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A SUMMARY OF GEOLOGICAL AND GEOPHYSICAL SURVEYS AND GEOCHEMICAL SAMPLING COMPLETED ON THE

EXPO 7 AND 8

MINERAL CLAIMS

1.(1.5.5)

VERNON MINING DIVISION

NTS 82L/4E

50°12' North Latitude

119°33' West Longitude

Prepared for

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PACIFIC NORTHWEST RESOURCES INC.

Prepared by

David Hassell, P. Geol.



January, 1989

| Summary | | | 0 |
|---------|----------|-----------------------------------|------------|
| 1.0 | Introduc | ction | 1 |
| 2.0 | Location | n and Access | 1 |
| 3.0 | Property | y and Ownership | 2 |
| 4.0 | Physiog | raphy and Vegetation | 2 |
| 5.0 | Regional | l Exploration History | 3 |
| 6.0 | Regional | l Geology | 5 / |
| 7.0 | Regional | l Geochemistry | 6 |
| 8.0 | Program | Results | 7 |
| | 8.1 | Introduction - Previous Work | 7 |
| | 8.2 | Prospecting and Sampling Programs | 7 |
| | 8.3 | Reconnaissance Claim Geology and | |
| | | Mineralization | 9 7 |
| | 8.4 | Geophysical Surveys | 12 |
| | | 8.4.1 Introduction | 12 |
| | | 8.4.2 Self Potential (S.P.) | 13 |
| | | 8.4.3 VLF-EM | 13/ |
| 9.0 | Conclusi | ions | 14 |
| 10.0 | Recommer | ndations | 15, |
| | Expendit | ture Statement | |
| | Bibliog | raphy | |
| | Statemer | nt of Qualifications 🥠 | |

List of Appendices

| Appendix | 1 | | Samp | le | Descri | ipt | io | ns ai | nd Ass | say Res | sults |
|----------|---|----------|------|----|--------|-----|------|-------|--------|-----------------|----------|
| Appendix | 2 | <i>.</i> | Map | 1 | Clair | n G | irou | up Ge | eology | / and | 1 |
| | | 2 | | | Geoch | nem | ist | try | (1987 | Progra | am) |
| | | / | Мар | 2 | Expo | 7 | - (| Geolo | ogy ar | nd Samp | ole |
| | | 2 | | | Locat | io | ns | (19) | 88 Pro | ogram) | |
| | | | Мар | 3 | Expo | 8 | - (| Geolo | ogy ar | nd Sam <u>r</u> | ole |
| | | · | | | Locat | io | ns | (198 | 88 Pro | ogram) | |
| | | 1 | Map | 4 | Expo | 7 | - 5 | 5.P. | Test | (1988 | Program) |
| | | | Map | 5 | Expo | 8 | - 5 | S.P. | Test | (1988 | Program) |
| Appendix | 3 | | Self | Po | tentia | 1 | Dat | ta . | / | | |

List of Figures

| Figure | 1 | Property Location Map | After | Page | 1 , |
|--------|---|-----------------------|-------|------|-----|
| Figure | 2 | Claim Map | After | Page | ı, |
| Figure | 3 | Regional Geology | After | Page | 5 |

Summary

The Expo 7 and 8 mineral claims, located west of Okanagan Lake in south-central British Columbia, were staked in the summer of 1986 as part of a set of fifteen claims covered by nine non-contiguous claim groups. The claims were acquired on the basis of anomalous gold values received from a reconnaissance silt sampling survey conducted by Pamicon Developments Ltd. and are held 100% by Pacific Northwest Resources Inc.

Although no information exists to show that previous work has been performed on ground covered by the Expo claims, the area west of Okanagan Lake has been subjected to intermittent exploration activity dating back to the late nineteenth century, when placer gold was first discovered on Whiteman and Bouleau Creeks.

Most recently, Huntington Resources Inc. and Brican Resources Ltd. acquired, and are actively exploring, adjacent properties covering an epithermal vein and shear prospect located approximately five kilometres west of Expo 8. Exploration drilling by Huntington during 1987 and 1988 has produced several high grade intersections with the most spectacular being a 235 foot interval averaging 2.03 oz/ton gold.

Releases describing the results of the 1987 and 1988 programs on the Huntington property led to substantial additional staking in the area, however, the Pacific Northwest land position, through the acquisition of the Expo claims, had already been well established.

The majority of the Expo claims are underlain by Kamloops Group volcanic flows and interbedded sedimentary rocks. Lower Paleozoic Thompson Assemblage basalts and lesser granitic to syenitic intrusives also occur locally throughout the map area.

Prospecting conducted during October, 1987, identified strong northwesterly-trending shearing in the area southeast of South Whiteman Creek and shearing immediately north of Whiteman Creek in the western portion of Expo 8. Prospecting in the north-central portion of Expo 8 resulted in the discovery of an east-northeast trending topographic depression within which a small amount of visible gold was found in fist-sized angular float.

Follow-up work in June, 1988, directed at the area where the visible gold was found, failed to uncover any additional gold mineralization, however, many of the samples collected returned silver values greater than 1.0 oz/ton.

A sequence of locally altered argillaceous tuffs and intermediate flow breccias cut by a series of variably sheared felsic intrusives were noted in the southwestern corner of Expo 7. A test self potential survey conducted in the area outlined several low-order anomalies corresponding to geology and, although no mineralization was seen, samples collected returned up to 0.04 oz/ton gold and greater than 1.0 oz/ton silver.

A two-phase exploration program is recommended to test the precious metal potential of the claim group. The work should be directed at identifying or further defining structural lineaments and alteration mineral assemblages which may be indicative of epithermal gold and silver mineralization.

The Phase I program would consist of initial prospecting and sampling, followed by gridding, geological mapping, detailed geochemical sampling and VLF-EM/magnetometer surveying.

Phase II, contingent upon the results of Phase I, would include an initial IP survey, followed by reverse circulation and diamond drilling.

1.0 Introduction

The Expo 7 and 8 mineral claims, located west of Okanagan Lake in south-central British Columbia, were staked by Pacific Northwest Resources Inc. in the summer of 1986 as part of a set of fifteen claims covered by nine non-contiguous claim groups. The claims were acquired on the basis of anomalous gold values received from a reconnaissance silt sampling survey conducted by Pamicon Developments Ltd.

During October, 1987, a preliminary prospecting and sampling program was conducted by Pacific Northwest personnel on selected portions of Expo 7 and 8.

During June, 1988, reconnaissance geological mapping and additional sampling were performed on the claim group. In addition, a test self potential survey was conducted.

This report summarizes results of the 1987 and 1988 programs and presents recommendations for additional work.

2.0 Location and Access

The claims are located approximately five kilometres west of the northern end of Okanagan Lake in south-central British Columbia (Figures 1 and 2).

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The claims are easily accessible year-round by logging road up Whiteman Creek from the Okanagan Lake west-side road. Several logging roads bisect the property.

3.0 Property and Ownership

The property consists of two contiguous, modified grid mineral claims comprising a total of 40 units, located within the Vernon Mining District. The claims are held 100% by Pacific Northwest Resources Inc. Claim posts inspected on the claims indicate they were staked in accordance with the requirements of the British Columbia Ministry of Energy, Mines and Petroleum Resources. A tabulation of claim data follows:

| Claim | No. | Record | Mining | Record | |
|--------|-------|--------|----------|----------|------|
| Name | Units | No. | District | Date | |
| Expo 7 | 20 | 2127 | Vernon | July 18, | 1986 |
| Expo 8 | 20 | 2128 | Vernon | July 18, | 1986 |

4.0 Physiography and Vegetation

The claim group covers an upland plateau which is deeply incised by dendritic drainage. Elevations range from a low of 640 metres above sea level to a high of 1340 metres above sea level, both on Expo 8. Alpine glaciation has affected some of the higher elevations.

Vegetation at lower elevations consists of grass, sagebrush, ponderosa and lodgepole pines, and Douglas fir. At higher

-2-

elevations this gives way to spruce, Douglas fir and balsam fir.

5.0 Regional Exploration History

Although no information exists to show that previous work has been performed on ground covered by the Expo 7 and 8 claim group, the area west of Okanagan Lake has been subjected to intermittent exploration activity dating back to the late nineteenth century, when placer gold was first discovered on Whiteman and Bouleau Creeks. Minor production is recorded for Whiteman, Bouleau, Equesis and Naswhite Creeks.

In the early 1930's, the White Elephant Mine, five kilometres south of the Expo 7 claim, produced 63,000 grams of gold and 9,500 grams of silver with byproduct copper and tungsten from 4,800 tonnes of ore.

Regional silt sampling programs by major mining companies in the late 1960's resulted in the discovery and exploration of several molybdenum stockwork prospects, notably the White and Wood prospects. More recently, Huntington Resources (Brett) and Brican Resources Ltd. acquired, and are actively exploring, adjacent properties covering an epithermal vein and shear prospect located five kilometres west of Expo 8.

Other players in the area include Chevron Minerals, Kennco Exploration, Canadian Occidential Petroleum and Placer-Dome, who

-3-

have acquired an option on ground held by Fairfield Minerals Ltd. in the area west of Peachland, approximately 65 km southwest of Vernon.

Exploration in 1987 on the Huntington property included 32 "NQ" diamond drill holes totalling 2900 meters. Several high grade gold intersections were encountered with the most notable being 5.25 m grading 0.737 oz/ton. Drilling in early 1988, however, produced the most spectacular intersection to date on the property. The reverse circulation hole, drilled on the 'Main Shear Zone' cut a 235 foot interval averaging 2.03 oz/ton gold. The mineralization, largely in the footwall to the shear zone, includes an upper high grade section of 145 feet averaging 2.95 oz/ton gold.

Additional drilling performed during the latter part of 1988 produced several other significant intersections, including a 55 foot interval grading 0.136 oz/ton gold. Gold is associated with both the footwall and hanging wall rocks, while the nature of the mineralization could suggest the presence of more than one mineralized shoot.

Releases describing the results of the 1987 and 1988 programs on the Huntington property led to substantial additional staking in the area, however, the Pacific Northwest land position, through the acquisition of the Expo claims, had already been well established.

-4-

6.0 Regional Geology

The Expo claims are situated in the Intermontane Belt of southcentral British Columbia (see Figure 3). Northerly-trending Proterozoic metasediments of the Shuswap Terrane (Unit 1) are flanked by basaltic to andesitic flows and associated sediments of the Lower Paleozoic Thompson Assemblage (Unit 2)(Geological Survey of Canada, Open File No. 637).

Late Mesozoic extensional tectonics caused north/northwesterlytrending block-faulting and emplacement of the granitic to granodioritic Valhalla Intrusives (Unit 4).

A Tertiary syenitic stock (Unit 5) on Whiteman Creek may be the sub-volcanic correlative of the Kamloops Group extrusives.

Tertiary volcanic flows of the Kamloops Group (Unit 6) form a thick horizontal sheet covering the prior erosional surface and its overlying terrestrial sediments. These flows are largely basaltic, but do contain andesitic, dacitic and rhyolitic components near volcanic centres (Jones, 1959).

Several molybdenite stockwork prospects, hosted by Valhalla Intrusives (Dawson, 1979) and a latite porphyry phase of the Whiteman Creek stock (MacDonald, 1977), occur within the project area.

-5-



| TIARY | |
|---------------------------|--|
| Kamloop | a Group : Volcanic flow racks with interbedded sedimentary rocks |
| Coryell In | trusives - Syenites |
| SSIC - CRET | ACEOUS |
| Valhalla | Intrusives : Granitic plutonic rocks |
| Thompson | Assemblage Basaltic Blandesitic lavas greenstoor |
| 500710 | tuff,quartzite,hmestone & argillite |
| Shuswap | Terrane : Schist, quartzite, limestone, shale, argillite. |
| | |
| Major mi | neral prospects |
| Claim bo | undary |
| ogy after G 6-1976 and | SC National Geochemical Reconnaissance 9 GSC Open File 637 |
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| | PACIFIC NORTHWEST RESOURCES LTD |
| | EXPO CLAIMS |
| | REGIONAL GEOLOGY |

FIGURE 3

N.T.S. 82L/485

Also, the White Elephant Mine, which produced over six kilograms of gold from small scale production is situated 24 kilometres southwest of Vernon. Mineralization occurs within a highly fractured, silicified zone in a coarse-grained hornblende-biotite granite containing pyrrhotite lenses cut by pyrite-chalcopyrite veinlets (British Columbia Department of Mines, Annual Report, 1933, p.196).

The Brett gold-silver epithermal prospect between Bouleau and Whiteman Creeks is characterized by north/northwest-trending vein and shear structures hosted by Kamloops group volcanics (Belick, 1986).

7.0 Regional Geochemistry

The Expo claims were staked on the basis of anomalous gold values in silt samples taken during an orientation geochemical survey of the project area. This survey of 255 silt samples gave the following values for anomalous (95th percentile) and highly anomalous (99th percentile) metal contents.

| | | | Hic | ghly |
|-------|-------|-------|-------|-------|
| Metal | Anoma | alous | Anoma | alous |
| | (ppb) | (ppm) | (ppb) | (ppm) |
| Au | 80 | | 350 | |
| Ag | | 0.6 | | 0.7 |
| Cr | | 86 | | 125 |
| Ni | | 83 | | 149 |
| Co | | 19 | | 25 |
| Mn | | 2170 | | 5170 |

-6-

The project area as a whole is significantly more anomalous than the entire Vernon map sheet (NTS 82L). Corresponding values taken from the GSC National Geochemical Reconnaissance (GSC Open File No. 410) survey of 3480 silt samples on the Vernon map sheet are:

| Metal | Anomalous | Highly Anomalous |
|-------|-----------|---------------------|
| | (ppm) | (ppm) |
| Ag | 0.1 | 0.5 |
| Ni | 40 | 70 |
| Со | 15 | 20 |
| Mn | 900 | 2100 |

Gold and chromium contents were not analyzed in that study.

8.0 Program Results

8.1 Introduction - Previous Work

The Expo 7 and 8 claims cover Whiteman Creek and South Whiteman Creek near their juncture. Both creeks were found to be anomalous by the reconnaissance silt sampling program, with values of 140 ppb and 100 ppb gold respectively. Follow-up silt sampling gave spotty anomalies of 65, 125, 265 and 2670 ppb gold on Whiteman Creek, and 150 ppb gold on South Whiteman Creek. Reconnaissance soil sampling 200 to 500 metres north of Whiteman Creek returned values of 32, 45 and 85 ppb gold.

8.2 Prospecting and Sampling Programs

During the period of October 19 to October 23, 1987, preliminary

-7-

prospecting and sampling was conducted by Pacific Northwest personnel. A total of 23 rock samples and four soil samples were collected during the program. All of the samples were sent to Acme Analytical Laboratories Ltd. of Vancouver. The soil samples and more than half of the rocks were analyzed for 30 elements, including gold, by the inductively coupled plasma (I.C.P.) technique. The remaining rock samples, as well as a portion of the previously mentioned set, were analyzed for gold and silver by acid leach - atomic absorption (AA). A total of four samples were also fire assayed for platinum, and analyzed for nickel and cobalt. Map 1 (Appendix 2), at a scale of 1:10,000, presents the location of Pacific Northwest sampling with values and sample descriptions contained in Appendix 1.

This work revealed that the east, northwest and central portions of the Expo 8 claim are underlain by intermediate to basic volcanic rocks belonging to the Kamloops Group. Prior Government mapping indicated the claims were underlain by Valhalla Intrusives.

Strong northwesterly trending shearing was observed in the area southeast of South Whiteman Creek. Immediately north of Whiteman Creek, in the western portion of the Expo 8 claim, and in the northwestern corner of the claim, east-northeast trending structures occur, although additional work is required to determine the actual orientation and nature of these features.

-8-

Prospecting in the north central Expo 8 claim discovered an eastnortheast trending linear topographic depression. In the vicinity of this erosional feature, a small amount of visible gold was found in fist-sized angular float. A large sample from this float material, not including the sample with visible gold, returned values of 17.6 ppm silver and 2 ppm gold. Follow-up soil sampling for 15 metres across the depression returned silver values ranging from 0.1 to 2.3 ppm.

It is felt that the shear zones reported on may be analagous to the Brett mineralized structures and should be the target of additional work.

Several reconnaissance VLF electromagnetic lines were run by Pacific Northwest in the area of these shears. The line density was not sufficient to allow contour maps to be prepared, however, it was noted that the shear zones responded to the technique and present a valuable tool for follow-up work.

8.3 Reconnaissance Claim Geology and Mineralization

Between June 19-24, 1988, a brief examination of the Expo 7 and 8 claim group was performed by G.G. Addie, P.Eng. of Addie Consultants Ltd. The work was directed at the area where visible gold was found in float during the 1987 program.

The strong northwesterly shearing in the area southeast of South

-9-

Whiteman Creek and the shearing immediately north of Whiteman Creek and the shearing immediately north of Whiteman Creek in the western portion of the Expo 8 claim was also re-examined.

A total of 27 rock samples were collected during the program. The samples were sent to the analytical facility of Dragoon Resources Ltd. and analyzed for gold and silver by fire-assay and for a base metal suite consisting of nickel, copper, lead and zinc by conventional wet assay techniques.

Sample locations are plotted at a scale of 1:11,838, on Maps 2 and 3 (Appendix 2) of this report. Results and sample descriptions appear in Appendix 1.

The area where the visible gold was found was searched and, although only a few fragments of barren quartz were found, several samples collected from the area returned silver values greater than 1.0 oz/ton. It is postulated that the depressions noted were formed by the preferential erosion of a shear zone.

Further south from the road, feldspar porphyry dykes are present but no mineralization was noted. Potassic alteration was observed on a series of east-west joints within the granitic dykes.

In the southwest part of Expo 7, a good exposure of mafic volcanic tuffs and flow breccias occurs. The sequence is cut by an amethyst dacite porphyry dyke which is carbonatized and

-10-

chloritized. The amethyst crystals also feature a corona of calcite. Barren quartz float was noted in the area.

An argillaceous tuff bearing north seventy-five degrees east and dipping forty-two degrees south is also present. It has epidote on the joint planes. (Bearing north thirty-seven degrees east and dipping sixty-six degrees west).

The flow breccia noted to the east has clasts which are floating in an andesitic matrix. (Bearing east-west at forty-eight degrees south).

The granitic intrusive varies from a well sheared, chloritic (hornblende chlorite) unit at the western end of the exposure to a fresh hornblende + biotite granite, displaying a possible zonation, to the east. The contact between the granitic intrusive and the volcanics was not observed.

One hundred feet above these outcrops the rocks are all plutonic except for several dykes including the amethyst dacite porphyry and an orthoclase porphyry (pulaskite). Of interest is a siliceous granite which intrudes a diorite. A small amount of molybdenite was seen in the granite. Barren quartz stringers are also present.

-11-

8.4 Geophysical Surveys

8.4.1 Introduction

During June, 1988, a long-wire and a series of short-wire self potential (S.P.) surveys and a brief VLF-EM survey were conducted by G.G. Addie of Addie Consultants Ltd. The surveys were performed in an attempt to test the usefulness of each method in areas of known or inferred shearing and structure.

The advantages of the long-wire S.P. method is that the survey can be carried out by a single person with all values relating to one point on the map. The equipment used was new, however, and needs to be modified. The spool is meant to be placed at a base station and the wire drawn out by the operator. Unfortunately, the springs used to prevent backlash were too strong. Addie has proposed that they be replaced by a rachet mechanism.

The short-wire S.P. survey can be performed very quickly, however, two persons are required.

Readings with both methods were collected using a 20 - 25 metre wire and are plotted on Maps 4 and 5 at a scale of 1:11,838. The raw data is also appended.

The VLF-EM survey was conducted using a Sabre instrument with the Jim Creek, Washington (NPG) crystal. Unfortunately, because the field strength was low, the results are considered unreliable and

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-12-
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have not been presented.

8.4.2 Self Potential (S.P.)

A small test of the one-man long-wire method was made near the northern boundary of Expo 8, in the vicinity of the projected shear zone where visible gold was found in angular quartz float. Unfortunately, no anomalies were found.

The road along Whiteman Creek was surveyed using the short-wire method. Two weak anomalies were noted in the southwestern corner of Expo 8, however, a sample collected from the area returned gold and silver values of less than 0.005 oz/ton.

A test of the short-wire method was also conducted on the logging road running northeast from the southwestern corner of Expo 7. Several low order anomalies corresponding to the geology were encountered and, although no mineralization was seen, several samples collected from the felsic intrusives mapped in the area returned silver values greater than 1.0 oz/ton. Also, one sample returned a gold value of 0.04 oz/ton.

8.4.3 VLF-EM

A sabre VLF-EM instrument was used over the projected shear zone near the northern boundary of Expo 8. Unfortunately, the instrument was not equipped with the appropriate crystal. An

-13-

alternate crystal was tried but the field strength was too low to enable the operator to record reliable, reproducible readings.

9.0 Conclusions

The Expo 7 and 8 claims cover Whiteman Creek and South Whiteman Creek near their juncture. Both creeks were found to be anomalous by the reconnaissance silt sampling program, with values of 140 ppb and 100 ppb gold respectively. Follow-up silt and soil sampling returned spotty anomalies of up to 2670 ppb gold but failed to detect any surface mineralization.

The prospecting program conducted during October, 1987, identified strong northwesterly-trending shearing in the area southeast of South Whiteman Creek and shearing immediately north of Whiteman Creek in the western portion of Expo 8. Prospecting in the north central portion of Expo 8 resulted in the discovery of an eastnortheast trending topographic depression within which a small amount of visible gold was found in fist-sized angular float. A large sample of this material, which did not include the visible gold, returned values of 17.6 ppm silver and 2 ppm gold.

Follow-up work in June, 1988, was directed at the area where the visible gold was found and, although only a few fragments of barren quartz were noted, many of the samples collected returned values greater than 1.0 oz/ton silver.

-14-

A sequence of locally altered argillaceous tuffs and intermediate flow breccias cut by a series of variably sheared felsic intrusives were noted in the southwestern corner of Expo 7. A test self potential survey conducted in the area outlined several low-order anomalies corresponding to geology and, although no mineralization was seen, several samples collected returned silver values greater than 1.0 oz/ton. Also, one sample returned a gold value of 0.04 oz/ton.

10.0 Recommendations

A two-phase exploration program is recommended to test the precious metal potential of the claim group. Emphasis should be placed on those areas where geological and structural features and alteration mineral assemblages believed to be analogous to those found on the nearby Brett deposit have been identified.

Advancement to the second phase is contingent upon favourable results from the first.

The initial part of the Phase I work should consist of a comprehensive prospecting and sampling program directed at identifying or further defining structural lineaments and alteration assemblages which may be indicative of epithermal gold and silver mineralization.

As a follow-up to this initial program, detailed gridding,

-15-

geological mapping, geochemistry and VLF-EM/magnetometer surveying should be completed.

Contingent upon results of the Phase I program, a follow-up program consisting of I.P. surveying, reverse circulation drilling and diamond drilling is proposed.

Expo 7 (2127) and Expo 8 (2128) Vernon Mining District Expenditure Statement: July 18, 1987 - July 18, 1988

| Salaries | | |
|---|----------|--------------------|
| Field Supervision (not subject to 15% Administration) | \$ | 1,333.33 |
| Technical Clerical/Support | | 3,312.50 373.50 |
| Contract Geological/Geophysical Work Field Work: 4.5 days @ 300 = 1,350.00 Report Writing: 2.25 days @ 200 = 450.00 Misc. Expenses: 381.08 | | 2,181.08 |
| Assays and Related Costs | | 1,153.58 |
| Equipment Rental (Geophysical) | | 477.00 |
| Travel and Related Costs | | 711.42 |
| Room & Board (and misc. supplies) | | 515.58 |
| Sub-Total | \$ | 10,057.99 |
| Management/Administration Fee (@ 15%) | | 1,308.70 |
| Total | \$ == | 11,366.69 |

Prepared by:

David Hassell Agent for Pacific Northwest Resources Inc.

7 2 1989 Date J

Certified by:

J. Frank Bradley Corporate Secretary Pacific Northwest Resources Inc.

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Date

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STATEMENT OF QUALIFICATIONS

I, David W. Hassell, of the City of Port Moody, in the Province of British Columbia, certify that:

- I am a graduate of McGill University, Montreal, Quebec, with a Bachelor of Science, Honours Degree obtained in 1978.
- I am registered as a Professional Geologist in the Province of Alberta.
- I have practised my profession continuously since graduation.
- 4. This report is based on a summary of results from exploration programs conducted on the claims during October, 1987 and June, 1988, by or on behalf of Pacific Northwest Resources Inc. I was not on the property, however, when the field work was performed, nor did I supervise the programs.
- 5. I hold no interest, directly or indirectly, in the properties herein described, nor in the securities of Pacific Northwest Resources Inc., nor do I expect to receive any such interest.
- 6. Pacific Northwest Resources Inc. may include this report, or a summary thereof, in a prospectus or statement of material facts.

Dated at Vancouver, British Columbia, this $\frac{3rc^{1}}{5}$ day of

Fabruary, 1989.

IA I

David W. Hassell, P. Geol.

Appendix 1

Sample Descriptions and Assay Results

ACME ANALYTICAL LABORATORIES LTD. DATE RECEIVED: OCT 30 1987 852 E. HASTINGS ST. VANCOUVER B.C. V&A 1R6 PHONE (604) 253-3158 FAX (604) 253-1716 DATE REPORT MAILED: NAU 23/87.

ASSAY CERTIFICATE

- SAMPLE TYPE: Rock Chips AU - 10 EM REEULAR ASSAY. pt++ byFire ASSAYER: . A. CALM. DEAN TOYE, CERTIFIED B.C. ASSAYER

DRAGOON RESOURCES File # 87-5363 A

| SAMFLE# | CU | P8 | ZN | AG | AU | NI | CO | FT++ |
|---------|----|----|----|------|------|----|----|------|
| | 7. | 72 | 7. | oz/t | oz/t | 7. | % | o:/t |

| - R- 3507 | | · | | | 001- | | | |
|-----------------------|--------|-------|---------------------------------------|-------|---------|---------|----------------|-------------|
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| | | | | • • • | | | | |
| R 3514 | | _ | - | .01 | .001 | .01 | .01 | .001 |
| - R 3515 | - | _ | - | . 01 | .001 | - | .01 | .001 |
| R_3517 | _ | - | _ | .01 | .001 | .01 | .01 | .001 |
| R 3519 | | _ | _ | .01 | .001 | - | - | - |
| R 3520 | - | - | ~ | .01 | .001 | .01 | .01 | _ |
| R 3522 | . 01 | - | _ | .01 | .001 | _ | - | _ |
| R 3523 | | | | | | | | |
| R 3524 | _ | - | _ | .01 | .001 | _ | - | - |
| E 8 3525 | - | - | _ | .01 | .001 | _ | - | - |
| R 3526 | - | | _ | .01 | .001 | .01 | .01 | .001 |
| | | | | | | | | |
| R 3527 | _ | - | - | .01 | .001 | - | _ | _ |
| R 3528 | - | | - | .01 | .001 | - | - | |
| R_3529 | | 04 | . 11 | . 75 | | | | |
| _ R 3531 | - | - | - | .01 | .001 | - | - | _ |
| R 3533 | _ | - | - | .01 | .001 | - | | - |
| R 3534 | _ | | _ | .01 | .001 | .03 | .01 | .001 |
| R 3536 | - | - | - | .01 | .001 | .01 | .01 | .001 |
| R 3538 | _ | - | _ | .03 | - 001 | - | - | - |
| R 3539 | _ | - | _ | .01 | .001 | - | <u> </u> | - |
| R 3540 | .01 | - | | .01 | .001 | - | | - |
| D 3547 | 01 | _ | _ | 01 | 001 | - 01 | . 01 | - |
| E TEAA | ••• | _ | - | 01 | 001 | _ | _ | _ |
| 7575 C | · _ | _ | | -01 | 001 | _ | _ | |
| | _ | _ | | 61 | 001 | _ | _ | _ |
| R 3047 | - | _ | _ | 01 | . 001 | _ | _ | _ |
| 040 | | — | | • • • | • * * • | | | |
| R 3549 | - | - | - | .01 | .001 | - | + - | - |

denotes samples collected on _Expo 7/8

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - . SOG GRAM SAMPLE IS DIGESTED WITH JML 3-1-2 HCL-HH03-H20 AT 95 DEC. C FOR ONE HOLM AND IS DILUTED TO 10 HL WITH WATER. THIS LEACH IS PARTIAL FOR NU FE CA P LA CR MG TA TE E 1 AND LIBITED FOR MA R AND AL. AN DETECTION LIBIT BY ICP 15 3 PPR. - SAPLE TTPE: Roct Chies ~ 4 .

| DA | TE RECI | EIVE |) 1 | ect X | 1987 | | DATE | REI | POR | t ma Di | 1LEC RAGO | и ј | <i>bu</i> Reso | | 187 Es | F | A554 i 1 e | YER # 8 | (7-53 | . A | bye | K DE | AN 1 | TOYE. | . CE | RTI | -160 |) P.(| C. A | 55A' | YER |
|----------|---------|-----------|------------|-----------|-------------|------------|-----------------------|-----------|-----------|------------|--------------|------------|-------------------|-----------|-----------|-----------|---------------|------------|------------------|---------|--------|-----------|------------|---------|-----------|---------|----------|---------|---------|-------------|----------|
| | SMPLEI | 80 275 | CU FPR | 89 895 | 211 7711 | 46 1971 | и1 ?? я | 00 775 | NN PPX | ft I | AS PPR | 9 228 | 4U 228 | th PPN | SR PPR | СВ 2РЛ | SB PPN | 91 798 | 4 7911 | CA 1 | 7 1 | LA 298 | CR 7771 | л6 1 | 84 PP# | 11 1 | 1 798 | ML J | NÅ 1 | K 1 | ¥ 794 |
| | | | | | | | | +_ | - 130- | | | ş . | | - 1- | -541- | - + | } | | | 17.22 | . 004- | } | -+ | 14:51 | ; | | <u> </u> | 04 | 91 | | i |
| Г | 1 3313 | 1 | - 4 | - 1 | 53 | .1 | 3 | 3 | 485 | 1.21 | 2 | 5 | H Đ | 5 | 69 | 1 | 2 | 2 | 11 | .45 | .039 | | | .50 | 19 | .07 | 2 | . 89 | .01 | .07 | 1 |
| <u>ب</u> | 8 3316 | Ĺ | 24 | 3 | 21 | .1 | 5 | 3 | 203 | 1.4 | 2 | 5 | ×ð | 5 | 30 | 1 | 2 | 2 | 53 | . 64 | . 118 | 21 |) | .32 | 55 | .11 | 2 | .13 | .09 | .14 | 1 |
| ſ | 1 3511 | 10 | - 64 | 1 | - 14 | .1 | 14 | | 505 | 2.80 | - 5 | 5 | R0 | 10 | 48 | E E | 2 | 2 | 29 | . 50 | .126 | 22 | - 34 | 1.21 | 22 | .03 | 2 | 1.38 | .02 | .0 9 | 1 |
| | \$ 3321 | 1 | 21 | 4 | 25 | .1 | | 3 | 161 | 1.02 | 3 | 5 | NQ | 11 | 124 | 1 | Z | 2 | 31 | 1,11 | .133 | 13 | 15 | .19 | 497 | .11 | 2 | 2.08 | . 39 | 194 | 1 |
| | 8 1536 | • | 13 | 11 | 34 | t. | \$ | 1 | 115 | 1.35 | 2 | \$ | Rŷ | 10 | 117 | 1 | 2 | 2 | 23 | 1.01 | .104 | 39 | 14 | .31 | 413 | .10 | 2 | 1.57 | .09 | .71 | 1 |
| Г | 1 3532 | 1 | | - H | 1 | .2 | 1 | i | 344 | .47 | 3 | 5 | ХÛ | 15 | 130 | 1 | 2 | 2 | 2 | 2.82 | . 002 | 1 | 3 | . 30 | 407 | .01 | 2 | . 30 | .03 | . 94 | 1 |
| <u>ب</u> | \$ 1535 | i | 17 | 10 | - 24 | | Ś | 4 | 165 | 1.44 | 1 | 5 | XQ. | 2 | 115 | 1 | 2 | 2 | 38 | . 47 | .016 | 20 | 13 | . 21 | 152 | .11 | 2 | . 62 | . 98 | . 31 | i |
| Г | E 3537 | 1 | 17 | 5 | 13 | .1 | 11 | • | 441 | 2.45 | 2 | 5 | Xð | 10 | 64 | 1 | 2 | 2 | 33 | .75 | .121 | 33 | 32 | 1.21 | 24 | .11 | 2 | 1.35 | .02 | . 2? | 1 |
| L | E 3501 | i | 15 | S | 71 | .2 | 1 | 1 | 45 | .†1 | 2 | 5 | #0 | 10 | 108 | 1 | 2 | 2 | 34 | .17 | .001 | 44 | 30 | .15 | 479 | .11 | 4 | 1,55 | .13 | .99 | 1 |

1 2 2 50 .37 .047 13 19 .52 37 .01 1 3342 2 47 .1 1 4 373 2.27 2 5 NÒ 4 39 2 .85 .07 .03 1 1 31 3 472 1.44 X2 10 227 1 2 2 13 3.41 .036 35 4 .64 36 .01 3 1.09 .02 .23 1 3546 15 14 44 .2 2 5 5 1 1 1 4 29 33 .2 1 2 1506 1.61 2 518 4 1 .83 14 .01 2 5 KB 1 2 2 9 20.01 .010 2 .6* .01 .03 E 5550/ 1 19 62 41 133 7.4 70 28 1053 4.06 41 19 8 39 53 18 17 23 60 .50 .088 39 57 .90 180 .09 37 1.92 .07 .14 13 577 C

denotes samples collected on Expo 7/8

| COMPANY: | Pacific | Northwest |
|----------|---------|-----------|
| PROJECT: | Expo | |

DATE WEIGHBILL SHIPPED: October 27, 1987 NUMBER: 2643161 WEIGHBILL

1997 - 1997 - 1997 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 - 1998 -

| SAMPLE NO. | SAMPLE LOCATION | РВ % | ZN % | AG OZ/T | AU 02/T | PT 0Z/T | NI % | cu % | co % | ICP % | • |
|---------------|--|---------|---------|------------|------------|------------|---------|---------|---------|----------|---|
| ₹ 3513 | Expo 8 Fri No.1 | | | | | | | | | Yes | • |
| 3514 | Expo 8 Oct. 23 No.2 | | | 101 | .001 | .001 | .01 | | 10. | | |
| 3515 | E. Edge of Expo 6 | | | .01 | 1001 | 1001 | | | | | |
| 3516 | Expo 4 | | | | | l | | | | Y=3 | |
| 3517 | Expo 4 (Same as 3516) | | | .01 | 1001 | . 001 | . 31 | | 101 | | |
| 3518 | Expo 8 - N. side Rd. | | | .01 | .00 | | | | | | |
| 3519 | Expo 8 as 3518 | | | | | | | | .01 | 453 | |
| 3520 | Expo 4 - 2nd layer of burried s | 50i1 | | 101 | 1.001 | | | | | | |
| 3521 | Expo 4 as 3520 | | | | | | | | | Y3. | |
| 3522 | Expo 4 Med-dk grn 8 | | | . 01 | 001 | | | 101 | | | |
| 3524 | Expo 4 | | | .0 1 | ,001 | | ł | | | | |
| 3525 | Expo 7 east | | | 101 | ۰ ۵۵ . | | | | | | |
| 3526 | Expo east as 3525 | | | .01 | .001 | 1.001 | 10. | | 1.01 | | |
| 3527 | Expo 7 east as 3525 | | | 101 | .001 | | | | | | |
| 3528 | Expo 4 | | | •01 | .001 | ۱ ۱ | | | | | |
| 3530 | Expo 4 | | | | | | | | | YE) | |
| | Continued | | | | | | | | | | |
| | enotes samples collected on xpo 7/8 | | | | | | | | | | |

| COMPANY : | Pacific | Northwest |
|-----------|---------|-----------|
| PROJECT: | Ехро | |

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DATE WEIGHBILL SHIPPED: October 27, 1987 NUMBER: 13-26431613

| SAMPLE NO. | SAMPLE LOCATION | РВ % | ZN % | AG 02/T | AU OZ/T | PT OZ/T | NI % | cu % | со % | ICP % | |
|---------------|------------------------------|---------|-------------|------------|------------|------------|---------|---------|---------|----------|---|
| R3531 | Expo 7 East | | | .01 | .001 | | | | | | |
| 3532 | Expo 7 East | | | | | | | | | ر ته ا | |
| 3533 | Expo 4 | | | ,01 | .001 | | | | ļ | | |
| 3534 | Expo 8 | | | . 51 | 1001 | . 00 1 | .03 | ĺ | .01 | | • |
| 3535 | Expo 4 | | | | ! | | | | | YE3 | |
| 3536 | Expo 8 | | | .01 | .001 | . 001 | .01 | | 10.1 | | |
| 3537 | Expo 8 | | | | | | | | | 753 | |
| 3538 | Expo 4 | | 1 | 50 | . 001 | | | | | | |
| 3539 | Expo 4 | | | 101 | .001 | | | | | | |
| 3540 | Expo 4 | | | . 0 ' | 1001 | | | ,01 | | | 1 |
| 3541 | Expo 4 | | | | | | | | | 753 | |
| 3542 | Expo 7 | | | | | | ļ | | | 757 | |
| 3543 | Expo 4 | | | .01 | .001 | | .01 | .01 | 101 | | |
| 3544 | Expo 4 - 3rd burried soil | | | . 01 | .001 | | | | | | |
| 3545 | Expo 4 | | | 101 | . 201 | | | | | | |
| 3546 | Expo 7 #1 near contact | | | | | | | | | 10 | |
| 3547 | Expo 7, No.3 East Edge | | | 123 | 100 | i | | | | | |
| 3548 | Expo 8, N.W. corner in place | | | ، ۵۰ | 100 | ١ | | | | | |
| 1 | Continued | notes | 'samp '8 | les c | ollec | ted o | n | I | I | ľ | |

| COMPANY PROJECI | : Pacific Northwest : Expo | DATE Shipp: | ED: Oc | tober | 27, | W 1987 N | UMBEI | BILL R: 1 | 3-264 | 31613 | |
|------------------------|---|----------------|---------|------------|------------|-------------|---------|--------------|---------|----------|---|
| SAMPLE NO. | SAMPLE LOCATION | РВ % | ZN % | AG 02/T | AU 02/T | PT 0Z/T | NI % | CU % | co % | ICP % | • |
| R3549 3550 | Expo 7 Near granite contact Expo 7 as 3549 | | | ,01 | . 001 | | | | | لاعلا | |
| JSM/mf cc: Va No | n. Office lson Office | | | | | | | | | | |
| | | | | | | | | | | | |
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| | denotes samples collected on Expo 7/8 | | | | | | | | | | |

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GEOCHEMICAL ANALYBIS CERTIFICATE

20 - .300 GROW SAMPLE IN DIDETTED WITH 3M, 3-1-2 HCL-HNO3-H2M AT 75 DEC. C FOR SHE HOUR AND IS DILETED TO 10 M, WITH INTER. THIS LEACH IS PARTIAL FOR MM FE CA P LA CR H5 TA TI 3 % AND LIMITED FOR HA E AND AL. AU DETECTION LIMIT BY ICP IS 3 PPR. - SAMPLE TYPE: P1-HOCK P2-SOIL AND AMALYSIS BY AA FROM 10 GRAM SAMPLE.

| DA | TE RE | CEIV | ED: | 101 | 10 11 | 17 | DA | TE R | EPO | RT # | AILE | EDa | No | 02 | 27/2 | 37 | A51 | BAYE | R | A2 | The | t | EAN | TOY | Έ, Ι | 1ERT | IFI | ED B | | ASS | AYEF | ł | | |
|----|--|-----------------------|-------------------------|-------------------------|----------------------------|------------------------------|------------------------|-------------------|---------------------------------|--------------------------------------|-----------------------|----------------------------|------------------------|-------------------------|------------------------------|------------------|----------------------------|----------------------------|----------------------------|-------------------------------------|--------------------------------------|----------------------------|---------------------------|-----------------------------------|------------------------------|---------------------------------|----------------------------|-------------------------------------|---------------------------------|---------------------------------|-----------------------|----------------------|------|---|
| | | | | | | | | | | PAC | IFIC | NO | RTH | #EST | | F11 | • * | 87- | 584 | 8 | PA | 9 e 1 | | | | | | | | | | | | |
| 1 | SWPLE: | 80 275 | 01 173 | 71 275 | 71 779 | 86 275 | HE PPH | C0 79% | n PPN | л 1 | A5 1998 | 1 222 | iki PPN | tti PPR | SR PPR | C3 79% | 53 79% | 31 PPH | ¥ 79% | CA 1 | * 1 | 1.A 798 | CR 77% | % 1 | 84 1999 | 71 1 | t PPH | NL I | NÅ 1 | t 1 | ¥ 279 | NUS PPB | | |
| |) 5067) 5070) 5071) 5072) 5072) 5073 | 1 1 1 1 1 | * 5 3 1* 15 | 11 9 4 8 3 | 41 50 33 72 78 | 17.5 .7 .1 .5 .7 | 4 2 3 9 84 | 3 7 3 13 | 455 311 282 478 713 | 1.20 1.64 1.46 3.10 3.79 | 2 2 2 2 2 | 4 5 5 5 5 5 | 2 115 119 119 | 4 34 7 4 13 | 41 87 52 133 248 | 1 1 1 1 | 2 2 2 2 2 2 | 2 2 2 2 2 2 | 16 18 18 52 64 | 1.02 1.78 .53 1.70 2.91 | .043 .055 .059 .129 .313 | 10 72 8 44 45 | 13 1 4 24 138 | .44 .35 .44 1.17 2.52 | 37 35 38 157 203 | .04 .03 .14 .10 .17 | 2 4 2 2 2 2 | .74 1.00 .79 1.44 2.19 | .03 .07 .07 .07 .05 | .08 .18 .14 .14 .15 | 2 | 1940 54 1 1 | | |
| | | | | | | | | | | | P | ACI | F 1 C | NOR | THWE | ST | ₽I | LE | # 8 7 | 7-58 | 48 | | | | | | | | | | | | Page | 2 |
| | SHPLEI | t A | CU 1778 | 29 298 | 21 1991 | 74 1991 | NT PPN | C0 ##8 | yan PPR | FE | AS PPH | U PPR | AU 79 h | 79 1998 | SR PPR | C0 PP:8 | |) | ۷ ۲۴۶ | CA I | , 1 | LA PPR | ct 178 | N6 1 | 84. 798 | 31 1 | B PPA | AL 1 | 44 1 | K 1 | 16 PPN | AU1 173 | | |
| | E 5074 E 5075 E 5075 E 5076 E 5077 E 5078 | 1 1 1 1 | 91 9 40 7 | 14 1 1 1 22 | 40 47 51 52 | 7.3 .1 1.1 | 19 7 8 4 | 5 3 3 | 795 551 251 367 141 | 3.61 2.17 1.42 1.46 2.00 | 2 2 2 2 3 | 10 5 5 5 | 10 20 10 10 | 12 4 3 5 | 82 65 58 34 | 1 1 1 | 2 7 2 2 2 | 2 2 2 2 2 2 | 39 36 21 25 31 | .90 .44 .70 .41 | .031 .049 .032 .054 | 84 15 44 12 38 | 21 15 11 1 | .39 .37 .20 .25 .47 | 248 24 95 43 54 | .06 .05 .05 .11 | 2 2 5 2 3 | 4.67 1.30 1.54 .82 8.12 | .05 .04 .04 .03 | .09 .05 .06 .04 | 1 1 2 2 2 | 4 23 7 7 | | |

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COMPANY: Pacific Northwest PROJECT: Expo

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DATE

WEIGHBILL SHIPPED: Oct. 23, 1987 NUMBER:

| | SAMPLE NO. | SAMPLE LOCATION | ₽B % | ZN % | AG OZ/T | AU OZ/T | PT OZ/T | NI % | CU % | co % | ICP % | AS· |
|---|---------------|--|---------|---------|------------|------------|------------|----------|---------|---------------|----------|----------|
| - | в 5069 | Expo 8 Qtz Float | urra | the sea | 17.6100 | 2.819/7 | | seen | 911 | 3 <i>91</i> 1 | | المعرمرح |
| | 5070 | #1 Expo 8 Whiteman Creek | 9000 | 50994 | 0.7/17 | ND | | 2117 | 5000 | 2000 | | 2000 |
| | 5071 | Expo 8 Rock Slope | 4100 | 31/10 | .1110 | 31911 | | 3910 | 3111 | ח מק ב | į l | 2102 |
| | 5072 | Expo 8 N.W. Corner | 8110 | 72 ADA | 0.500 | ND | | 9.00 | Alph | SPM | | 2.77- |
| | 5073 | E. Edge of Expo 8 in place | SPIN | 78 840 | •7 PM | | | 84 8 814 | 15944 | ISPAN | | 2 110 |
| | 5074 | Expo 8 #3 (Soil Samp.) | 16110 | 49110 | 2.3000 | ND | | 19000 | 91 1 PM | 6100 | | 2000 |
| | 5075 | Expo 8 #7 | 81.50 | 4.7/7 / | 0.1/1 | 140 | | 7000 | 9110 | 5900 | | 2.000 |
| | 5076 | Expo 8 #4 | y PPA | \$5,000 | 1.100 | UN P | | 700 | LOPA | 3000 | | 2000 |
| | 5077 | Expo 8 | 8111 | 33,000 | 0.4811 | | | 4100 | *** | 3000 | | 2,000 |
| | 5078 | Expo 4 Top burried sold | 12.000 | 5-200 | 0.900 | on | | 10114 | 33 110 | 4 CAN 2 | | 3000 |
| | /mfl cc: | Van. Office Nelson Office | | | | | | | | | | |
| | | denotes samples collected on Expo 7/8 | | | | 1 | ł | | | ł | 1 | |

| 53774 | <0.005 | <0.005 |
|-------|--------|--------|
| 53775 | 1.18 | <0.005 |
| 53776 | 1.01 | <0.005 |
| 53777 | 0.04 | <0.005 |
| 53778 | <0.005 | <0.005 |

denotes samples collected on Expo 7/8

| JULV 4. 1700 | J | u | 1 | v | 4. | 1988 |
|--------------|---|---|---|---|----|------|
|--------------|---|---|---|---|----|------|

Kootenay Analytical Laboratories Ltd.

Samples for Dragoon Resources Ltd.

| Sample # | Ag | Au |
|----------|--------|--------|
| 53621 | 0.02 | <0.005 |
| 53622 | 1.23 | <0.005 |
| 53623 | 1.01 | <0.005 |
| 53751 | 0.20 | <0.005 |
| 53752 | 1.40 | <0.005 |
| 53753 | 0.14 | <0.005 |
| 53754 | <0.005 | <0.005 |
| 53755 | 0.22 | <005 |
| 53756 | 0.21 | <0.005 |
| 53757 | 0.16 | <0.005 |
| 53758 | 0.13 | <0.005 |
| 53759 | 0.10 | <0.005 |
| 53760 | 0.25 | <0.005 |
| 53762 | 1.03 | 0.04 |
| 53763 | 0.85 | <0.005 |
| 53764 | 0.94 | <0.005 |
| 53765 | 1.05 | 0.05 |
| 53766 | 0.74 | <0.005 |
| 53767 | 1.08 | <0.005 |
| 53768 | 0.71 | ≪0.005 |
| 53769 | 1.22 | <0.005 |
| 53770 | 0.15 | <0.005 |
| 53771 | 0.10 | <0.005 |
| 53772 | 1.21 | <0.005 |
| 53773 | <0.005 | <0.005 |

denotes samples collected on Expo 7/8

Kootenay Analytical Laboratories Ltd. July 11, 1988 Samples delivered by South Kootenay Gold Fields. Geochem Samples 0.5 g sample digested 1 hr. @ 100~ c in 3:1:2 HCL:HN03:H20. Sample # Рb Ni Cu Żn ppm ppm ppm ppm 53621 * 54.8 16.2 38.0 4.4 53622 25.5 31.7 54.8 134.1 53623 21.9 5.3 41.4 90.7 53751 10.8 15.4 79.1 55.8 53752 12.6 23.9 81.0 101.9 53753 29.8 16.7 140.1 85.5 53754 5.8 10.6 51.3 46.6 53755 3.8 18.8 136.1 99.6 53756 11.6 8.7 68.3 54.3 53757 31.7 22.8 150.2 46.2 53758 7.4 17.7 104.6 106.3 53759 13.7 9.0 23.6 72.8 53760 35.9 56.6 241.8 59.2 53762 25.5 10.5 304.8 48.1 53763 17.2 19.0 233.7 80.9 53764 6.8 8.2 60.5 47.9 53765 29.2 4.2 24.2 40.9 53766 13.8 3.7 13.9 61.1 53767 10.0 8.0 25.4 49.5 53768 9.3 8.8 29.0 72.7 53769 5.6 8.1 39.0 49.2 53770 10.6 6.3 42.9 64.2 53771· 10.6 3.6 14.4 30.3 53772 7.4 30.5 48.9 61.7 53773 16.2 4.1 16.7 93.8 53774 · 9.8 4.3 14.8 40.6 53775 16.2 5.0 15.9 61.7 53776 16.0 3.0 15.2 65.1 53777 12.1 26.6 43.8 75.5 53778 / 22.4 11.3 215.0 25.8

PROJECTI EXPO 7,8,416

SATE JUNE 28/88 SHIPPED:

WEICHBILL .- NUMBER:

| SAMPLE NO. | SAMPLE LOCATION | PPM 29 * | PPM ZN X | λG •2/T | λU •2/Τ | PT ez/T | PPM NI % | CU X | co × | ICP × | |
|---------------|--|----------------|----------------|------------|------------|------------|----------------|---------|---------|----------|----|
| (53751 | ELPC TIE . UPPER ROAD (SWHITEMAN) 297 M. From Nich | 10.8 | 05.5 | .2 | 6005 | | 12.4 | 79.1 | | | |
| 52 | " 255 M from swithbad | 12.6 | 101.9 | 1.4 | 4005 | | 23,9 | 81.0 | | | |
| 53 | " " all M from " " | 39.4 | 85.2 | •14 | 4.405 | | 16.7 | 140.1 | | | |
| 54 | | 5.2 | 46.6 | 4.005 | 6.005 | | 10.6 | 51.3 | | | |
| 55 | | 3 8. | 99.6 | - 2.2 | 6.45 | | 18.8 | 136.1 | | | |
| 56 | · · · · · · · · · · · · · · · · · · · | 11.6 | 54.3 | 121 | 6-005 | | 8.7 | 68.3 | | | |
| 57 | <u></u> | 31.7 | 46.2 | .16 | 2.005 | | 22.8 | 150.2 | - | | |
| 58 | ······ 240 M · ··· | 7-4 | 101-3 | -13 | 6.005 | | 17.7 | 104.6 | | | |
| 59 | ···· · · · · · · · · · · · · · · · · · | 13.7 | 13.8 | •1 | 6.005 | | 9.0 | 23.6 | | | |
| 60 | · · · · · · · · · · · · | 35.9 | 59.2 | .35 | 4.005 | | 56.1 | 241.8 | | | |
| 61 | | 1 | | | | | | | | | - |
| 62 | " " 1514 - " " | 35.5 | 48.1 | 1.03 | .04 | | 10.5 | 304.8 | | | |
| 63 | " " ічым " " | 17.2 | 80.9 | .85 | Lioj | | 19.0 | 3337 | | | |
| 64 | ······································ | 18 | 47.9 | -44 | 1.cc. | | 8.2 | 60.5 | | | |
| . 65 | 300 M " " " | 29.2 | 40.9 | 1.05 | 8.05 | | 4.2 | 24.2 | | | |
| 66 | fleat 180-290 M from Swithbuck unzero | 13.6 | 61.1 | . 74 | 1445 | 1 | 3.7 | 13.9 | | | - |
| 67 | Exac 4/6 Alt. 4415'-onthuff (slide with acet | 10.0 | 49.5 | 1.08 | (.005 | | 8.0 | 25.4 | | | |
| 68 | " " 20' klow 5:mak 53167 | 9.3 | 72.7 | - 71 | 6.005 | 1 | 8.8 | 29.0 | | | 1 |
| bi | 1 " " " 53768(REC | 3 5.6 | 49.2 | 1.1.22 | 1.005 | - | 8.1 | 39.0 | | | |
| ٦ | > Shine Bine on Akun Whileman Rd. Eron 7. | 10.6 | 64.2 | .15 | 5.005 | | 6.3 | 42.9 | | | - |
| 7 | 1 Exant 300' poot sin tch back | 10.6 | 30.3 | .1 | 1 <.00 | | 3.6 | 14.4 | | | 1- |
| 7 | 2 " " 335' Augula tuli. | 7.4 | 61.7 | 1.21 | 1.00 | | 30.5 | 480 | | | 1- |
| 7 | 3 4.5 km from intervation (Rd Small) | 16.2 | 93.8 | 14.005 | 1 600 | | 4.1 | 16.7 | | | |
| 7 | 4 Exec 7/8 Rd Samot 1.5 hon fr. bridge | 9.8 | HAL | 1.00 | 1 4.00 | 5 | 4.2 | 140 | 1 | 1 | 1 |
| •••• í | Whiteman R | | 1 10.0 | Γ¢ | lenote | s sam | ples o | collec | ted | on | |

PROJECTI EXPO 7/8/4 \$6 .

DATE dune 28/88 SHIPPEDI

WEIGHBILL .- NUMBER:

| SAMPLE No. | SAMPLE LOCATION | 09m 44 X | PPM 2N X | λC 02/T | λU 02/T | PT •2/7 | PPM NI X | × 0 590 | co × | ICP × | •• |
|---------------|---------------------------------------|----------------|----------------|------------|------------|------------|----------------|------------|---------|----------|---------|
| C\$3775 | Expe 4/6 Rd Sample from bride on | 16.2 | \$1:7 | 1.18 | Les | | 5.0 | 15.9 | | | |
| 0 53623 | Expo 8 50' S. of 53623 | 21.9 | 90.7 | 1.01 | 4.005 | | 5.3 | 41.4 | | | |
| C 53776 | " Main White man Rd | 16:0 | 65.1 | 1.01 | 4.005 | | 3.0 | 15.2 | | | |
| C53777 | Mais Kow Expo 8 | 12.1 | 75.5 | .64 | 4.005 | | 43.8 | 26.6 | | | |
| :\$3778 | Dar Rd 118 m to . 1 km abase build | 22.4 | 25.8 | 4.005 | 4.005 | | 11.3 | 215.0 | | | |
| C 53621 | Éxpa & (Andesite) | 54.8 | 4.4 | .02 | <.005 | | 16.2 | 36.0 | | | |
| <u>C53622</u> | " " 400'SWim Rdfi. S.PCine | 25.5 | 134. | 1.23 | (.005 | | 31.7 | 34,8 | | | |
| | | | | | | | | | | | |
| | · | | | | | | | | | | |
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| | | 1 | 1 | - | - | | 1 | | | | 1 |
| | | | | - | | | | | - | | |
| | denotes samples collected Expo 7/8 | on | | | | 1 | | 1 | 1 | 1 | \perp |

Appendix 2

| Мар | 1 | Claim Group Geology and Geochemistry (1987 Program) |
|-----|---|--|
| Мар | 2 | Expo 7 - Geology and Sample Locations (1988 Program) |
| Мар | 3 | Expo 8 - Geology and Sample Locations (1988 Program) |
| Мар | 4 | Expo 7 - Š.P. Test (1988 Program) |
| Мар | 5 | Expo 8 - S.P. Test (1988 Program) |

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EXPO 8 GEOLOGY



PROGRAM)



EXPO 8 S.P. TEST



Appendix 3

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Self Potential Data

Line: C

Starts: Southeast corner of Expo 8

Readings (True Uncorrected)

| 25m | -8 M.V. | 700m | -1 M.V. | 1375m | -2 M.V. |
|-----|---------|------|---------|-------|---------|
| 50 | 3 | 725 | -12 | 1400 | 0 |
| 75 | -7 | 750 | 3 | 1425 | 7 |
| 100 | -1 | 775 | 5 | 1450 | -10 |
| 125 | 4 | 800 | 0 | 1475 | 3 |
| 150 | -3 | 825 | 4 | 1500 | -10 |
| 175 | 6 | 850 | 2 | 1525 | 20 |
| 200 | -5 | 875 | -3 | 1550 | -9 |
| 225 | 4 | 900 | -3 | 1575 | 7 |
| 250 | 1 | 925 | 5 | 1600 | 0 |
| 275 | - 4 | 950 | -3 | 1625 | 3 |
| 300 | -2 | 975 | -13 | 1650 | -5 |
| 325 | 11 | 1000 | 3 | 1675 | -7 |
| 350 | -3 | 1025 | 1 | 1700 | 15 |
| 375 | -12 | 1050 | - 8 | 1725 | 14 |
| 400 | 4 | 1075 | 3 | 1750 | -13 |
| 425 | -1 | 1100 | - 4 | 1775 | -4 |
| 450 | 2 | 1125 | 9 | 1800 | 7 |
| 475 | 3 | 1150 | 3 | 1825 | 2 |
| 500 | -10 | 1175 | 3 | 1850 | 1 |
| 525 | 7 | 1200 | -6 | 1875 | -9 |
| 550 | -2 | 1225 | 4 | 1900 | -1 |
| 575 | -5 | 1250 | 6 | 1925 | 1 |
| 600 | -2 | 1275 | 14 | 1950 | 5 |
| 625 | 10 | 1300 | -3 | 1975 | -13 |
| 650 | 3 | 1325 | 0 | 2000 | 4 |
| 675 | -4 | 1350 | 16 | | |

Line: D

Starts: Western edge of swamp/shear zone (west to east) Readings (True Uncorrected)

| Om | 13 M.V. | 100m | 14 M.V. |
|----|---------|------|---------|
| 20 | 3 | 120 | 0 |
| 40 | 24 | 140 | 15 |
| 60 | 7 | 160 | 5 |
| 80 | 6 | 180 | 15 |

EXPO 7 SELF POTENTIAL SURVEY DATA

Line: A

Starts: S. Whiteman Rd. (the more southerly of the two east-west roads)

Readings (True Uncorrected)

| 0 | 4 N | 1.√. | 200 | -3 M.V. |
|-----|-----|------|-----|----------------|
| 25 | -9 | | 225 | -12 ' |
| 50 | 1 | | 250 | - 3 |
| 75 | 0 | | 275 | -6 |
| 100 | -1 | | 300 | 2 |
| 125 | -8 | | 325 | 16 |
| 150 | 1 | | 350 | - 5 |
| 175 | -4 | | 375 | -11 |

Line: B

Starts: S. Whiteman Rd. (the more northerly of the two east-west roads)

Readings (True Uncorrected)

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| 0 | 6 M,V. | 400 | -2 M.√. | 800 | 1 M.V. |
|-----|--------|-----|---------|------|--------|
| 20 | -6 | 420 | -22 | 820 | ο ΄ |
| 40 | 0 | 440 | 4 | 840 | -3 |
| 60 | -3 | 460 | -14 | 860 | 2 |
| 80 | -8 | 480 | 26 | 880 | -3 |
| 100 | -2 | 500 | 5 | 900 | 18 |
| 120 | 2 | 520 | -21 | 920 | -9 |
| 140 | 10 | 540 | -1 | 940 | 4 |
| 160 | -10 | 560 | -7 | 960 | 19 |
| 180 | 0 | 580 | 1 | 980 | -13 |
| 200 | 1 | 600 | 8 | 1000 | 3 |
| 220 | -5 | 620 | -6 | 1020 | 12 |
| 240 | -1 | 640 | -3 | 1040 | -2 |
| 260 | 4 | 660 | -3 | 1060 | 2 |
| 280 | -1 | 680 | - 4 | 1080 | 3 |
| 300 | 2 | 700 | 0 | 1100 | 7 |
| 320 | 5 | 720 | -5 | 1120 | -1 |
| 340 | -3 | 740 | 4 | 1140 | -4 |
| 360 | -8 | 760 | -1 | 1160 | 5 |
| 380 | 8 | 780 | -11 | | |

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