

LOG NO: 1012	RD.
ACTION:	
FILE NO:	

SUMMARY REPORT
on the
PAVEY PROPERTY

Bennett Lake Area
Atlin Mining Division

FILMED

GEOLOGICAL BRANCH
ASSESSMENT REPORT

17,830

SUMMARY REPORT

on the

PAVEY PROPERTY

LQ ASSESSMENT REPORT

(PAVEY 1-6, LQ and BEN 1-4 Claims)

Bennett Lake Area

Atlin Mining Division

NTS 104-M-15W

Lat. $59^{\circ}56'N$, Long. $134^{\circ}43'W$

For:

LODESTAR EXPLORATIONS INC.

Suite 19, 4078 Fourth Avenue

Whitehorse, Y.T. Y1A 4K8

By:

G.S. DAVIDSON, P. Geol.

September, 1988

TABLE OF CONTENTS

	Page
SUMMARY.....	1
INTRODUCTION.....	2
LOCATION AND ACCESS.....	2
PHYSIOGRAPHY, CLIMATE, VEGETATION.....	5
PROPERTY.....	5
REGIONAL GEOLOGY.....	7
HISTORY AND PREVIOUS WORK.....	9
1987 EXPLORATION PROGRAM.....	11
1988 EXPLORATION PROGRAM.....	11
Property Geology.....	11
Mineralization.....	14
GEOCHEMICAL AND GEOPHYSICAL RESULTS, 1982-1983.....	21
CONCLUSIONS AND RECOMMENDATIONS.....	27
REFERENCES.....	29
CERTIFICATE.....	30
STATEMENT OF COSTS.....	31

List of Figures

FIGURE 1	Location Map.....	3
FIGURE 2	Bennett Lake District - Regional Map....	4
FIGURE 3	Claim Plan.....	6
FIGURE 4	Regional Geology.....	8
FIGURE 5	Property Plan.....	12
FIGURE 6	Detailed Plan of the Main Gully.....	15
FIGURE 7	Detailed Plan of Ben Creek.....	17
FIGURE 8	Detailed Plan of South End of PAVEY #4 Claim.....	18
FIGURE 9	Detailed Plan of I8 Claim.....	19
FIGURE 10	South Adit.....	26

List of Tables

TABLE I	Table of Formations.....	5
TABLE II	Rock Sample Values, Descriptions and Locations.....	21

List of Appendices

APPENDIX I	Sample descriptions and values from Assessment and Exploration reports on the Ben and Gaug Claims
APPENDIX II	Certificates of Analysis

SUMMARY

The PAVEY property consists of 140 units located between Bennett and Tutshi Lakes in the Tagish Highlands of the Atlin Mining Division in northwestern British Columbia. The property covers gold and silver rich mineralization in shears and quartz veins related to several strong north and northwesterly trending faults. The claims are underlain by layered sedimentary, volcanic and metamorphic rocks intruded by granitic bodies and porphyry dykes.

Previous work by Du Pont of Canada and Texaco Canada Resources Ltd. located quartz-arsenopyrite and quartz-stibnite-arsenopyrite veins concentrated in the "main gully" and around the Ben Fault at the head of Ben Creek. The "main gully" is a steep sided gorge which descends from a plateau area down the westerly facing slope overlooking Bennett Lake. Along the rocky walls of this gorge mineralized veins occur over a 1000 meter section. The Ben Fault is a northwesterly trending structure that cuts argillites and Boundary Range metamorphic rocks on the upland plateau; veins and shear zones containing one or more of pyrite, arsenopyrite, galena, sphalerite, stibnite and chalcopyrite lie parallel and nearby the Ben Fault. Du Pont and Texaco completed extensive rock sampling and soil geochemical surveys from 1982-1983.

In 1987 the writer supervised a prospecting and sampling program on the PAVEY claims. In the "main gully" sample results correlated well with those obtained by Du Pont. Of the 10 samples taken (1987), 6 recorded gold values between 0.1 and 1.44 oz/ton; silver values were up to 12.6 oz/ton. No sampling was undertaken on the BEN claims as these claims were not under option to Lodestar until March, 1988. Earlier sampling by Texaco located seventeen mineral occurrence which produced gold values greater than or equal to 1.0 ppm and/or 70.0 ppm silver. Peak gold values are reported at 0.708 oz/ton and maximum silver values at 66.75 oz/ton.

At the south end of the PAVEY claims a 300 meter long adit, excavated in 1916-1917 remains open and in good condition. Apparently the drift was designed to intersect a ruby silver bearing ore body. Prospecting in 1987 located auriferous quartz veins above the adit returning values up to 0.433 oz/ton Au. However, no significant silver mineralization was found within or around the adit.

In 1988 a prospecting crew traced a .5-1m wide quartz vein (IQ vein) over a 350 m strike length on the IQ and adjoining BEN claim. The vein contains up to 20% arsenopyrite, 5% galena, 5% spalerite and less chalcopyrite. Gold value from six samples range from .05 to 0.28 oz/ton and silver values from 2.0 to 11 oz/ton.

A two phase exploration program is recommended for the PAVEY property. Phase I at a proposed budget of \$140,000 consists of blast and backhoe trenching, prospecting, geological work and road construction. Phase II consists mainly of diamond drilling and is proposed at a cost of \$195,000.

INTRODUCTION

The PAVEY 1-6, BEN 1-4 and LQ Claims (140 units) cover gold and silver bearing, sulphide rich (Pb-Zn-As-Sb) quartz veins and shear zones located north of Paddy Pass and east of Bennett lake in the Atlin Mining District of northwestern British Columbia. The property is accessible via the Klondike Highway which passes within 1 km of the eastern margin of the claim block at Tutshi Lake. The Klondike Highway links Skagway, Alaska at tidewater to Whitehorse, Yukon.

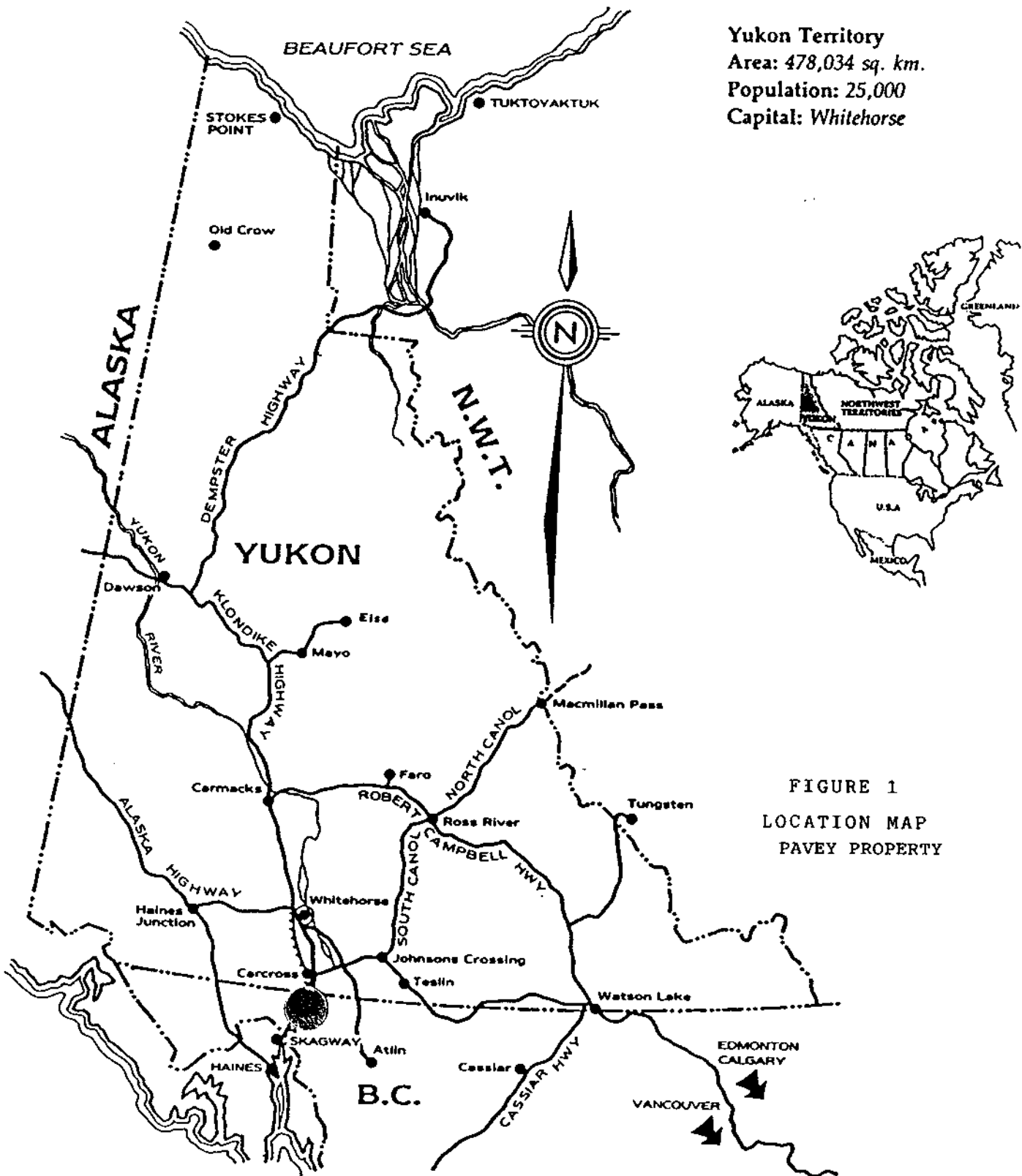
The PAVEY 1-6 and LQ Claims were staked in 1986-1987 to cover ground previously held by Du Pont of Canada (Gaug Claims) which lapsed in 1986. The PAVEY and LQ Claims are owned by G. Harris and G. Davidson of Whitehorse; Lodestar Explorations Inc. holds an option to acquire a 100% interest in the claims. The BEN 1-4 Claims are held by Texaco Canada Ltd. and Lodestar can earn a 100% interest in these claims by fulfilling the terms of an option agreement.

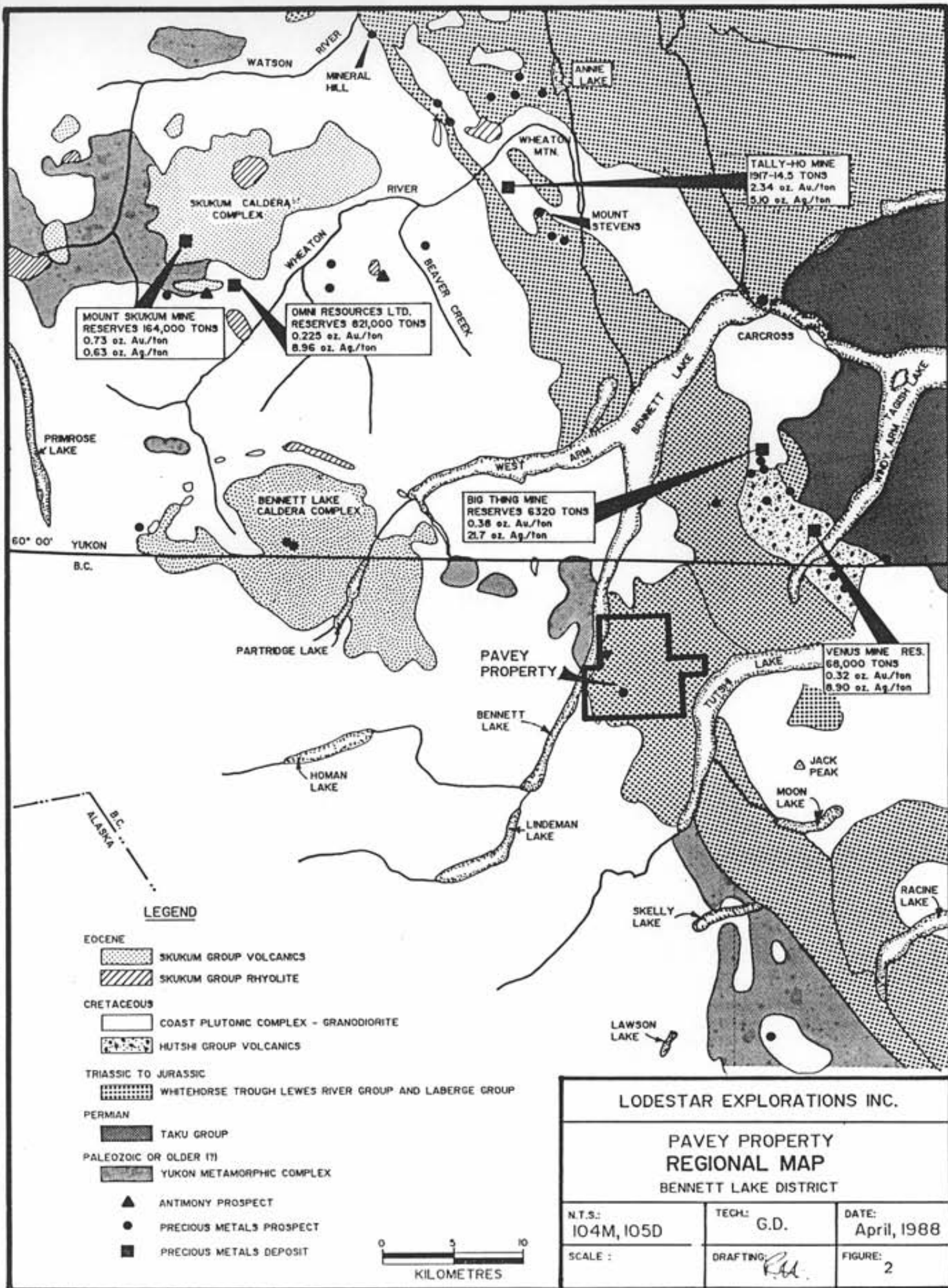
Du Pont and Texaco completed work programs on their respective properties from 1982-1983 and reported numerous gold and silver bearing sulphide rich mineral occurrences associated with northwesterly trending faults and shears cutting volcanic and metamorphic rocks. Geochemical and geophysical surveys were also performed.

This report, prepared at the request of Brian Lueck, president of Lodestar Explorations Inc., summarizes an exploration program conducted on the PAVEY 1-6 claims in July, 1987 and 1988 and reviews assessment reports on the Gaug claims and reports on the BEN claims made available by Texaco Canada Ltd.

LOCATION AND ACCESS

The PAVEY property is located in northwestern British Columbia, 28 km south of Carcross and 60 km south of Whitehorse on N.T.S. Map Sheet 104 M-15. Approximate geographical co-ordinates are 59°56' north and 134°43' west. The claims lie on the east side of Bennett Lake, with the White Pass and Yukon rail road passing through the western edge of the property. The Klondike Highway which links Skagway, Alaska to Whitehorse, Yukon is 1 km east of the claim block beside Tutshi Lake. A natural access route to the property is available via a northwesterly trending valley. An application to construct a road up this valley has been approved by the B.C. Ministry of Energy, Mines and Petroleum Resources. Figures 1 and 2 show the property location.





PHYSIOGRAPHY, CLIMATE and VEGETATION

The PAVEY property is situated in the Tagish Highlands of the Coast Mountain Ranges of the northwestern cordillera. The claims lie between 660 and 2200 meters, covering a steep westerly facing slope beside Bennett Lake and a broad upland interior featuring a till covered plateau surrounded by rocky ridges. Several small creeks occupy steep canyons which descend from the upland plateau down the slope overlooking Bennett Lake. In the upland area tarns lie at the headwaters of Ben Creek which flows into Tutshi Lake.

Alpine areas in northwestern British Columbia have a northern interior climate modified by the Pacific Ocean. The property lies on the western side of the Coast Mountain Ranges where winter snow packs are 2-3 meters deep and annual precipitation averages 75 cm. Summers last from late June to late September with temperature averaging 12°C.

Spruce forest and buckbrush are thick up to 1400 meters on the east shore of Bennett Lake. Elsewhere the property is generally above treeline and alpine grasses and moss are the dominant flora. Outcrop is extensive on the steep slopes and ridges surrounding the upland plateau.

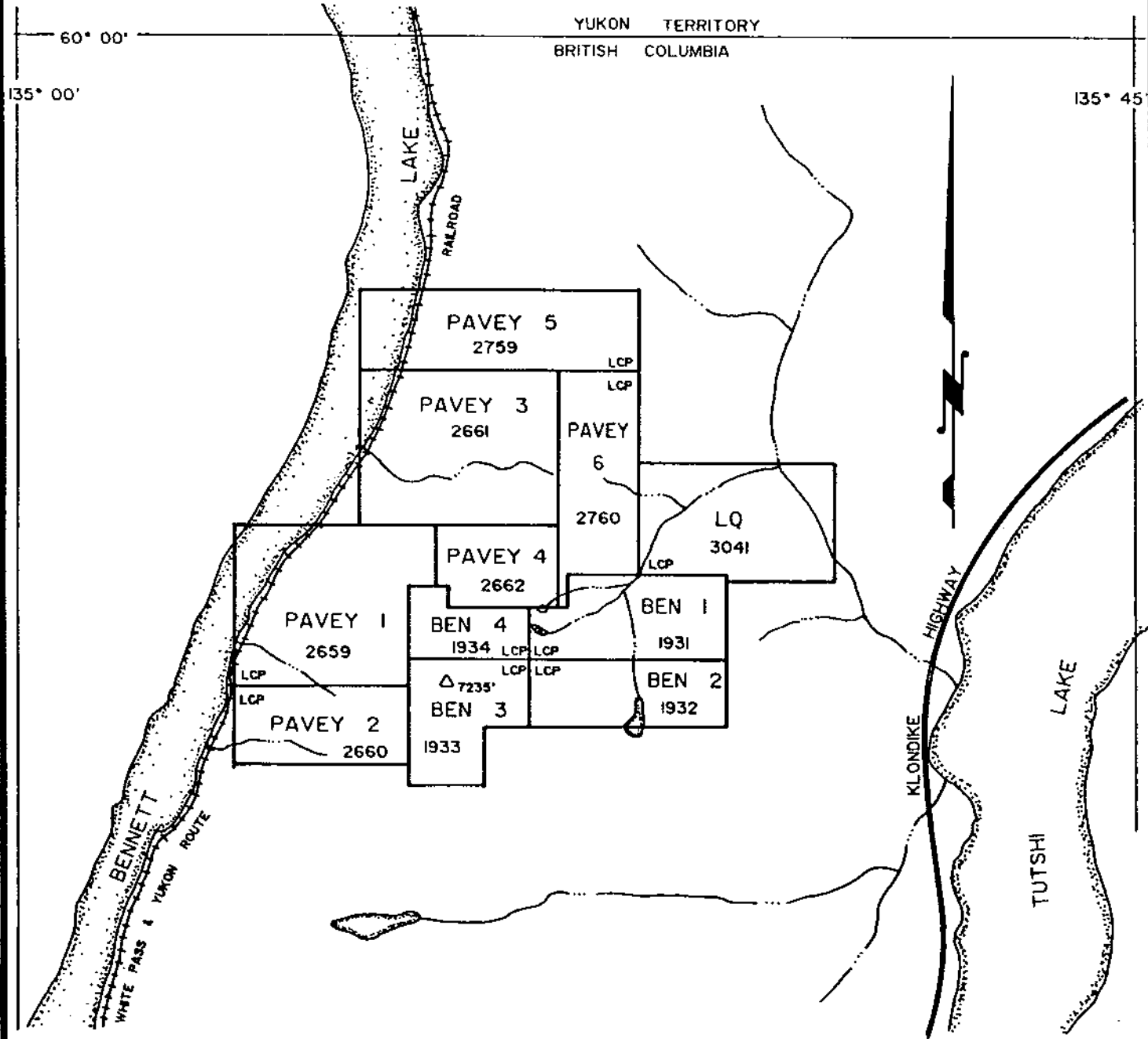
PROPERTY

The PAVEY property consists of eleven claims registered with the district Gold Commissioner in Atlin, B.C., as listed in Table I. Figure 3 shows the claim plan.

TABLE I
PROPERTY DATA

<u>Claim Name</u>	<u>Number of Unit</u>	<u>Record Number</u>	<u>Recording Date</u>	<u>Expiry Date</u>
PAVEY 1	20	2659(8)	August 1, 1986	August 1, 1989
PAVEY 2	10	2660(8)	August 1, 1986	August 1, 1989
PAVEY 3	20	2661(8)	August 1, 1986	August 1, 1989
PAVEY 4	6	2662(8)	August 1, 1986	August 1, 1989
PAVEY 5	12	2759(11)	Nov. 7, 1986	Nov. 7, 1989
PAVEY 6	12	2760(11)	Nov. 7, 1986	Nov. 7, 1989
LQ	15	3041	July 24, 1987	July 24, 1990*
BEN 1	15	1931(7)	July 4, 1983	July 4, 1994
BEN 2	15	1932(7)	July 4, 1983	July 4, 1994
BEN 3	9	1933(7)	July 4, 1983	July 4, 1994
BEN 4	6	1934(7)	July 4, 1983	July 4, 1994

*applied for



LODESTAR EXPLORATIONS INC.		
PAVEY PROPERTY CLAIM PLAN		
BENNETT LAKE, BRITISH COLUMBIA		
N.T.S: 104M-15W	TECH: G.D.	DATE: OCT. '87
SCALE: 1: 75,000	D'ING: B.B.	FIGURE: 3

G. Harris and G. Davidson of Whitehorse, Yukon are the registered owners of the PAVEY 1-6 and IQ claims, and Texaco Canada Ltd. is the registered owner of the BEN 1-4 claims. Lodestar Explorations Inc. has entered into separate agreements with Texaco and Harris-Davidson to acquire 100% interest in the respective claims.

REGIONAL GEOLOGY

The Bennett Lake district overlies the contact between two terrains: (1) the Intermontane Belt of the western Cordillera and (2) the younger volcanic and intrusive suite of the Coast Intrusions.

The Intermontane Belt features a complex assemblage of deformed volcanic and sedimentary rocks consisting of the Upper Triassic/Lower Jurassic Lewes River Group (Takla-Nicola), the Lower and Middle Jurassic Laberge Group (Stuhini Group) and Proterozoic metamorphic rocks.

Cretaceous granitic rocks of the Coast Intrusions are the most common in the district; typically, they consist of fresh quartz monzonite or quartz diorite. Remnants of Proterozoic gneiss, schist and limestone occur in the granitic intrusives.

A younger series of andesite, dacite and rhyolite flows, tuffs and agglomerates, mapped as the Late Cretaceous-Tertiary Mount Skukum Group (Mount Nansen Group-Sloko Group) intrude and overlie granitic rocks at Montana Mountain, Mount Skukum and Mount Macauley. Also, dykes of Tertiary and Eocene age intrude all rocks in the district.

The geology of the Bennett Lake district was mapped by R.L. Christie of the G.S.C. (published as Map No. 19-1957) and the Tutshi Lake Area was remapped by M. Mihalynuk and J. Rouse of the B.C. Geological Survey Branch, published as OPEN FILE MAP 1988-5. Figure 4 shows the property geology.

Structurally, the area features major faults, primarily along river and lake valleys associated with movement in the Coast Intrusive complex and with early Tertiary volcanism at Mount Skukum, Mount Macauley and Montana Mountain. The Skukum Group volcanic rocks may be equivalent to the Sloko Group of northern B.C. and the Mount Nansen Group of central Yukon. Late stage features of Skukum Group volcanism include dacite, rhyolite and granitic dykes, emplaced in fractures and fault zones around the volcanic complexes, and quartz carbonate veining with significant precious and base metal mineralization.



LEGEND
LAYERED ROCKS

- QUATERNARY**
 Qa Unconsolidated glacial till and poorly sorted alluvium.
MOORE TO UPPER JURASSIC (I)
 muJy Variegated pyroclastic tuffs; banded felsic porphyry flows.
LOWER JURASSIC
LABERGE GROUP, NWLN FORMATION
 IJLi Argillite
 IJLiC Conglomerates
UPPER TRASSIC
STURGE GROUP
 uKs Tuffs, flows and breccias
PALEOZOIC (I) TO UPPERMOST TRASSIC
 Pfc Conglomerates
PALEOZOIC TO PROTEROZOIC (I)
BOUNDARY RANGES METAMORPHICS
 PPM Metamorphic terran of uncertain origin
 PPMa Argillaceous siltstones, felspathic wackes and lesser felsic pyroclastics
 pyroclastics and carbonates.
 PPMp Altered pyroxenites, isolated gabbros and mafic flow successions.

INTRUSIVE ROCKS

- UPPER CRETACEOUS**
COAST INTRUSIONS
 uKg1 Medium to coarse grained hornblende and biotite granites.
 uKg2 Equigranular uKg1-lacking megacrystic potassium feldspar.
 uKod,u,d Granodiorite, quartz monzonite, granite and diorite.
CRETACEOUS
 Kq1,qm,q4 Granodiorite, quartz monzonite, granite and diorite.
PALEOZOIC (I) TO TRASSIC
 Pfgs Altered and deformed intrusives, leucogranite and quartz-diorite.

SYMBOLS

- Geological Boundaries (known, approximate, assumed) _____
- Unconformity (defined, assumed) _____
- Bedding (inclined, vertical) _____
- Schistosity, foliation (inclined, vertical) _____
- Joint (inclined, vertical) _____
- Dyke (inclined, vertical) _____
- Anticline (defined, approximate, assumed) _____
- Syncline (defined, approximate, assumed) _____
- Minor fold (ingens) _____
- High angle fault (defined, approximate, assumed) _____
- Thrust fault (defined, approximate, assumed) _____

Geology from B.C. Geological Survey Branch, Open File Map 1968-5.

LODESTAR EXPLORATIONS INC.		
PAVEY PROPERTY		
REGIONAL GEOLOGY		
BENNETT LAKE AREA, BRITISH COLUMBIA		
STR:	TECH:	DATE:
104 M-15	G.D.	MAR., 1988
SCALE:	DRAFTING:	FIGURE:
1:50000	RJL	4

HISTORY and PREVIOUS WORK

The Bennett Lake district was first explored by prospectors travelling along the major lakes and rivers in the early 1890's. The Klondike gold Rush brought a great influx of people to the area in 1898. Gold and silver bearing quartz veins were discovered around Bennett and Tagish Lakes, and in the Wheaton River drainage. High grade mining operations at the Engineer mine beside Taku Arm, Tagish lake, and at the Venus and Big Thing mines on Montana Mountain produced gold and silver periodically during the early 1900's.

Near Pavey, B.C. on the White Pass and Yukon Rail Road, two claims were staked by Fred H. Storey around 1913. The SILVER QUEEN and RUBY SILVER claims were reported to overly highgrade silver mineralization. The early workers built a 1.2 km tramway from the railroad at 660 m elevation up the mountain side to 1400 m elevation. They then excavated a 300 m long adit towards the perceived mineralization. This adit is located on the PAVEY #2 claim and remains open and in good shape. No records of production exist and from the appearance of the adit, ore was not intersected. Three shorter adits are located in a steep gully 2.5 km to the north (PAVEY #3 claim) of the Ruby Silver adit. The history of these workings is unknown. They uncover mineralized quartz veins which occasionally contain visible gold.

From the mid-1920's to the late 1960's, little exploration of significance took place. By 1970, many of the old showings were restaked as an increase in the value of base and precious metals rekindled the interest of mining companies and prospectors. The Venus and Arctic mines operated on Montana Mountain between 1969 and 1971. The Venus mine was rehabilitated again from 1980 - 1981 and a new mill was installed at the southern end of Windy Arm, Tagish Lake.

In the 1980's the discovery and development of the Mount Skukum gold deposit in the Wheaton River area initiated a methodical staking rush in which much of the Wheaton River and Lake Bennett district has been staked. Gold production at Mount skukum commenced in 1986 and a production decision on the nearby Omni Resources property is pending.

From 1981 - 1986 Du Pont of Canada held the GAUG claims over the area presently covered by the PAVEY 1-4 claims. During 1982 and 1983 Du Pont completed geological and geochemical surveys on the upland plateau and over a steep rocky gully which descends from the upland area to the east shore of Bennett Lake. They rediscovered several old adits in the gully. Of 33 rock samples collected by Du Pont, 15 contained gold values of .1 - .805 oz/ton and silver values up to 66 oz/ton. Du Pont also outlined strong precious and base metal geochemical anomalies in the gully and on the surrounding upland surface. Peak gold and silver values in soil were 1150

ppb and 46 ppm respectively. Du Pont ceased exploration activities in the region after the 1983 season.

In 1983 Texaco Canada Ltd. staked the BEN 1-4 claims and performed geological, geophysical and geochemical surveys. Seventeen mineral occurrences produced gold values greater than or equal to 1000 ppb and/or silver values greater than or equal to 70 ppm. The mineralized veins and shear zones contain one or more of pyrite, arsenopyrite, galena, spalerite, stibnite, chalcopyrite and rarely siderite. Although most of the mineral occurrence were of limited size Texaco's consultants concluded that there was potential for larger silver and gold deposits along or near a northwesterly trending fault which traverses the upland plateau passing through both the BEN and at that time GAUG claims. Further details of Du Pont's and Texaco's exploration work are summarized in Appendix I.

1987 EXPLORATION PROGRAM

On July 10, 1987 a four-man field crew mobilized onto the PAVEY property, locating camp just east of the PAVEY #6 claim. Crowsnest Helicopters, based in Whitehorse, provided air support.

A 1.75 km picket baseline trending north/south was established on the upland plateau with the BL 0+00 south picket located at the old legal cornerpost of Du Pont's GAUG 1 and 2 claims. 3.4 km of picket crosslines were extended primarily to the west of the baseline to tie in claim posts, old pits and quartz veins. The "main gully" where Du Pont located numerous mineralized veins and geochemical anomalies was also tied into the grid. The property plan is shown in Figure 5.

Blast and hand pits were excavated on quartz-sulphide veins in the "main gully" and beside a small tarn at the south end of the grid (PAVEY #4 claim). A Cobra gasoline drill was utilized for trenching.

Thirty rock samples were collected on prospecting and reconnaissance mapping traverses. The samples were first geochemically analyzed for 17 elements by Bondar-Clegg. Samples with high values in Au-Ag-Pb-Zn were then assayed. The Certificates of Analysis are presented in Appendix II. Sample values, locations and descriptions are summarized in Table II, and Figures 6,7 and 8 show the sample sites. Du Pont and Texaco data is included on the maps and in the following sections.

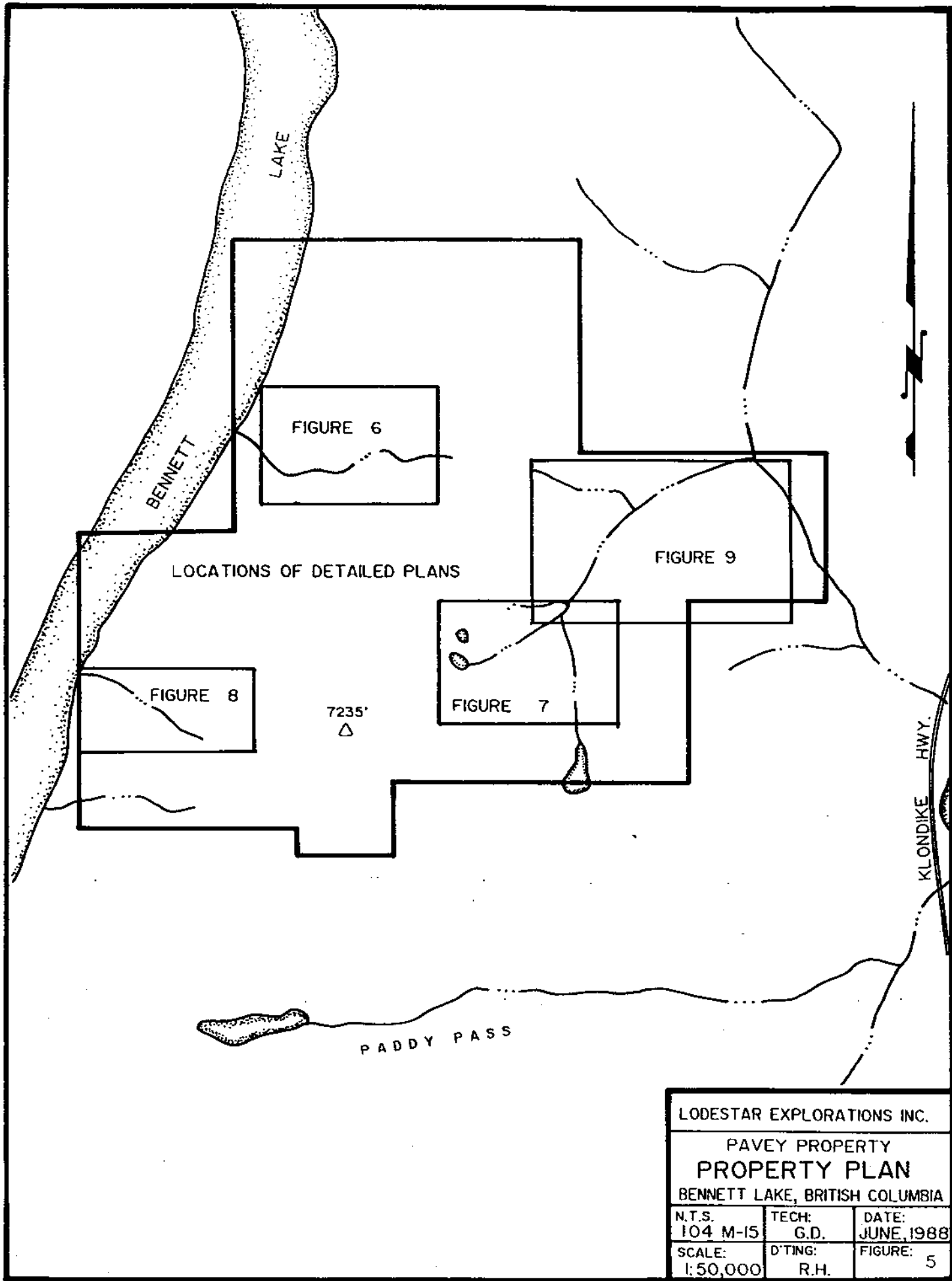
1988 EXPLORATION PROGRAM

On July 19, 1988 the writer and a two-man field crew flew onto the IQ claim from a base camp at Partridge Lake. Also, a two-man crew representing Total Erickson Resources Ltd. joined the writer on the property.

Reconnaissance mapping and prospecting traverses were performed primarily on the IQ claim. Twelve rock samples were collected and analysed for Au-Ag. The samples were analysed by Bondar-Clegg and MIN EN Laboratories Ltd. The lab reports are contained in Appendix II and sample values and descriptions are listed in Table II. Figure 9 shows the sample locations.

Property Geology

The property is underlain by layered volcanic, sedimentary and metamorphic rocks extensively exposed on precipitous slopes overlooking Bennett Lake and on peaks and ridges surrounding the upland plateau. Intruding this sequence are granitic rocks of various ages and porphyry dykes of Late Cretaceous or Tertiary age. Mineralization is associated with Cretaceous and Tertiary volcanic activity.



LOCATIONS OF DETAILED PLANS

7235'
△

LODESTAR EXPLORATIONS INC.		
PAVEY PROPERTY		
PROPERTY PLAN		
BENNETT LAKE, BRITISH COLUMBIA		
N.T.S.	TECH:	DATE:
104 M-15	G.D.	JUNE, 1988
SCALE:	D'ING:	FIGURE:
1:50,000	R.H.	5

The oldest rocks are the Paleozoic and Proterozoic Boundary Ranges Metamorphics which consist of northwesterly trending fault bounded blocks of gneiss, schist, sediments, pyroclastics and minor carbonates. Altered pyroxenites, foliated gabbros and mafic flows are also mapped as part of the metamorphic succession. Locally, gneiss can be divided into 1) mafic gneiss, composed of quartz, chlorite and amphibole; and 2) felsic gneiss, composed of quartz, feldspar and muscovite. All rocks of this age are metamorphosed to at least greenschist facies.

Triassic and Jurassic sedimentary and volcanic rocks occupy most of the remaining area of the property. Pebble conglomerate of Paleozoic to Upper Triassic age outcrops on the PAVEY #5 claim at the head of a small creek. The conglomerate contains chert and quartz pebbles in a black siltstone matrix. Contacts between conglomerate and granitic rocks are highly silicified and contained up to 2% pyrite.

The Upper Triassic Stuhini Group occurs in the southeastern corner of the claim block and consists primarily of green pyroxene-feldspar porphyry tuffs and breccias, and variegated feldspar-phyric tuffs and lesser flows. The Stuhini Group volcanics lie in unconformable contact with the Lower Jurassic Laberge Group and with Middle to Upper Jurassic volcanics. The Laberge Group consists of intermixed argillite, siltstone, greywacke and lesser conglomerate. The sediments are generally highly fractured and form vivid orange gossan zones when pyrite rich. The Middle to Upper Jurassic volcanics closely resemble volcanic rocks on Montana Mountain and in the Wheaton district which are considered Cretaceous or Tertiary in age. They consist of variegated pyroclastic lapilli tuffs and bladed feldspar porphyry flows of basaltic and andesitic composition. Basaltic flows weather a brownish green colour and contain up to 30% plagioclase phenocrysts. The tuffaceous units weather a dark brown colour and contain subangular clasts up to 1 cm in size.

At least three stages of granitic intrusive rocks ranging in composition from diorite to quartz monzonite intrude and underlie the layered rocks. Altered and deformed intrusives, leucogranite, and quartz diorite of Paleozoic to Triassic age intrude sedimentary and metamorphic rocks in the western half of the claim block. Hornblend phenocrysts constitute up to 30% of the rock and maintain a northwesterly orientation. Minor pyrite, pyrrhotite and chalcopyrite are present in most samples.

Cretaceous granite and granodiorite plugs have been mapped by the B.C. Geological Survey Branch on the western margin of the claim block. Of limited extent the more easterly felsic plug hosts numerous sulphide bearing quartz veins and fractures zones. Du Pont workers identified this plug as a rhyolite porphyry body which the writer also believes.

The most extensive intrusive rocks in the area are the Upper Cretaceous Coast Intrusions. They outcrop as prominent smooth faced cliffs in the southwestern corner of PAVEY # 1 and 2 claims. The Coast Intrusions are medium to coarse grained hornblende and biotite granites which lie in sharp fault contact with metamorphic and sedimentary strata to the east.

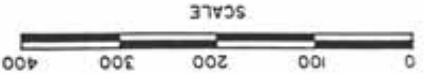
A variety of dykes and sills occur throughout the claim area. They penetrate all rock units except the Coast Intrusives, where they were not observed. The dykes are probably contemporaneous with Tertiary volcanic dykes of the Bennett Lake caldera complex located 15 km west of the property, or with the Late Cretaceous Montana Mountain volcanics located 12 km to the northeast. The most common dykes, range in composition from andesite to basalt and outcrop along the westerly facing slope above Bennett Lake. Typically they are less than 5 m wide, vary in colour from light green to dark brown and contain less than 10% fine phenocrysts. Two bodies of rhyolite porphyry occur in the main gully west of the upland plateau. The yellowish weathering rock contains feldspar and quartz eye phenocrysts that average 5 mm in size. The groundmass is very fine grained and siliceous. Pyrite and pyrrhotite comprise up to 5% of the rhyolite. Above the adit in Pavey #2 claim several granitic porphyry dykes intrude quartz diorites.

Structurally, two major northwesterly-trending faults run through the upland plateau. The western fault labelled the Ben Fault by Texaco was exposed in a blast trench. It consists of a 6 m wide fracture zone of gouge and argillite. The eastern fault called the Paddy Fault is the contact between metamorphosed sediments and altered intrusive rocks. A larger regional structure, the Llewellyn Fault, is a major northwesterly trending fault that passes through the eastern part of the IQ claim and most of the 104 M 15 map sheet.

Mineralization

Four types of mineralization containing gold, silver, copper, lead and zinc values are present on the PAVEY property. In order of significance they are:

- 1) Arsenopyrite-quartz veins
- 2) Stibnite-arsenopyrite-galena-sphalerite-quartz veins
- 3) Chalcopyrite-magnetite in a shear zone
- 4) Massive pyrrhotite boulders



LODESTAR EXPLORATIONS INC.
 PAVEY PROPERTY
 DETAILED PLAN, MAIN GULLY
 BENNETT LAKE AREA, BRITISH COLUMBIA
 TECH: G.D.
 DATE: JUNE, 1988
 NAME: B.B.
 SCALE: 1 : 5000

SYMBOLS

- Geological Contact
- Outcrop
- Adit
- Sample location/number
- Quartz vein
- Stream
- Buff

ROCK SAMPLES (1987)

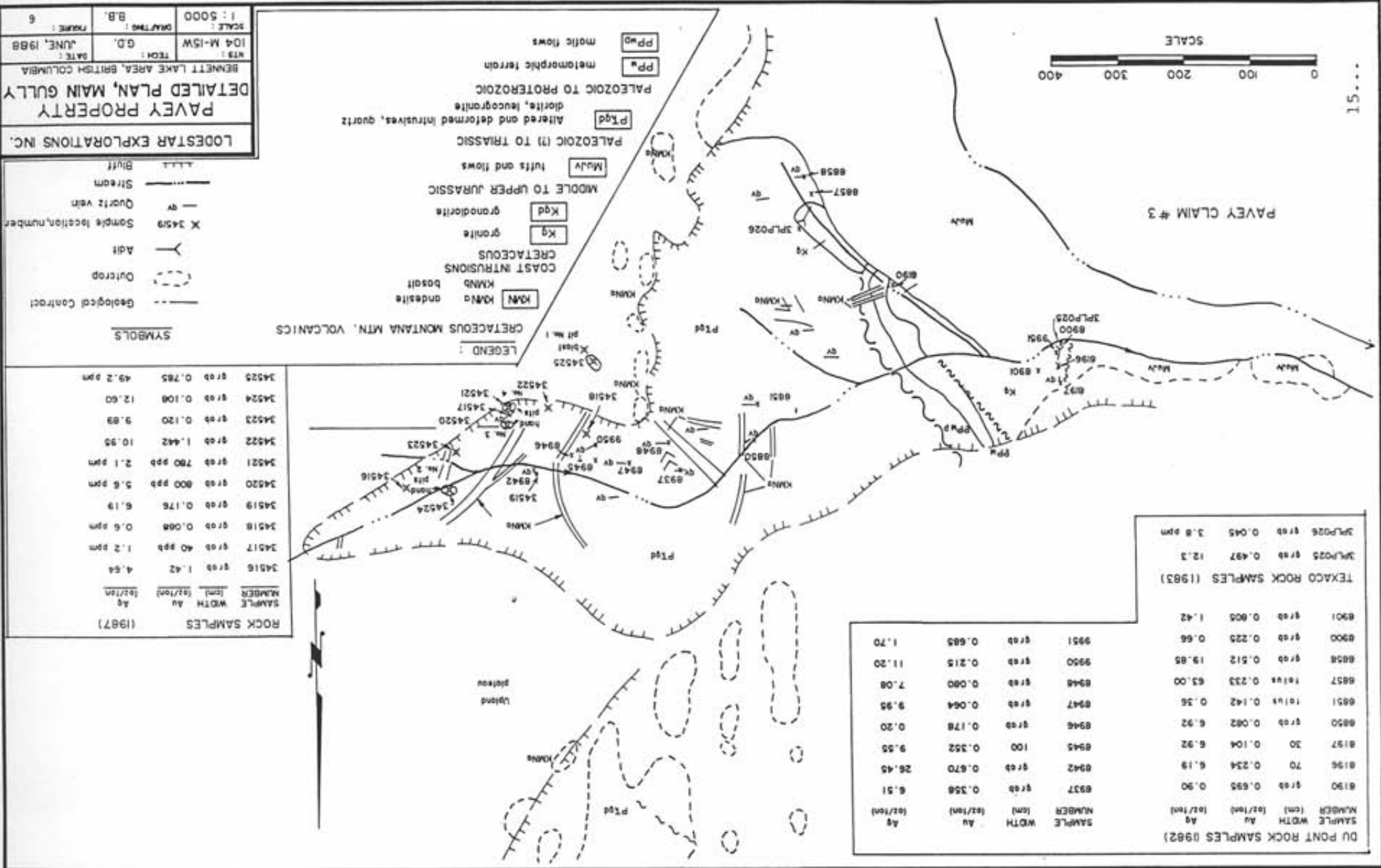
SAMPLE NUMBER	Ag	WTH (cm)	Au	Ag	WTH (cm)	Au
34516	gr ob	1.42	4.54	gr ob	40 ppb	1.2 ppm
34518	gr ob	0.068	0.6	gr ob	780 ppb	2.1 ppm
34519	gr ob	0.176	6.19	gr ob	800 ppb	5.6 ppm
34520	gr ob	0.000	0.000	gr ob	800 ppb	5.6 ppm
34521	gr ob	0.000	0.000	gr ob	780 ppb	2.1 ppm
34522	gr ob	1.442	10.95	gr ob	800 ppb	5.6 ppm
34523	gr ob	0.120	9.89	gr ob	800 ppb	5.6 ppm
34524	gr ob	0.108	12.60	gr ob	800 ppb	5.6 ppm
34525	gr ob	0.785	49.2	gr ob	800 ppb	5.6 ppm

TEXACO ROCK SAMPLES (1983)

SAMPLE NUMBER	Ag	WTH (cm)	Au	Ag	WTH (cm)	Au
8901	gr ob	0.805	1.42	gr ob	0.045	3.8 ppm
8900	gr ob	0.225	0.66	gr ob	0.497	12.3
8858	gr ob	0.512	19.85	gr ob	0.045	3.8 ppm
8857	gr ob	0.233	63.00	gr ob	0.497	12.3
8851	gr ob	0.142	0.36	gr ob	0.045	3.8 ppm
8850	gr ob	0.082	6.92	gr ob	0.497	12.3
8197	30	0.104	6.92	gr ob	0.045	3.8 ppm
8196	70	0.234	6.19	gr ob	0.497	12.3
8190	gr ob	0.695	0.90	gr ob	0.045	3.8 ppm

DU PONT ROCK SAMPLES (1982)

SAMPLE NUMBER	Ag	WTH (cm)	Au	Ag	WTH (cm)	Au
9317	gr ob	0.352	9.95	gr ob	0.045	3.8 ppm
9316	gr ob	0.670	26.45	gr ob	0.497	12.3
9315	gr ob	0.358	6.51	gr ob	0.045	3.8 ppm
9314	gr ob	0.178	0.20	gr ob	0.497	12.3
9313	gr ob	0.064	9.95	gr ob	0.045	3.8 ppm
9312	gr ob	0.080	7.08	gr ob	0.497	12.3
9311	gr ob	0.215	11.20	gr ob	0.045	3.8 ppm
9310	gr ob	0.685	1.70	gr ob	0.497	12.3



- 1) Quartz veins containing bands of massive arsenopyrite and minor pyrite, sphalerite and galena occur in fractures and shear zones in granitic, porphyritic and argillaceous rocks. Six veins ranging in size from a few centimeters to 40 cm in thickness are located at approximately 1000 m in elevation in the "main gully" (see Figure 6).
3) A 25 m long adit follows one of these veins in a northeasterly direction. The adit exposes a quartz vein averaging 25 cm in width which pinches and swells along strike and dips to the west. The vein is surrounded by a 4 m wide bleached alteration zone in the host rhyolite porphyry. The alteration zone can be traced across outcrop for over 50 m from the portal. Gold and silver values of samples collected from the dump range up to 0.497 oz/ton and 12.3 oz/ton respectively. A 20 cm chip sample taken on surface approximately 40 m north of the adit recorded 0.234 oz/ton Au and 6.19 oz/ton Ag.

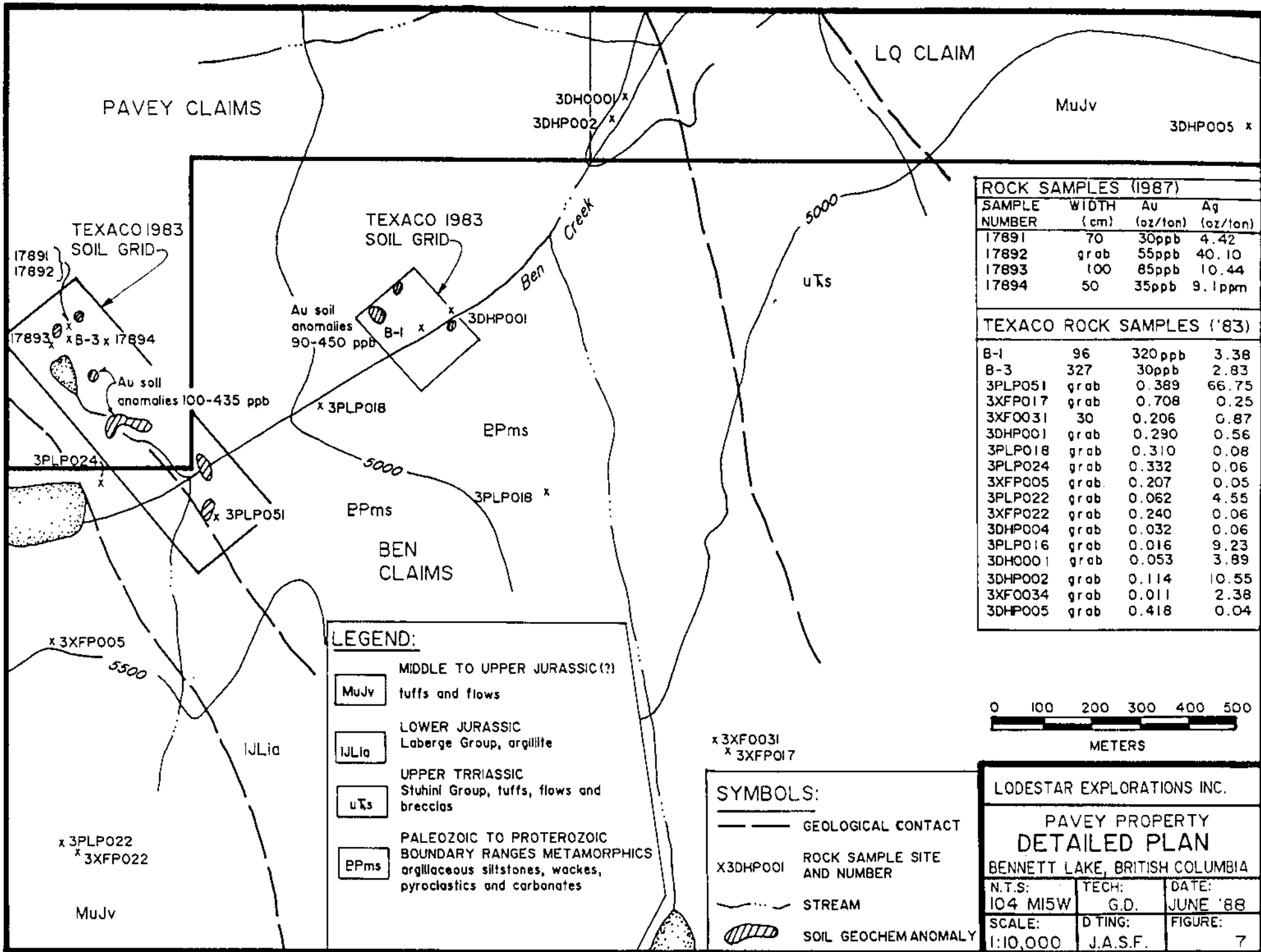
On the LQ claim a large quartz vein containing up to 20% arsenopyrite and 5% galena outcrops in quartz chlorite schist in a creek bed. The vein forms the west bank of BEN creek for 10 m, averaging 70 cm in width, striking 33° and dips 57° east. A grab sample of well mineralized vein material assayed 0.114 oz/ton Au and 10.55 oz/ton Ag while a chip sample over 150 cm recorded values of 0.084 oz/ton Au and 10.44 oz/ton Ag (see Figures 7 and 9).

Quartz float was traced upstream for 350m to a second large quartz vein in outcrop. This vein also lies in the creek bed and is along strikes from the main vein. It averages .5 m in width over a 10 m length and .50 m chip sample assayed 0.27 oz/ton Au and greater than 50.0 ppm Ag.

On the BEN claims 6 locations host veins and shear zones predominately composed of quartz, arsenopyrite and less pyrite. The veins are generally less than one meter wide and the maximum values in rock samples collected by Texaco are 0.708 oz/ton Au and 66.7 oz/ton Ag.

Above the large adit in PAVEY #1 claim (see Figure 8) a quartz-arsenopyrite vein occurs in quartz eye porphyry dyke. A grab sample returned a gold assay of 0.433 oz/ton.

The adit was examined and mapped at a scale of 1:100 - see Figure 10. The adit consists of a 180 m long drift and a 95 m crosscut with several short spurs. The adit was driven in 1915-1916 in a year-round operation to try and intersect a ruby silver ore zone. The workings cut fresh granodiorite for almost their entire length. One rhyolite porphyry dyke occurs at the end of the main drift and in a small spur. Apparently, no mineralization was intersected and the project was abandoned in 1916.



ROCK SAMPLES (1987)			
SAMPLE NUMBER	WIDTH (cm)	Au (oz/ton)	Ag (oz/ton)
17891	70	30ppb	4.42
17892	grab	55ppb	40.10
17893	100	85ppb	10.44
17894	50	35ppb	9.1ppm

TEXACO ROCK SAMPLES ('83)			
Sample ID	Width (cm)	Au (ppb)	Ag (ppm)
B-1	96	320ppb	3.38
B-3	327	30ppb	2.83
3PLP051	grab	0.389	66.75
3XFP017	grab	0.708	0.25
3XFP031	30	0.206	0.87
3DHP001	grab	0.290	0.56
3PLP018	grab	0.310	0.08
3PLP024	grab	0.332	0.06
3XFP005	grab	0.207	0.05
3PLP022	grab	0.062	4.55
3XFP022	grab	0.240	0.06
3DHP004	grab	0.032	0.06
3PLP016	grab	0.016	9.23
3DH0001	grab	0.053	3.89
3DHP002	grab	0.114	10.55
3XFP034	grab	0.011	2.38
3DHP005	grab	0.418	0.04

LEGEND:

MIDDLE TO UPPER JURASSIC (?)
 MuJv tuffs and flows

LOWER JURASSIC
 JL1a Laberge Group, argillite

UPPER TRIASSIC
 uTs Stuhini Group, tuffs, flows and breccias

PALEOZOIC TO PROTEROZOIC BOUNDARY RANGES METAMORPHICS
 EPms argillaceous siltstones, wackes, pyroclastics and carbonates

x 3XFP003
 x 3XFP017

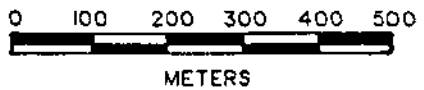
SYMBOLS:

— — — — — GEOLOGICAL CONTACT

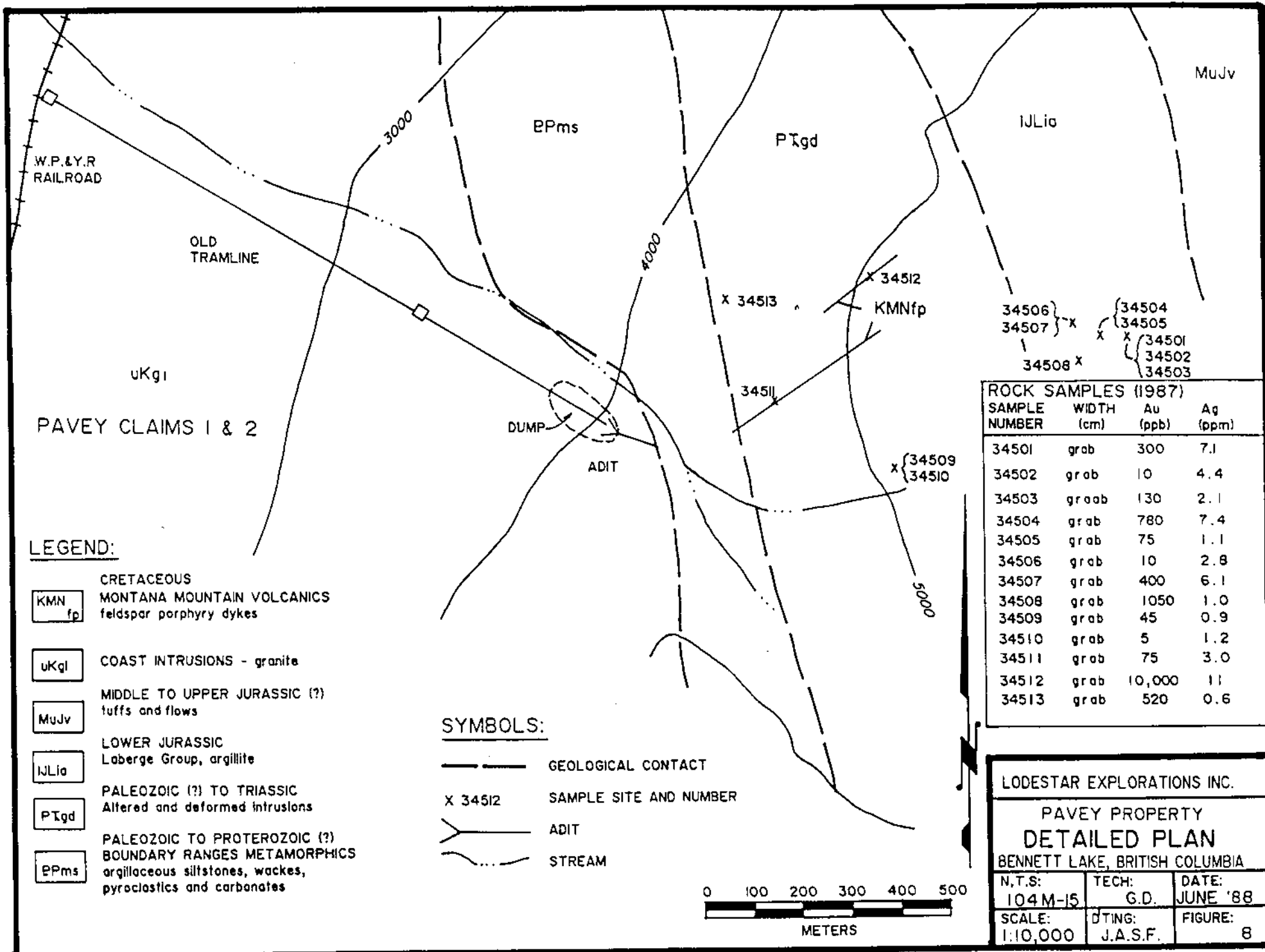
x3DHP001 ROCK SAMPLE SITE AND NUMBER

~~~~~ STREAM

||||| SOIL GEOCHEM ANOMALY



|                                 |                     |                   |
|---------------------------------|---------------------|-------------------|
| LODESTAR EXPLORATIONS INC.      |                     |                   |
| PAVEY PROPERTY<br>DETAILED PLAN |                     |                   |
| BENNETT LAKE, BRITISH COLUMBIA  |                     |                   |
| N.T.S.:<br>104 M15W             | TECH:<br>G.D.       | DATE:<br>JUNE '88 |
| SCALE:<br>1:10,000              | D TING:<br>J.A.S.F. | FIGURE:<br>7      |

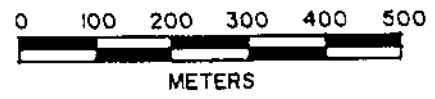


**LEGEND:**

- KMN  
fp CRETACEOUS MONTANA MOUNTAIN VOLCANICS feldspar porphyry dykes
- uKq1 COAST INTRUSIONS - granite
- MuJv MIDDLE TO UPPER JURASSIC (?) tuffs and flows
- IJLia LOWER JURASSIC Laberge Group, argillite
- PTgd PALEOZOIC (?) TO TRIASSIC Altered and deformed intrusions
- EPms PALEOZOIC TO PROTEROZOIC (?) BOUNDARY RANGES METAMORPHICS argillaceous siltstones, wackes, pyroclastics and carbonates

**SYMBOLS:**

- GEOLOGICAL CONTACT
- SAMPLE SITE AND NUMBER
- ADIT
- STREAM



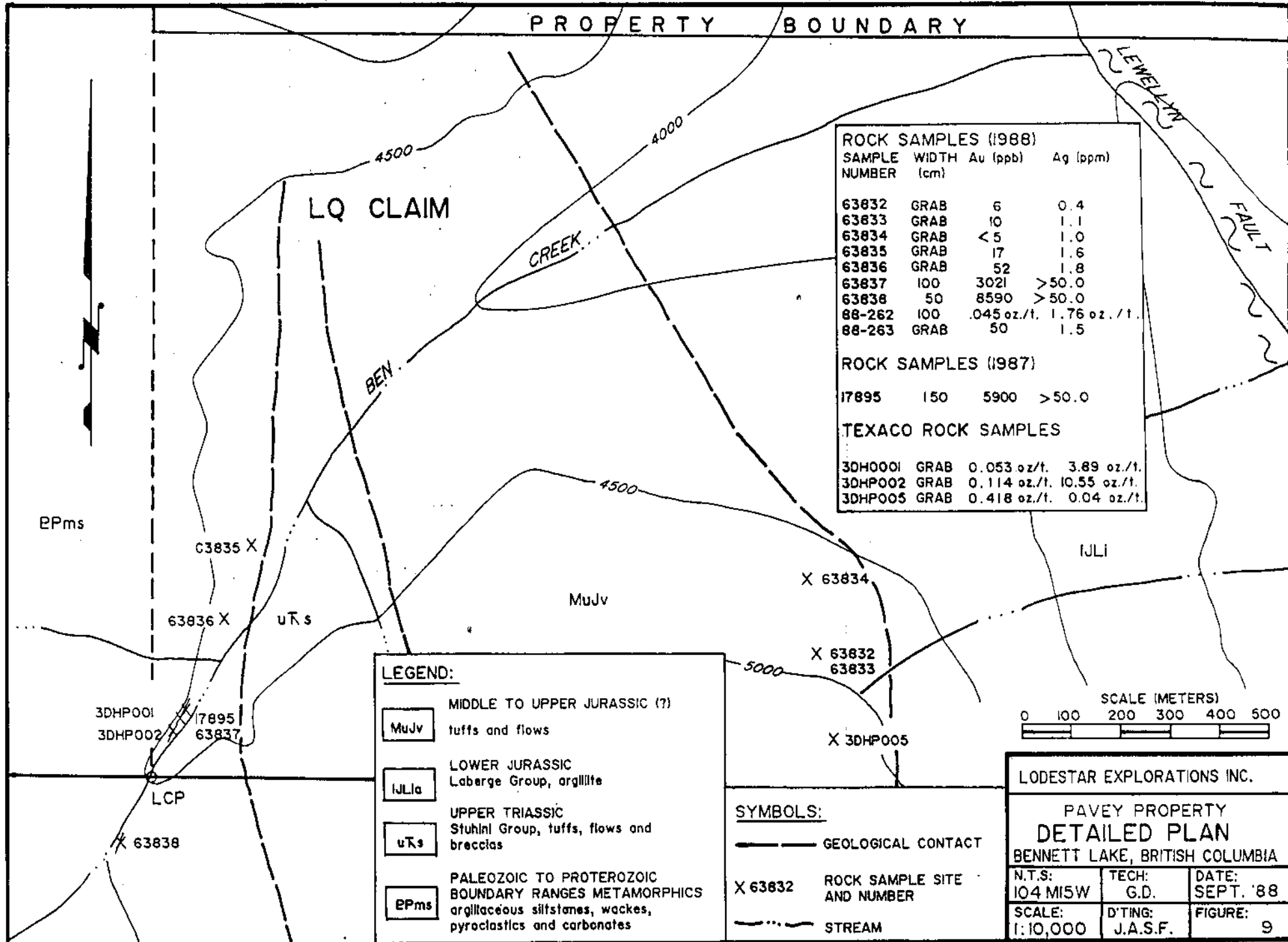
| ROCK SAMPLES (1987) |            |          |          |
|---------------------|------------|----------|----------|
| SAMPLE NUMBER       | WIDTH (cm) | Au (ppb) | Ag (ppm) |
| 34501               | grab       | 300      | 7.1      |
| 34502               | grab       | 10       | 4.4      |
| 34503               | graab      | 130      | 2.1      |
| 34504               | grab       | 780      | 7.4      |
| 34505               | grab       | 75       | 1.1      |
| 34506               | grab       | 10       | 2.8      |
| 34507               | grab       | 400      | 6.1      |
| 34508               | grab       | 1050     | 1.0      |
| 34509               | grab       | 45       | 0.9      |
| 34510               | grab       | 5        | 1.2      |
| 34511               | grab       | 75       | 3.0      |
| 34512               | grab       | 10,000   | 11       |
| 34513               | grab       | 520      | 0.6      |

LODESTAR EXPLORATIONS INC.

PAVEY PROPERTY  
**DETAILED PLAN**  
 BENNETT LAKE, BRITISH COLUMBIA

|                    |                     |                   |
|--------------------|---------------------|-------------------|
| N.T.S:<br>104M-15  | TECH:<br>G.D.       | DATE:<br>JUNE '88 |
| SCALE:<br>1:10,000 | D.TING:<br>J.A.S.F. | FIGURE:<br>8      |

PROPERTY BOUNDARY



| ROCK SAMPLES (1988) |            |             |             |
|---------------------|------------|-------------|-------------|
| SAMPLE NUMBER       | WIDTH (cm) | Au (ppb)    | Ag (ppm)    |
| 63832               | GRAB       | 6           | 0.4         |
| 63833               | GRAB       | 10          | 1.1         |
| 63834               | GRAB       | < 5         | 1.0         |
| 63835               | GRAB       | 17          | 1.6         |
| 63836               | GRAB       | 52          | 1.8         |
| 63837               | 100        | 3021        | > 50.0      |
| 63838               | 50         | 8590        | > 50.0      |
| 88-262              | 100        | .045 oz./t. | 1.76 oz./t. |
| 88-263              | GRAB       | 50          | 1.5         |

| ROCK SAMPLES (1987) |     |      |        |
|---------------------|-----|------|--------|
| 17895               | 150 | 5900 | > 50.0 |

| TEXACO ROCK SAMPLES |      |              |              |
|---------------------|------|--------------|--------------|
| 3DH0001             | GRAB | 0.053 oz./t. | 3.89 oz./t.  |
| 3DH0002             | GRAB | 0.114 oz./t. | 10.55 oz./t. |
| 3DH0005             | GRAB | 0.418 oz./t. | 0.04 oz./t.  |

**LEGEND:**

|              |                                                                                                                             |
|--------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>MuJv</b>  | MIDDLE TO UPPER JURASSIC (?)<br>tuffs and flows                                                                             |
| <b>IJLla</b> | LOWER JURASSIC<br>Laberge Group, argillite                                                                                  |
| <b>uTs</b>   | UPPER TRIASSIC<br>Stuhini Group, tuffs, flows and breccias                                                                  |
| <b>EPms</b>  | PALEOZOIC TO PROTEROZOIC<br>BOUNDARY RANGES METAMORPHICS<br>argillaceous siltstones, wackes,<br>pyroclastics and carbonates |

**SYMBOLS:**

|                |                             |
|----------------|-----------------------------|
|                | GEOLOGICAL CONTACT          |
| <b>X 63832</b> | ROCK SAMPLE SITE AND NUMBER |
|                | STREAM                      |



LODESTAR EXPLORATIONS INC.

PAVEY PROPERTY  
**DETAILED PLAN**  
BENNETT LAKE, BRITISH COLUMBIA

|                    |                      |                    |
|--------------------|----------------------|--------------------|
| N.T.S:<br>1:10,000 | TECH:<br>G.D.        | DATE:<br>SEPT. '88 |
| SCALE:<br>1:10,000 | D'T'ING:<br>J.A.S.F. | FIGURE:<br>9       |

- 2) Quartz veins containing massive stibnite and arsenopyrite with some galena, sphalerite and chalcopyrite are exposed primarily in the "main gully" on the south side of the creek and in old trenches located beside a small tarn at the head of Ben Creek on PAVEY #4 claim. The veins vary from a few centimeters up to 1 meter in width and are hosted by granodiorite and argillite. The vuggy quartz veins contain sulphide rich bands, up to 10 cm thick which consist of coarse bladed to fine grained stibnite and fine grained arsenopyrite.

In the main gully stibnite rich veins are exposed in shears and fractures along 1000 meters of outcrop and talus on the creek bank. Values from rock samples collected by Du Pont, Texaco and the writer are consistently over 0.1 oz/ton Au and 6 oz/ton Ag. Peak values in gold are 1.442 oz/ton and in silver 63 oz/ton.

Near the small tarn (Figure 7) two old blast pits were mucked out and sampled. Massive stibnite with 10% arsenopyrite, sphalerite and galena occurs in a fractured rhyolite porphyry. The sulphide zone is approximately 70 cm wide and appears to occupy a northwesterly trending shear zone in the felsic volcanics. Rock samples assayed up to 40 oz/ton Ag.

- 3) A zone of copper mineralization occurs on the west facing slope above Bennett lake on the PAVEY #3 claim. This occurrence was not visited by the writer but is described in the following paragraphs from the Du Pont 1982 report on the GAUG property.

"The zone is a four meters wide sheared and altered section of granodiorite. This sheared rock is traceable on the surface over a length of 10 meters. The zone strikes east-southeast with a moderate dip to the northeast. An adit has been driven horizontally into the lower portion of this altered zone. The adit is in good shape and is approximately 1.0 x 1.5 meters in section and 15 meters long. It has been driven east into the hill then jogs to the north for seven meters.

Mineralization in the sheared rock is limited to a 30 cm wide section of massive to disseminated chalcopyrite and magnetite. Minor pyrite and bornite has also been noted in the rock. A strong malachite/azurite stain extends outward from the mineralization for a distance of one meter. Malachite staining covers the walls of the adit but only minor chalcopyrite was observed inside. Grab samples from inside and outside the adit varied from 3.3 to 9.5% copper. A sheared outcrop of malachite-stained granodiorite 450 meters below the adit ran 0.5% copper (grab sample). This suggests the mineralized shear zone may extend for several hundred metres across the property."

A summary of rock samples and their anomalous assay values for this copper zone is given in Table 2.

TABLE 2  
(from GAUG claims report)

| <u>Copper Zone, rock Descriptions and Assays</u> |                                    |                                                          |                           |
|--------------------------------------------------|------------------------------------|----------------------------------------------------------|---------------------------|
| <u>Sample #</u>                                  | <u>Location</u>                    | <u>Description</u>                                       | <u>Assay</u>              |
| 7700A                                            | Above adit                         | Massive chalcopryrite,<br>magnetite, malachite           | Cu 9.49%<br>Ag 2.74 oz/t  |
| 9952A                                            | Inside adit                        | Altered granodiorite<br>malachite/azurite                | Cu 3.26%<br>Ag 0.83 oz/t  |
| 9953A                                            | 600 meters<br>northwest of<br>adit | Altered granodiorite<br>heavily chloritized<br>malachite | Cu 0.585%<br>Ag 0.50 oz/t |

- 4) Boulders of massive platy pyrrhotite and pyrrhotite-bearing amphibole skarn are situated in a talus slope on the BEN claims and along a contact between argillite and granitic rocks on the PAVEY #2 claims. Two talus samples from separate locations contained gold values of 0.31 oz/ton and 0.240 oz/ton however, 5 other pyrrhotite samples produced low gold values. The source of the boulder samples has not been located.

#### **GEOCHEMICAL and GEOPHYSICAL RESULTS, 1982-1983**

Soil geochemical surveys by Du Pont and Texaco produced strong precious and base metal anomalies in the "main gully" area and weak to moderate anomalies at the head of Ben Creek. The strongest gold values (up to 1150 ppb) were obtained by Du Pont on grid line 7+00 W. A series of anomalous values over 300 meters on this line were interpreted to come from a large fault or shear zone which runs parallel to the line and cuts across the creek bed. Other spot gold anomalies are scattered over the upland area around the "main gully" and around Ben Creek.

Silver, antimony, arsenic lead and zinc values correlate closely to gold values. The strongest anomalies are in the "main gully", where silver values reach 46.0 ppm. Other notable anomalies surround several of the old trenches on the BEN claims.



TABLE II: ROCK SAMPLE VALUES, DESCRIPTIONS AND LOCATIONS

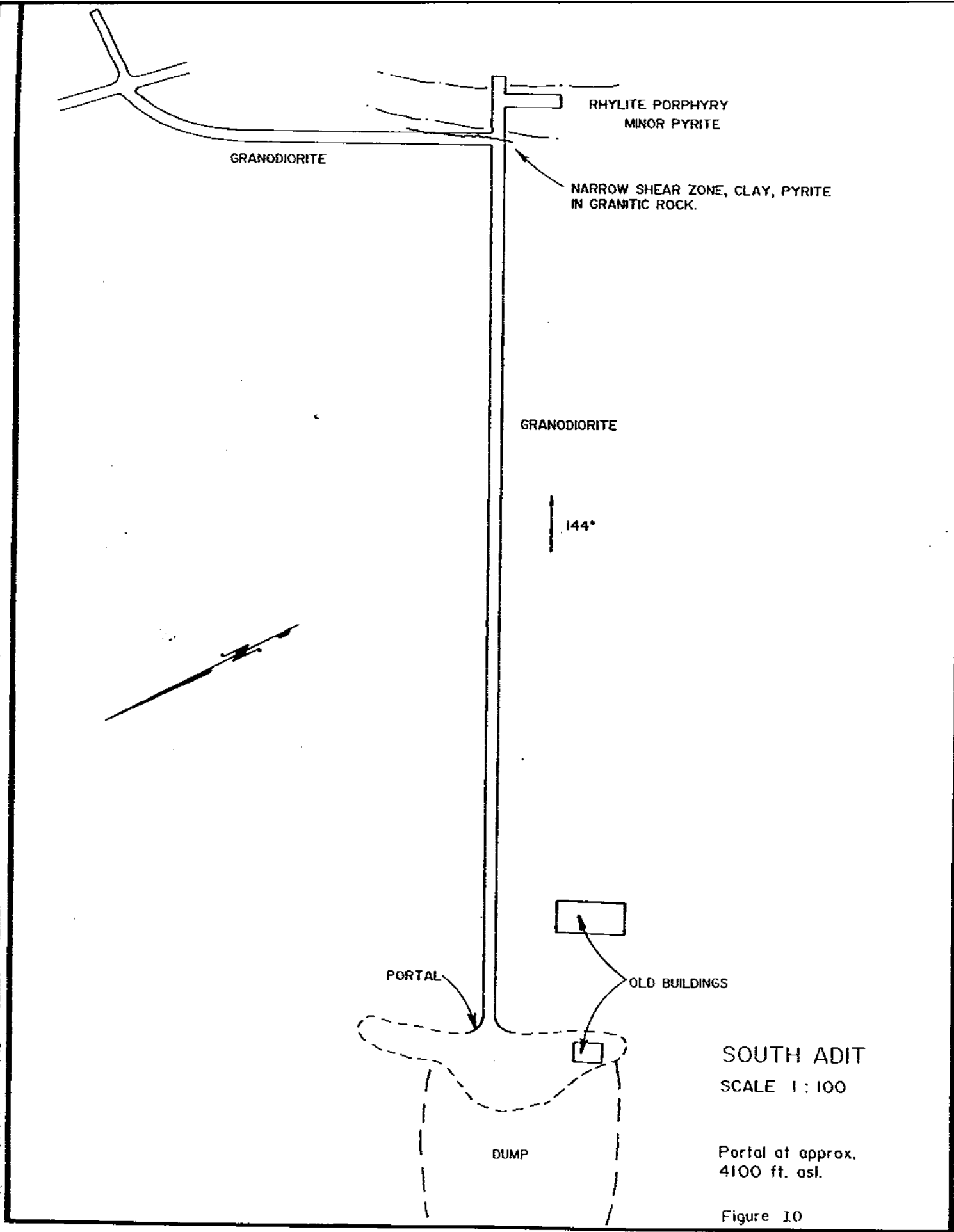
| Sample Number | Sample Type | Location                                      | Description                                                                            | Au (ppb) | Ag (ppm) | Cu (ppm) | Pb (ppm) | Zn (ppm) | As (ppm) | Sb (ppm) | Sa (ppm) | Mn (ppm) |
|---------------|-------------|-----------------------------------------------|----------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 17891         | 70 cm chip  | PAVEY #4 claim, sample from blast pit         | Quartz veins in quartz porphyry, massive galena, stibnite, sphalerite and arsenopyrite | 30       | >50      | 28       | >10,000  | 14,804   | >2,000   | >20,000  | 282      | 987      |
| 17892         | grab        | " "                                           | Massive sphalerite and stibnite                                                        | 55       | >50      | 103      | 4,032    | >20,000  | 67       | >20,000  | <15      | 8277     |
| 17893         | 100 cm chip | PAVEY #4 claim, second blast pit              | Quartz vein and quartz porphyry, arsenopyrite                                          | 85       | 29.6     | 43       | 5,868    | 4,807    | > 2,000  | 293      | 776      | 337      |
| 17894         | 50 cm chip  | PAVEY #4 claim, blast pit                     | Narrow quartz veins in cherty meta-sedimentary rock, pyrite, arsenopyrite              | 35       | 8.1      | 157      | 1,398    | 306      | 1,697    | 1,043    | 880      | 578      |
| 17895         | 150 cm chip | LQ claim                                      | Massive quartz vein, arsenopyrite, galena                                              | 5,900    | >50      | 614      | 8,582    | 3,207    | >2,000   | 3,385    | <15      | 44       |
| 34501         | grab        | PAVEY #2 claim, ridge above the main adit     | Quartz vein in granitic rocks, up to 5% arsenopyrite and pyrite                        | 300      | 7.1      | 15       | 293      | 131      | >2,000   | 367      | 615      | 51       |
| 34502         | grab        | " "                                           | Granitic rock containing 10% pyrite                                                    | 10       | 4.4      | 84       | 220      | 91       | 442      | 52       | <15      | 627      |
| 34503         | grab        | " "                                           | Metasedimentary rock (chert), 5% fine grained disseminated sulphides                   | 130      | 2.1      | 36       | 156      | 67       | >2,000   | 340      | 1,170    | 155      |
| 34504         | grab        | PAVEY #1 claim, 100 m west of previous sample | Subhedral quartz vein, bands of massive arsenopyrite                                   | 780      | 7.4      | 26       | 301      | 91       | >2,000   | 521      | <15      | 15       |
| 34505         | grab        | " "                                           | Silicified metasedimentary rocks, 10% disseminated pyrite and arsenopyrite             | 75       | 1.1      | 30       | 85       | 89       | >2,000   | 119      | 185      | 505      |
| 34506         | grab        | PAVEY #1 claim, ridge top at 5,700' ASL       | Massive platy pyrrhotite from quartz gouge zone in cherts                              | 10       | 2.8      | 884      | 49       | 39       | >2,000   | 18       | <15      | 153      |
| 34507         | grab        | " "                                           | Quartz gouge vein, 10% arsenopyrite, pyrite                                            | 400      | 6.1      | 209      | 256      | 22       | >2,000   | 668      | <15      | 129      |
| 34508         | grab        | PAVEY #2 claim, ridge top at 5,600' ASL       | Quartz vein talus, massive arsenopyrite                                                | 1,050    | 1.0      | 20       | <5       | 17       | >2,000   | 392      | 882      | 114      |
| 34509         | grab        | PAVEY #2 claim, 5,100' ASL                    | Granitic rock, hornfels, 2% pyrite, pyrrhotite, arsenopyrite                           | 45       | 0.9      | 36       | 86       | 75       | >2,000   | 25       | 464      | 651      |

TABLE II (cont'd)

| Sample Number | Sample Type | Location                               | Description                                                                                     | Au (ppb) | Ag (ppm) | Cu (ppm) | Pb (ppm) | Zn (ppm) | As (ppm) | Sb (ppm) | Ba (ppm) | Mn (ppm) |
|---------------|-------------|----------------------------------------|-------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 34510         | grab        | PAVEY #2 claim, 5,100' ASL             | Metasedimentary rock, dark, fine grained, cherty, disseminated pyrite, arsenopyrite, pyrrhotite | 5        | 1.2      | 236      | 78       | 60       | >2,000   | 25       | 722      | 872      |
| 34511         | grab        | PAVEY #2 claim, 4,700' ASL             | Buff weathering feldspar porphyry dyke, 4 m wide, narrow vuggy quartz veins                     | 75       | 3.0      | 2        | 106      | 50       | >2,000   | 40       | 21       | 32       |
| 34512         | grab        | PAVEY #1 claim, 5,100' ASL             | Quartz vein, bands of arsenopyrite occur in quartz feldspar porphyry dyke 3 m wide              | >10,000  | 11       | 25       | 9        | 12       | >2,000   | 398      | 60       | 27       |
| 34513         | grab        | PAVEY #1 claim, 4,400' ASL             | Quartz vein, subhedral, 2t pyrite and arsenopyrite, minor chlorite                              | 520      | 0.6      | <1       | 88       | 85       | >2,000   | 34       | 3336     | 108      |
| 34514         | grab        | PAVEY #4 claim, 600 m west of tarn     | Quartz-feldspar porphyry dyke containing minor arsenopyrite                                     | 500      | <0.5     | 6        | 75       | 8        | >2,000   | 36       | 920      | 14       |
| 34515         | grab        | " "                                    | Quartz-feldspar porphyry dyke cut by narrow quartz veins containing arsenopyrite and galena     | 860      | 22.4     | 63       | 174      | 1,227    | 1,004    | >20,000  | <15      | 1,604    |
| 34516         | grab        | PAVEY #3, top of main gully            | Banded quartz-limonite veins in felsic tuff, minor pyrite, arsenopyrite and galena              | >10,000  | >50      | 445      | 663      | 1,160    | >2,000   | >20,000  | <15      | 252      |
| 34517         | grab        | PAVEY #3 claim, main gully, 4,500' ASL | Massive sulphide in quartz vein                                                                 | 40       | 1.2      | 40       | 56       | 46       | 302      | 205      | 324      | 1,101    |
| 34518         | grab        | PAVEY #3 claim, main gully, 4,400' ASL | Quartz vein containing arsenopyrite, pyrite, limonite                                           | 2,900    | 0.6      | 3        | 47       | 66       | >2,000   | 531      | 246      | 450      |
| 34519         | grab        | " "                                    | Quartz-sulphide vein in porphyritic rock, vuggy, arsenopyrite, pyrite, sphalerite, galena       | 6,000    | >50      | 299      | 8,569    | 19,883   | >2,000   | >20,000  | <15      | 468      |
| 34520         | 3 m chip    | PAVEY #3 claim, main gully, 4,500' ASL | Hand pit in gossan zone, narrow sulphide bearing quartz veins in gossan                         | 800      | 5.6      | 8        | 563      | 552      | >2,000   | 114      | 654      | 2,959    |

| Sample Number | Sample Type | Location                               | Description                                                                                                            | Au (ppb) | Ag (ppm) | Cu (ppm) | Pb (ppm) | Zn (ppm) | As (ppm) | Sb (ppm) | Ba (ppm) | Mn (ppm) |
|---------------|-------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 34521         | grab        | PAVEY #3 claim, main gully, 4,500' ASL | Hand pit, sample of quartz, limonite with minor sulphides                                                              | 780      | 2.1      | 2        | 110      | 286      | >2,000   | 516      | 217      | 1,399    |
| 34522         | grab        | " "                                    | Quartz-sulphide vein, stibnite                                                                                         | >10,000  | >50      | 594      | 1,010    | 1,569    | 662      | >20,000  | <15      | 386      |
| 34523         | grab        | " "                                    | Quartz-sulphide vein, stibnite, galena, arsenopyrite, pyrite                                                           | 5,400    | >50      | 204      | >10,000  | 1,556    | >2,000   | >20,000  | <15      | 38       |
| 34524         | grab        | " "                                    | Quartz-sulphide vein, stibnite, galena, arsenopyrite                                                                   | 4,300    | >50      | 485      | >10,000  | 5,538    | >2,000   | >20,000  | <15      | 94       |
| 34525         | grab        | PAVEY #3 claim, upland surface         | Blast pit, massive stibnite vein in volcanics                                                                          | 2,100    | 49.2     | 42       | 83       | 165      | 151      | >20,000  | <15      | 306      |
| 63831         | grab        | BEN #2 claim                           | Chert containing 20% pyrite, rusty red weathering zone                                                                 | 38       | 1.3      |          |          |          |          |          |          |          |
| 63832         | grab        | LQ Claim, 5000' ASL                    | Shear zone in andesite porphyry, limonite and calcite veining                                                          | 6        | 0.4      |          |          |          |          |          |          |          |
| 63833         | grab        | " "                                    | Porphyritic andesite containing pyrite blobs and quartz eyes                                                           | 10       | 1.1      |          |          |          |          |          |          |          |
| 63834         | grab        | LQ claim, 4,700' ASL                   | Pyritic shear zone in andesite porphyry                                                                                | <5       | 1.0      |          |          |          |          |          |          |          |
| 63835         | grab        | LQ claim, beside Ben Creek, 4,300' ASL | Cherty limestone containing pyrite and arsenopyrite on fractures                                                       | 17       | 1.6      |          |          |          |          |          |          |          |
| 63836         | grab        | LQ claim, beside Ben Creek, 4,400" ASL | Massive pyrrhotite vein (10 cm) at contact of dacitic dyke with argillite                                              | 52       | 1.8      |          |          |          |          |          |          |          |
| 63837         | 100         | LQ claim, Ben Creek 4,500' ASL         | Chip sample across quartz vein outcropping in creek bed; 10% arsenopyrite, 5% galena, 5% sphalerite, less chalcopyrite | 3021     | >50.0    | 1800     | >10,000  | 4,690    |          |          |          |          |

| Sample No. | Sample Type | Location                                  | Description                                                                                                            | Au<br>(oz/ton) | Ag<br>(oz/ton) | (ppm)<br>Pb<br>XXXXXX | (ppm)<br>Zn<br>XXXXXX |
|------------|-------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------------|-----------------------|
| 63838      | 50          | BEN #1 claim,<br>Ben Creek,<br>4,600' ASL | Chip sample across quartz vein outcropping in creek bed; 15% arsenopyrite, 5% galena, 5% sphalerite, less chalcopyrite | 8,590          | >50.0          | 10,000                | 6,580                 |
| 88-262     | 60          | LQ claim                                  | white quartz vein with 10% sulphides                                                                                   | 1,540          | 60.2           |                       |                       |
| 88-263     | 20          | PAVEY-main gully                          | quartz vein, open boxwork                                                                                              | 100            | 1.2            |                       |                       |
| 88-264     | 40          | PAVEY-main gully                          | quartz vein with 10% pyrite and arsenopyrite bands                                                                     | 3,700          | 8.0            |                       |                       |
| 88-265     | 40          | PAVEY-main gully                          | quartz vein above the portal with 10% arsenopyrite                                                                     | 7,280          | 960.0          |                       |                       |



SOUTH ADIT  
SCALE 1 : 100

Portal at approx.  
4100 ft. asl.

Figure 10

Anomalous copper values (up to 3830 ppm) occur over the chalcopyrite rich shear zone exposed by a short adit; north of the "main gully".

VLF and Magnetometer surveys performed by Texaco on two grids around the top of Ben Creek outlined the northwesterly trending Ben Fault. A prominent magnetic high on Grid 2 corresponds to a gossanous pyrrhotite-bearing zone in gneiss. Weaker magnetic anomalies on Grids 1 and 2, and three northwesterly trending VLF anomalies on Grid 2 are not exposed in outcrop. The causes of these anomalies are uncertain.

#### **CONCLUSIONS and RECOMMENDATIONS**

Consistently high gold and silver values have been obtained from numerous quartz-arsenopyrite and quartz-stibnite-arsenopyrite veins occurring within the Pavey property. These veins are generally less than 1 m in width however the abundance of mineralization indicates that there is a high potential for the discovery of a gold and silver deposit.

Rock sampling, geochemistry and geophysical surveys have been performed on the property. The gold and silver bearing showings and soil anomalies located by these work programs should be examined by an extensive trenching program. On the upland plateau the most effective method of trenching would be by backhoe while veins in the "main gully" should be opened up by blasting.

At the south end of the property the reported ruby silver occurrence above the adit has not been located. Further prospecting is necessary to rediscover the old showing.

A surface exploration program consisting of blast and backhoe trenching, geological mapping and sampling, and prospecting is recommended in Phase I. Also, a 4x4 road should be constructed onto the upland area from the Klondike Highway, a distance of 6 km. Further trenching and diamond drilling are recommended in Phase II. The proposed programs are outlined below:

## PHASE I - SURFACE EXPLORATION

|                                 |          |
|---------------------------------|----------|
| Blast and backhoe trenching     | \$35,000 |
| Geological mapping and sampling | 12,500   |
| Prospecting                     | 12,500   |
| Camp and support                | 20,000   |
| Transportation                  | 15,000   |
| Road construction               | 30,000   |
| Contingency                     | 12,500   |

---

\$140,000

## PHASE II - DIAMOND DRILLING AND TRENCHING

|                             |           |
|-----------------------------|-----------|
| Diamond drilling (2500')    | \$125,000 |
| Back hoe or blast trenching | 25,000    |
| Geology and supervision     | 12,500    |
| Camp and support            | 10,000    |
| Transportation              | 5,000     |
| Contingency                 | 17,500    |

---

\$195,000

## REFERENCES

- CHRISTIE, R.L. (1957): Map 19-1957, Bennett Area Geology Map. G.S.C.
- COPLAND, H.J. (1982): Geological and Geochemical Report on the GAUG Property. Du Pont of Canada.
- LHOTKA, P.G. and OLSON, R.A. (1983): Texaco Canada Resources Ltd., Exploration - 1983, BEN Mineral Claims; Trigg, Wollett Consulting Ltd.
- MIHALYNUK, M. and ROUSE, S. (1988): B.C. Ministry of Energy, Mines and Petroleum Resources, OPEN FILE MAP 1988-5
- SCHROETER, T.G. (1986): Bennett Project. B.C. Ministry of Energy, Mines and Petroleum Resources - Paper 1986-1.
- DAVIDSON, G.S. (1987): Exploration Report on the Pavey Property for Lodestar Explorations Inc.



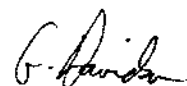
## CERTIFICATE

I, GRAHAM DAVIDSON, of the City of Whitehorse in the Yukon Territory, HEREBY CERTIFY:

1. That I am a consulting geologist and that I supervised and participated in the work program described in this report.
2. That I am a graduate of the University of Western Ontario (H.B.Sc., Geology, 1981);
3. That I am registered as a Professional Geologist by the Association of Professional Engineers, Geologists and Geophysicists of Alberta (No. 42308);
4. That I have been engaged in mineral exploration on a full and part time basis for seven years, five of which have been spent in the Yukon and Northwest Territories.

SIGNED at Whitehorse, Yukon, this 16 day of *September*.

G. S. DAVIDSON, P.Geol.



## STATEMENT OF COSTS

(July 19, 1988)

## PERSONNEL

|                                        |           |
|----------------------------------------|-----------|
| G. Davidson (Geologist)                | \$ 250.00 |
| B. Harris (Prospector)                 | 200.00    |
| K. Heneberry (Assistant)               | 150.00    |
| M. Fekete (Geologist - Total Erickson) | 200.00    |
| (Assistant - Total Erickson)           | 100.00    |

## TRANSPORTATION

|                                                  |          |
|--------------------------------------------------|----------|
| Jet Ranger helicopter (Heli-Dynamics Corp.) 2.5  | 1,375.00 |
| Jet Ranger helicopter (Frontier Helicopters) 1.1 | 605.00   |

## ANALYSES

|                                           |        |
|-------------------------------------------|--------|
| 8 rock samples (Bondar-Clegg)             | 140.00 |
| 4 rock samples (MIN EN Laboratories Ltd.) | 117.00 |

## REPORT

|                                              |          |
|----------------------------------------------|----------|
| Preparation of Summary and Assessment Report | 1,750.00 |
| Drafting and printing (Integraphics)         | 450.00   |
| Typing (Sourdough Secretarial Services)      | 126.00   |

TOTAL COSTS

\$5,463.00

APPENDIX I

VALUES and DESCRIPTIONS OF  
ROCK SAMPLES FROM ASSESSMENT REPORT  
#11,044 (GEOLOGICAL and GEOCHEMICAL REPORT  
ON THE **GAUG** PROPERTY)  
and from  
**BEN** CLAIMS REPORT

TABLE 3

Arsenopyrite-Quartz Veins, Descriptions and Assay Results

| <u>Sample #</u>                    | <u>Location</u>                          | <u>Description</u>                                                                         | <u>Assay</u>                                              |
|------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 9951A<br>(grab)                    | Inside adit                              | Width 2 to 30 cm qtz<br>aspy, py; strike<br>approx - 030°                                  | Au: 0.685 oz/t<br>Ag: 1.70 oz/t<br>As: 20.50 %            |
| 8900A<br>(grab)                    | 10 m west of<br>adit                     | Exposed area 150 cm x<br>30 cm qtz, aspy, py,<br>jarosite; orientation<br>- 040°/60SE      | Au: 0.255 oz/t<br>Ag: 0.66 oz/t<br>As: 9.25%              |
| 8901A<br>(grab)                    | 20 m east of<br>adit                     | Width 10 to 40 cm ex-<br>posed length 10 m;<br>orientation 55°/45SE<br>qtz, aspy, jarosite | Au: 0.805 oz/t<br>Ag: 1.42 oz/t<br>As: 17.6%              |
| 8196D<br>(chip<br>across<br>70 cm) | 15 metres<br>above adit                  | Width, average 70 cm<br>aspy, qtz, jarosite;<br>strike approx. 060°                        | Au: 0.234 oz/t<br>Ag: 6.19 oz/t<br>As: 4.75%              |
| 8197D<br>(chip<br>across<br>30 cm) | 15 metres<br>above 8196D                 | Width, average 30 cm<br>aspy, qtz                                                          | Au: 0.104 oz/t<br>Ag: 6.92 oz/t<br>As: 5.55%<br>Pb: 1.08% |
| 8190D                              | South branch<br>main creek<br>EL: 1120 m | 15 cm wide, qtz-aspy<br>vein, exposed over 10<br>metres; orientation -<br>000/10E          | Au: 0.695 oz/t<br>Ag: 0.90 oz/t                           |

---

Arsenopyrite - aspy  
 Pyrite - py  
 Quartz - qtz  
 Chalcopyrite - cpy  
 Sphalerite - ZnS  
 Stibnite - Sb

TABLE 4

Stibnite-Arsenopyrite Quartz Veins,  
Descriptions and Assay Results

| <u>Sample #</u>                    | <u>Location</u>                          | <u>Description</u>                                                                             | <u>Assay</u>                                                             |
|------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 8938A<br>(grab)                    | North side<br>creek, 1+76m<br>EL: 1410 m | Shear zone in grano-<br>diorite 3 cm thick<br>vuggy qtz 10% combined<br>py, cpy, sb            | Au: 0.034 oz/t<br>Ag: 1.57 oz/t<br>Cu: 0.710%<br>Sb: 0.28%               |
| 8941A<br>(grab)                    | South side<br>creek, 4+28m<br>EL: 1425 m | 3 cm wide, qtz-py-asp<br>-sb vein; striking<br>050°                                            | Au: 0.069 oz/t<br>Ag: 4.19 oz/t<br>Pb: 3.53%<br>Zn: 1.18%                |
| 8942A<br>(grab)                    | North side<br>creek, 4+28m<br>EL: 1375 m | 3 to 40? cm wide,<br>qtz-sb-ZnS-py vein;<br>orientation 074/80SE                               | Au: 0.670 oz/t<br>Ag: 26.45 oz/t<br>Pb: 6.44%<br>Zn: 5.94%<br>Cu: 0.110% |
| 8943A<br>(grab)                    | South side<br>creek, 5+20m<br>EL: 1355 m | Altered granodiorite<br>wall rock of vein<br>described under 8944A<br>taken 10 cm from vein    | Ag: 0.29 oz/t<br>all others low                                          |
| 8944A<br>(grab)                    | South side<br>creek, 5+20m<br>EL: 1355 m | 40 cm wide, qtz(25%)-<br>-asp(50%)-cpy(10%)-<br>-py(10%)- ZnS(minor);<br>orientation 084/15S   | Au: 0.052 oz/t<br>Ag: 9.60 oz/t<br>Pb: 0.44%<br>Zn: 0.24%                |
| 9950A<br>(grab)                    | South side<br>creek, 5+10m<br>EL: 1370 m | 1 m wide, qtz-sb(60%)-<br>-asp(10%)-ZnS(10%)-<br>cpy(5%) vein; orienta-<br>tion 058/76 NW      | Au: 0.215 oz/t<br>Ag: 11.20 oz/t<br>Pb: 2.36%<br>Zn: 4.93%               |
| 8945A<br>chip<br>sample<br>over 1m | South side<br>creek 5+15m<br>EL: 1345 m  | 1 m wide, qtz-sb(10%)<br>-asp(25%)-cpy<br>(5%)-py(10%) vein<br>swarm orientation:<br>083/82 NW | Au: 0.352 oz/t<br>Ag: 9.55 oz/t<br>Zn: 0.32%<br>Cu: 0.101%               |

TABLE 4 - (continued)

| <u>Sample #</u>          | <u>Location</u>                          | <u>Description</u>                                                                                                              | <u>Assay</u>                                              |
|--------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 8946A<br>(grab)          | South side<br>creek 4+90 m<br>EL: 1355 m | 10 cm wide, qtz-asp<br>py vein, extension of<br>vein in 8945A, 25 m<br>east of 8945A                                            | Au: 0.178 oz/t<br>Ag: 0.20 oz/t                           |
| 8947A<br>(grab)          | South side<br>creek, 5+60m<br>EL: 1330 m | 10 cm wide, qtz-py(10%)<br>-cpy(10%)-asp(5%)<br>vein, traceable over<br>20 m; striking: 098°                                    | Au: 0.064 oz/t<br>Ag: 9.95 oz/t<br>Pb: 0.33%<br>Zn: 0.89% |
| 8948A<br>(grab)          | South side<br>creek, 6+22m<br>EL: 1345 m | 50-100 cm wide qtz-py-<br>galena-asp-sb<br>stringer vein zone<br>strike: 090°                                                   | Au: 0.080 oz/t<br>Ag: 7.08 oz/t<br>Pb: 4.96%              |
| 8937A<br>(grab)          | South side<br>creek                      | 1 m wide, qtz-sb-<br>asp-ZnS vein;<br>orientation - 090/45S                                                                     | Au: 0.358 oz/t<br>Ag: 6.51 oz/t<br>Pb: 0.30%<br>Zn: 0.41% |
| 8851A<br>(talus)         | South side<br>creek, 8+27m               | Talus from inaccess-<br>ible qtz vein, ex-<br>posed over approx. 10<br>metres qtz boxwork<br>strong goethite stain,<br>minor py | Au: 0.142 oz/t<br>Ag: 0.37 oz/t<br>Pb: 0.26%              |
| 8852A<br>(grab)          | North side<br>creek, 8+27m<br>EL: 1205 m | Silicified zone in<br>granodiorite py and<br>boxwork to 20%, jaro-<br>site & goethite stain                                     | Au: 0.016 o/t                                             |
| 8853A<br>Chip<br>over 1m | South side<br>creek, 9+23m<br>EL: 1170 m | Altered zone in grano-<br>diorite silicified and<br>feldspar altered,<br>jarositic & hematitic<br>soil                          | Au: 0.016 oz/t<br>Ag: 0.085 oz/t<br>Pb: 0.46%             |
| 8854A<br>Chip<br>over 1m | South side<br>creek, 9+25m<br>EL: 1180 m | Silicified zone in<br>granodiorite 10 m<br>above 8853A, jarosite<br>stain, disseminated<br>py                                   | Ag: 0.10 oz/t                                             |

TABLE 4 - (continued)

| <u>Sample #</u>          | <u>Location</u>                                        | <u>Description</u>                                                         | <u>Assay</u>                                                             |
|--------------------------|--------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------|
| 8856A<br>chip<br>over 1m | South branch<br>main creek<br>near adits<br>EL: 1230 m | 1 m wide, qtz-asp-<br>sb-py vein; orienta-<br>tion - 090/55S               | Au: 0.032 oz/t<br>Ag: 0.12 oz/t                                          |
| 8857A<br>talus<br>grab   | South branch<br>main creek<br>near adits               | Talus sample of<br>massive coarse bladed<br>sb, 10 cm thick                | Au: 0.233 oz/t<br>Ag: 63.00 oz/t<br>Cu: 0.955%<br>Pb: 2.48%<br>Zn: 1.39% |
| 8858A<br>(grab)          | Above south<br>branch main<br>creek                    | 10-100 cm wide,<br>qtz-sb-asp-py vein;<br>striking approximate-<br>ly 090° | Au: 0.512 oz/t<br>Ag: 19.85 oz/t<br>Cu: 0.259%<br>Pb: 0.90%<br>Zn: 0.76% |

TABLE III

GOLD- AND/OR SILVER-BEARING LOCALES

| IDENTIFIER                               | SAMPLE TYPE | LOCATION                    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                             | GOLD ppm           | SILVER ppm | OTHER METALS %             |
|------------------------------------------|-------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------|----------------------------|
| <u>LOCALES WITHIN BEN MINERAL CLAIMS</u> |             |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                    |            |                            |
| 1. TRENCHES B-1 and B-2                  | chip        | on Ben Creek                | A stratabound disseminated sulphide-bearing zone about 1 m in width is hosted by gneiss. Sulphides include galena, sphalerite, stibnite, arsenopyrite, pyrite and pyrrhotite. The sulphide-bearing zone parallels the layering in the gneiss and exists between a shear zone and a linear trend of irregularly shaped quartz boudins. The sulphide-bearing zone is traceable over a strike length of 20 m and is covered by till deposits at both ends. | TRENCH B-1<br>0.32 | 108.1      |                            |
| 2. TRENCH B-3                            | chip        | on Grid 2 near a small pond | A siliceous felsic rock which contains disseminated galena and stibnite, and a massive vein of stibnite with galena, sphalerite and a minor amount of pyrite, is exposed in trench B-3. The trend and width of this zone is not known because barren rock was not exposed in the trench.                                                                                                                                                                | 0.03               | 90.6       | 1.47 lead<br>1.30 antimony |



| IDENTIFIER | SAMPLE TYPE | LOCATION                                                 | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                      | GOLD ppm | SILVER ppm | OTHER METALS % |
|------------|-------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|
| 3. 3PLP051 | grab        | 200 m south of camp                                      | An old trench, which is largely collapsed and filled in, exposes a quartz vein. A dump of massive sulphide vein material exists beside the trench. The sulphides include galena, sphalerite, arsenopyrite and pyrite. Sample 3PLP051 contains abundant arsenopyrite. Sample 2PLM035, which was collected in 1982 from this site, is comprised of galena and sphalerite, and contains 0.94 ppm gold, 4,011.0 ppm silver, 36% lead and 10.6% zinc. | 12.45    | 2,136.0    |                |
| 4. 3XFP017 | grab        | 300 m northeast of the small lake on BEN 2 mineral claim | This sample was collected from an outcrop where a narrow vein of massive arsenopyrite strikes about 040° and dips 50° southeast. Talus boulders indicate the vein is at least 10 m long.                                                                                                                                                                                                                                                         | 22.66    | 8.0        |                |
| 3XFO031    | chip        | 300 m northeast of the small lake on BEN 2 mineral claim | This sample was collected from an old trench that is about 25 m northwest of sample 3XFP017. In the trench is a quartz vein that ranges in width from 30 cm to 50 cm, and strikes 040° and dips 55° southeast. The vein is at least 15 m long. The sample is from an arsenopyrite-rich portion of the vein. Sample 3XFO032, which was collected from an arsenopyrite-poor portion of the vein, contains less than 1.00 ppm gold.                 | 6.59     | 28.0       | across 0.30 m  |

| IDENTIFIER | SAMPLE TYPE | LOCATION                                                                            | DESCRIPTION                                                                                                                                                                                                                                                                 | GOLD ppm | SILVER ppm | OTHER METALS % |
|------------|-------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|
| 5. 3DHP001 | grab        | on Ben Creek 200 m northeast of trench B-1                                          | Arsenopyrite and pyrite exist in boulders of quartz vein material 10 m north of the creek. Old overburden pits are present, but do not expose bed rock. On the south side of the creek a barren quartz vein 40 cm wide by at least 8 m long strikes 020° and dips 70° east. | 9.29     | 18.0       |                |
| 6. 3PLP018 | grab        | about 400 m southeast of trench B-1                                                 | Talus boulders of dark green amphibole skarn contain up to 10 volume per cent pyrrhotite and a trace of chalcopyrite. The source of the boulders was not discovered, but probably is upslope and to the west of the sample site in a talus-covered area.                    | 9.91     | 2.7        |                |
| 7. 3PLP024 | grab        | on the north shore of the lake at the toe of the glacier within BEN 4 mineral claim | A boulder of sugary quartz vein material with 20 volume per cent mafic wall rock fragments contains 20 volume per cent arsenopyrite. This boulder was also sampled in 1982; that sample contains 12.51 ppm gold.                                                            | 10.63    | 1.8        |                |
| 8. 3XFP005 | grab        | less than 100 m north of BEN mineral claims legal corner post                       | A narrow fracture zone, 2 cm in width, cuts fine grained greywacke and is associated with other fractures and a small quartz vein. The fracture zone has a primary cobalt mineral, erythrite stain, and minor amounts of pyrite.                                            | 6.62     | 1.7        | 0.37 cobalt    |

| IDENTIFIER  | SAMPLE TYPE | LOCATION                                                        | DESCRIPTION                                                                                                                                                                                        | GOLD ppm | SILVER ppm | OTHER METALS % |
|-------------|-------------|-----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|
| 9. 3PLP022  | grab        | at the toe of the glacier within BEN 2 and BEN 3 mineral claims | A boulder of quartz siderite vein material that contains arsenopyrite and galena. This boulder was also sampled in 1982; that sample contains 1.58 ppm gold, 373.7 ppm silver and 2.07% lead.      | 1.99     | 145.7      | 1.13 le        |
| 3XFP022     | grab        | at the toe of the glacier within BEN 2 and BEN 3 mineral claims | A boulder of massive pyrrhotite with a minor amount of carbonate material was collected from moraine. A sample, which was collected in 1982 from a similar boulder nearby, contains 1.54 ppm gold. | 7.69     | 1.9        |                |
| 10. 3DHP004 | grab        | 300 m southeast of ME 3 mineral claim legal corner post         | Arsenopyrite exists in a quartz vein which is less than 1 m wide, that is exposed in an old trench. Shears exist nearby.                                                                           | 1.02     | 1.8        |                |
| 11. 3PLP016 | grab        | on Ben Creek 300 m east of camp                                 | A rusty quartz vein, 10 cm in width, is poorly exposed in the creek bank. The vein strikes 015° and dips 72° west, and is hosted by fractured gneiss.                                              | 0.49     | 296.6      | 1.00 l         |

| IDENTIFIER  | SAMPLE TYPE | LOCATION                                               | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                | GOLD ppm | SILVER ppm | OTHER METALS % |
|-------------|-------------|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|
| 12. 3DHO001 | chip        | on Ben Creek near ME 3 mineral claim legal corner post | Chip sample across a quartz vein which contains galena, pyrite, sphalerite, chalcopyrite and arsenopyrite. Sulphides comprise 4 to 7 volume per cent of the quartz vein. The vein strikes 033° and dips 57° east and is exposed in the creek bed over a length of 7 m; it varies in width from 0.40 to 0.80 m. An old trench is present, as are several pits along strike which failed to expose the vein. | 1.69     | 124.5      |                |
| 3DHP002     | grab        | 50 m upstream of 3DHO001                               | A well mineralized grab sample from an old rock dump. Material in the dump probably came from a trench near 3DHO001. The sample comprises quartz vein material containing galena, pyrite, sphalerite and arsenopyrite.                                                                                                                                                                                     | 3.66     | 337.7      | 2.26 lea       |
| 13. 3XFO034 | chip        | 300 m southeast of camp                                | This sample was collected from a 30 cm wide vein that is at least 20 m in length. The vein contains from 5 to 10 volume per cent arsenopyrite and 2 to 3 volume per cent pyrite, and strikes 015° and dips 80° west.                                                                                                                                                                                       | 0.35     | 76.1       |                |

| IDENTIFIER                                | SAMPLE TYPE | LOCATION                                                 | DESCRIPTION                                                                                                                                                                                                                                                           | GOLD ppm | SILVER ppm | OTHER METALS % |
|-------------------------------------------|-------------|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------------|
| <u>LOCALES EAST OF BEN MINERAL CLAIMS</u> |             |                                                          |                                                                                                                                                                                                                                                                       |          |            |                |
| 14. 3DHP005                               | grab        | just outside the northeast corner of BEN 1 mineral claim | Massive arsenopyrite exists in three parallel fracture zones which trend 058° and dip 84° southeast and are hosted by volcanic flows. The arsenopyrite-bearing portions of the fracture zones are up to 30 cm wide and 11 m long.                                     | 13.37    | 1.2        |                |
| 15. 3DHP007                               | grab        | about 400 m east of BEN 1 mineral claim                  | Galena and chalcopyrite exist in a vuggy quartz vein which strikes 060° and dips vertically. The vein is about 30 cm wide and is covered by talus at one end and pinches out at the other end.                                                                        | 0.07     | 253.7      | 1.34 lead      |
| <u>LOCALES WITHIN GAUG MINERAL CLAIMS</u> |             |                                                          |                                                                                                                                                                                                                                                                       |          |            |                |
| 16. 3PLP025                               | grab        | within GAUG 3 mineral claim                              | A sample of silicified, sheared granodiorite which contains 10 volume per cent arsenopyrite and 3 volume per cent pyrite was collected from muck at the entrance to an old adit. The dimensions of the sulphide-bearing zone in the sheared granodiorite are unknown. | 15.91    | 394.3      |                |

| IDENTIFIER  | SAMPLE<br>TYPE | LOCATION                   | DESCRIPTION                                                                                                                                                                                                                                                                                | GOLD<br>ppm | SILVER<br>ppm | OTHER<br>METALS<br>% |
|-------------|----------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------|----------------------|
| 17. 3PLP026 | grab           | on GAUG 2 mineral<br>claim | A fractured and silicified zone in<br>granodiorite, less than 1 m in width,<br>locally contains up to 20 volume per cent<br>arsenopyrite and 10 volume per cent pyrite.<br>The zone trends 109° and dips vertically.<br>The sample is a well mineralized piece from<br>the fractured zone. | 1.43        | 3.8           |                      |

APPENDIX II

CERTIFICATES OF ANALYSIS



REPORT: 127-5560

PROJECT: PAVEY

PAGE 1A

| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Cu PPM | Pb PPM | Zn PPM | Mo PPM | Co PPM | Ni PPM | Mn PPM | Ag PPM | Bi PPM | Tl PPM |
|---------------|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| R2 17891      |               | 30     | 28     | >10000 | 14804  | 8      | 3      | 6      | 987    | >50.0  | 5      | 1      |
| R2 17892      |               | 55     | 103    | 4032   | >20000 | 20     | 6      | 9      | 8277   | >50.0  | 16     | 2      |
| R2 17893      |               | 85     | 43     | 5868   | 4807   | 2      | 1      | 3      | 337    | 29.6   | 2      | <1     |
| R2 17894      |               | 35     | 157    | 1398   | 306    | 3      | 17     | 19     | 578    | 8.1    | <2     | 2      |
| R2 17895      |               | 5900   | 614    | 8582   | 3207   | 2      | 30     | 10     | 44     | >50.0  | 508    | <1     |
| R2 34501      |               | 300    | 15     | 293    | 131    | 4      | 6      | 14     | 51     | 7.1    | 6      | <1     |
| R2 34502      |               | 10     | 84     | 220    | 91     | 4      | 5      | 21     | 627    | 4.4    | 2      | 2      |
| R2 34503      |               | 130    | 36     | 156    | 67     | 14     | 30     | 33     | 155    | 2.1    | <2     | <1     |
| R2 34504      |               | 780    | 26     | 301    | 91     | 4      | 2      | 22     | 15     | 7.4    | 16     | <1     |
| R2 34505      |               | 75     | 30     | 85     | 89     | 6      | 2      | 9      | 505    | 1.1    | <2     | 3      |
| R2 34506      |               | 10     | 884    | 49     | 39     | <1     | <1     | 43     | 153    | 2.8    | <2     | <1     |
| R2 34507      |               | 400    | 209    | 256    | 22     | 3      | 6      | 6      | 129    | 6.1    | <2     | <1     |
| R2 34508      |               | 1050   | 20     | <5     | 17     | 5      | 6      | 11     | 114    | 1.0    | 2      | <1     |
| R2 34509      |               | 45     | 36     | 86     | 75     | 4      | 20     | 43     | 651    | 0.9    | <2     | 3      |
| R2 34510      |               | 5      | 236    | 78     | 60     | 4      | 11     | 10     | 872    | 1.2    | <2     | 2      |
| R2 34511      |               | 75     | 2      | 106    | 50     | 1      | 1      | 6      | 32     | 3.0    | <2     | 1      |
| R2 34512      |               | >10000 | 11     | 25     | 9      | 12     | 3      | 5      | 27     | 2.4    | 10     | <1     |
| R2 34513      |               | 520    | <1     | 88     | 85     | 2      | 3      | 9      | 108    | 0.6    | <2     | <1     |
| R2 34514      |               | 500    | 6      | 75     | 8      | 2      | 2      | 5      | 14     | <0.5   | <2     | 1      |
| R2 34515      |               | 860    | 63     | 174    | 1227   | 1      | 2      | 6      | 1604   | 22.4   | <2     | <1     |
| R2 34516      |               | >10000 | 445    | 663    | 1160   | 1      | 7      | 12     | 252    | >50.0  | <2     | <1     |
| R2 34517      |               | 40     | 40     | 56     | 46     | 3      | 5      | 12     | 1101   | 1.2    | <2     | <1     |
| R2 34518      |               | 2900   | 3      | 47     | 66     | 1      | 6      | 8      | 450    | 0.6    | <2     | <1     |
| R2 34519      |               | 6000   | 299    | 8569   | 19883  | 4      | 5      | 11     | 468    | >50.0  | <2     | <1     |
| R2 34520      |               | 800    | 8      | 563    | 552    | 1      | 7      | 9      | 2959   | 5.6    | <2     | <1     |
| R2 34521      |               | 780    | 2      | 110    | 286    | 1      | 4      | 10     | 1399   | 2.1    | <2     | <1     |
| R2 34522      |               | >10000 | 594    | 1010   | 1569   | 1      | 7      | 10     | 386    | >50.0  | <2     | <1     |
| R2 34523      |               | 5400   | 204    | >10000 | 1556   | 4      | 2      | 9      | 38     | >50.0  | <2     | <1     |
| R2 34524      |               | 4300   | 485    | >10000 | 5538   | 4      | 5      | 15     | 94     | >50.0  | <2     | <1     |
| R2 34525      |               | 2100   | 42     | 83     | 165    | 1      | 3      | 6      | 306    | 49.2   | <2     | <1     |



REPORT: 127-5560

PROJECT: PAVEY

PAGE 18

| SAMPLE NUMBER | ELEMENT UNITS | As PPM | H PPM | Ba PPM | Se PPM | Sb PPM | Cr PPM |
|---------------|---------------|--------|-------|--------|--------|--------|--------|
| R2 17891      |               | >2000  | <10   | 282    | 9      | >20000 | 56     |
| R2 17892      |               | 67     | 96    | <15    | 20     | >20000 | 40     |
| R2 17893      |               | >2000  | <10   | 776    | <1     | 293    | 70     |
| R2 17894      |               | 1697   | <10   | 880    | 1      | 1043   | 58     |
| R2 17895      |               | >2000  | <10   | <15    | 10     | 3385   | 247    |
| R2 34501      |               | >2000  | <10   | 615    | 6      | 367    | 170    |
| R2 34502      |               | 442    | <10   | <15    | 5      | 52     | 75     |
| R2 34503      |               | >2000  | <10   | 1170   | 5      | 340    | 94     |
| R2 34504      |               | >2000  | <10   | <15    | 13     | 521    | 361    |
| R2 34505      |               | >2000  | <10   | 185    | 1      | 119    | 58     |
| R2 34506      |               | >2000  | <10   | <15    | 6      | 18     | 48     |
| R2 34507      |               | >2000  | <10   | <15    | 6      | 668    | 432    |
| R2 34508      |               | >2000  | <10   | 882    | 5      | 392    | 69     |
| R2 34509      |               | >2000  | <10   | 464    | <1     | 25     | 119    |
| R2 34510      |               | >2000  | <10   | 722    | 1      | 25     | 51     |
| R2 34511      |               | >2000  | <10   | 21     | 1      | 40     | 159    |
| R2 34512      |               | >2000  | <10   | 60     | 6      | 398    | 250    |
| R2 34513      |               | >2000  | <10   | 3336   | 3      | 34     | 119    |
| R2 34514      |               | >2000  | <10   | 920    | 1      | 36     | 115    |
| R2 34515      |               | 1004   | <10   | <15    | 1      | >20000 | 77     |
| R2 34516      |               | >2000  | <10   | <15    | <1     | >20000 | 8      |
| R2 34517      |               | 302    | <10   | 324    | 1      | 205    | 241    |
| R2 34518      |               | >2000  | <10   | 246    | 1      | 531    | 253    |
| R2 34519      |               | >2000  | <10   | <15    | <1     | >20000 | 101    |
| R2 34520      |               | >2000  | <10   | 654    | <1     | 114    | 108    |
| R2 34521      |               | >2000  | <10   | 217    | 3      | 516    | 340    |
| R2 34522      |               | 662    | <10   | <15    | <1     | >20000 | <2     |
| R2 34523      |               | >2000  | <10   | <15    | 2      | >20000 | 141    |
| R2 34524      |               | >2000  | <10   | <15    | 1      | >20000 | 96     |
| R2 34525      |               | 151    | <10   | <15    | <1     | >20000 | <2     |



REPORT: V88-05627.0

PROJECT: NONE GIVEN

PAGE 1

| SAMPLE NUMBER | ELEMENT UNITS | Au PPB | Ag PPM | Cu PPM | Pb PPM | Zn PPM |
|---------------|---------------|--------|--------|--------|--------|--------|
|---------------|---------------|--------|--------|--------|--------|--------|

R2 63831  
R2 63832  
R2 63833  
R2 63834  
R2 63835

|    |     |  |  |  |  |  |
|----|-----|--|--|--|--|--|
| 38 | 1.3 |  |  |  |  |  |
| 6  | 0.4 |  |  |  |  |  |
| 10 | 1.1 |  |  |  |  |  |
| <5 | 1.0 |  |  |  |  |  |
| 17 | 1.6 |  |  |  |  |  |

R2 63836  
R2 63837  
R2 63838  
R2 63839  
R2 63840

|      |       |      |        |      |  |  |
|------|-------|------|--------|------|--|--|
| 52   | 1.8   | 1800 | >10000 | 4690 |  |  |
| 3021 | >50.0 | 2500 | >10000 | 6580 |  |  |
| 8590 | >50.0 |      |        |      |  |  |
| 33   | 4.3   |      |        |      |  |  |
| 12   | 1.3   |      |        |      |  |  |

→ \$143/ton  
~ \$250/ton

h.o. vein

