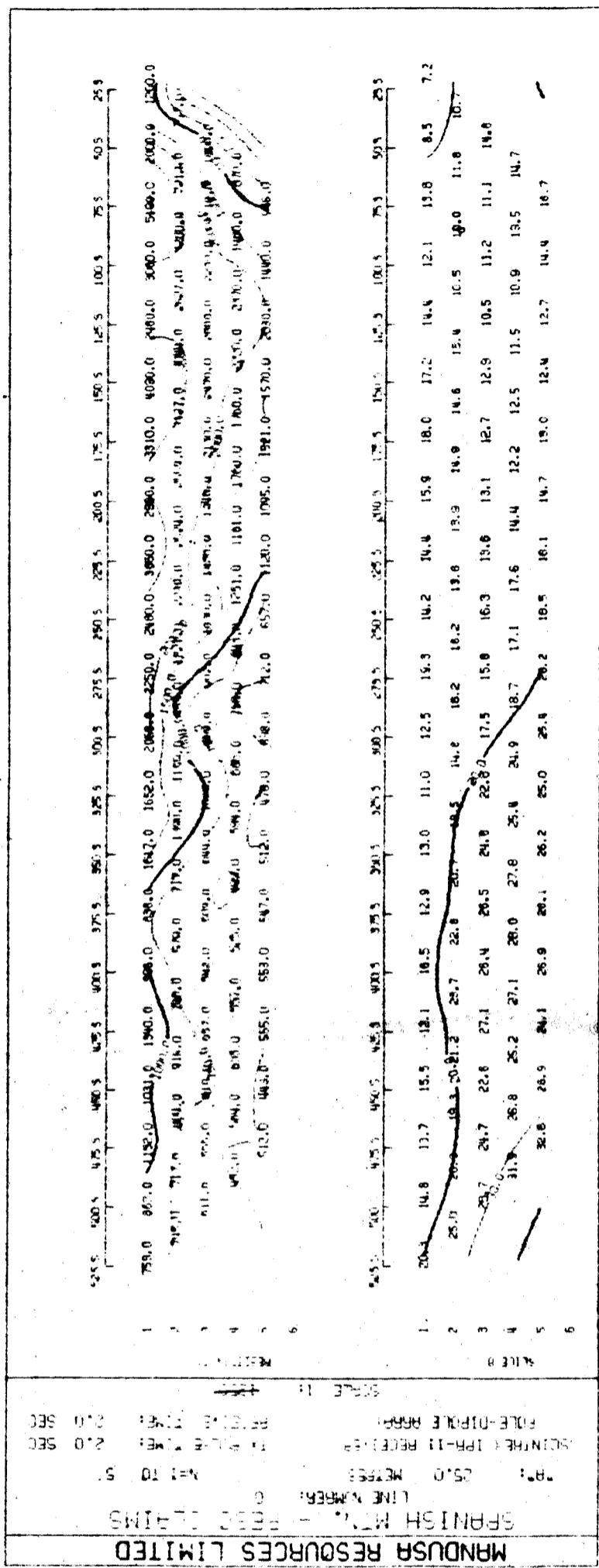
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,880



To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.





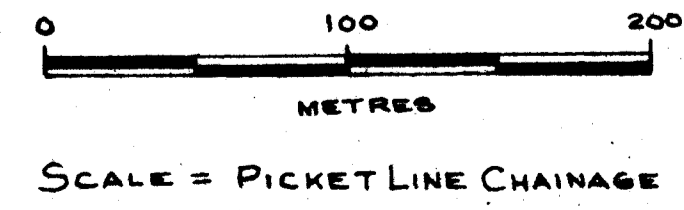
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

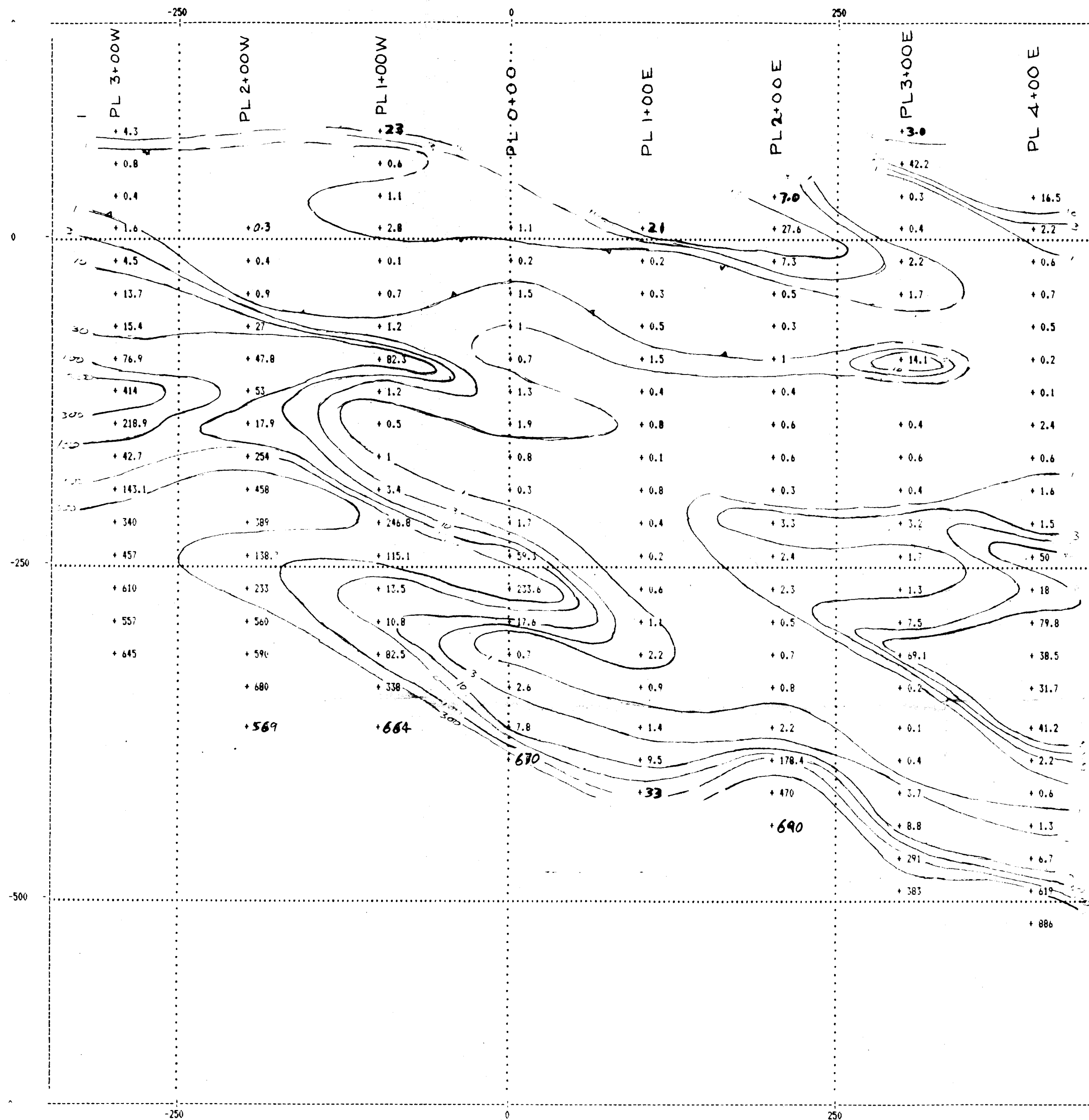
15,880



To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

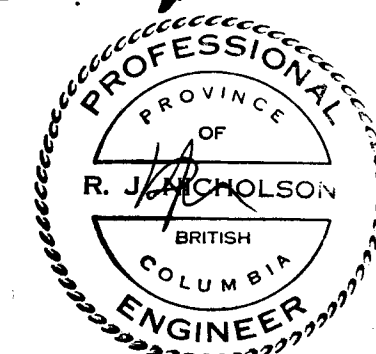
MANDUSA RESOURCES LTD.			
SPANISH MOUNTAIN PROPERTY			
IP SECTIONS - PESO CLAIM			
DRAWN BY RJM	N.T.S.: 93A11	DATE: JAN 27/87	SCALE: 1:2500
			PLATE NO: 7





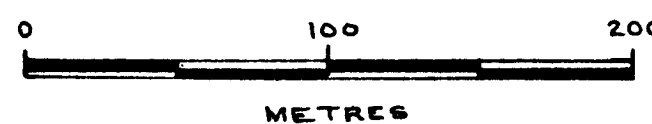
**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**15,880**



To accompany report by R.J.Nicholson, B.A.Sc., P.Eng.

MANDUSA RESOURCES LIMITED  
DON CLAIMS  
INDUCED POLARIZATION SURVEY  
Array: Pole-dipole CI pos: N Dir: S A= 25  
Field: RES. Sep: 1  
DATE: Sept. 10, 1986  
Scale 1:2500 User: Alan Scott

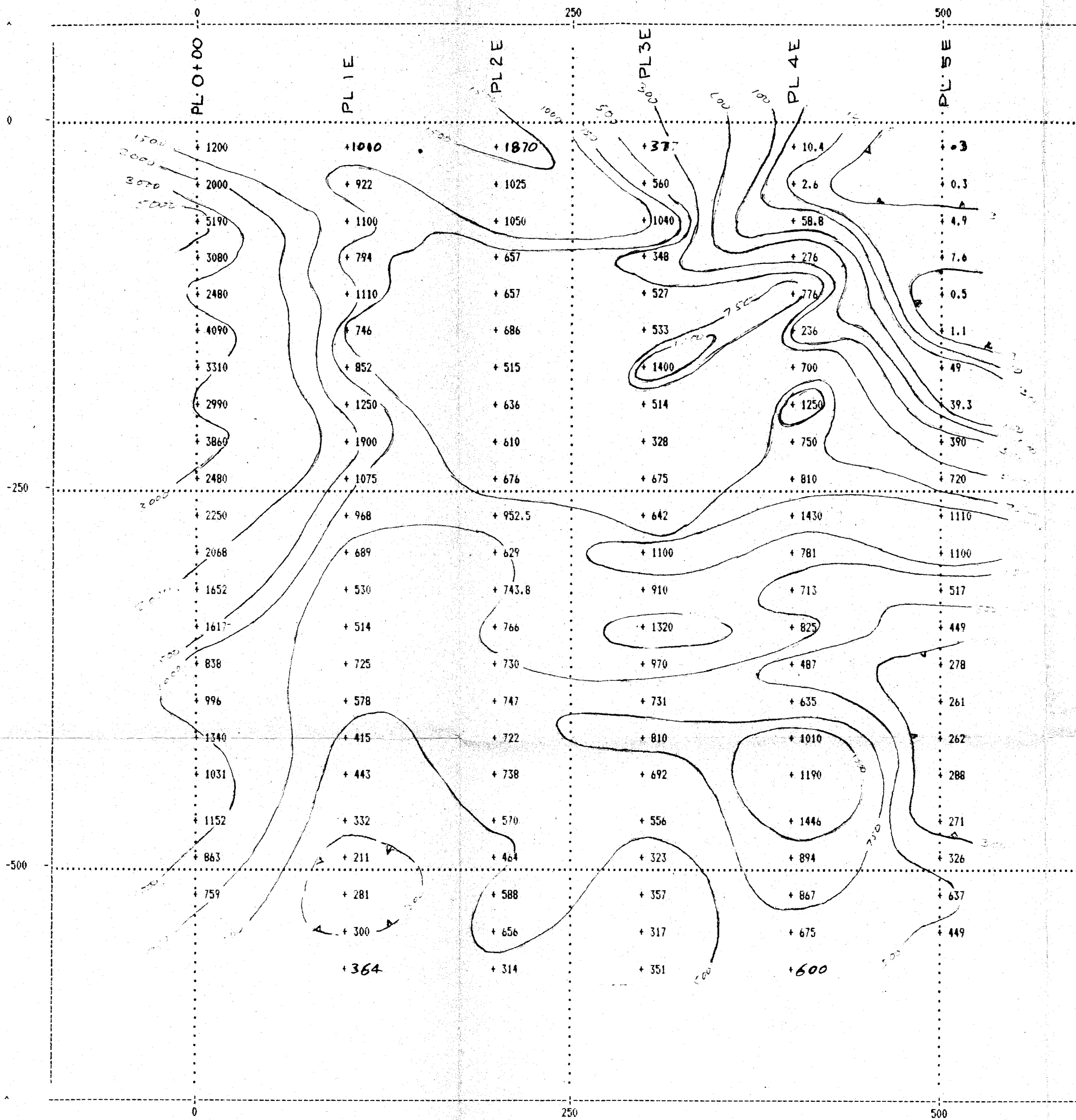


**MANDUSA RESOURCES LTD.**

**SPANISH MOUNTAIN PROPERTY**

**IP RESISTIVITY - DON CLAIMS**

DRAWN BY: RJN	N.T.S. 93A11	DATE: JAN 27/87	SCALE: 1:2500	PLATE NO. 8
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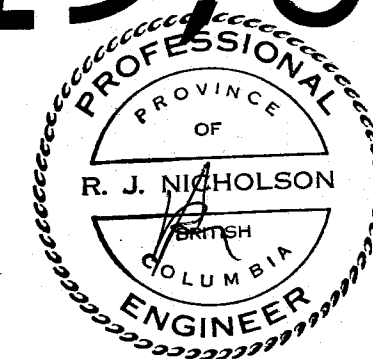
MANDUSA RESOURCES LIMITED  
PESO CLAIMS

INDUCED POLARIZATION SURVEY  
Array: Pole-dipole CI pos: N Dir: S A= 25  
Field: RES. Sep: 1  
DATE: Sept. 10, 1986  
User: Alan Scott  
Scale 1:2500



GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,880



To accompany report by R.J. Nicholson, B.A.Sc., P.Eng.

MANDUSA RESOURCES LTD.

SPANISH MOUNTAIN PROPERTY  
IP RESISTIVITY - PESO CLAIM

DRAWN BY:	N.T.S.:	DATE:	SCALE:	PLATE NO.:
RJN	93A11	JAN 27/87	1:2500	9