

Thales Exploration Company

Summary Report, Exploration Activities 1972
Lyn Claim Group
Whitehorse Mining District
Yukon Territory

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March 1973

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P. F. Lewis

THALES EXPLORATION COMPANY

SUMMARY REPORT

on the

EXPLORATION ACTIVITIES in 1972

on the

LYN CLAIM GROUP

WHITEHORSE MINING DIVISION

YUKON TERRITORY

P. F. Lewis

March 1973

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INTRODUCTION

This report summarizes the 1972 exploration activities of Thales Exploration Company on the Lyn Claim Group under a joint venture agreement with Kerr Addison Mines Ltd. The activities comprised:

1. Geological mapping on a scale of 1 inch to 400 feet.
2. Two thousand, one hundred and seventy-six (2,176) feet of diamond drilling spread over three holes, sited on previously defined gravity and geochemical anomalies.
3. Staking of eight additional claims and filing of assessment work on the claim block.

LOCATION AND ACCESS

The claim group is located about 8 miles south of Faro in the Whitehorse Mining District, Yukon Territory (see map overleaf) at latitude 62°07' North and longitude 133°15' West.

(N.T.S. 105K - Tay River sheet. Claim sheet 105K-3.)

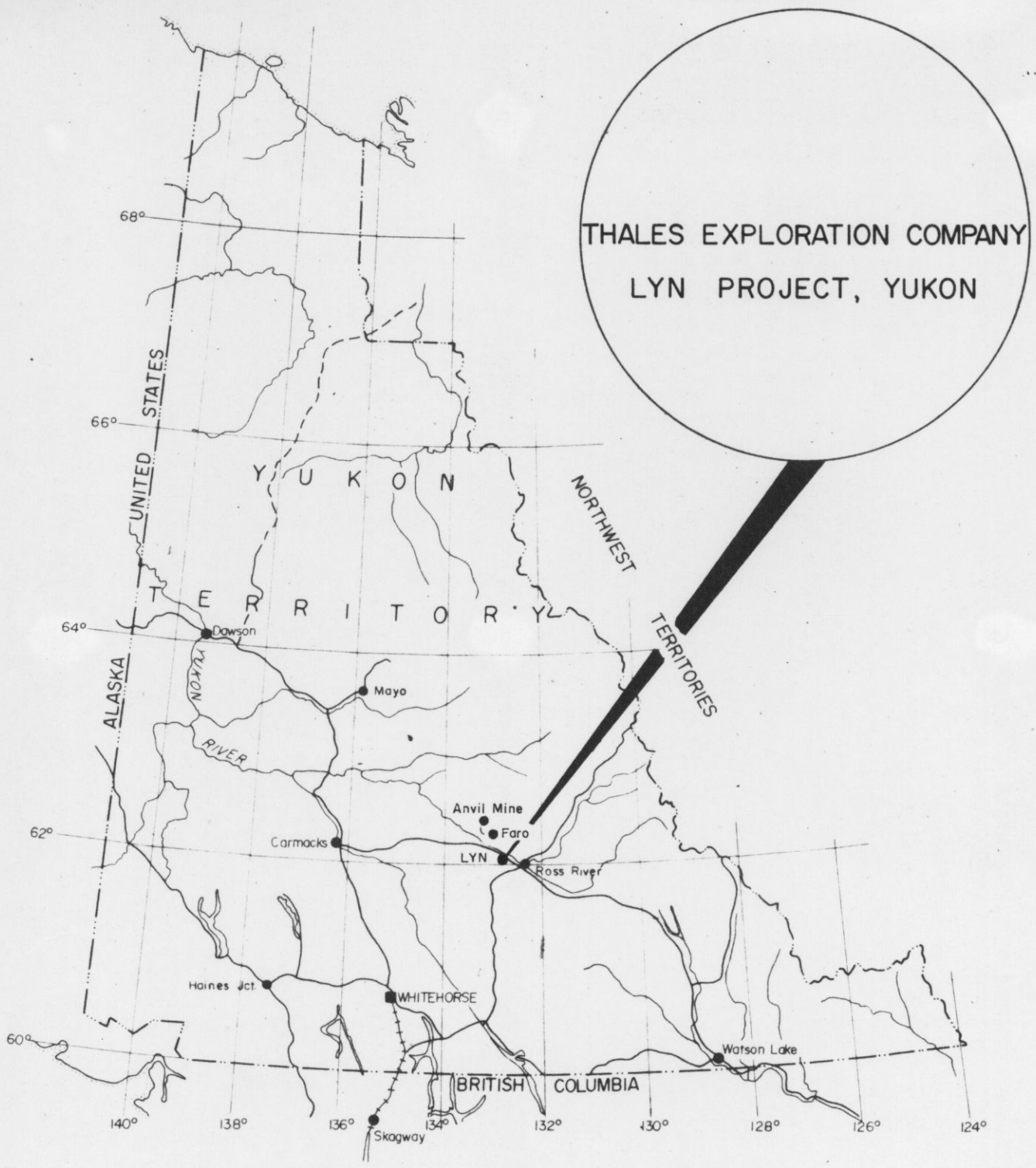
The claim group is connected to the Robert Campbell Highway by 6 miles of road suitable for tracked vehicle in summer, or four wheel drive vehicle in winter. This road leaves the Highway approximately 4 miles east of the Faro junction.

PHYSIOGRAPHY AND VEGETATION

The property is situated on the south wall of the Tintina Trench, with relief of about 1,500 feet from the floor of the valley at 3,000 feet above sea level. The scarp slope is stepped due to the suboutcrop of alternately hard and soft horizons which allows for convenient access up the scarp. The crest and dip slope are heathery with light tree cover whereas the scarp slope is densely vegetated with conifers and larch. The base of the slope is swampy.

CLAIMS

The group as taken over from Kerr Addison Mines Ltd. consisted of 48 full sized mineral claims, a number of surrounding claims having been abandoned. Thales Exploration Company restaked 8 of the abandoned claims, and late assessment was filed on a further 15 claims. A total of 110 years assessment was subsequently filed on the total 71 claims bringing all to a common date of 1st March 1977, as follows:



PROPERTY LOCATION MAP

YUKON
SCALE 1" = 100 MILES

Fig. 1

<u>Claim Name</u>	<u>Grant No.</u>	<u>Expiry Date</u>
LYN 6	Y38790	March 1st, 1977
8	Y38792	"
10	Y38794	"
12	Y38796	"
14-16	Y38798-800	"
21-32	Y36758-69	"
81-82	Y37203-204	"
89-106	Y36818-835	"
119-120	Y37298-299	"
121-134	Y38577-590	"
136	Y61046	"
138-152	Y61048-61062	"

PREVIOUS WORK

The claim group was staked by Kerr Addison Mines Ltd. in 1969 following discovery of lead and zinc soil geochemical anomalies. The group was subsequently covered by a detailed soil survey and the main anomalous area, between Goodwin and Morley Creeks, was covered by a gravity survey. Selected gravity lines were surveyed by C. E. M. and S. P. methods.

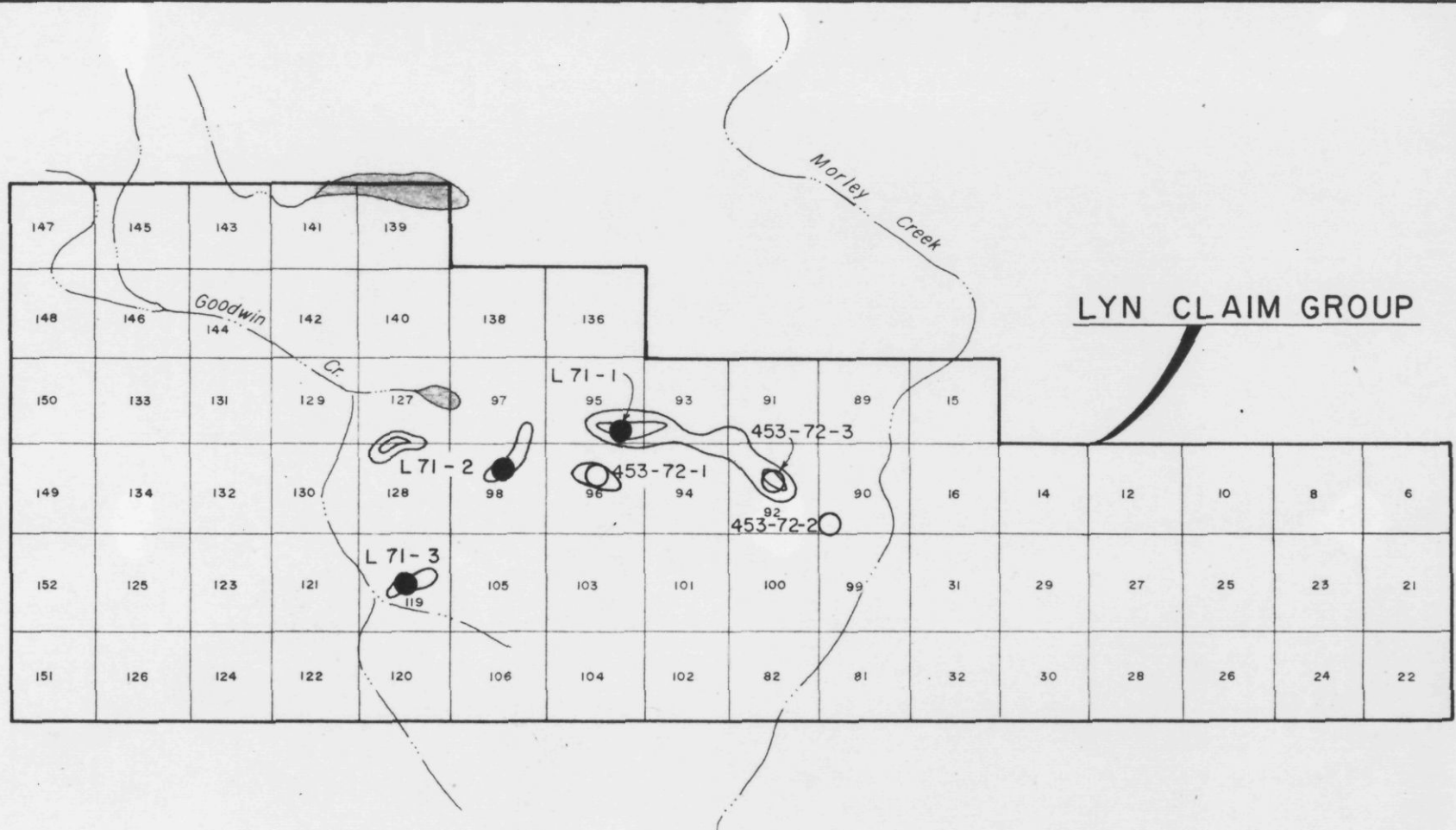
In 1971 three diamond drill holes totalling thirteen hundred and twenty-six (1,326) feet were put down on gravity anomalies. The second hole intersected 18 inches of concordant mineralization (0.34% Pb, 0.97% Zn) at 387 feet.

SURFACE GEOLOGY

The rock units recognised in surface mapping are described in Table I. Outcrop is sparse, especially higher in the section and some units are confined to only a few outcrops. No thin section work has been done and hence the inference that some slaty phyllitic rocks may be mylonites is tentative. There is definitely a very startling decrease in metamorphic grade away from the Tintina Trench and no apparent stratigraphic or structural break that could explain such a decrease.


Structural data gathered does not allow any statistical breakdown of deformation sequence. However structural subdivisions can be made as follows:

Zone I - from the Tintina Trench to the crest of the scarp. Characterized by ductile folding of gneissic banding with superimposed brittle folds.



LYN CLAIM GROUP

KEY:

-  Residual Gravity Anomaly
- L 71-2 ● Diamond Drillhole 1971
- 453-72-1 ○ Diamond Drillhole 1972

<p>THALES EXPLORATION COMPANY</p> <p>LYN CLAIMS</p> <p>YUKON TERRITORY</p> <p>Scale : 1 inch = 0.5 mile</p>
<p>Fig. 2</p>
<p>Oct. 15, 1972</p>

Zone II - from the crest of the scarp for about a mile to the south-west. Characterized by transposition-type folding of metamorphic? banding, with the dominant foliation axial planar to the folds.

Zone III - south-west of Zone II. Characterized by flexural slip folding of an early fabric, with a crenulation foliation axial planar to the folds. The early foliation is apparently parallel to the compositional banding (bedding?).

The inference is that the early foliation in Zone III is equivalent to the gneissic/mylonitic banding in Zones I and II, and that this fabric was folded while the extreme metamorphic gradient still existed. The metamorphic gradient was probably due to dislocation metamorphism related to movement on the Tintina Fault Zone, with folding probably accompanying a late stage of such movement.

TABLE I

Rock Units recognised in order of structural superposition

- Highest: Unit H - Pale grey metasediments, doubly foliated and pencilled - probably originally calcareous, argillaceous siltstones or sandstones.
- Unit G - Grey-brown limy slates with thin marble interbands. These bands show a transposition-type folding with an axial planar foliation.
- Unit F - Blocky, dark grey, quartzose, phyllite to slate grade rocks. Possibly mylonites.
- Unit E - Banded granulite? The rock is variably very hard to very soft with rapid variations. Where very hard it has a fine continuous gneissic banding such as is seen in banded granulites (high metamorphic grade mylonite). This banding is locally folded into tight to isoclinal ductile ("flow") folds, with no accompanying axial planar foliation.
- Unit D - Calc-silicate gneiss with minor marble interbands. Banded and folded as Unit E.
- Unit C - Graphite-quartz schist and phyllite, interbanded with Unit D.
- Unit B - Impure marble, and interbanded marble/calc-silicate gneiss.
- Unit A - a. Purplish limy biotite schist; b. biotite-muscovite-quartz schist; c. biotite-actinolite schist.
- Lowest: Unit J - Foliated granite-granodiorite to biotite-quartzofeldspathic orthogneiss.
- Unit K - Quartzose pegmatite (\pm tourmaline) dykes and stringers.

Early fold axes are probably parallel to the regional strike, resulting in duplication of the sequence, while late fold axes may be dominantly of east-west trend, with possibly two further fold sets trending north-south and at 050°. Duplication is indicated by the numerous marble horizons (B) outcropping at regular intervals across strike. Hence it is inferred that the other mapped limy units - Units A, D, G & H are equivalent, and the observed differences between units are due to the different types and facies of metamorphism imposed on limy argillaceous siltstones.

The rocks of the area are part of the Harvey Group (Cambrian-Ordovician?) as defined by Campbell (1967) in the Glenlyon map-area to the west. He also notes an abrupt metamorphic gradient (p. 35), and the superposition of late brittle folds on early isoclinal folds (p. 33).

Mineralization within the claim group is found in the calc-silicate gneisses and marbles of the scarp slope in the vicinity of Morley and Goodwin Creeks. It is localized in or near marble horizons and consists of apparently concordant galena-sphalerite bearing schlieren associated with strong manganese stain and pyrite. Lead to zinc ratios, in assayed samples of up to 10% combined metals, are very variable.

DRILLING

Drill logs for the three holes drilled in 1972 are enclosed, and are summarized as follows:

Hole No: 453-72-1.

Located: 41N, 134W on gravity grid. Claim No: LYN 96.

Depth and Orientation: 691 feet, -90°.

Dates: 13th to 17th October 1972.

Target: Coincident residual gravity (>1.0 milligal), soil lead (>300 p. p. m.) and soil zinc (>500 p. p. m.) anomalies.

Results: One ten foot section, 150-160 feet, ran 5.77% Pb, 3.02% Zn, 0.54 oz. /ton Ag. The mineralization forms part of a breccia matrix along with calcite, barite? and siderite. Breccia fragments are not mineralized. Most mineralization occurs in a short section from 154 to 157 feet. From 154 to 155 feet the mineralization is almost exclusively sphalerite with negligible galena, whereas from 156 to 157 feet galena is present with very little sphalerite.

Similar mineralization occurs in carbonate and barite? veins throughout the upper 400 feet of the hole with sphalerite generally more abundant than galena. The sphalerite is a resin-brown, iron-poor variety.

Although the mineralization is of vein type and is post-folding, it is apparently confined to the gneisses above the major marble horizon intersected in the hole. Hence mineralization may be stratabound to some degree.

Hole No: 453-72-2.

Located: S-184 on geochemical grid. (Approximately 40N, 101W on gravity grid when located from 106W.) Claim No: LYN 90.

Depth and Orientation: 797 feet, -90°.

Dates: 19th to 24th October 1972.

Target: Coincident soil lead (>300 p.p.m.) and soil zinc (>500 p.p.m) anomalies. Down dip from 0.8 milligal gravity anomaly.

Results: No significant mineralization was noted in this hole. As inferred from surface mapping the structure of the core is complex, with great variation in attitude of gneissic banding and many duplications of units. Of interest is the intersection of an apparently hydrothermally altered or metasomatized schist similar to the bleached schists around the Anvil Range deposits. This rock is now predominantly white mica and talc, with clots of chlorite after garnet.

Hole No. 453-72-3.

Located: 49N, 111W on the gravity grid. Claim No: LYN 92.

Depth and Orientation: 688.6 feet, -90°.

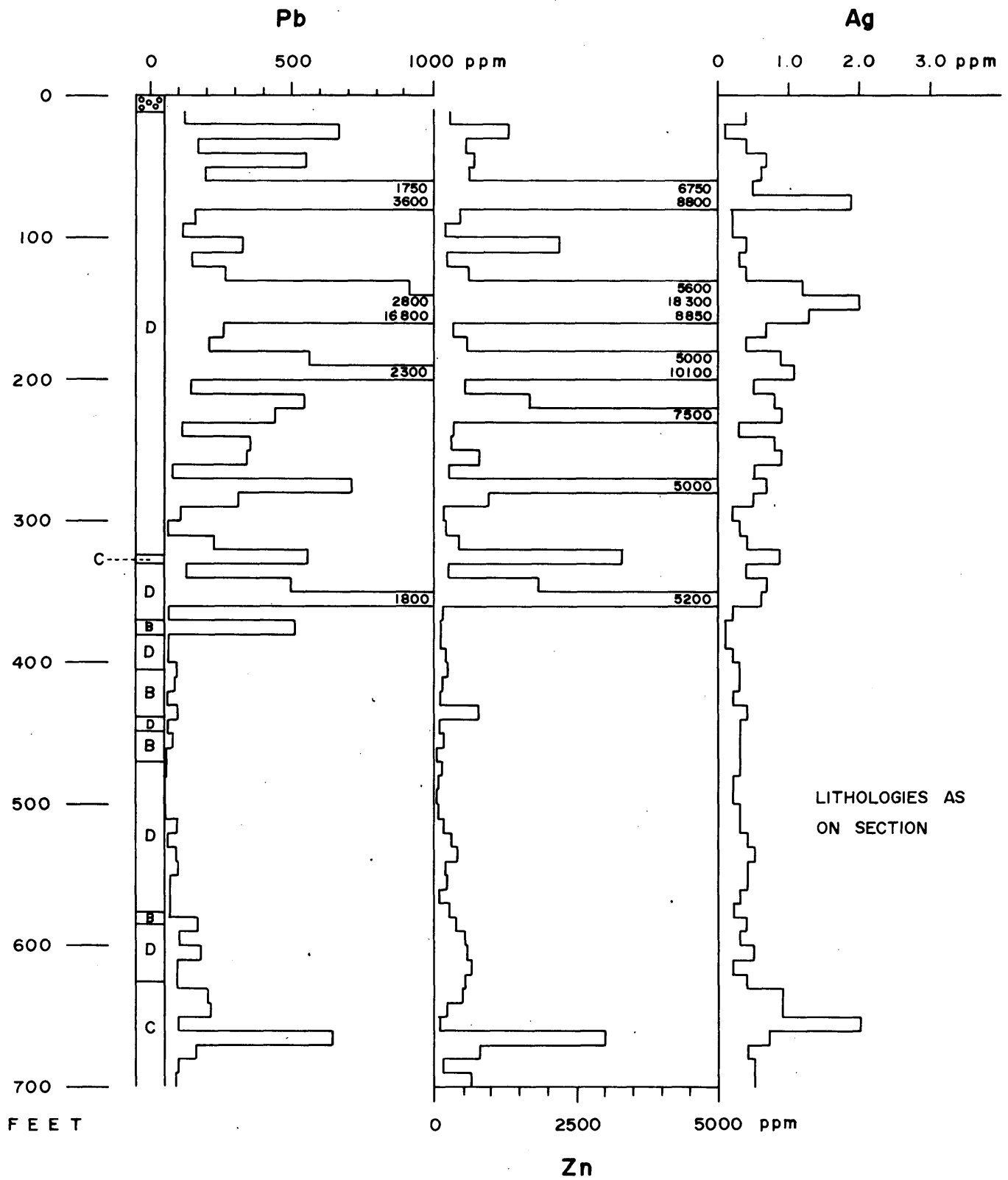
Dates: 26th to 31st October 1972.

Target: Residual gravity anomaly (>1.0 milligals) down slope from soil lead (>300 p.p.m.) and zinc (>500 p.p.m.) anomalies.

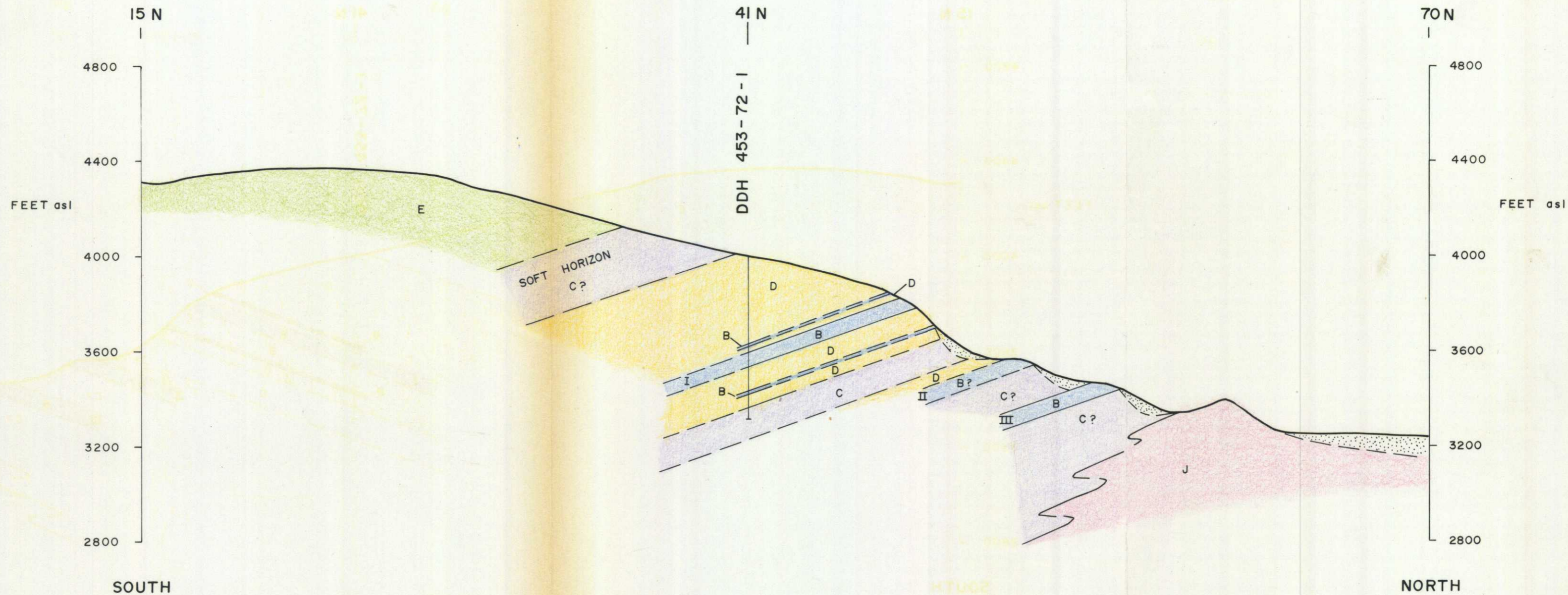
Results: The best intersection in this hole was from 360 to 370 feet, of 0.65% Pb, 0.08% Zn, 0.15 oz./ton Ag. Mineralization consisted of fine grained aggregates of galena in siderite. High siderite content characterizes this hole.

Graphic logs, and sections are shown on the following pages and assay values are presented in the drill logs enclosed.

DDH 453 - 72 - 1



GRAPHIC AND GEOCHEMICAL LOG



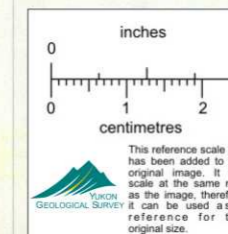
LINE 134 W. AZIMUTH 030°, LOOKING WEST

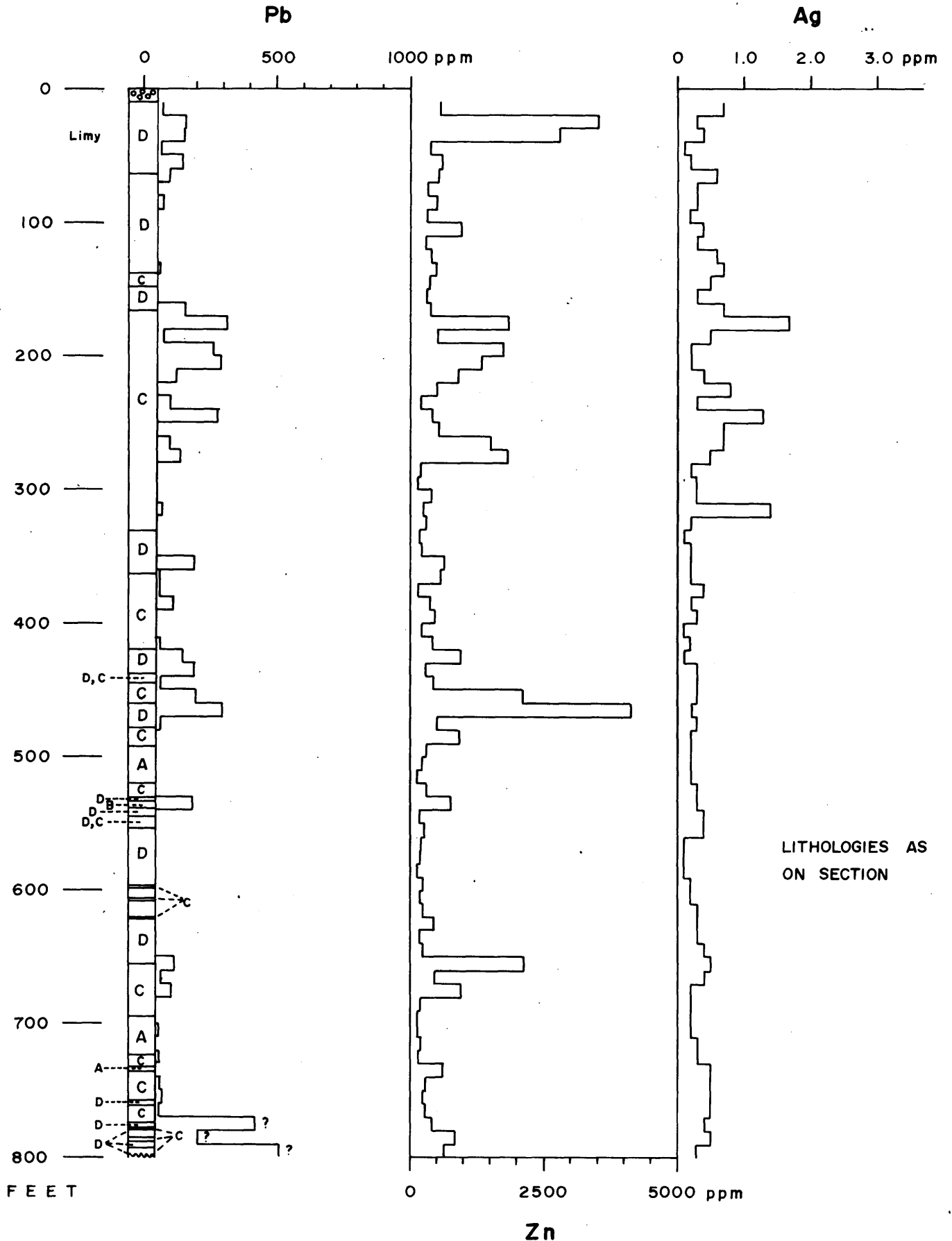
- KEY:
- J — ORTHOGNEISS
 - E — QUARTZOSE BANDED GRANULITE
 - D — CALCSILICATE GNEISS, INCLUDING BIOTITE - CALCITE SCHIST
 - C — GRAPHITIC GNEISS, SCHIST AND PHYLLITE
 - B — IMPURE MARBLE, HORIZONS I, II, III, IV
 - A — ALTERED SCHIST (SEE DRILL LOG)

SECTION 134 W
DDH-453-72-1

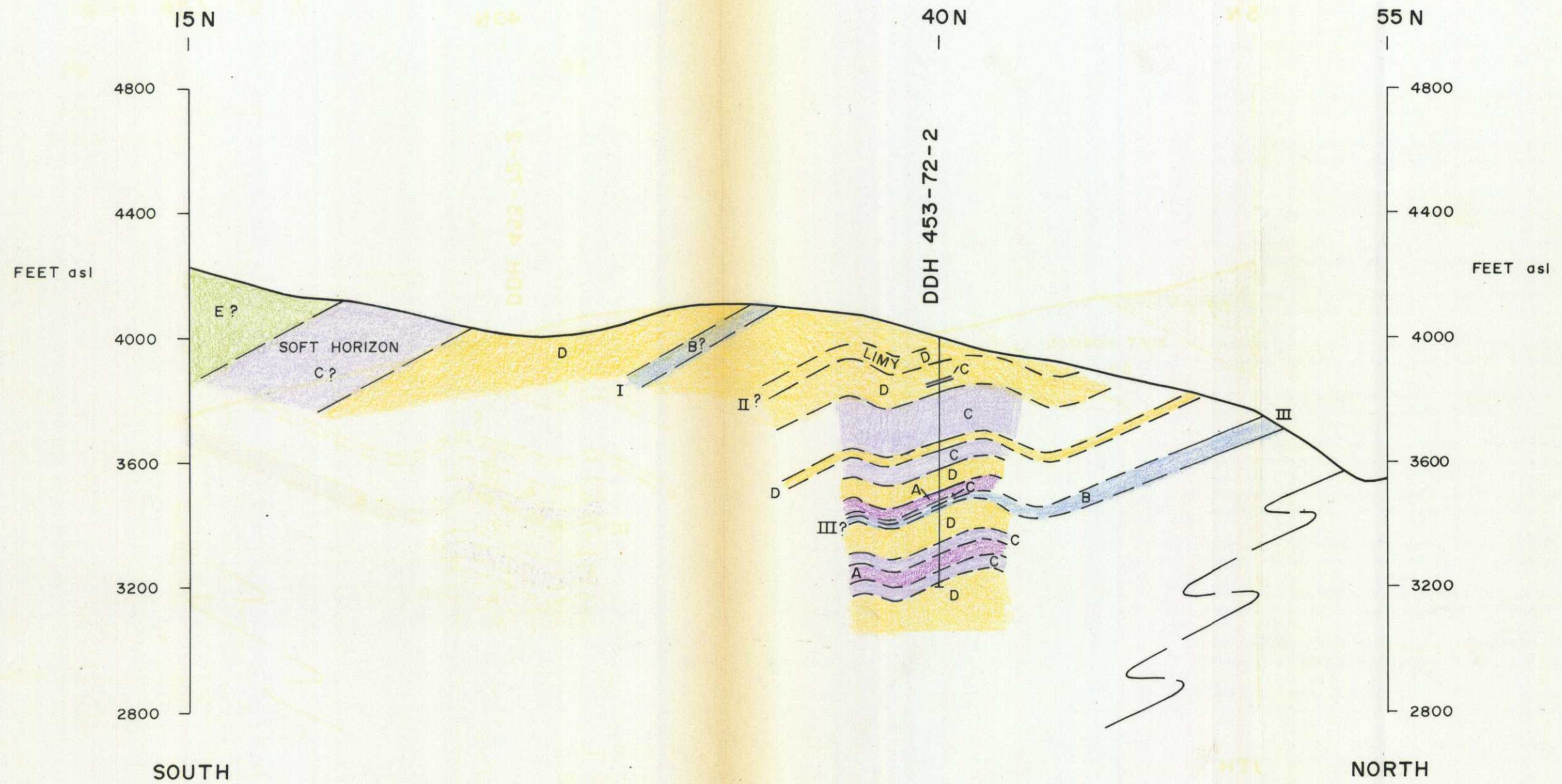
1 INCH = 400 FEET
HORIZ. and VERT.

P.F.L. March 1973





GRAPHIC AND GEOCHEMICAL LOG



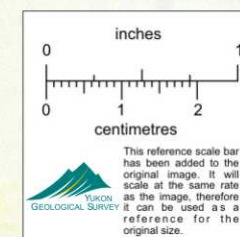
LINE 101W
(Approximate) AZIMUTH 030°, LOOKING WEST

- KEY:
- J — ORTHOGNEISS
 - E — QUARTZOSE BANDED GRANULITE
 - D — CALCSILICATE GNEISS, INCLUDING BIOTITE - CALCITE SCHIST
 - C — GRAPHITIC GNEISS, SCHIST AND PHYLLITE
 - B — IMPURE MARBLE, HORIZONS I, II, III, IV
 - A — ALTERED SCHIST (SEE DRILL LOG)

SECTION 101W
(APPROXIMATE)
DDH-453-72-2

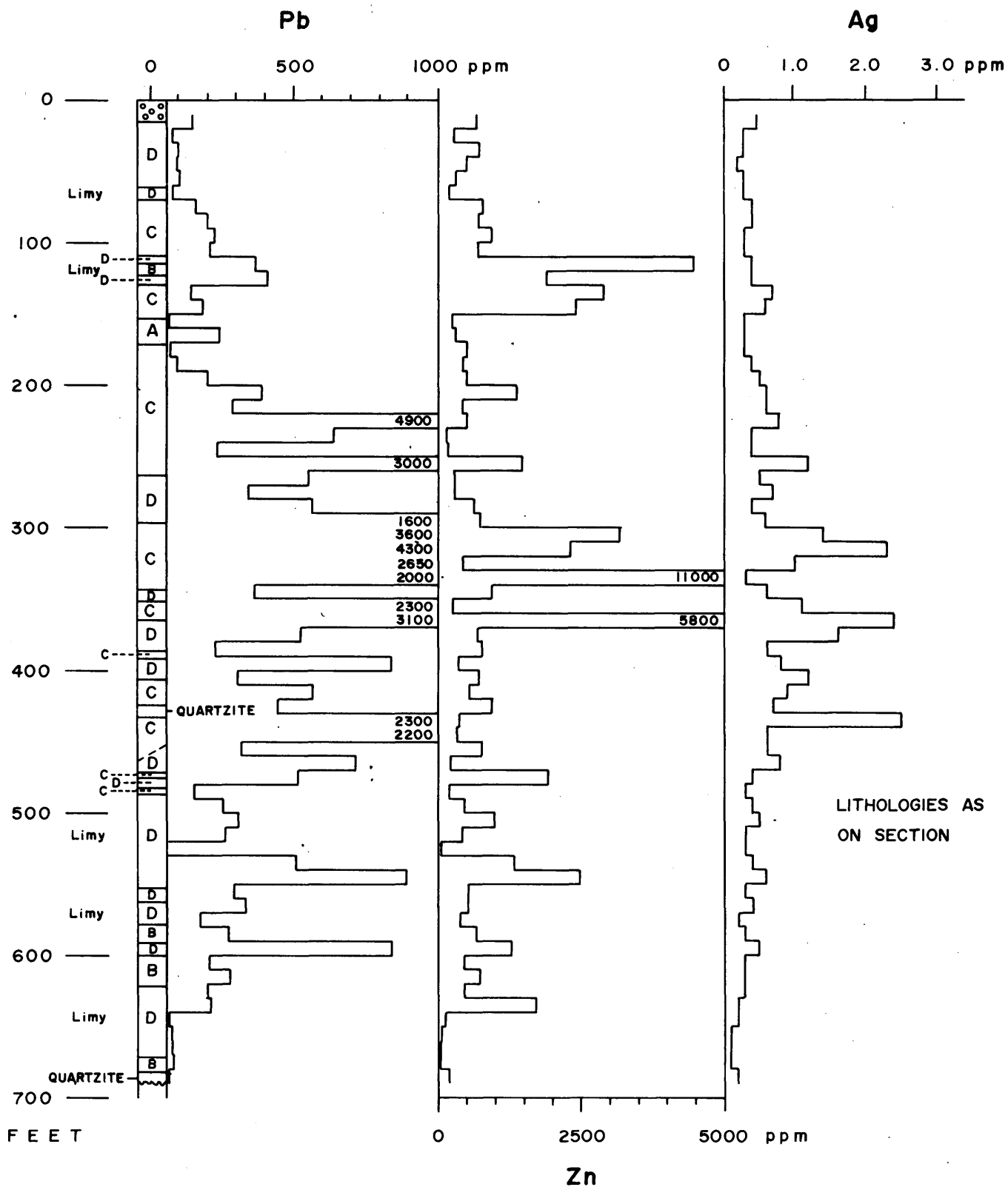
1 INCH = 400 FEET
HORIZ. and VERT.

P.F.L. March 1973

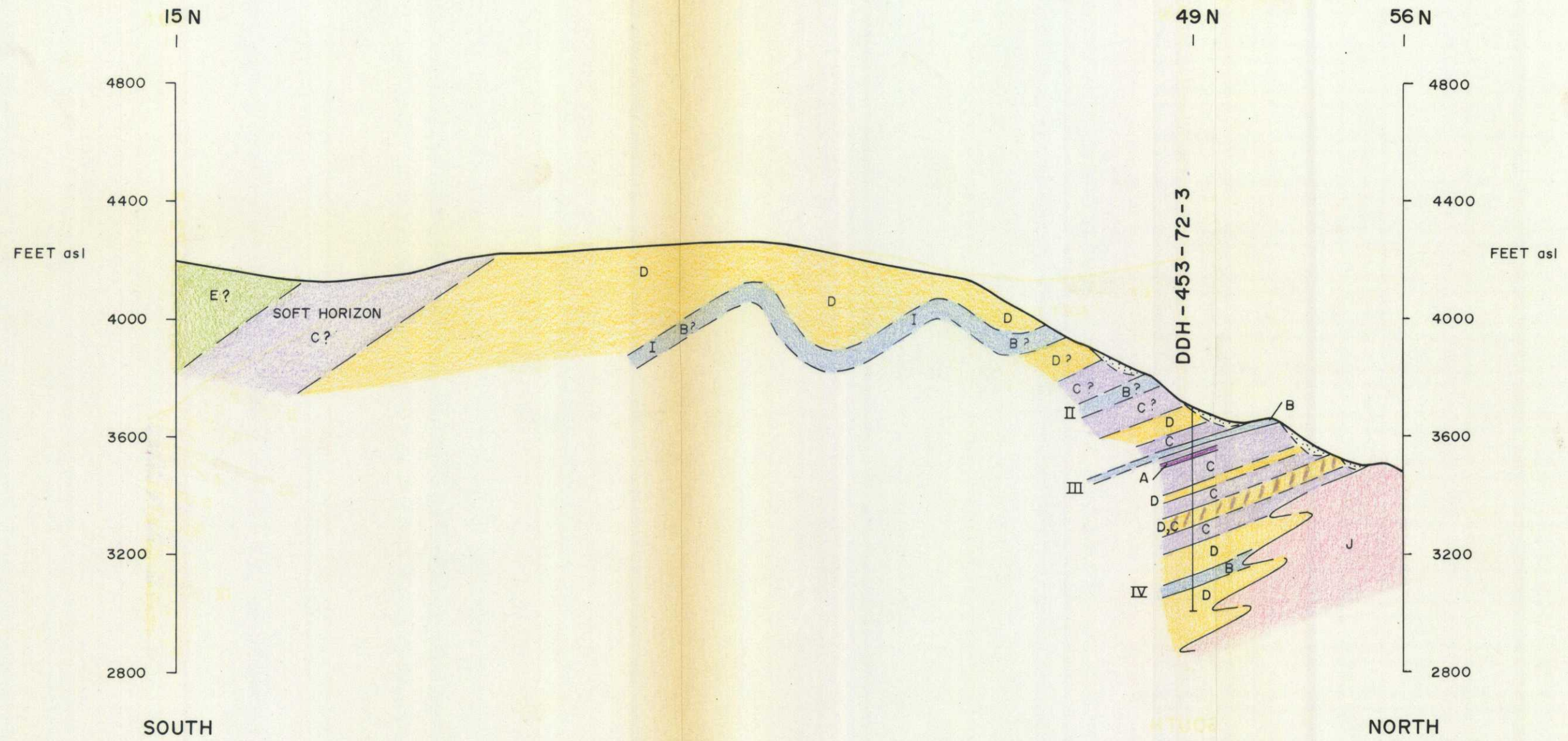


GRAPHIC AND GEOCHEMICAL LOG

DDH 453-72-3



GRAPHIC AND GEOCHEMICAL LOG



SOUTH

NORTH

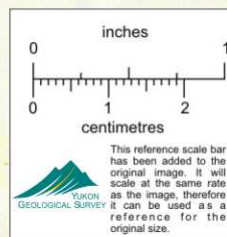
LINE III W AZIMUTH 030°, LOOKING WEST

- KEY:
- J — ORTHOGNEISS
 - E — QUARTZOSE BANDED GRANULITE
 - D — CALCSILICATE GNEISS, INCLUDING BIOTITE - CALCITE SCHIST
 - C — GRAPHITIC GNEISS, SCHIST AND PHYLLITE
 - B — IMPURE MARBLE, HORIZONS I, II, III, IV
 - A — ALTERED SCHIST (SEE DRILL LOG)

SECTION III W
DDH-453-72-3

1 INCH = 400 FEET
HORIZ. and VERT.

P.F.L. March 1973



CONCLUSIONS AND RECOMMENDATIONS

It is concluded that:

- (1) Pb-Zn mineralization on the Lyn claims is of two types:
 - a) Stratiform, concordant to early gneissic banding.
 - b) Late hydrothermal veins and breccia fillings.
- (2) Stratiform occurrences, coupled with intersections of bleached schist in drill holes, indicate the possibility of an Anvil Range type deposit (e.g. Faro) being present.
- (3) Breccia fillings intersected in drill hole 453-72-1 indicate the possibility of a limestone breccia type deposit (e.g. Robb Lake) being present.
- (4) Gravity anomalies thus far outlined are apparently due to bedrock ridges of hard, dense horizons.
- (5) Geochemical anomalies apparently reflect the surface outcrop of late vein mineralization which may be spatially unrelated to the possible deposit types.
- (6) Use of electromagnetic, self-potential, induced polarization and other electrical methods will be hampered by the presence of variably graphitic horizons.
- (7) A ground magnetometer survey may be of some use in locating a deposit of stratiform type, which, due to high metamorphic grade, may have a high pyrrhotite-pyrite ratio.
- (8) Systematic drilling down-dip from known stratiform occurrences would be necessary should a magnetometer survey prove unhelpful in locating a stratiform occurrence.
- (9) Breccia-type deposits might be located by detailed fracture analysis on the ground coupled with air-photo interpretation.

Respectfully submitted,

P. F. Lewis

REFERENCES

1967. CAMPBELL, R. B. Geology of the Glenlyon Map-Area, Yukon Territory (105L). Geol. Surv. Can. Memoir 352.

Diamond Drill Record

COLLAR: NORTH <u>49N</u>		HOLE SURVEY		
: EAST <u>111W</u>		FOOTAGE	AZIMUTH	DIP
ELEVATION <u>3800 ft asl</u>		<u>688.6</u>		<u>90°</u>
LOGGED BY <u>P.F. Lewis</u>				
DATE LOGGED <u>Nov 1972</u>				
MAP REFERENCE NO. <u>105-K-3</u>		METHOD		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR E. Caron Diamond Drilling
 ASSAYER Bondar-Clegg & Co. Ltd.
 PURPOSE OF HOLE Gravity Anomaly

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED <u>Day Shift Oct 26</u>
FINISHED <u>Day Shift Oct 31</u>
PROJECT NO. <u>453</u>

Box 1
16-41
Box 2
41-63

Box 3
63-86

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS oz/ton			Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	From	To	Dip	
			Recovery 90-100% except where otherwise stated.									16	22	X
			Dip symbol "Z" refers to minor assymetric fold in foliation, generally with sub-horizontal axial plane.									22	24	40-50
			"X" refers to contorted, brecciated or otherwise unrecognizable foliation.									24	26	Z
												26	30	40-50
												30	34	Z
												34	50	40-50
	0	16	Overburden, casing to 25 ft., left in hole									50	60	50-60
												60	64	Z
	16	54	Calcsilicate Gneiss, Fine grained, banded variety (as in Holes 1 & 2)									64	66	50-60
												66	68	Z
		30%	16-22									68	72	50-60
		60%	24-27									72	76	80-90
		60%	36-42									76	78	X
	54	62	Calcsilicate Gneiss, Fine banded, biotite-rich variety (as in Holes 1 & 2), red-brown, fine-medium grained									78	80	80-90
												80	82	40-50
	62	64	Calcsilicate Gneiss, Coarser grained, limy banded variety (as in Holes 1 & 2)									82	86	X
												86	112	40-50
	64	67	" " as 16-54									112	114	Z
			66 1/20" mineralized (Zn) vein dipping at 50°									114	116	40-50
	67	69	" " as 62-64, disrupted banding									116	120	20-30
	69	70	" " as 16-54									120	126	40-50

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 4
86-108.6

Box 5
108.6-131

Box 6
131-159

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			Dip of Foliation		
				FROM	TO	WIDTH	NO.	% Pb	% Zn	oz/ton Ag	From	To	Dip
70	110		Graphitic Gneiss (as in Holes 1 & 2). Some sericitic and schistose as in Hole 2, 669-694 and 724-732. Rootless folds in graphitic seams.								126	132	Z
			81-84 disrupted banding	90	95	5	821	0.02	0.08	Tr	144	148	0-10
			84.6, 99.6, 105.6, 107 mineralized (Zn) veins	95	100	5	822	0.02	0.06	Tr	148	150	40-50
110	114		<u>Calcsilicate Gneiss - Coarse limy banded variety</u>	100	105	5	823	0.02	0.04	Tr	150	152	50-60
114	115		" " - <u>Fine grained banded variety</u>	105	110	5	824	0.02	0.07	Tr	152	156	40-50
			114, 115 1/20" mineralized (Zn) veins dipping at 50°								156	158	30-40
115	116		" " as 110-114								158	160	40-50
116	123		" " <u>Coarse gneissose marble (as in Holes 1 & 2)</u>								160	162	10-20
123	131		" " as 110-114								162	172	40-50
131	154		<u>Graphitic Gneiss</u>								172	174	30-40
			131-149 limy								174	176	X
			131-132 quartz								176	178	40-50
			132-132.6 mineralized (Zn) breccia	130	135	5	825	0.02	0.09	Tr	178	180	X
		50%	137-143								180	182	40-50
			145 1/2" graphitic gouge seam dipping 30°								182	184	30-40
		50%	146-156								184	186	80-90
			149-154 very graphitic								186	188	10-20
											188	190	30-40
154	157		<u>Altered Schist (as in Holes 1 & 2)</u>								190	192	20-30

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME _____
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 7
159-
182.9

Box 8
182.9-
205

Box 9
205-231

Box 10
231-
252.6

Box 11
252.6-
274

Box 12
274-297

Box 13
297-300

Box 14
320-
341.6

Box 15
341.6-
363

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS oz/ton				Dip of Foliation		
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	S. G.	From	To	Dip
157	159		<u>Calcsilicate Gneiss</u> <u>Coarse limy banded variety, graphitic</u>									192	198	Z
159	160		<u>Altered Schist</u>									198	200	0-10
160	163		<u>Graphitic Gneiss</u>									200	202	30-40
163	171		<u>Altered Schist</u>									202	208	50-60
171	263		<u>Graphitic Gneiss</u>									208	210	30-40
			190-196, 198-200 quartz veined with pyrite and oxidation	190	195	5	826	0.02	0.12	Tr		210	212	0-10
		75%	208-213	195	200	5	827	0.02	0.03	Tr		212	214	30-40
			219-220, 226-228, 230-231 breccia									214	216	X
		40%	221-226									216	218	50-60
			234, 250-252 heavy siderite veining									218	220	30-40
			250-258, 259-260 very graphitic, broken recovery									220	222	60-70
263	297		<u>Calcsilicate Gneiss</u> <u>Fine grained, banded variety. Much</u>									222	226	50-60
			siderite veining, some composite siderite-barite? veins	270							2.78	226	232	20-30
			265-265.9 granitic vein (tourmaline, siderite, muscovite & felsics)									232	234	X
297	344		<u>Graphitic Gneiss</u> <u>Limy, siderite veining</u>	300	305	5	828	0.13	0.14	Tr		234	236	40-50
			302.6, 306, 319, 327, 334, 334.6, 339 mineralized (Zn) veins	305	310	5	829	0.12	0.10	Tr		236	240	80-90
			318, 331 mineralized (Pb) veins	330	335	5	830	0.16	0.07	0.06		240	242	70-80
			325-326, 335-336, 338-339 Very limy, disrupted banding									242	246	80-90
344	347		<u>Calcsilicate Gneiss</u> <u>Coarse limy banded variety, disrupted</u>									246	248	X
			banding, heavy siderite veining									248	254	50-60
347	352		<u>Calcsilicate Gneiss</u> - <u>Fine grained, banded variety, siderite veined</u>									254	256	X

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH _____		FOOTAGE	AZIMUTH	DIP
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____		METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 16
363-385

Box 17
385-407.6

Box 18
407.6-430

Box 19
430-453

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS oz/ton				Dip of Foliation			
				FROM	TO	WIDTH	NO	% Pb	% Zn	Ag	S.G.	From	To	Dip	
352	365		<u>Graphitic Gneiss</u> - Limy, siderite veined										256	258	60-70
			363, 364 siderite veining with trace sphalerite	360	365	5	831	0.60	0.04	0.18			258	260	80-90
			364.6-365 siderite veining with galena and trace chalcopyrite.	365	370	5	832	0.69	0.13	0.12			260	264	30-40
			Some breccia with siderite matrix.										264	266	20-30
365	387		<u>Calcsilicate Gneiss</u> - as 347-352, siderite veining heavy to 375										266	270	40-50
			368 composite galena-siderite veining, galena core.										270	274	30-40
			368.6 1/10-1/4" galena-sphalerite-siderite vein.										274	284	20-30
			369 sphalerite in calcite-siderite vein.										284	286	80-90
			369.3 galena in siderite vein (trace)										286	292	50-60
			376 trace galena & sphalerite in siderite										292	296	60-70
			379.9 trace sphalerite in siderite										296	304	40-50
387	391		<u>Graphitic Gneiss</u> - limy, siderite veining heavy 390-391										304	306	80-90
391	407		<u>Calcsilicate Gneiss</u> , as 365-387, siderite veined 391-392										306	308	50-60
			394.6 trace galena, sphalerite in siderite										308	310	20-30
			407 trace galena in siderite										310	312	0-10
407	425		<u>Graphitic Gneiss</u> - slightly limy										312	314	Z
			407-412, 418.6, 423-425 siderite veining										314	316	30-40
			418.6 galena in siderite	415	420	5	833	0.09	0.06	Tr			316	318	X
			421, 423, 423.6 sphalerite in siderite	420	425	5	834	0.04	0.09	0.04			318	320	50-60
			422-425 quartzite bands										320	324	80-90
425	443		<u>Quartzite</u> - faintly banded and siderite veined, may be a										324	326	70-80

Diamond Drill Record

COLLAR: NORTH _____		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
: EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____		METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS <small>oz/ton</small>				Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	S. G.	From	To	Dip	
			hydrothermal product.										326	328	40-50
			430.6, 441.6, 442 galena in siderite	440	445	5	835	0.02	0.02	Tr			328	330	80-90
		60%	436-440										330	336	60-70
			435-443 short sections of graphitic gneiss & some graphite seams.										336	340	50-60
													340	342	70-80
443	451		<u>Graphitic Gneiss</u> - limy										342	344	80-90
			443.6, 447 galena in calcite veining										344	354	10-20
451	452		<u>Calcsilicate Gneiss</u> - Fine grained, banded variety, disrupted banding.										354	360	50-60
			451.3 trace sphalerite in siderite										360	364	40-50
452	453+		<u>Graphitic Gneiss</u> - limy										364	366	30-40
		NIL	453-462										366	376	20-30
-462	467		<u>Calcsilicate Gneiss</u> - Coarse, limy banded variety, skarny										376	382	10-20
467	472		" " - Fine grained, banded variety										382	384	0-10
			468-470 gouge										384	386	10-20
			470.6 trace sphalerite										386	388	X
													388	390	30
472	475		<u>Graphitic Gneiss</u>										390	392	40-50
475	482		<u>Calcsilicate Gneiss</u> as 467-472										392	398	10-20
482	483		<u>Graphitic Gneiss</u>										398	408	30-40
483	486		<u>Calcsilicate Gneiss</u> - Fine grained, banded variety										408	410	50-60
486	554		" " - Coarse, limy, banded variety										410	418	80-90

Box 20
462-483

Box 21
483-505

Box 22
505-531

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO 453-72-3
 CLAIM NAME Lyn 92
 COMMENCED _____
 FINISHED _____
 PROJECT NO 453

Box 23
531-
554.6

Box 24
554.6-
581

Box 25
581-
602.9

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS oz/ton			Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	From	To	Dip	
			Well developed folding of bands from 510-540 with development of									418	420	60-70
			second fabric dipping 10-20° from 510-515 and 535-554, 20-30°									420	432	50-60
			from 515-535. Fold axes generally at 40-60° to dip direction.									432	434	Z
		60%	526-531									434	438	80-90
			536-538 dense biotite-rich, biotite-siderite gneiss									438	440	60-70
554	563		Calcsilicate Gneiss - Fine grained, banded variety									440	444	X
			556 mineralized (Zn) vein	555	560	5	836	0.04	0.09	Tr		444	450	60-70
			560 galena in siderite									450	462	50-60
		40%	558-564									462	464	Z
			563-564 fine powder									464	468	30-40
563	578		Calcsilicate Gneiss - Coarse limy banded variety, as 486-554,									468	470	X
			very limy, dominantly carbonate with biotite bands.									470	472	40
			572-573 biotite-siderite gneiss, as 536-538									472	476	60-70
578	579		Calcsilicate Gneiss - Coarse gneissose marble									476	482	50-60
579	582		" " - as 563-578									482	484	Z
582	583.6		" " - as 578-579									484	488	20-30
583.6	585		" " - as 563-578									488	498	40-50
585	591		Calcsilicate Gneiss - Coarse gneissose marble									498	508	30-40
			585 mineralized (Zn) vein									508	544	Z
			589 Tourmaline, as 265-265.9									544	548	10-20
591	600		Calcsilicate Gneiss - Fine grained, banded variety, limy									548	550	40-50

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY

PROPERTY NAME Lyn

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO. <u>453-72-3</u>
CLAIM NAME <u>Lyn 92</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 26
602.9-
626

Box 27
626-
648.6

Box 28
648.6-
672.6

Box 29
672.6-
688

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	oz/ton Ag				
			and sideritic.									550	556	30-40
			592 sphalerite in band concordant with foliation	592	597	5	837	0.12	0.24	Tr		556	558	Z
			593.6 galena in siderite									558	564	X
			593.6-596 siderite veined, siderite gneiss, with galena									564	566	Z
			596.6 galena in siderite									566	572	40-50
600	604.6		<u>Calcsilicate Gneiss - Coarse gneissose marble</u>									572	584	30-40
604.6	605.6		" " - <u>Fine grained, banded variety, limy</u>									584	588	50-60
			604.6 mineralized (Zn) vein									588	594	40-50
605.6	607		" " as 600-604.6									594	596	80-90
607	608		" " - <u>Coarse limy, banded variety</u>									596	604	50-60
608	610		" " as 600-604.6									604	608	30-40
610	614		" " as 607-608, biotite-rich									608	610	50
614	619		" " as 600-604.6									610	622	30-40
619	620		" " as 610-614									622	626	20-30
620	621		" " as 600-604.6									626	666	10-20
621	637		" " as 610-614, very limy	620	625	5	838	0.02	0.04	Tr		666	680	20-30
			624.6 1/20" concordant lime-sphalerite layer									680	682	Z
637	638		<u>Calcsilicate Gneiss - as 604.6-605.6</u>									682	684	40-50
638	672		<u>Calcsilicate Gneiss - Coarse, limy, banded variety, very limy</u>									684	686	20-30
			and biotite-rich bands.									686	688	30-40
672	673		<u>Calcsilicate Gneiss - Coarse gneissose marble</u>									688	688.6	Z

Diamond Drill Record

COLLAR: NORTH <u>40N</u>		HOLE SURVEY		
EAST <u>103W</u>		FOOTAGE	AZIMUTH	DIP
ELEVATION <u>4,000 ft asl</u>		797		90°
LOGGED BY <u>P. F. Lewis</u>				
DATE LOGGED <u>Oct '72</u>				
MAP REFERENCE NO. <u>105-K-3</u>		METHOD:		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR E. Caron Diamond Drilling
 ASSAYER Bondar-Clegg & Co.
 PURPOSE OF HOLE Coincident Lead and Zinc in Soil

HOLE NO. <u>453-72-2</u>
CLAIM NAME <u>Lyn 90</u>
COMMENCED <u>Day Shift Oct 19</u>
FINISHED <u>Day Shift Oct 24</u>
PROJECT NO. <u>453</u>

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS/ton			Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	From	To	Dip	
			Recovery 90-100% except where otherwise indicated.									10	12	30-40
			Dip symbol "Z" refers to minor assymetric fold in foliation,									12	14	20-30
			generally with sub-horizontal axial plane									14	16	10-20
			"X" refers to contorted, brecciated or otherwise									16	20	0-10
			unrecognizable foliation.									20	22	30-40
												22	34	0-10
Box 1 10-32 Box 2 32-54	0	10	OVERBURDEN, Casing to 15', left in hole									34	36	10-20
												36	40	0-10
	10	62.5	<u>Calcsilicate Gneiss</u> , Coarser grained, limy banded, variety (as Hole 1 - 92-95, etc)									40	48	10-20
												48	52	0-10
Box 3 54-77.9			52.6 1/10" lime band with galena - concordant									52	54	10-20
Box 4 77.9-100.6	62.5	138.6	<u>Calcsilicate Gneiss</u> - Fine banded, biotite rich variety (as Hole 1 - 11-359 in part) - schistose in this hole									54	56	20-30
												56	60	10-20
			82 - 82.6 steep hairline mineralized vein	80	85	5	803	Tr	<0.02	0.03		60	70	0-10
Box 5 100.6 - 122.9			110 - 111.6 veined pyrite-rich oxidized section, with graphite	105	110	5	804	0.03	<0.02	0.04		70	72	10-20
	138.6	148	<u>Graphitic Gneiss</u> (as Hole 1, 626-691)	110	115	5	805	Tr	<0.02	0.02		72	76	0-10
			147 mud seam									76	78	10-20
Box 6 122.9- 146	148	166	<u>Calcsilicate Gneiss</u> , Fine banded, biotite-rich, variety									78	80	30-40
			154-154.3, 159.6-160 veined, pyritized, oxidized, as 110-111.6	155	160	5	806	Tr	<0.02	0.02		80	84	20-30
Box 7 146-169			160-165 mildly oxidized, pyrite-rich schistose gneiss	160	165	5	807	0.02	<0.02	0.03		84	86	0-10
	166	331	<u>Graphitic Gneiss</u>									86	88	20-30

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP	
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____	METHOD: _____			

COMPANY NAME THALES EXPLORATION COMPANY

PROPERTY NAME Lyn

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO <u>453-72-2</u>
CLAIM NAME <u>Lyn 90</u>
COMMENCED _____
FINISHED _____
PROJECT NO <u>453</u>

Box 8
169-198

Box 9
198-219

Box 10
219-239.6

Box 11
239.6-260.6

Box 12
260.6-282.6

Box 13
282.6-304.6

Box 14
304.6-326.6

Box 15
326.6-349.6

Box 16
349.6-372.6

Box 17
372.6-395

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			Dip of Foliation			
				FROM	TO	WIDTH	NO	% Pb	% Zn	oz/ton Ag	From	To	Dip	
			166, 166.9, 170-171 mud seams									88	90	20-30
			173.9 1" graphite seam									90	92	30-40
		5%	178-186 sand									92	94	20-30
			197-198 gouge and mud	195	200	5	808	Tr	0.04	0.16		94	98	10-20
			200 1/10" sub-horizontal mineralized vein	200	205	5	809	0.02	<0.02	0.05		98	100	20-30
			209-210.6 1/20"-1/2" mineralized veins, 50-60° dip	205	210	5	810	0.02	0.04	0.21		100	105	10-20
			259-261, 261.6-264, 265-266, 267.6-268, 271-272.6, 274.6-276,	210	215	5	811	0.04	0.02	0.14		105	110	Z
			280.9-290, very graphitic breccias									110	122	10-20
			272.6-274, 293.6-295 quartz									122	130	20-30
			304-305, 307-309.6 breccia									130	140	10-20
			326-326.6 quartz and graphite									140	142	40-50
			329 mineralized vein	325	330	5	812	0.05	<0.02	0.06		142	144	2
	331	363	Calcsilicate Gneiss - Fine banded, biotite-rich variety	330	335	5	813	0.02	<0.02	0.02		144	148	80-90
			362-362.6 veined, pyritized, oxidized, as 110-111.6	360	365	5	814	0.02	<0.02	0.02		148	150	30-40
	363	420	Graphitic Gneiss - sericitic at first									150	152	40-50
			366-368 breccia									152	154	0-10
			372-372.6 veined and brecciated									154	158	20-30
			376-378 Quartz									158	160	10-20
			390-391 Fine banded, biotite-rich, calcsilicate gneiss									160	162	20-30
			397-398 breccia with sideritic matrix	395	400	5	815	0.02	<0.02	0.02		162	164	10-20
			402-403, 409.3-410 quartz									164	168	20-30

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH _____		FOOTAGE	AZIMUTH	DIP
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____		METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-2</u>
CLAIM NAME <u>Lyn 90</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 18
395-418

Box 19
418-
439.6

Box 20
439.6-
462.6

Box 21
462.6-
484

Box 22
484-508.6

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS oz/ton			Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	From	To	Dip	
			410-413 breccia									168	174	0-10
420	439		Calcsilicate Gneiss, Fine grained, banded variety, gradational									174	178	20-30
			contact with above.									186	196	40-50
			421-423 breccia									196	200	50-60
			426-427, 428-436 disrupted banding									200	202	70-80
			435 mineralized vein	430	435	5	816	Tr	<0.02	0.02		202	204	80-90
439	442		Calcsilicate Gneiss, Fine banded, biotite-rich variety	435	440	5	817	0.04	<0.02	0.09		204	206	70-80
442	443		Graphitic Gneiss									206	214	60-70
			442-442.6 breccia									214	216	40-50
443	444		Calcsilicate Gneiss as 439-442									216	218	10-20
444	445		Graphitic Gneiss									218	220	60-70
445	447		Calcsilicate Gneiss as 439-442									220	222	0-10
447	460		Graphitic Gneiss									222	224	30-40
			450-456 breccia, mud and gouge									224	228	40-50
			458.6 mineralized vein	455	460	5	818	0.04	0.05	0.30		228	236	60-70
460	478		Calcsilicate Gneiss, Fine grained, banded variety	460	465	5	819	0.03	0.02	0.07		236	238	70-80
			464-465 veined, brecciated and pyritized	465	470	5	820	0.02	<0.02	0.02		238	240	60-70
			465-467 skarny									240	242	40-50
			473.6 mineralized vein (Zn)									242	248	20-30
478	492		Graphitic Gneiss									248	252	30-40
			483-490 brecciated with quartz veins and graphite									252	256	20-30

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-2</u>
CLAIM NAME <u>Lyn 90</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 23
508.6-
529.6

Box 24
529.6-
552.6

Box 25
552.6-
576

Box 26
576-
597.6

Box 27
597.6-
620

FROM	TO	RECOVY	DESCRIPTION	DIP OF FOLIATION										
				FROM	TO	Dip		From	To	Dip		From	To	Dip
492	520		<u>Altered Schist</u>	256	258	30-40		314	316	60-70		390	396	20-30
			Muscovite 90% with clots of chlorite after garnet and hornblende.	258	260	10-20		316	318	50-60		396	398	60-70
			Rare relic garnet. Greasy feel may be due to talc. Possibly an	260	264	X		318	320	X		398	404	80-90
			altered variety of schists drilled by Kerr Addison in hole L-71-1.	264	266	80-90		320	322	30-40		404	408	60-70
			494-494.3, 498.3-500 <u>Graphitic Gneiss</u>	266	267	0-10		322	324	50-60		408	410	40-50
520	531		<u>Graphitic Gneiss</u>	267	268	60-70		324	326	30-40		410	414	X
531	534		<u>Calcsilicate Gneiss - Fine grained, banded variety</u>	268	270	20-30		326	328	20-40		414	416	80-90
534	539.6		" " - <u>Coarser grained gneissose marble</u>	270	278	40-50		328	330	40-50		416	418	40-50
			(as Hole 1, 370-381, etc)	278	282	80-90		330	338	30-40		418	420	30-40
539.6	546		" " - as 531-534	282	288	40-50		338	340	10-20		420	422	Z
546	547		<u>Graphitic Gneiss</u>	288	290	50-60		340	350	30-40		422	424	X
547	548		<u>Calcsilicate Gneiss - as 531-534</u>	290	294	60-70		350	352	40-50		424	426	0-10
548	550		<u>Graphitic Gneiss</u>	294	296	70-80		352	356	30-40		426	434	20-30
550	552		<u>Calcsilicate Gneiss - as 531-534</u>	296	298	50-60		356	364	20-30		434	436	50-60
552	554.6		<u>Graphitic Gneiss</u>	298	302	40-50		364	366	Z		436	440	Z
554.6	557		<u>Calcsilicate Gneiss - Fine banded biotite-rich variety</u>	302	304	20-30		366	368	80-90		440	448	50-60
557	569		" " as 531-534	304	306	X		368	370	X		448	452	30-40
569	570		" " as 554.6-557	306	308	80-90		370	372	80-90		452	458	X
570	597		" " as 531-534	308	310	X		372	378	40-50		458	462	50-60
597	599		<u>Graphitic Gneiss</u>	310	312	40-50		378	386	50-60		462	464	Z
599	607		<u>Calcsilicate Gneiss - Fine grained, banded variety as 531-534</u>	312	314	50-60		386	390	40-50		464	466	30-40

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-2</u>
CLAIM NAME <u>Lyn 90</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 28
620-
641.3

Box 29
641.3-
663.6

Box 30
663.6-
687

Box 31
687-
711.6

Box 32
711.6-
735

Box 33
735-758

Box 34
758-
783.6

Box 35
783.6-
797

FROM	TO	RECOVY	DESCRIPTION	DIP OF FOLIATION								
				FROM	TO	Dip	FROM	TO	Dip	FROM	TO	Dip
607	608		Graphitic Gneiss	466	468	50-60	524	528	20-30	590	592	70-80
608	621		Calcsilicate Gneiss - as 531-534	468	470	40-50	528	530	0-10	592	594	Z
621	622		Graphitic Gneiss	470	472	Z	530	534	20-30	594	596	10-20
622	655		Calcsilicate Gneiss - as 531-534	472	476	80-90	534	536	30-40	596	598	20-30
655	694		Graphitic Gneiss	476	478	40-50	536	538	40-50	598	602	30-40
			655-669.6 very graphitic breccia	478	480	Z	538	544	30-40	602	610	20-30
			669-694 sericitic - could be called a banded graphite -	480	482	40-50	544	548	60-70	610	620	30-40
			muscovite schist or phyllite.	482	484	30-40	548	550	X	620	622	80-90
			681 mineralized vein (Zn)	484	486	X	550	552	50-60	622	626	Z
694	724		Altered Schist - as 492-520	486	488	40-50	552	554	30-40	626	632	40-50
724	732		Graphitic Gneiss - as 669-694, sericitic & schistose	488	490	X	554	556	80-90	632	640	30-40
732	736.6		Altered Schist	490	496	40-50	556	562	50-60	640	642	40-50
			733 mineralized vein (Zn)	496	498	10-20	562	566	80-90	642	646	30-40
736.6	758		Graphitic Gneiss	498	500	40-50	566	568	60-70	646	648	80-90
758	761		Calcsilicate Gneiss - as 531-534	500	502	30-40	568	570	70-80	648	650	60-70
761	774		Graphitic Gneiss	502	506	20-30	570	578	50-60	650	652	80-90
			768-771 Breccia	506	508	40-50	578	580	70-80	652	654	0-10
774	779		Calcsilicate Gneiss - as 531-534	508	510	30-40	580	582	80-90	654	658	20-30
779	780		Graphitic Gneiss	510	512	40-50	582	584	20-30	658	668	X
780	786		Calcsilicate Gneiss - Fine grained, banded variety as 531-534	512	522	20-30	584	588	40-50	668	670	0-10
786	789		Graphitic Gneiss	522	524	30-40	588	590	50-60	670	672	40-50

Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	<u>41N</u>	FOOTAGE	AZIMUTH	DIP
WEST	<u>134W</u>			
ELEVATION	<u>4000 ft. a. s. l.</u>	<u>691</u>		<u>90</u>
LOGGED BY	<u>P. F. Lewis</u>			
DATE LOGGED	<u>Oct. '72</u>			
MAP REFERENCE NO.	<u>105 K/3</u>	METHOD:		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR E. Caron Diamond Drilling
 ASSAYER Bondar-Clegg
 PURPOSE OF HOLE Coincident gravity, lead and zinc in soil

HOLE NO.	<u>453-72-1</u>
CLAIM NAME	<u>Lyn 96</u>
COMMENCED	<u>Day Shift Oct. 13/72</u>
FINISHED	<u>Night Shift Oct. 17/72</u>
PROJECT NO.	<u>453</u>

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS		
				FROM	TO	WIDTH	NO	% Pb	% Zn	oz/ton Ag
SUMMARY										
0	11	-	Overburden, casing to 15', left in hole.							
11	626		<u>Calcsilicate Gneiss</u>							
			Fine to coarse-grained, banded, medium-dark grey or	60	75	15		0.12	0.25	0.05
			purplish with lime-rich lighter grey bands. Sections with	105	110	5		0.09	0.19	0.04
			coarser grainsize show purplish biotite-rich bands alternating	140	150	10		0.17	1.40	0.06
			with grey calcite-rich bands on a 1/10 - 1/4 inch scale.	150	160	10		5.77	3.02	0.54
			Banding is sometimes disrupted to give a spotty appearance.	190	195	5		0.12	0.82	0.04
			Some sections are massive and skarny. Finer-grained, less	220	225	5		0.06	2.70	0.05
			limy sections have barren quartz - carbonate - pyrite veins,	280	285	5		0.19	0.65	0.06
			boudinaged and parallel to foliation, with muscovite and/or	340	360	20		0.03	0.35	0.04
			selvedges.	375	380	5		0.02	0.02	Tr
				625	630	5		0.02	0.13	0.04
626	691		<u>Graphitic Gneiss</u>							
			Medium to dark grey, faintly banded, fine-grained							
			graphitic gneiss, structurally less competent than the above							
			being more heavily veined and more complexly folded. Not							
			conspicuously limy, but often vuggy.							
			Both the above are veined by late calcite and/or siderite							
			and/or barite? veins bearing resin-brown sphalerite and/or							

Diamond Drill Record

COLLAR: NORTH _____		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
EAST _____				
ELEVATION _____				
LOGGED BY _____				
DATE LOGGED _____				
MAP REFERENCE NO. _____		METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY

PROPERTY NAME Lyn

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO. <u>453-72-1</u>
CLAIM NAME <u>Lyn 96</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 3
56.6-79

Box 4
79-102.9

Box 5
102.9-125.6

Box 6
125.6-147

Box 7
147-171.9

Box 8
171.9-193.3

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			Dip of Foliation		
				FROM	TO	WIDTH	NO.	% Pb	% Zn	oz/ton Ag	From	To	Dip
			60.6-61 vein breccia and gouge with minor galena and sphalerite.	60	65	5	1912	0.19	0.30	0.04	75	140	10-20
			70.6, 71.6, 72, 73 steep dipping, late, 1/10" veins of carbonate with minor resin-brown sphalerite and galena.	65	75	10	1913	0.06	0.18	0.06	141	146	30
	92	95	Coarser grained and banded (1/4") gneiss with alternate red-brown biotite-rich bands and light grey carbonate-rich bands.								147	149	10-20
			106, 107-109 steep dipping, late, mineralized veins.	105	110	5	1914	0.09	0.19	0.04	148		Z
	111	114	Coarser grained, limy, banded gneiss (as 92-95).								149	150	50
			139.6 1" mud seam.								153	154	10
			140-163 heavy veining, brecciation, mostly barren, some mud seams.								154	157	X
			141 1/2" mineralized vein.	140	145	5	1915	0.11	1.10	0.06	157	158	30
			146-148 mineralized veins.	145	150	5	1916	0.23	1.70	0.06	158	180	0-10
		10%	150-153	150	155	5	1917	0.35	4.92	0.10	180	183	10-20
			154-155 sphalerite-rich breccia.								183	186	30
			156-157 galena-rich breccia.	140	145	5	1915	0.11	1.10	0.06	186	188	10-20
	180	182	Coarser grained, limy banded gneiss.	145	150	5	1916	0.23	1.70	0.06	188	189	X
		50%	183-184	150	155	5	1917	0.35	4.92	0.10	189	190	0-10
			188 1/10" mineralized vein.	155	160	5	1918	11.20	1.12	0.98	190	191	X
			188-189 breccia gouge and quartz veins.								191	244	0-10
											244	246	30
											246	248.6	10-20
											248.6	257	X
											257	269	10-20

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

HOLE NO. <u>453-72-1</u>
CLAIM NAME <u>Lyn 96</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 9
193.3-216
Box 10
216-239
Box 11
239-263.3
Box 12
263.3-291
Box 13
291-314
Box 14
314-337
Box 15
337-358
Box 16
358-381
Box 17
381-404.6
Box 18
404.6-428

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS			Dip of Foliation		
				FROM	TO	WIDTH	NO.	% Pb	% Zn	oz/ton Ag	From	To	Dip
			189.6, 190.6-191.6, 219-221.6, 222.6-223 mineralized breccia	190	195	5	1919	0.12	0.82	0.04	269	271	30
			226.6-227.6, 263.6 barren breccia	220	225	5	1920	0.06	2.70	0.05	271	288	10-20
		25%	280-288								288	289	20-30
			280.6 1/10" mineralized vein	280	285	5	1921	0.19	0.65	0.06	289	293.6	10-20
291	302		Coarser grained, limy, banded gneiss								293.6		2
305	307		Do, disrupted banding giving spotted appearance								293.6	295	30
309.6	312.6		Do, disrupted banding giving spotted appearance								295	297	20-30
			314-317 poorly banded, skarny								297	315	10-20
			317-320 breccia of above								315	317	20-30
			320-324 as 314-317								317	320	10-20
324	330		Graphitic Gneiss								320	322	30
		25%	326-330								322	324	10-20
			340, 341.6-342, 344.6, 345.3, 345.6, 349, 350.6-352, 355.3-355.6	340	345	5	1922	0.02	0.10	0.04	324	330	0-10
			mineralized veins	345	350	5	1923	0.02	0.13	0.03	330	331	50
353	357		Coarser grained, limy, banded gneiss	350	355	5	1924	0.06	1.05	0.06	331		2
359	370		Do	355	360	5	1925	0.04	0.12	0.03	331	333	10-20
370	381		Coarser grained gneissose marble or very limy gneiss,								333	337	20-30
			with faint banding due to variable but minor biotite content								337	339	30-40
			375-375.6 mineralized veining	375	380	5	801	0.02	0.02	Tr	339	343	20-30
381	405		Coarser grained, limy, banded gneiss								343	344	50
			387-393 disrupted banding								344	345	30-40

Diamond Drill Record

COLLAR:	HOLE SURVEY		
NORTH _____	FOOTAGE	AZIMUTH	DIP
EAST _____			
ELEVATION _____			
LOGGED BY _____			
DATE LOGGED _____			
MAP REFERENCE NO. _____	METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY

PROPERTY NAME Lyn

DRILLING CONTRACTOR _____

ASSAYER _____

PURPOSE OF HOLE _____

HOLE NO. <u>453-72-1</u>
CLAIM NAME <u>Lyn 96</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 19
428-451

Box 20
451-
475.6

Box 21
475.6-
499.6

Box 22/27
499.6-
521.6

Box 28
521.6-
549

Box 29
549-572.6

Box 30
572.6-
595.3

Box 31
595.3-
618.3

Box 32
618.3-639

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS ^{oz/ton}			Dip of Foliation		
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag			
405	438		Coarser grained gneissose marble (as 370-381)								345	350	10-20
438	439		Fine banded, biotite rich gneiss (as 11-359 in part)								350	362	20-30
439	448		Fine grained, banded gneiss (as 11-359 in part)								362	364	10-20
448	470		Coarser grained gneissose marble, some disrupted banding								364	366	30-40
		nil	451.3 - 453								366	381	10-20
			460 - 460.6 gouge								381	395	20-30
470	477		Fine banded biotite rich gneiss								395	397	30-40
477	556		Fine grained banded gneiss								397	398	0-10
		30%	521.6 - 524 mud and gouge								398	399	20-30
		60%	524 - 527								399	400	30-40
		60%	537 - 542 mud and gouge								400	404	20-30
		20%	542 - 546								404	416	10-20
			546 - 549 heavy barren veining								416	417	20-30
		50%	549 - 555								417	422	10-20
			551 - 552 barren breccia								422	423	20-30
		80%	555 - 560								423	437	10-20
556	577		Coarser grained limy banded gneiss								437	438	40-50
577	583		Coarser grained gneissose marble								438	439	0-10
583	623		Coarser grained limy banded gneiss								439	443	20-30
			602 - 605.6 breccia and fault dipping 70-80°, barren								443		Z
			604.6 - 605.6 breccia has pyritic matrix								443	446	10-20

Diamond Drill Record

COLLAR: NORTH _____ EAST _____ ELEVATION _____ LOGGED BY _____ DATE LOGGED _____ MAP REFERENCE NO. _____		HOLE SURVEY		
		FOOTAGE	AZIMUTH	DIP
		METHOD: _____		

COMPANY NAME THALES EXPLORATION COMPANY
 PROPERTY NAME Lyn
 DRILLING CONTRACTOR _____
 ASSAYER _____
 PURPOSE OF HOLE _____

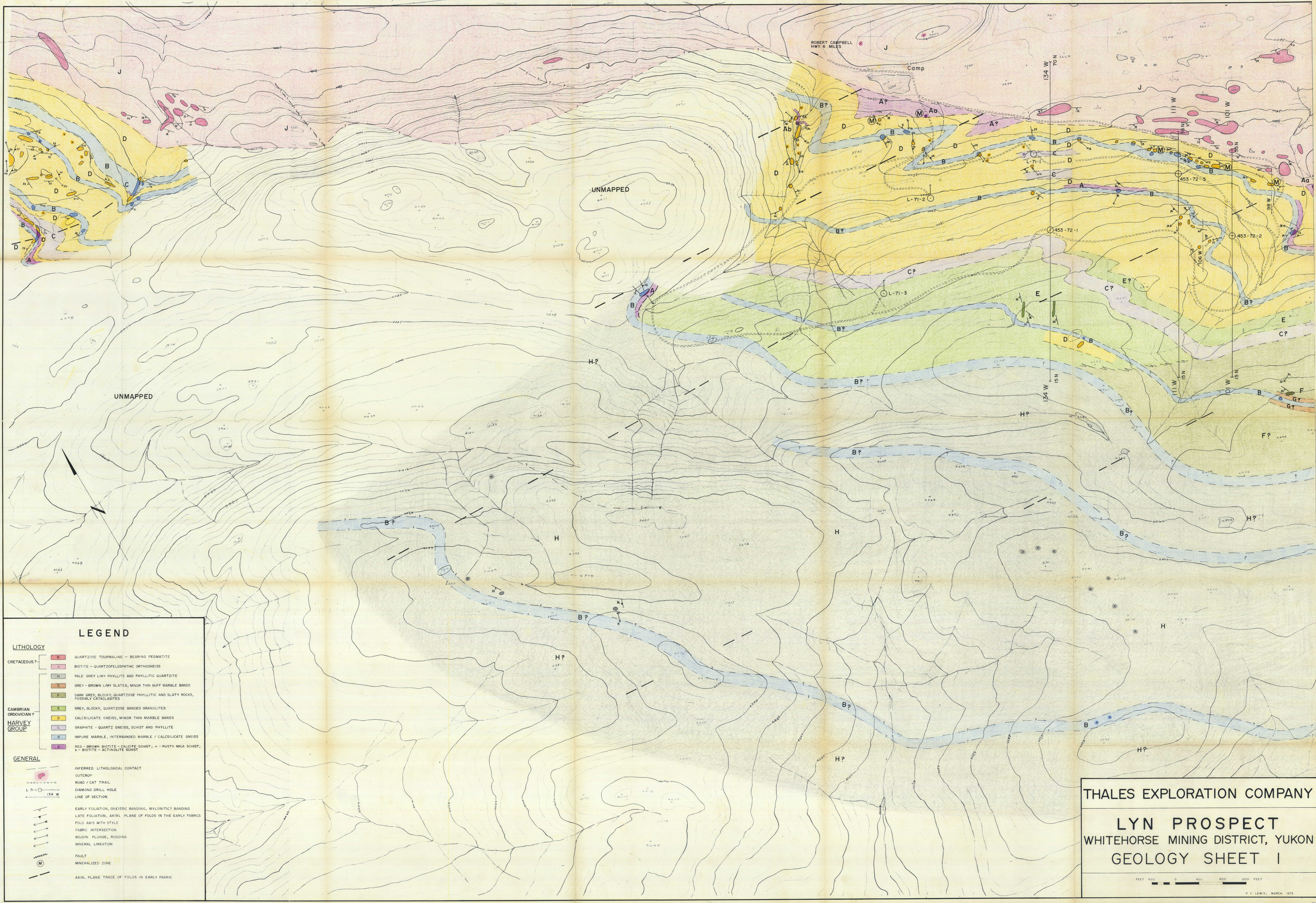
HOLE NO. <u>453-72-1</u>
CLAIM NAME <u>Lyn 96</u>
COMMENCED _____
FINISHED _____
PROJECT NO. <u>453</u>

Box 33
639-658

Box 34
658-678.9

Box 35
678.9-691

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS ^{oz/ton}				Dip of Foliation			
				FROM	TO	WIDTH	NO.	% Pb	% Zn	Ag	S. G.	From	To	Dip	
			606 - 607 quartzite										446	450	20-30
			607 - 618.3 very heavy, with garnet and ?	618	618.3	3"						3.43	450	454	0-10
623	626		<u>Fine grained banded gneiss</u>										454	456	40
													456	470	20-30
			<u>GRAPHITIC GNEISS (626 - 691)</u>										470	476	30-40
			627, 627.3 mineralized veins	625	630	5	802	<0.02	0.13	0.04			476	490	0-10
			645.3 - 647, 653 - 655, 662.3 - 663										490	495	10-20
		20%	672 - 674										495	500	0-10
		50%	686 - 688										500	503	20-30
													503	505	30-40
			691 - END OF HOLE										505	509	20-30
				622	623	30-40		575	578	20-30			509	513	10-20
				623	625	60-70		578	595	40-50			513	515	20-30
				625	630	30-50		595	597	20-30			515	517	10-20
				630	632	50-60		597	599	Z			517	522	0-10
				632	635	80-90		599	603	10-20			522	526	30-40
				635	640	60-70		603	605	20-30			526	530	20
				640	645	40-60		605	610	10-20			530	537	0-10
				645	647	X		610	615	0-10			537	539	20-30
				647	651	50-60		615	620	10-20			539	550	0-10
				651	653	70-80		620	622	20-30			550	575	10-20



LEGEND

LITHOLOGY

CRETACEOUS?

- J QUARTZOSE TOURMALINE - BEARING PEGMATITE
- H BIOTITE - QUARTZ/FELDSPATHIC ORTHOGNEISS
- I PALE GREY LIMY PHYLLITE AND PHYLLITIC QUARTZITE
- G GREY - BROWN LIMY SLATES, MINOR THIN BUFF MARBLE BANDS
- F DARK GREY, BLOCKY, QUARTZOSE PHYLLITIC AND SLATY ROCKS, POSSIBLY CATACLASTITES

CAMBRIAN

ORDOVICIAN?

HARVEY GROUP

- E GREY, BLOCKY, QUARTZOSE BANDED GRANULITES
- O CALCISILICATE GNEISS, MINOR THIN MARBLE BANDS
- C GRAPHITE - QUARTZ GNEISS, SCHIST AND PHYLLITE
- B IMPURE MARBLE, INTERBANDED MARBLE / CALCISILICATE GNEISS
- A RED - BROWN BIOTITE - CALCITE SCHIST, + - RUSTY MICA SCHIST, - BIOTITE - ACTINOLITE SCHIST

GENERAL

- - - - - INFERRED LITHOLOGICAL CONTACT
- OUTCROP
- ROAD / CAT TRAIL
- DIAMOND DRILL HOLE
- LINE OF SECTION
- EARLY FOLIATION, GNEISSIC BANDING, MYLONITIC BANDING
- LATE FOLIATION, AXIAL PLANE OF FOLDS IN THE EARLY FABRICS
- FOLD AXIS WITH STYLE
- FABRIC INTERSECTION
- BOUDIN PLUNGE, RODDING
- MINERAL LINEATION
- FAULT
- MINERALIZED ZONE
- AXIAL PLANE TRACE OF FOLDS IN EARLY FABRIC

THALES EXPLORATION COMPANY

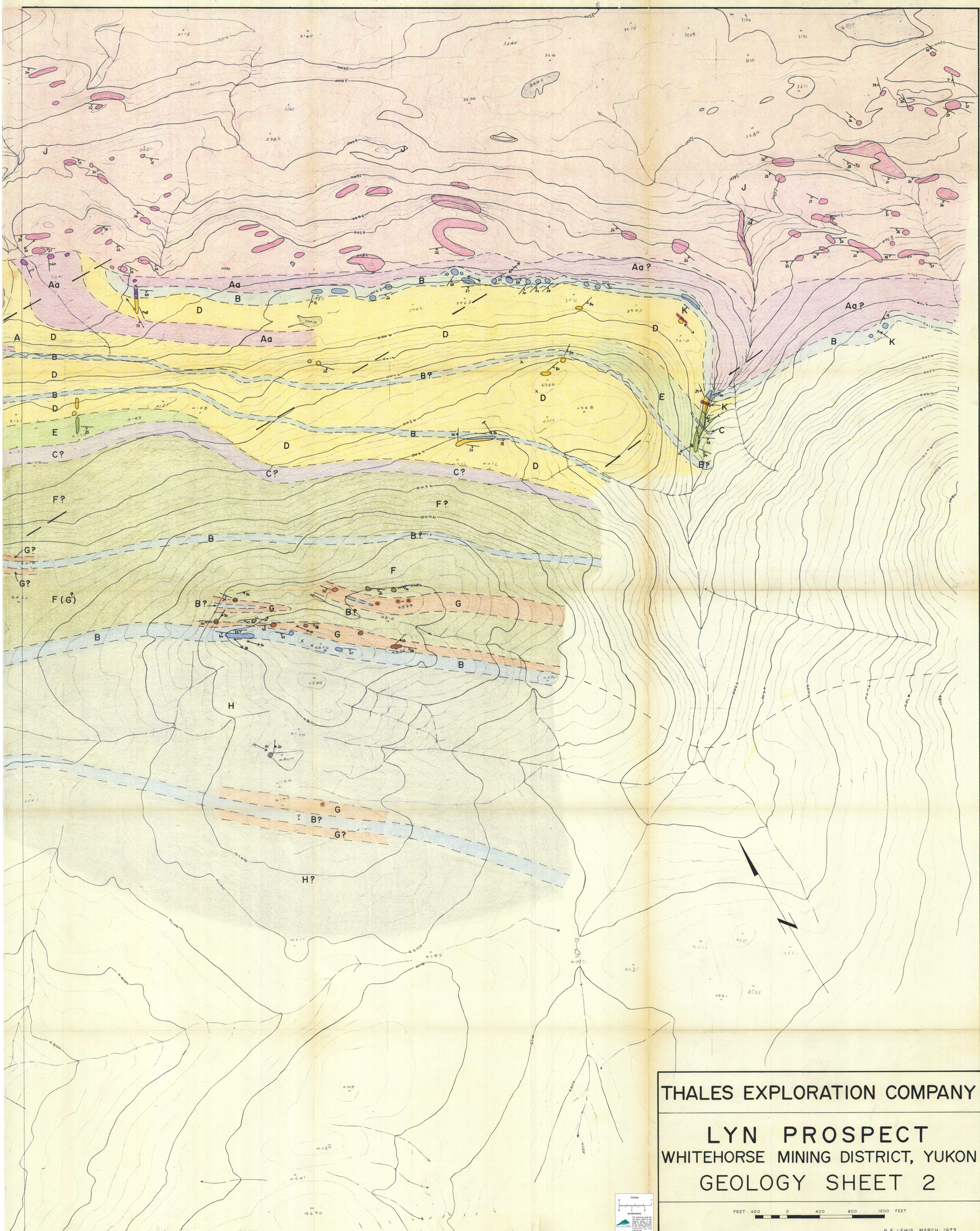
LYN PROSPECT

WHITEHORSE MINING DISTRICT, YUKON

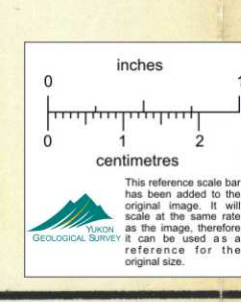
GEOLOGY SHEET 1

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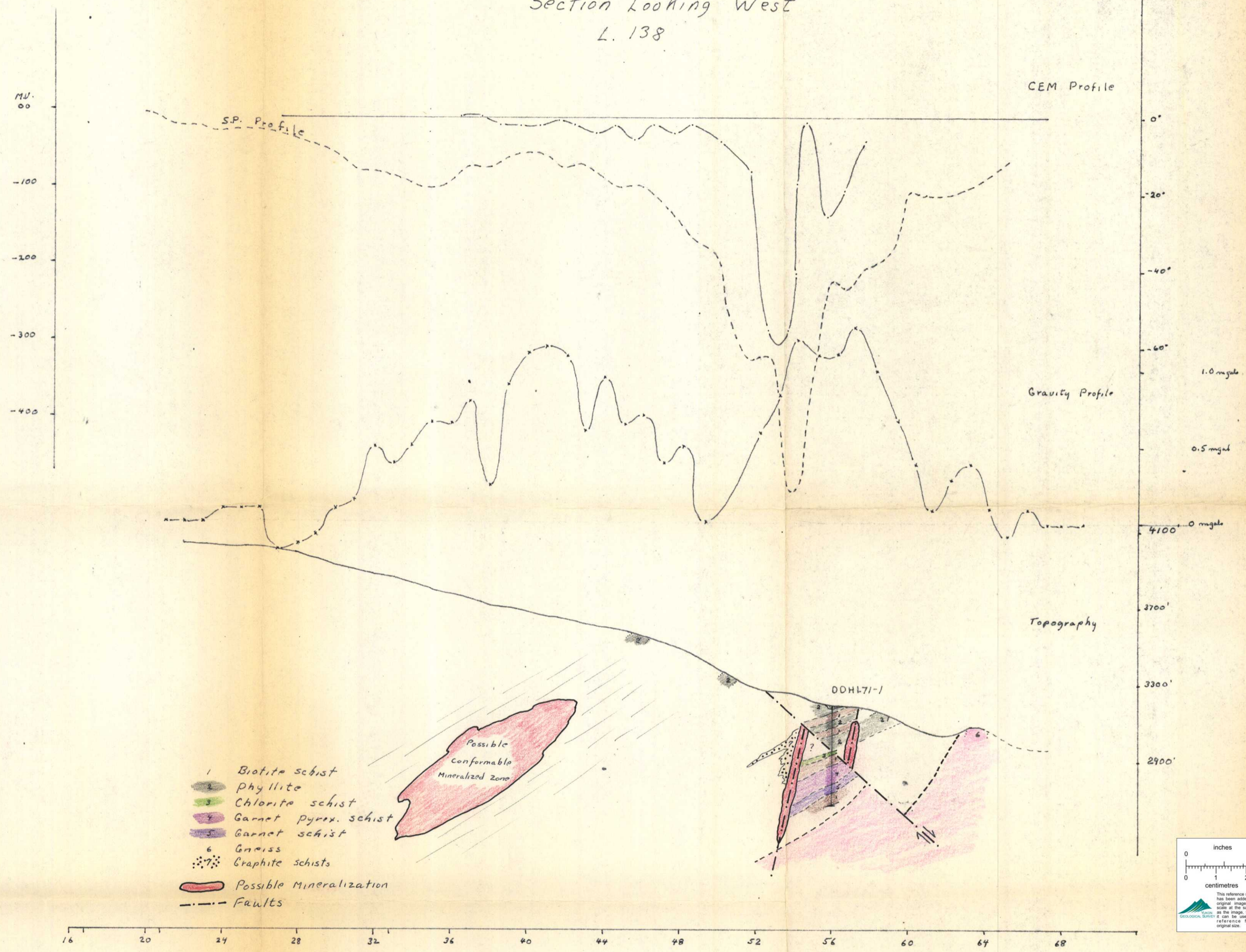
P. F. LEWIS, MARCH 1973



THALES EXPLORATION COMPANY
LYN PROSPECT
WHITEHORSE MINING DISTRICT, YUKON
GEOLOGY SHEET 2



Section Looking West
L. 138



Geological Interpretation based on Geophysical and Geological Information (geol. mainly from diamond drill data)

Lyn Claim Group, Y.T.
CEM, Gravity, and
Topographic Profiles
Line 138