

5074 I

Diamond Drilling Report

on

THE PALMER OPTION PROJECT

Par 74 Claim Group

49° 26' N; 117° 30' W

82F/6W

82F/6W

Nelson Mining Division

by

J. Paxton P. Eng.

for

The Granby Mining Company Limited

PHOENIX COPPER DIVISION

Box 490, Grand Forks, B.C.

Field Work and Report: J. Paxton P. Eng.

Field Work Period: July 15 to August 30, 1974

Department of
Mines and Petroleum Resources
ASSESSMENT REPORT
NO. **5074** MAP.....

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MAPS IN POCKET

#1 LOCATION MAP - Scale 1" = 1500'

#2 DRILL HOLE LAYOUT AND SECTION - Scale 1" = 40', 1" = 20'

#3 Surface plan

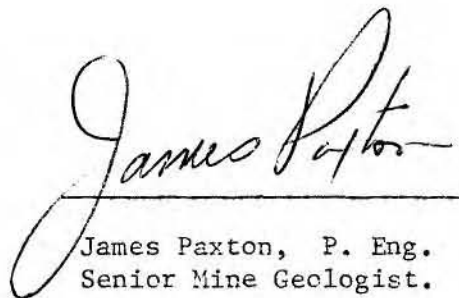
#4 Claim map

SUMMARY

In 1973 claims in an area on the projected strike of the Mineral King Mine four miles to the south of Nelson, B.C. were optioned from Mr. Palmer of Nelson. Additional claims were staked in the area by Granby personnel. In July of 1974 an attempt was made at building an access road to the property but was frustrated by lack of permission from the B.C. Forest Service. In August of 1974 a diamond drill was flown to the property by helicopter and three holes were drilled totalling 610 feet. Results were disappointing. The holes intersected pyritic sericite schists and quartzites with only traces of visible base metal sulphides. All the core was split and racked on the site. The best assay result obtained was:

DDH 3 - 0.0365 oz/ton Au ; 0.126 oz/ton Ag over 10 feet

Total cost of the project was \$19,000 including the work with the Cat.


James Paxton, P. Eng.
Senior Mine Geologist.

HISTORY OF THE AREA

Serious prospecting in the area began in the 1880's. In 1886 the Hall Brothers staked the Silver King group of claims on the west slope of Toad Mountain, three miles south of Nelson. Production of ore began in 1889 and continued intermittently until 1948. In this period 222,246 tons of ore were produced from several parallel shear zones trending approximately N60°W. Grade of the ore (Ref. - Minister of Mines, B.C. Annual Reports) was as follows:

Gold	0.0012 oz/ton
Silver	19 oz/ton
Copper	3.36%
Lead	0.069%
Zinc	0.016%

These shear zones were traced by prospecting and hand trenching on strike to the northwest across the basin of Giveout Creek and over Morning Mountain to Sandy Creek. Many small shafts and adits were sunk on these zones but only the Silver King, had any appreciable production. In the 1930 to 1950 period a small amount of high grade ore was produced from the old workings by small operators. Mr. K. C. Fahrni examined a number of showings and old working in the area on behalf of Granby in 1946 and his report is on file. (No. 2040) In the period 1950 to 1970 control of the main mining area around the Mineral King Mine was held by Cominco Ltd. of Trail, B.C. and by Sproatt Silver Mines Ltd. of 333,885 Dunsmuir Street, Vancouver, B.C. The portion of the Mineral King shear zone crossing

Morning Mountain was acquired by Mr. Richard Palmer of Nelson, B.C. Granby's renewed interest in the area was originated by Mr. G. B. Hardwicke, who in researching old reports in the Granby file and the old Minister of Mines Reports, noted mention of widespread, low grade mineralization around the high grade copper-silver veins in the Silver King Mine area. In 1973 Mr. Hardwicke staked several claims in the area for Granby and entered into an agreement with Mr. Palmer for an option to purchase his claims in the area. In 1974 an attempt was made to build a road into the area with the idea of trenching along the ridge of Morning Mountain to test the presence of the Mineral King shear zone. Permission to do this work could not be obtained from the B.C. Forest Service so a small diamond drill was moved in by helicopter and three holes were drilled to test the most promising areas. This work is described in detail in this report.

GEOLOGY OF THE AREA

According to the only geological map available to the writer (1090A Nelson, west half, by H.W. Little, 1960) the Palmer property lies on the west limb of a syncline trending north-south between Nelson and Salmo. The syncline is composed of andesites and tuffs of the lower Jurassic, Rossland Formation, overlain in the core of the syncline by argillite and sandstone of the Hall Formation. The syncline is surrounded by, and intruded at numerous points by plutonic diorite, quartz diorite and porphyritic syenite of the Nelson Batholith.

According to other reports, listed at the end of this section,

the north end of the syncline is cut by three parallel shear zones trending N60°E. The Mineral King Mine lies on the strongest of these shear zones. The Palmer property covers the presumed projection of two of these shear zones. The drilling done in this report was done to test the existence and mineralization of these shear zones on the property. The old time prospectors tried to trace the shear zones with a series of trenches and shallow shafts. The writer examined several of these showings but could see no major shear structure linking them together and none was intersected in the subsequent drilling. Most of the showings examined were in a widespread uniform zone of strongly foliated pyrite - sericite schist. Within the schist small lenses and cross-fractures occur, filled with, quartz, limonite, sphalerite, galena and chalcopryrite. To the north of drill hole No. 3 there was a sharp contact with quartzitic rocks. These quartzites were strongly pyritized similar to the schist. They may belong to the Ymir Group of Jurassic rock as shown on Little's map. The widespread disseminated pyrite mineralization seen in the drill core in both the shistose and quartzitic rocks is probably syngenetic and is earlier than the epigenetic quartz-base metal veinlets seen in the old workings.

Copies of the following reports are at hand and were read in preparation for this report:

1. Giveout Creek Group, Nelson M.D.
by K.C. Fahrni, July, 1946.
2. Examination Report covering the Starlight, Victoria, Jessie, North Star, Great Western, Great Eastern and Irene claims for Privateer Mines Limited.
by W.S. Ellis, 1945.

3. A report containing lengthy extracts from reports made by E. Nelson Fell M.E., A.R., S.M., in 1899 and 1911 written in 1936 covering the Kootnia Star, Golden Star, Starlight, Woodstock and Calgary claims.
by A. St. Clair Brindle M.E., 1936.
4. A report for Cominco Limited on the Silver King and surrounding properties.
by G.F. Waring, 1952.

Unfortunately the maps which originally accompanies Mr. Waring's report were not available.

ROAD WORK

A number of wagon roads and pack horse trails were made in the early days in the Giveout Creek Valley. Most of these trails have since grown in but some have been maintained and extended by loggers. One of these roads reaches the northwest corner of the Golden Star claim. Mr. Palmer has made an extension to this road about 4000 feet southwest along the west fork of Giveout Creek, but by 1974 this road was badly washed out and was impassable to vehicles. In 1974 it was planned to bring in a D-6 Cat and repair Mr. Palmer's road and extend it another 4000 feet westward to the crest of Morning Mountain and there test the shear zone with a 1000 foot north-south cat trench. In July, 1974 the D-6 Cat was moved in and Palmer's road was repaired to the point where it was passable in dry weather to 4WD vehicles. Work was halted at this point since it was found that permission to build new road and do the trenching could not be obtained from the B.C. Forest Service in a reasonable time.

Since the road could not be completed, it was decided to test the shear zone by moving in a light diamond drill with a helicopter, and

further work on the road was discontinued. Palmer's road was used for personal access and for moving out the supply pump for the drill.

DIAMOND DRILLING

On August 1, 1974 a contract was signed with Connors Drilling Limited, 155 West 3rd Avenue, Vancouver, B.C. to do a minimum of 600 feet of AQ drilling at a basic price of \$10.85 per foot in overburden to 50 feet, and in rock to 300 feet. Transportation of the drill camp and equipment to be Granby's cost and responsibility.

On August 8th a landing place for the helicopter was cleared on the crest of Morning Mountain.

Supplying water to the drill and camp presented a problem. A small stream was located about 500 feet east of the top end of Palmer's trail coming from springs at an elevation of about 5500 feet. It was decided to move a large diesel pump to the top end of Palmer's trail then run a hose line from the pump over to the stream and bring the water by gravity to the pump which was at an elevation of about 5400 feet, then pump it up to the camp in one lift of 700 feet to the 6100 foot elevation.

On August the 13th the drill, a driller and a helper, and all equipment were moved up to the camp. The first hole was started on August 15th and completed at 200 feet on August 18th. The second hole was started August 22nd. Problems were encountered in getting the overshot to go down. It had been planned to go to 250 feet but because of the problems and lack of important mineralization, drilling was stopped at 210 feet.



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 NO. **5074** M.P. **#3**

SURFACE PLAN	
PALMER OPTION	
DDH N ^o 1,2,3	
Scale: 1"=400'	SEPT. 1974
Drawn: James Payton 1974	

The third hole was started on August 25th and completed on the 26th. Increasing the dip of this hole from 45° to 50° overcame the problem with the overshot. Core recovery in all three holes was over 90%. Moving the drill was accomplished by winching and dragging the mast. The rods were packed by the helper.

The drill was a BBS-1 with a lycoming diesel motor. The hose was heavy duty PVC rated at 160 psi. It withstood pressure in excess of 300 psi with only an occasional rupture. This was the most critical factor in the whole project.

RESULTS

The first two holes intersected fine grained sericite schist with occasional short sections of rusty vuggy material containing irregular veins of secondary quartz. No metallic mineralization other than fine disseminated pyrite, magnetite and occasionally chalcopyrite could be identified in the core either in the schist or the rust sections. The third hole collared in schist similar to the previous two then at 41 feet passed into grey quartzite and chert. Mineralization was as in the previous holes. These results were disappointing in that nothing could be correlated with the main shear zone in the Silver King Mine which is described as a very strong feldspathized fault zone ranging in width from 4 feet to 200 feet.

All the core was split and samples taken over ten foot intervals except in rusty quartz vein material which was sampled separately. Of these samples (total 65) 37 were selected for copper assay, 20 for gold

silver assay and 14 for lead and zinc.

Assay returns for these selected samples show very low values for copper lead and silver and low values for gold and zinc. All samples were below ore grade. No relationship between metal variation was apparent, although there may be some relationship between gold and zinc.

CONCLUSIONS

The drilling done was unsuccessful in locating the extensions of the Mineral King shear zones and there is a strong probability that they do not exist in their original form this far to Northeast. It is possible that the old workings in the area were not put down on mineral outcrops but were speculative attempts at locating the extension of the shear zone just as our drilling was. The fact that the old-timers turned up small amounts of ore grade mineralization in a fair number of their diggings indicates the area is still good prospecting ground. The widespread disseminated pyrite noted in the area is also a good prospecting indicator.

RECOMMENDATIONS

1. Assay all of hole No. 2 for gold and silver.
2. In view of the negative drilling results terminate the option agreement with Mr. Palmer.
3. Make a regional soil and stream silt sampling survey in the area next year covering a five to ten square mile area with a soil sampling spacing of 500 feet.

CLAIM OWNERSHIP

The following claims were covered in the option agreement between Granby and Mr. Palmer of Nelson, B.C. dated October 24, 1973.

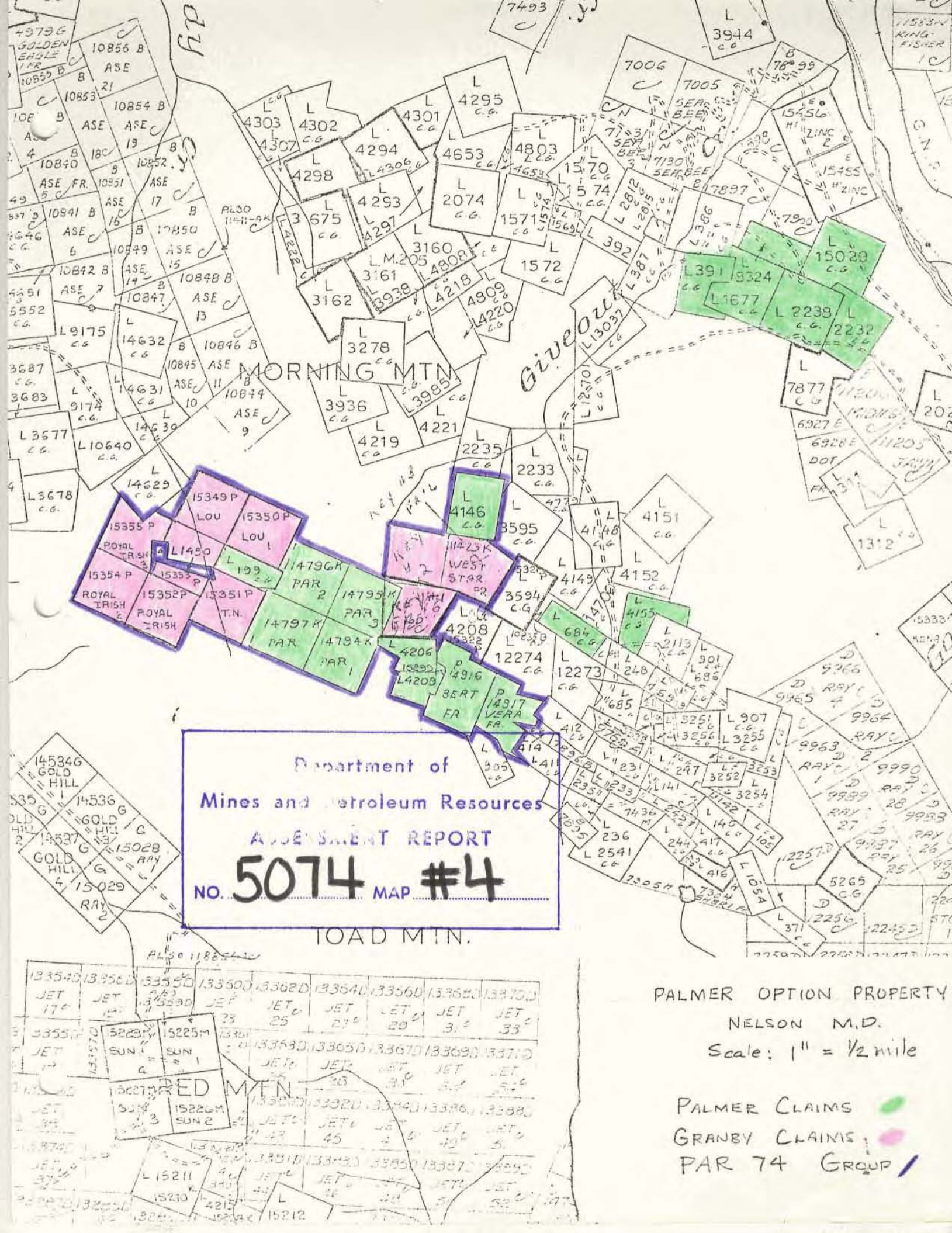
<u>Claim Name</u>	<u>Lot or Rec. No.</u>	<u>Anniversary Date</u>	<u>Owner</u>
** PAR	14797	August 22	Shirley Palmer
** PAR 1	14794	August 22	Shirley Palmer
** PAR 2	14796	August 22	Shirley Palmer
** PAR 3	14795	August 22	Shirley Palmer
* Bert Fr.	14916	November	Shirley Palmer
* Vera Fr.	14917	November	Shirley Palmer
* Atlantic-Delight	15299	September 13	
* Tough Nut	L 199		Richard Palmer
Starlight	L 684		" "
* Black Wagon	L 4146		" "
Gold Bell	L 4155		" "
California	L 1677		" "
Exchequer	L 391		" "
Union	L 8324		" "
Hillside	L 2238		" "
Deadwood	L 2232		" "
Clift	L 15029		" "

** These claims were grouped as the PAR 74 group on August 20, 1974.

* These claims were added to the PAR 74 group in September, 1974.

The following claims were staked in the area by Granby personnel in 1973 and 1974:

<u>Claim Name</u>	<u>Lot or Rec. No.</u>	<u>Anniversary Date</u>	<u>Owner</u>
Royal Irish	370112	November	Granby
Royal Irish 1	370113	November	Granby
Royal Irish 2	370114	November	Granby
Royal Irish 3	370115	November	Granby
T.N.	370111	November	Granby
Lou	370109	November	Granby
Lou 1	370110	"	Granby
Key 1	15528	July	Granby
Key 2	15529	July	Granby
Key 3	15530	July	Granby



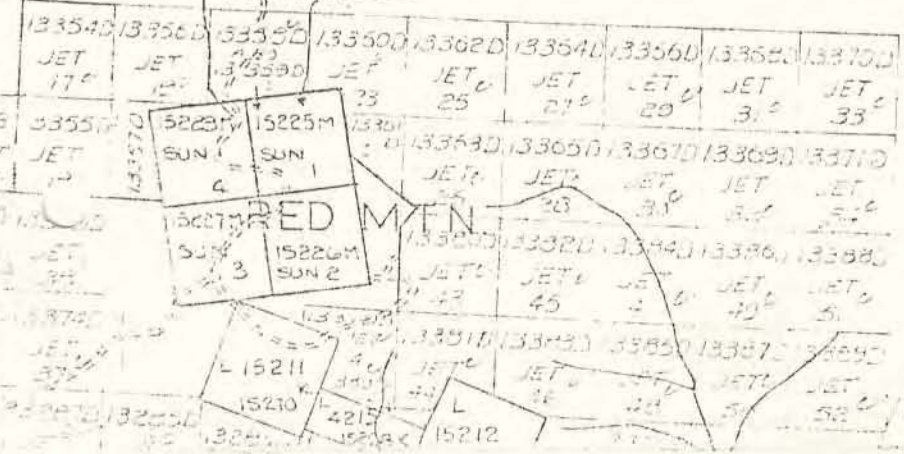
Department of
Mines and Petroleum Resources
 ASSESSMENT REPORT
NO. 5074 MAP #4

LOAD MTN.

PALMER OPTION PROPERTY
 NELSON M.D.

Scale: 1" = 1/2 mile

PALMER CLAIMS ■
 GRANBY CLAIMS ■
 PAR 74 GROUP



TIME DISTRIBUTION

July 17th - Reconnaissance and layout of road from the top of Palmer's road to the crest of Morning Mountain.

G.B. Hardwicke - 1 day

J. Paxton - 1 day

July 19th, July 25th - Moved D-6 Cat from Grand Forks to Nelson. Repaired Palmer's road and returned Cat to Grand Forks.

J. Paxton - 7 days

V. Lesjack, Cat Operator - 7 days

Granby D-6 Cat - 5 days

August 2nd, 6th - Reconnaissance Trips.

J. Paxton - 2 days

J. R. Lucke - 2 days

August 8th - Cleared helicopter landing site.

J. Paxton - 1 day

J. R. Lucke - 1 day

D. D. Rexin - 1 day

August 11th - Moving pump to top of Palmer's road, and drill
to and camp from Salmo to top of Morning Mountain,
August 30th drilling 610 feet and returning.

Connors Drilling Limited

S. Savinkoff, Driller - 231 hours

M. Bonderoff, Helper - 85 hours

D. Deschambault, Helper 111 hours

J. Paxton - 14 days

J. R. Lucke - 9 days

Okanagan Helicopters Limited - 5.5 hours

September 3rd - 13th - Wrote report, drafted maps and packed equipment.

J. Paxton - 8 days

J. R. Lucke - 4 days

STATEMENT OF COSTS

Granby Costs

Supervision, Surveying, Core Logging, Core Splitting, Travelling

J. Paxton, Sr. Mine Geologist - 27 days

J. R. Lucke, Assistant Geologist - 18 days

D. D. Rexin, Faller - 1 day

Vehicle 66-82 - 1500 miles

Vehicle 66-83 - 2000 miles

All covered by Work Order 1576 (to August 31) \$ 3,563

Additional Estimate September 1 - 13 600

\$ 4,163

Road Work with D-6 Cat

J. Paxton, Sr. Mine Geologist - 8 days

E. Lesjack, Cat Operator

D-6 Cat @ \$8.00 per hour

Transport of Cat

All covered by Work Order 1577 \$ 1,849

Assaying

Phoenix Mine Assay Lab.

37 for Cu. at \$3.00 111

20 for Au. Ag. at \$5.00 100

General Testing Labs, Vancouver

14, Wet - Pb. Zn.

14, Spectro - Cu. Pb. Zn. Au. Ag. est. 200

Total Granby Costs \$ 6,423

Contract Costs

Connors Drilling Limited (Invoice 5140 Job 4-502)

8-0 feet drilled as per contract at \$10.85 per ft. \$ 6,619

Mobilization fee as per contract 1,000

Field Costs - Moves, Waterline, Etc. 3,015

\$10,634

Supplies

98

\$10,732

Okanagan Helicopters Limited

Flying time, 5.5 hours @ 286.50 1,576

Fuel, 123 gallons @ 0.65 80

\$ 1,656

Total Contract Costs \$ 12,388

TOTAL COSTS, PALMER OPTION PROJECT

\$18,811

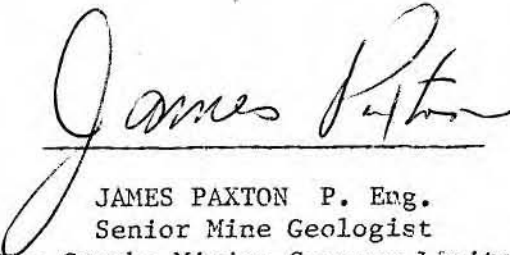
STATEMENT OF QUALIFICATIONS

The undersigned graduated from the University of Saskatchewan with a B.A. Sc. degree, major in geological sciences, in 1953.

One year of honors geology was taken in 1954 at University of Manitoba.

Since graduation the undersigned has been employed on various mining and exploration projects. Since 1964 the undersigned has been employed by The Granby Mining Company Limited on both mine and exploration geology projects in B.C.

The undersigned is a member C.I.M., fellow of the G.A.C. and a member of the Association of Professional Engineers of B.C.


A handwritten signature in cursive script, reading "James Paxton", is written over a horizontal line. Below the line, the name and title are printed in a serif font.

JAMES PAXTON P. Eng.
Senior Mine Geologist
The Granby Mining Company Limited
PHOENIX COPPER DIVISION

APPENDIX I

DIAMOND DRILL LOGS FOR HOLES

NO. 1, NO. 2, NO. 3

APPENDIX II

ASSAY CERTIFICATES

DIAMOND DRILL HOLE RECORD

THE GRANBY MINING COMPANY LIMITED
PHOENIX COPPER DIVISION, GRAND FORKS, B.C.

PROPERTY Palmer Option, Nelson, B.C.

DIP TESTS		LEVEL	LAT.	HOLE No.
FOOTAGE	ANGLE	LOCATION <u>PAR N^o 1</u>	DEP.	SHEET No. <u>1/2</u>
<u>Collar</u>	RECORDED <u>-45°</u>	ELEVATION <u>6100 Approx.</u>	BEARING <u>N 015° E</u>	LOGGED BY <u>J. Paxton</u>
	CONNECTED	FINISHED <u>Aug 19 1974</u>	LENGTH <u>200'</u>	TOTAL RECOV. <u>93.0</u>

FOOTAGE		ROCK T/P	MINERALIZATION	DESCRIPTION	CORE ASSAYS							SLUDGE ASSAYS					RECOVERY		
FROM	TO				SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	AVERAGE Pb	Zn	SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	RUN
0	10			Casing through overburden													8	0	156
10	107			Chlorite - Sericite Schist	3701	10	20										11	1.0	161
				10-22 Brown stained. Iron minerals	2	20	30										15	1.0	165
				all oxidized to limonite	3	30	40										18	2.0	170
				22-26 Typical unaltered rock	4	40	50										22	1.5	175
				Grey-green color. Hardness 3-4	5	50	55	.07	.0045	.345							27	0.5	180
				Strongly schistose at 70° to core axis	6	55	56	.10	.003	.389	.04	.20					32	0	185
				Aphanitic with 2-3mm lenticular grains	7	56	60	.05	.001	.065							37	0	190
				of green chlorite comprising 20-30%	8	60	70	.07	.001	.238							42	0	195
				of total rock. Numerous very fine (>1mm)	9	70	80										47	0	200
				subhedral grains of magnetite (8% of	10	80	90										52	0	
				total rock) and pyrite (2% of total rock)	1	90	100										57	0	
				Occasional specks of chalcopyrite noted).	2	100	110										62	0	Reco
				26-28 Brown oxidized schist	3	110	120	.05	.001	.0605	.01	.01					67	0	200
				28-61 Similar to section 22-26	4	120	130										72	0	
				49-51 Oxidized zone surrounding a	5	130	140										77	1.0	186
				small fault cutting foliation at 90°	6	140	150										82	0	200
				55-56 Oxidized zone at 80° to core	7	150	160	.05	.001	.0027	.01	.01					87	0	
				filled with a network of irregular	8	160	170										92	1.0	
				secondary white quartz veins	9	170	180										97	0.5	
				61-71 Brown limonite stained, vuggy	20	180	190										102	0.5	
				oxidized zone. Much partially	3721	190	200	.05	.001	.092	.01	.01					107	0	
				leached fine magnetite and pyrite													112	0	
				71-75 Similar to section 22-26													117	0	
				75-76 Oxidized zone													122	0	
				76-93 Grey-green schist similar to													126	0	
				Section 22-26													131.6	0	
				93-101 Numerous short sections of													136	1.5	
				oxidized schist surrounding small													140	0.5	
				irregular vuggy quartz veins. Specks													145	0	
				of malachite noted at 100'													150.5	0	
																			9.0

James [Signature]

DIAMOND DRILL HOLE RECORD

THE GRANBY MINING COMPANY LIMITED
PHOENIX COPPER DIVISION, GRAND FORKS, B.C.

PROPERTY Palmer Option, Nelson B.C.

DIP TESTS		LEVEL		LAT.	HOLE No. <u>1</u>
FOOTAGE	ANGLE	LOCATION		DEP.	SHEET No. <u>2/2</u>
RECORDED	CORRECTED	ELEVATION		BEARING	LOGGED BY <u>J. Paxton</u>
		FINISHED		LENGTH	TOTAL RECOV. <u>9</u>

FOOTAGE		ROCK TYPE	MINERALIZATION	DESCRIPTION	CORE ASSAYS							SLUDGE ASSAYS						RECOVERY		RECOV
FROM	TO				SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	AVERAGE	SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	RUN	SHORT	RUN
107	108			Lamprophyre Dyke Consists of well grained dark brown biotite. Contacts at 80° to core																
108	156			Chlorite Sericite Schist Similar to previous section but finer grained and slightly less schistose																
156	158			Talc Schist Grey to black color. Blocky core																
158	200			Chlorite-Sericite Schist Similar to section 108-156 Local short vuggy oxidized sections 185-185.5 Quartz vein, vuggy and limonite stained																
	200			End of hole.																
				<u>Summary</u>																
				0-200 Chlorite Sericite Schist																
				61-71 Oxidized zone with Pyrite & Mag																
				93-101 Oxidized schist with quartz veinlets, Malachite																
				107-108 Lamprophyre dyke																
				156-158 Talc Schist.																
				Signed: <u>James Paxton P. Eng.</u>																
				Aug 19, 1974																

DIAMOND DRILL HOLE RECORD

THE GRANBY MINING COMPANY LIMITED
PHOENIX COPPER DIVISION, GRAND FORKS, B.C.

PROPERTY PALMER - OMINON

DIP TESTS		LEVEL	LAT.	HOLE No.
FOOTAGE	ANGLE	LOCATION	DEP.	SHEET No.
RECORDED	CORRECTED	ELEVATION	BEARING	LOGGED BY
Collar	-45°	PAR No 2	N. 030° E	J.P.
		6000 Approx.	LENGTH 210	TOTAL RECOV. 926.9
		FINISHED Aug 24 1974		

FOOTAGE		ROCK TYPE	MINERALIZATION	DESCRIPTION	CORE ASSAYS							SLUDGE ASSAYS					RECOVERY		RECOV		
FROM	TO				SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	AVERAGE Pb Zn	SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	RUN		SHORT	RUN
0	5			Casing in overburden														6	0	30	
5	19			Schistose quartz porphyry Mottled gray, white and tan colors 5mm aggregates of fine quartz and sericite in a tan fine grained felsic groundmass. Foliation at 60°. Locally leached and vuggy. Sparse pyrite mineralization	3722	5	20											15.6	0	194	
					3	20	30											17	0	222	
					4	30	34	TR	.0045	.0675								26	.5	204	
					5	34	35	.05	.007	.055	.01	.03						31	0	210	
					6	35	41	.05	.010	.052								36	0		
					7	41	44.5	.05	.0022	.025	.01	.03						40	3.0	Total	
					8	44.5	50.0	.05	.001	.0415								45	0	Amount	
19	44			Sericite schist Medium grey color. Fine grained Strongly foliated at 60°-70° Fine grained pyrite mineralization both disseminated and in bands up to 5mm. Local lenses of medium grained euhedral pyrite. Local irregular barren quartz- calcite veinlets up to 2cm. 22'- Small fault with brown limonite alteration 20.5 to 23.0 25.5 - 10 cm white quartz and calcite vein. Minor pyrite mineralization Contacts at 60° 33-35 Mingled white quartz-calcite veins, massive pyrite veins and schist. Porous and vuggy. 36-40 Mismatch - 3' core ground. 41-42 - 3cm white qtz-pyrite vein at 50° then 20 cm of rusty vuggy fault zone 43.5-44 Mixture of quartz-calcite vein material and rusty vuggy fault zone. Much fine pyrite	3729	50	60												50	.5	194.5
					0	60	70											54	0	210	
					3731	70	80											59.5	.5		
					2	80	90	.05	.0025	.047	.01	.01						65	.5		
					3	90	100	TR										70	0		
					4	100	110	TR										76	.5		
					5	110	120	.05										81	0		
					6	120	130	.05	TR	TR	.01	.01						85.5	.5		
					7	130	140	.05										91.5	2		
					8	140	150	.07										95	1		
					9	150	160	.07										99	0		
					40	160	170	.12										103	0		
					1	170	180	.07	.0075	.0495	.01	.02						108.5	2		
					2	180	190	.07										114	.5		
					3	190	200	.07										119	0		
					3744	200	210	.05										124	0		
																		129	0		
																		134	0		
																		139.5	0		
																		145	.5		
																		154	0		
																		159	0		
																		164	1.0		

James R. ...

DIAMOND DRILL HOLE RECORD

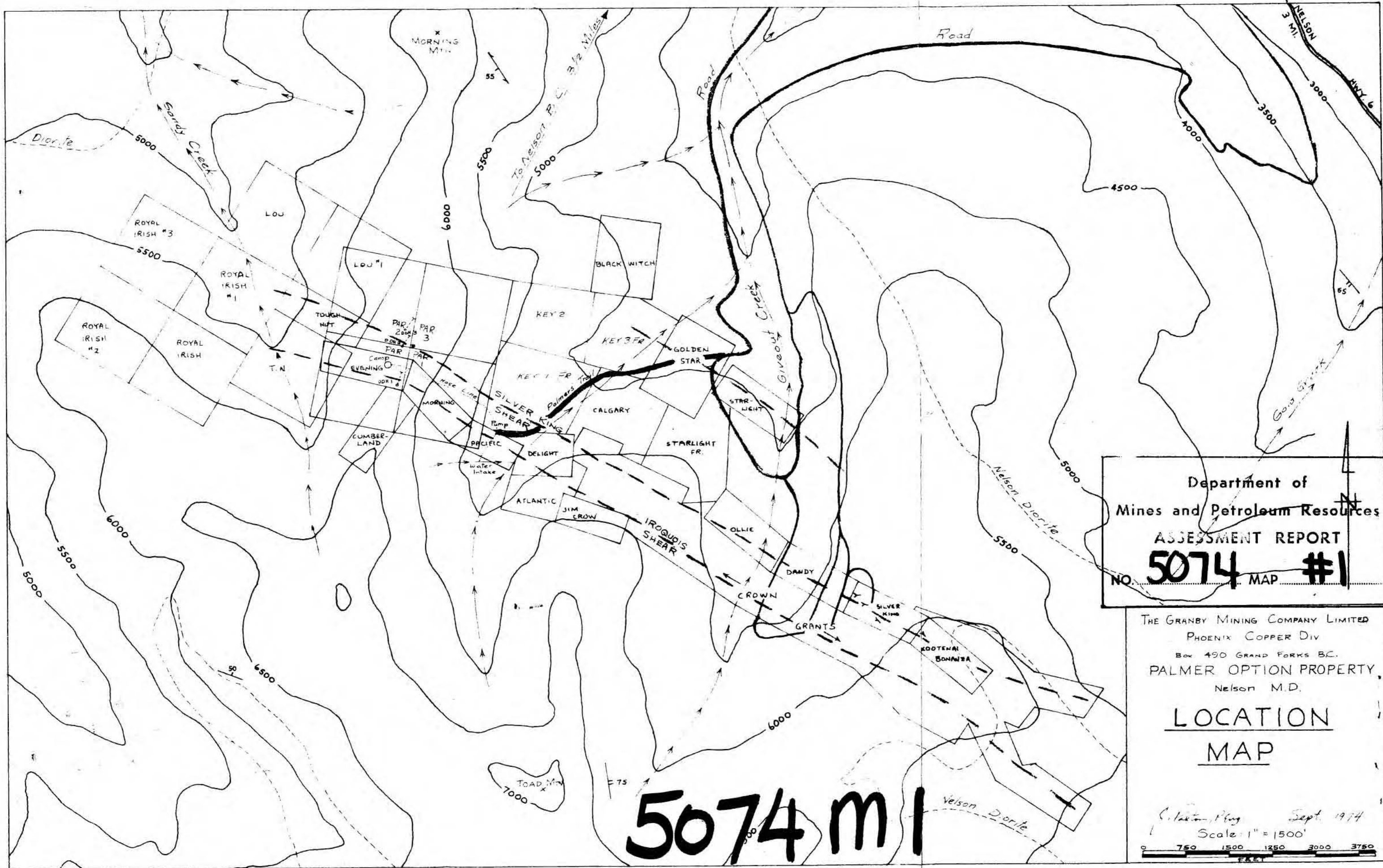
THE GRANBY MINING COMPANY LIMITED
PHOENIX COPPER DIVISION, GRAND FORKS, B.C.

PROPERTY PALMER OPTION

DIP TESTS			LEVEL		LAT.	HOLE No.
FOOTAGE	RECORDED ANGLE	CORRECTED	LOCATION	ELEVATION	DEP.	SHEET No.
all	50°		PAR N ^o 2	6000 Approx	Az 030°	1
				FINISHED Aug 26 1974	LENGTH 200'	LOGGED BY J. Paxton
						TOTAL RECOV. 95.2%

FOOTAGE		ROCK TYPE	MINERALIZATION	DESCRIPTION	CORE ASSAYS							SLUDGE ASSAYS					RECOVERY		RECOV	
FROM	TO				SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.	AVERAGE Pb	Zn	SAMPLE No.	FROM	TO	% CU.	OZ. AU.	OZ. AG.		RUN
0	5.5			Casing in overburden. Casing extended to 13'													6	0		
5.5	41			Dark Grey Sarcite Schist	3745	5	10										10	.5		
				Dark grey color. Fine grained, extremely schistose texture with scattered 3mm white augen and scattered mm grains of magnetite (1-2% of total rock) Also scattered fine disseminated pyrite (1-2% of total rock) Foliation at 50% with occasional small drag folds (S type)	6	10	20										12	.5		
				33-34 Massive grey quartzite	7	20	30										15 1/2	0		
				Contact gradational over 3 ft.	8	30	40	.07	.001	.011	.01	.02					16 1/2	.7		
					9	40	50										21	2.0		
					50	50	60	.10									27	1.5		
					3651	60	70	.07									29	0		
					2	70	80	.05									31 1/2	.5		
					3	80	90	.05									35	0		
					4	90	100	.10	.0365	.126	.01	.29					45	0		
					5	100	110	.07									50	0		
41	138			Grey Quartzite	6	110	120	.07									60 1/2	.5		
				Grey color. Aphanitic to fine grained granular texture. Also often has a fine breccia texture. Scattered (1-2% of total rock) 1-2mm blebs of magnetite and pyrite. The pyrite is very fine grained and yellowish and may be a mixture of pyrite and chalcoppyrite. Chalcoppyrite definitely identified associated with some of the magnetite grains.	7	120	130	.10										70 1/4	0	
				64-66 Brecciated	8	130	140	.07	.0195	.106	.01	.19					81	0		
				91-Fault at 60°. Limestone and brown stained wall rock for 20 cm	9	140	150										86	.5		
				98-Fault at 30°. Limestone and brown stained wall rock for 30cm	60	150	160										16 1/2	0		
				Minor chalcoppyrite noted	1	160	170	.07	.018	.1195	.01	.45					106	0		
				131-137 Pale grey chert with numerous pyrite filled fractures.	2	170	180										116	0		
					3	180	191										125	.5		
					4	191	195	.07	.005	.0985	.01	.04					130	0		
					3665	195	200										140	0		
																	150	0		
																	160	0		
																	16 1/2	0		
																	173	1.0		
																	182	1.0		
																	192 1/2	.5		
																	200	0		
																			9.7	

James Paxton



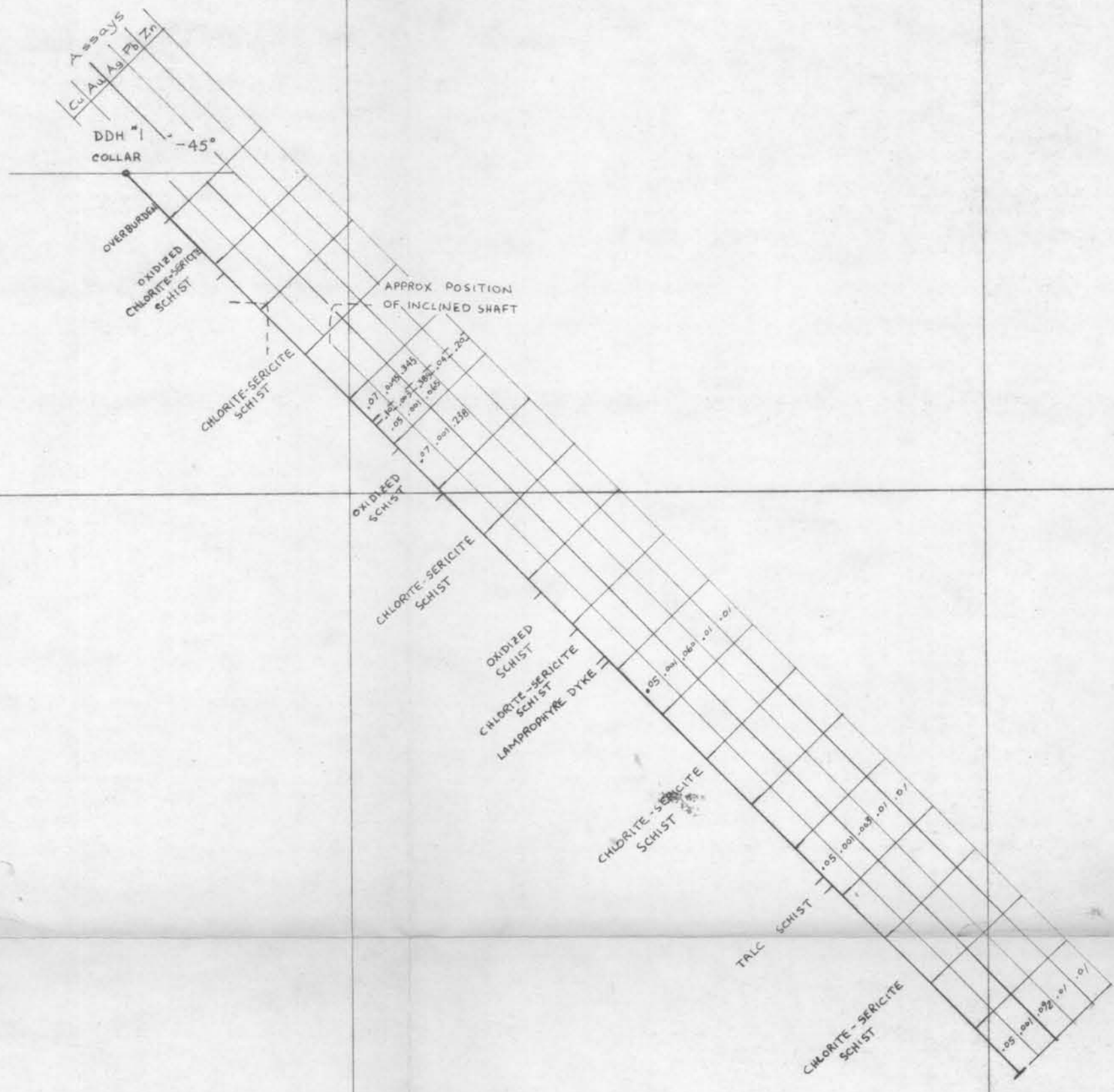
Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. **5074** MAP **#1**

THE GRANBY MINING COMPANY LIMITED
 PHOENIX COPPER DIV.
 Box 490 GRAND FORKS BC.
 PALMER OPTION PROPERTY,
 Nelson M.D.

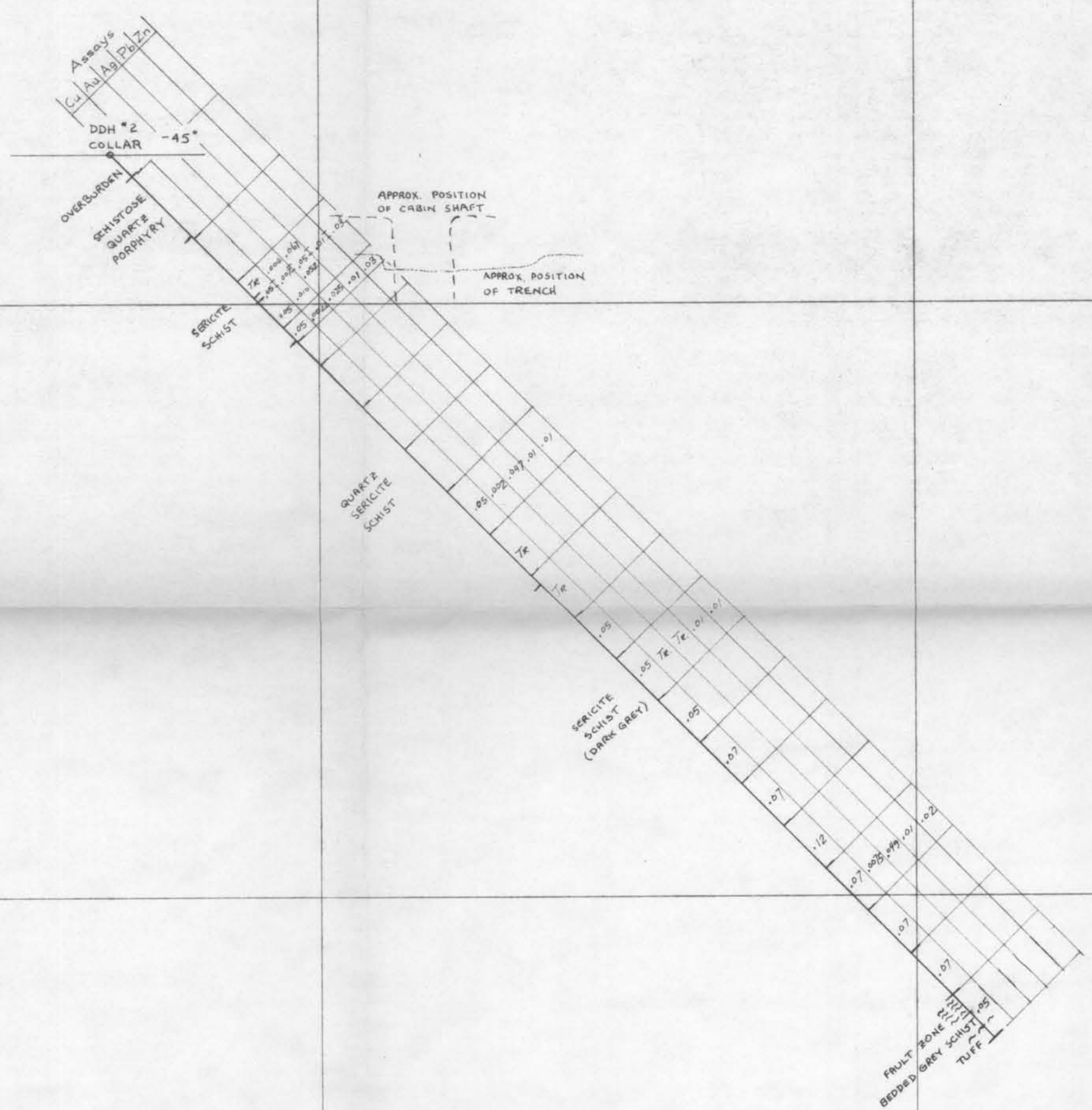
**LOCATION
 MAP**

Collection, Plan Sept. 1974
 Scale 1" = 1500'
 0 750 1500 2250 3000 3750
 F&E

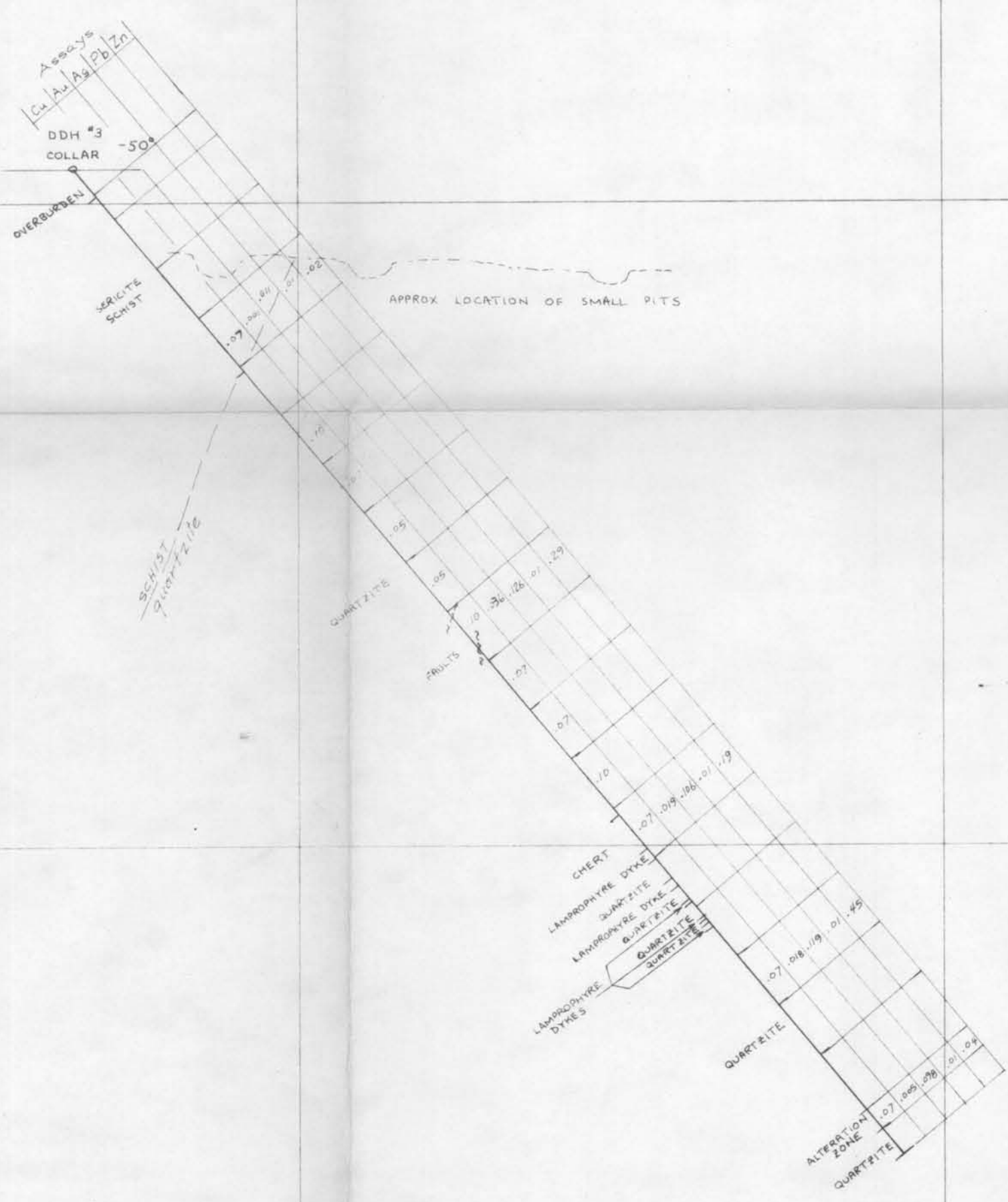
5074 ml



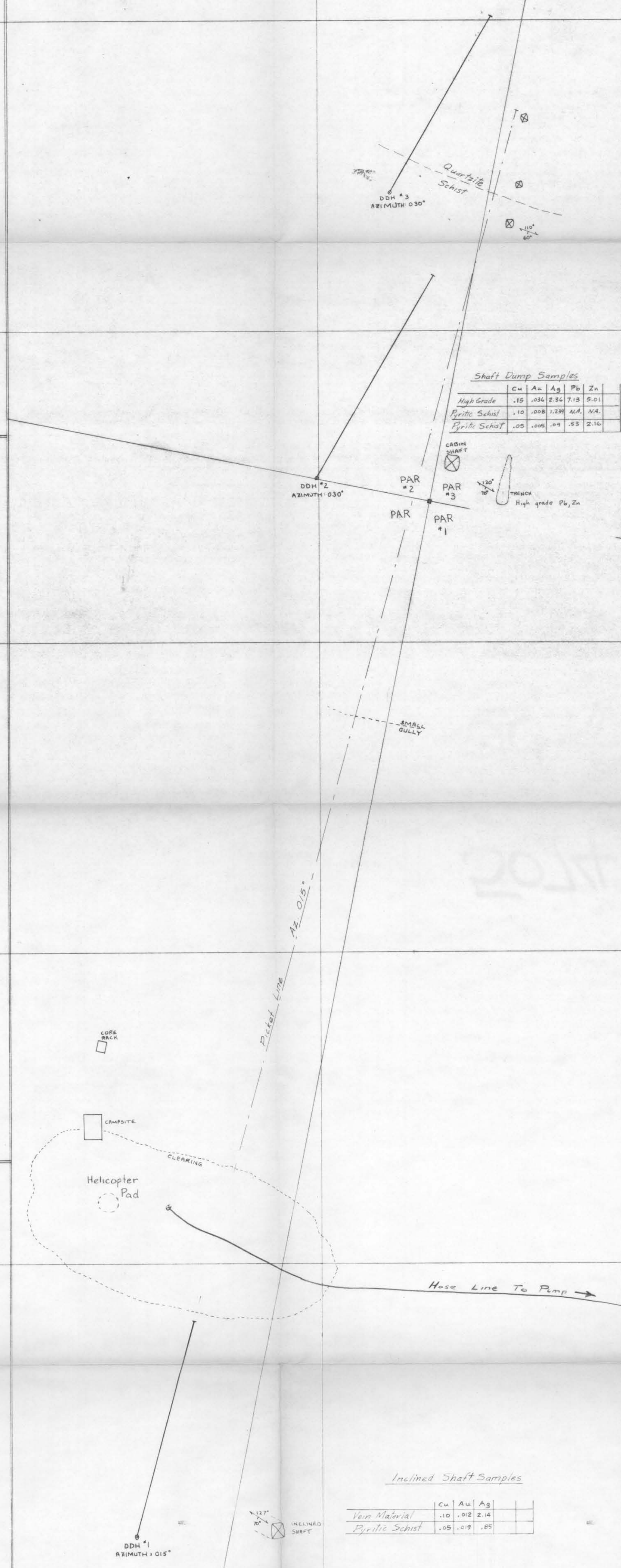
DIAMOND DRILL HOLE NO. 1
 VERTICAL SECTION
 SCALE: 1 INCH = 20 FEET



DIAMOND DRILL HOLE NO. 2
 VERTICAL SECTION
 SCALE: 1 INCH = 20 FEET



DIAMOND DRILL HOLE NO. 3
 VERTICAL SECTION
 SCALE: 1 INCH = 20 FEET



Shaft Dump Samples

	Cu	Ag	Pb	Zn
High Grade	.15	.036	2.36	7.13
Pyritic Schist	.10	.028	1.23	4.4
Pyritic Schist	.05	.008	.44	2.16

TRENCH High grade Pb, Zn

Inclined Shaft Samples

	Cu	Au	Ag
Vein Material	.10	.02	2.14
Pyritic Schist	.05	.01	.85

Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 5074 MAP #2

PALMER PROPERTY
 NELSON B.C.
 DIAMOND DRILL HOLE LAYOUT
 SCALE: 1 INCH = 40 FEET
 AUGUST 1974
 J.R. Laker

5074 M2