



53B14NE0010 17 KEYASK LAKE

010

DIAMOND DRILLING

AREA: KEYASK LAKE

REPORT NO: 17

WORK PERFORMED FOR: Northern Dynasty Explorations Ltd.

RECORDED HOLDER: Same as above [xx]  
: Other [ ]

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
Pa 818484 & Pa 818485	87A-13	193'	Aug/87	(1)
Pa 818485	87A-14	66.7'	Aug-Sept/87	(1)
Pa 818444	87A-15	61'	Sept/87	(1)
Pa 912858 & Pa 912859	87A-16 87A-17	128.7' 70.3'	Sept/87 Sept/87	(1) (1)
Pa 818442 & Pa 818445	87A-18	128.5'	Sept/87	(1)
Pa 818441 & Pa 818442	87A-19 87A-20	69.8' 105.8'	Sept/87 Sept/87	(1) (1)
Pa 818441	87A-21	118.6'	Sept/87	(1)
Pa 818440	87A-22	124.7'	Sept/87	(1)
Pa 816721	87A-23	136.9'	Oct/87	(1)
Pa 803213	87A-24	130.8'	Oct/87	(1)
Pa 818442 & Pa 818445	87A-25	197.8	Oct/87	(1)

NOTES: (1) #W8803.086, filed in Sept/88

## COLLAR:

		HOLE SURVEY		
NORTH	EAST	FOOTAGE	AZIMUTH	DIP
1+30N	21+80E	0	182°	-65°
ELEVATION		64.1	-	-60°
LOGGED BY	D. Kilby	128.5	-	-56°
DATE LOGGED	30 Aug 87	193.0	-	-52°
MAP REFERENCE NO.		METHOD	ACID	

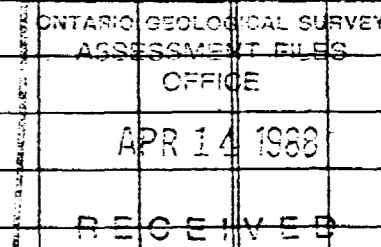
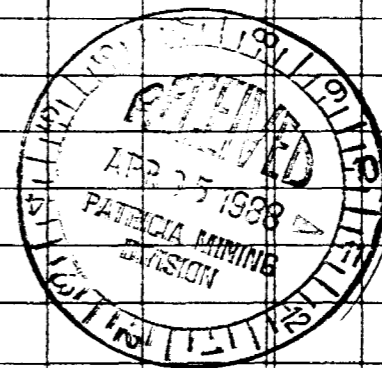
## Diamond Drill Record

PAGE 1 OF 5

COMPANY NAME NORTHERN DYNASTY EXPLORATIONS LTD  
 PROPERTY NAME Arsenio Lake  
 DRILLING CONTRACTOR LANGLEY DRILLING / BRAMPTON, ONT.  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 07A-13  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 20 AUGUST 1987  
 FINISHED 28 August 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
0	30.5		Overburden - casing					ppm	ppm	ppm	ppm	ppb		
30.5	37.0		Finely laminated chlorite-biotite schist with massive chlorite sections up to 1.0 m thick - minor bands of pink garnets with occasional lenses of sulphides up to 4.0 cm. thick											
37.0	106.7		Distinctly to strongly banded chlorite-garnet-biotite schist with trace to minor irregular clots and wispy sections of pyrite and pyrrhotite. Garnets occur in distinct and discrete bands up to 1.0 m thick.	102.7	104.7	2.0	3047	236	336	97	33.5	69		
				104.7	106.7	2.0	3048	226	48	54	7.9	11		
106.7	110.7		Irregularly banded quartz-grunerite-sulphide exhalite quartz makes up about 50% of interval. Pyrite and pyrrhotite occur as massive bands and irregular wisps (tr. sphalerite). Interbeds or bands are composed of chlorite schist or chlorite garnet schist.	106.7	108.7	2.0	3049	131	55	115	7.4	27		
				108.7	110.7	2.0	3050	272	334	119	27.5	50		
110.7	124.7		as in 37.0 - 106.7											
124.7	132.8		Garnet-chlorite schist - large round (up to 2 cm) pink garnets and garnet clots in an olive green chlorite matrix - matrix contains minor sulphides in irregular wispy clots - sulphides are predominantly pyrrhotite with lesser pyrite and trace chalcopyrite.											
132.8	133.7		as in 124.7 - 132.8 with bands of massive pyrrhotite with lesser pyrite and trace chalcopyrite up to 10 cm thick * note thin irregular sulphide concentrations as well.											





# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-13  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
			pyrrhotite are relatively minor disseminations and irregular wispy clots											
			165.4-173.6 massive quartz iron? formation with only trace disseminated and fracture controlled sulphides and grunerite - predominant sulphide is pyrite.											
			173.6-174.4 massive quartz iron formation with 5% irregular wisps and disseminations of sphalerite and pyrrhotite.	173.6	174.4	0.8	3041	43	99	98	1.1	4		
174.4	181.7		Fragmental or conglomerate unit - silicified. Fragments or clasts vary from angular to well rounded. Matrix is locally composed of massive pyrite and sphalerite with lesser amounts of pyrrhotite and arsenopyrite and trace galena.											
			174.4-176.3 as described above with 10% disseminated sulphides in the matrix. Coarse grained sections in this interval tend to have angular clasts or fragments. Finer grained interbeds are up to 20 cm thick	174.4	176.3	1.9	3042	116	16416	36224	99.3	69		
								1.61%	3.74%	3.20 <sup>oz</sup> / <sub>ton</sub>	0.002 <sup>oz</sup> / <sub>ton</sub>			
			176.3-177.6 coarse fragmental unit with grey silicified angular clasts in a coarse grained massive sulphide matrix - pyrite is the most abundant sulphide species followed by sphalerite and pyrrhotite. Traces of galena were seen.	176.3	177.6	1.3	3043	234	3255	56249	41.6	29		
								0.33%	6.45%	1.23 <sup>oz</sup> / <sub>ton</sub>	0.001 <sup>oz</sup> / <sub>ton</sub>			
			177.6-180.0 coarse grained breccia or conglomerate - silicified - some clasts and fragments appear to be from the underlying iron	177.6	180.0	2.4	3044	98	815	475	10.3	26		

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>87A-13</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS							
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au			
			formation. Some clasts have been strongly elongated and others have remained well rounded. This is possibly the result of strain on clasts of different composition.												
			180.0-180.7 greenish-grey quartz-eye sericite schist interbed. quartz-eyes tend to have a distinctive grey colour. -note presence of minor to trace pink garnets in chlorite bands.												
			180.7-181.7 Massive pyrrhotite section with minor coarse grained pyrite some breccia textures were noted so it was included in the fragmented unit. Another possibility is that the sulphide might included in the quartz-eye sericite schist.	180.7	181.7	1.0	3045	468	78	449	4.3	7			
181.7	192.2		Quartz-eye sericite schist with distinctive apple green colour - malaprosite or fuchsite are seen in the core and it is thought that this type of alteration is giving the distinctive colour to the core. Traces of chalcopyrite and sphalerite are seen in and on the margins of quartz. Pink garnets are present only locally in chloritic bands.	181.7	183.7	2.0	3046	97	36	58	2.7	9			

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
PROPERTY NAME \_\_\_\_\_  
DRILLING CONTRACTOR \_\_\_\_\_  
ASSAYER \_\_\_\_\_  
PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. ETA-13  
CLAIM NAME \_\_\_\_\_  
COMMENCED \_\_\_\_\_  
FINISHED \_\_\_\_\_  
PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
192.2	194.9		<i>Distinctly banded quartz-chlorite schist with cuboidal pink and brown garnets common in discrete bands throughout the section. Garnets, although present seem to be much finer than those seen at the top of the hole.</i>										

*David B. Kelly*

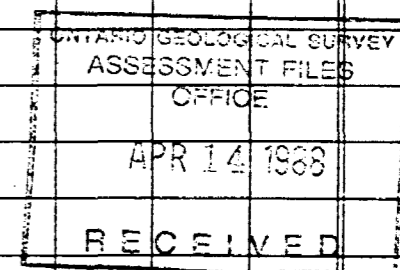
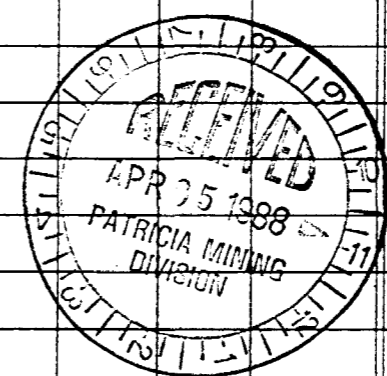
# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH <u>D+60N</u>	FOOTAGE	AZIMUTH	DIP	
EAST <u>Z340E</u>	<u>0.0</u>	<u>182°</u>	<u>45°</u>	
ELEVATION	<u>66.7</u>	"	<u>39°</u>	
LOGGED BY <u>D. ELSBY</u>				
DATE LOGGED <u>2 September, 1987</u>				
MAP REFERENCE NO.	METHOD: <u>ACID</u>			

COMPANY NAME NORTHERN DYNASTY EXPLORATIONS LTD.  
 PROPERTY NAME ARSEND LAKE  
 DRILLING CONTRACTOR LANGLEY DRILLING/BRAMPTON, ONT  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE TEST EXT. OF SULPHIDE ZONE IN A-87-10

HOLE NO. <u>A-87-14</u>
CLAIM NAME _____
COMMENCED <u>30 AUGUST, 1987</u>
FINISHED <u>1 SEPTEMBER 1987</u>
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
0.0	18.0		CASING											
18.0	24.0		CHLORITE - BIOTITE - GARNET SCHIST	18.9	20.8	1.9	3051	242	117	171	11.2	1		
			- Lt. green-grey to grey-black characterized by	20.8	22.8	2.0	3052	*183	1945	6948	45.9	16		
			alternating bands of chlorite + sericite (1-7cm) separated	22.8	24.0	1.2	3053	*195	4750	13907	150.5	86		
			by wavy to dense bands of biotite - these bands often	Assay Results					%	%	oz/t	oz/t		
			contain pink (1-10mm) subhedral-euhedral garnets - note				3052		0.23	0.82	1.43	0.001		
			garnets have grown during deformation due to presence of						0.59	1.60	4.69	0.004		
			pressure shadows around them - garnet concentration also											
			increase as contact with overlying unit is approached											
			(approx. last 2m of unit)											
			- note strong crenulation cleavage @ 19.1m											
			- top 40cm contains small to moderate amount of mariposite-											
			pyrite alteration											
			- predominant sulphide species is pyrrhotite with											
			more minor pyrite, sphalerite and galena											
			19.0-23.5m - pyrrhotite occurs in cased bands with											
			some bands displaying a fragmental or breccia texture											
			characterized by 1-3mm subrounded - rounded clasts of											
			gtz. iron formation (?) within a sulphide matrix											



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-14  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
			- associated with pyrrhotite are small anastomosing bands of sphalerite and minor pods/stringers of galena					ppm	ppm	ppm	ppm	ppb	
			23.5-24.0m: 14 cm band of nearly massive pyrrhotite characterized by a fragmental-brassic texture containing moderately to well rounded 1-10mm clasts of stz iron formation ~ associated with pyrrhotite are more minor bands and stringers of sphalerite and minor blebs of galena										
24.0	26.2		Quartz-Granite-Pyrrhotite Iron Formation (note: "IRON FORMATION" may be referred to as "EXHALITE" due to extremely small % of iron present) - milky white to grey-green containing up to 8% pyrrhotite ~ top 20 cm is characterized by milky-white stz containing abundant stringers of pyrrhotite, sphalerite, and pyrite ~ this texture grades into a fragmental/brassic zone characterized by lenses, clasts and discontinuous bands of grey quartz set in a matrix of granite and sulphide stringers of pyrrhotite and sphalerite - lower 0.5m of unit is a transitional zone grading into the	24.0	26.2	2.2	3054	*143	3076	14684	138.4	69	
									%	%	oz/t	oz/t	
									0.34	1.50	3.83	0.003	









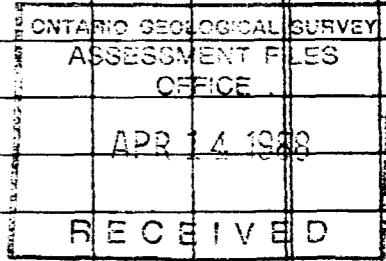
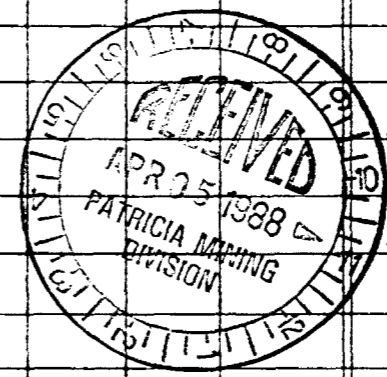
# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	0+65N	FOOTAGE	AZIMUTH	DIP
EAST	25+00E	0.0	182°	45°
ELEVATION		61.0	"	43
LOGGED BY	D. ELSBY			
DATE LOGGED	Sept 6, 1987			
MAP REFERENCE NO.		METHOD:		

COMPANY NAME NORTHERN DYNASTY EXPL. LTD.  
 PROPERTY NAME ARSEND LAKE  
 DRILLING CONTRACTOR LANGLEY DRILLING / BRAMPTON, ONT.  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE TEST EXT. OF ZONE IN A-87-10, TEST GROUND  
MAG 1000' HIGH

HOLE NO.	A-87-15
CLAIM NAME	
COMMENCED	Sept 3, 1987
FINISHED	Sept 5 1987
PROJECT NO.	

FROM M	TO M	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM M	TO M	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
0.0	8.3m		CASING											
8.3	11.9m		Quartz - Pyrrhotite - Grunerite IRON FORMATION (EXHALITE)	8.3	10.3	2.0	3055	* 837	1363	13887	46.3	250		
			lt. to dark grey characterized by massive bands and	10.3	12.3	2.0	3056	* 130	2743	2189	66.8	480		
			stringers of pyrrhotite and pyrite separated by lt. and dk.	12.3	14.3	2.0	3057	* 266	7641	8201	140.3	1220		
			grey bands of quartz containing up to 10% grunerite concentrated in	Assay Results					%	%	oz/t	oz/t		
			small bands and stringers ~ minor sulphides include				3055		0.17	1.94	1.20	0.010		
			sphalerite, galena, and chalcopyrite. Serrite forms a 28 cm wide				3056		0.32	0.24	1.94	0.013		
			band cut by a steeply dipping oscillation cleavage ~ sercite is				3057		0.90	0.91	4.32	0.032		
			also widely scattered throughout unit. Pyrrhotite forms a 26 cm											
			massive band which exhibits a fragmental texture characterized											
			by small (1-5mm) angular to sub-rounded clasts of gtz exhalite(?)											
			Minor sulphides seen throughout unit occur as disseminated											
			clots, bands and stringers. ~ on contact with next unit is											
			approached, pyrite gradually becomes the dominant											
			sulphide											
			- trace arsenopyrite											

















## COLLAR:

NORTH 0+80 N  
 EAST 58+10 E  
 ELEVATION \_\_\_\_\_  
 LOGGED BY D.B. Kilby  
 DATE LOGGED 11 Sept 1987  
 MAP REFERENCE NO. \_\_\_\_\_

## HOLE SURVEY

FOOTAGE	AZIMUTH	DIP
0	182	-45
64.2	—	-40°
128.7	—	-36°

METHOD: Acid test

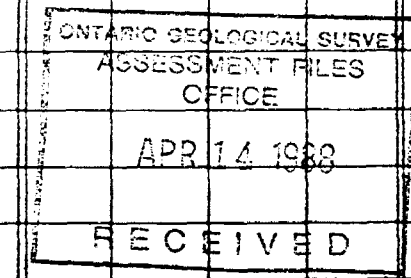
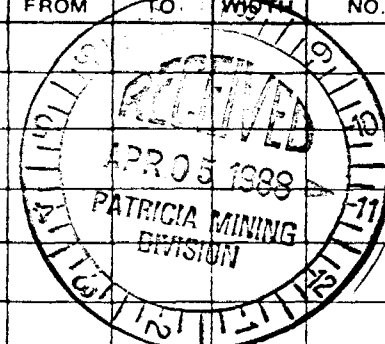
## Diamond Drill Record

PAGE 1 OF 5

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arseno Lake - Lucy Lake Grid.  
 DRILLING CONTRACTOR Langley Drilling  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-16  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 6 Sept 1987  
 FINISHED 9 Sept 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
0	1.2		Overburden - casing.					ppm	ppm	ppm	ppm	ppb		
1.2	18.2		Distinctly laminated chlorite - biotite - sericite schist - partings are somewhat rough with only poorly developed micas on some planes. Pink garnets are seen in discrete sections but are only a minor feature of the rock. Laminations are irregular and diffuse - some fragmental intervals were noted. Vary minor quartz veining is present.											
18.2	19.0		Grey amorphous granitic iron formation with 5% disseminated and fracture controlled pyrite - Note bands of garnet bearing biotite and chlorite schist up to 2cm wide.	18.2	19.0	0.8	3058	72	58	47	0.6	8		
19.0	21.4		Chlorite-garnet schist with abundant fine flattened pink garnets in chloritic bands - Minor pyrite and pyrrhotite are seen in discrete and irregular blobs. Partings tend to be somewhat rough with only poorly developed micas.											
21.4	23.6		Nearly massive pyrrhotite interbanded with olive green chlorite schist and light grey to white siliceous sections. Fine pink garnets are locally abundant. More massive sections of sulphides show breccia textures and minor pyrite.	21.4	23.6	2.2	3059	329	39	53	2.7	6		
23.6	24.6		Massive pyrrhotite with 30% fragments of light grey to white siliceous material seen in the previous section. One fragment shows flattened garnets that have been rotated	23.6	24.6	1.0	3060	666	23	30	2.7	2		









# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-16  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au
								ppm	ppm	ppm	ppm	ppb
106.4	108.8		Laminated sericite and biotite with well developed micas on partings. Note interbanded quartz-grunerite iron formation containing trace sulphide lenses.	106.4	108.8	2.4	3068	131	11	82	0.6	86
108.8	112.7		Massive, olive-green only sparsely laminated chlorite schist - possibly was a lens of massive volcanics?									
112.7	117.6		Irregular, discontinuously laminated chlorite and sericite schist laminations are discontinuous with wispy outlines - texture looks almost fragmental in places.									
117.6	134.1		Variably laminated olive-green, fine grained chlorite schist with minor coarser grained sections - coarser sections are characterised by chlorite porphyroblasts in a fine olive green matrix.									
134.1	136.9		As in 117.6 to 134.1 with much more common coarser sections. Some are characterized by large chlorites which appear to have rotated relative to the major cleavage. Other sections show biotite growing erratically in a fine chlorite matrix. Note some cross-cutting breccias with chloritic fragments in a carbonate matrix.									
			EDH									

*David B. Kelly*

COLLAR:

NORTH 0150NEAST 58+10 E

ELEVATION \_\_\_\_\_

LOGGED BY D.B. KilbyDATE LOGGED 12 Sept 1987

MAP REFERENCE NO. \_\_\_\_\_

## HOLE SURVEY

FOOTAGE

AZIMUTH

DIP

0

182

-60

70.3

-

-58°

METHOD: Acid test

## Diamond Drill Record

PAGE 1 OF 3COMPANY NAME Northern Dynasty ExplorationsPROPERTY NAME Arsena Lake - Lucy Lake Grid.DRILLING CONTRACTOR Langley Drilling

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

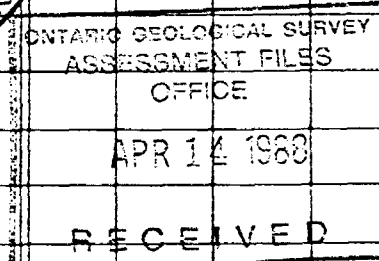
HOLE NO. 87A-17

CLAIM NAME \_\_\_\_\_

COMMENCED 9 Sept 1987FINISHED 10 Sept 1987

PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
0.0	0.8		Overburden - casing.					ppm	ppm	ppm	ppm	ppb		
0.8	20.8		Distinctly laminated biotite - sericite - chlorite schist with minor elongated pink garnets in discrete bands. Note presence of minor irregular silica section with trace sulphides on the selvages and minor chlorite or mariposite.											
20.8	24.5		Distinctly laminated pink garnet, chlorite, biotite schist with bands and discontinuous section of grey silica increasing towards the base of the section. Note irregular sections of white to light grey silica with chlorite and trace sulphide are more common than in the previous section The base of this interval is gradually becoming more siliceous											
24.5	26.2		Light to medium grey quartz granulite iron formation - (massive silica) with trace mariposite and sulphides Some garnets are seen in chloritic sections. Silica is locally strongly fractured (shattered) with a chloritic matrix	24.5	26.2	1.7	3069	64	4	48	0.1	10		
26.2	28.6		laminated gray to brownish gray garnet, chlorite, biotite schist with up to 10% discontinuous grey silica sections. Silica content decreases towards the base of the section Garnets are abundant - they are all fine, pink and all elongated along the foliation											





# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-17  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au
								ppm	ppm	ppm	ppm	ppb
28.6	33.2		Interbanded garnet, chlorite schist and brecciated quartz iron formation with a massive pyrrhotite matrix - note some sulphide sections have a significant <del>have a significant</del> pyrite content. Interval has about 30% sulphides overall. Note that a fragment of chlorite garnet schist that has been surrounded by pyrrhotite has not been rotated.	28.6	30.2	1.6	3070	310	10	26	1.8	1
				30.2	31.7	1.5	3071	395	17	42	2.4	1
				31.7	33.2	1.5	3072	543	14	29	2.6	1
33.2	38.8		Distinctly banded grey to brownish grey to grey biotite, chlorite schist with very fine pink and brown garnets - This section looks identical to the interval between sulphide bands in 87A-16. Note minor pyrite on cleavage planes.									
38.8	42.1		Brecciated grey silica (quartz iron formation?) in a bleached? chlorite - biotite matrix - fragments of the chlorite biotite are in turn, seen in a massive pyrrhotite matrix. Chlorite and biotite are not strongly aligned with foliation. It's difficult to tell but there may have been more than one stage of brecciation in this interval. Whole interval is 50% sulphides.	38.8	40.5	1.7	3073	567	14	29	2.0	1
				40.5	42.1	1.6	3074	401	12	119	2.5	68
42.1	45.4		Laminated or partially laminated and partially brecciated chlorite, biotite, garnet schist with bleached brecciated chloritic sections with pyrrhotite in the matrix. Note the presence of minor lenses of grey silica. Transposed bedding and partings are much more strongly developed than in the previous section.	42.1	44.9	1.8	3075	133	11	622	0.9	1
				44.9	45.4	1.5	3076	182	10	441	1.5	2

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>87A-17</u>
CLAIM NAME _____
COMMENCED <u>9 Aug 1967</u>
FINISHED <u>10 Aug 1967</u>
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
45.4	51.9		Irregularly banded grey amorphous silica-grunerite iron with wispy biotite stringers. The base of the interval has decreased silica until it is a biotite schist with sections of grey silica.					ppm	ppm	ppm	ppm	ppb	
51.9	57.3		Biotite garnet schist with minor grey silica sections and trace sulphides associated with the silica - Garnets are large and well rounded and the unit is well laminated.										
57.3	60.1		Biotite chlorite schist with sections of brecciated siliceous material with minor sulphides. Grey silica is seen as irregular masses with rounded outlines - textures look like it has almost grown in place										
60.1	63.0		Distinctly laminated biotite schist - biotite sections are fairly coarse grained.										
63.0	69.5		Interbanded biotite-sericite-chlorite schist with minor siliceous sections.										
69.5	71.7		As in 63.0-69.5 with minor bleached chloritic brecciated sections with pyrrhotite in the matrix 5% sulphides.	69.5	71.7	2.2	3077	345	9	65	0.9	5	
71.7	73.9		Interbanded biotite and chlorite schist with minor irregularly shaped siliceous sections										
			EOH.										

David B. Kelly

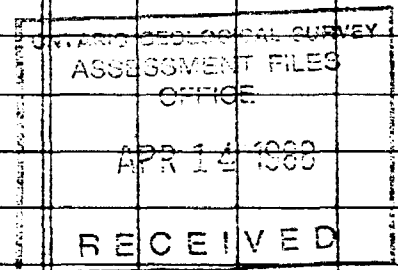
# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	1432N	FOOTAGE	AZIMUTH	DIP
EAST	27100 E	0	182	-45
ELEVATION		64.1	-	-42
LOGGED BY	D.B. Kilby	128.5	-	-34.5
DATE LOGGED	13.14 Sept 1987			
MAP REFERENCE NO.		METHOD:	Acid Test	

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arsene Lake - Arsene Grid  
 DRILLING CONTRACTOR Langley Drilling  
 ASSAYER Acme Analytical Labs  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-18  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 11 Sept 1987  
 FINISHED 14 Sept 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE GEOCHEM.				ASSAYS											
				FROM	TO	WIDTH	NO.												
0	11.2		Overburden - casing.																
11.2	16.5		Distinctly banded olive green chlorite schist and brownish grey biotite schist. with pink garnets confined to the chloritic sections. Minor light grey sericitic sections. Note traces of pyrite in discrete bands.																
16.5	41.4		Garnetiferous weakly or indistinctly banded biotite sericite schist. Large pink garnets are elongated and are confined to the biotite-rich sections. Small brown garnets are abundant in discrete bands. Chloritic sections are only a very minor component of this section.  Note two bands of brecciated black to dark grey quartz cemented by massive pyrrhotite and pyrite at 26.7 and 26.4 m. respectively. This mineralization look identical to that seen in 87A16 & 17.																
41.4	46.0		Interbanded chlorite schist and biotite-sericite schist similar to that seen in 16.5-41.4. Both rock types contain minor amounts of small elongated pink garnets.																
46.0	48.2		Sericite-biotite schist with minor elongated fine pink garnets throughout the section and large euhedral garnets in the biotite rich sections. Note 2-3% wispy pyrite grains that have been elongated by the predominant foliation.																



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-1B  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
48.2	60.7		Massive olive-green chlorite schist with a garnetiferous biotite rich section from 54.6 to 55.6. Only trace pyrite was seen on some cleavage planes. Note some irregular white to grey silica intervals with traces of pyrite near the base of the interval					ppm	ppm	ppm	ppm	ppb	
60.7	68.2		Garnet, biotite, sericite chlorite schist - abundant coarse, pink, euhedral garnets are concentrated in the chlorite and biotite rich sections. In some places it looks like the garnets have totally disrupted the alignment of the micas along the foliation planes.										
68.2	73.9		Sericite-biotite schist (predominantly sericite) with minor to trace mariposite or fuchsite. Trace elongated fine pink garnets in sericitic sections with coarser euhedral garnets in biotite-rich sections. Note light grey to white porphyroblasts at the base of the section - they are not silica, they show strain shadows and have micas wrapped around them. Note trace sulphides throughout the section										
73.9	82.0		Light-grey to white quartz pyrrhotite iron formation? Silica is very white and clean with pyrite and pyrrhotite filling in fractures and forming the matrix for brecciated sections 10% sulphides overall	73.9	76.0	2.1	3078	337	83	1620	10.9	9	
				76.0	78.0	2.0	3079	199	360	3579	12.4	48	
				78.0	80.0	2.0	3080	263	455	1614	16.9	68	
			Note trace chalcopyrite and minor sphalerite which surround or are a different fractures than the predominant pyrite and pyrrhotite. Possibly two stages of sulphide mineralization	80.0	82.0	2.0	3081	*244	214	8550	30.9	34	

COLLAR:

NORTH \_\_\_\_\_

EAST 2700 E

ELEVATION \_\_\_\_\_

LOGGED BY D.B. Kilby

DATE LOGGED \_\_\_\_\_

MAP REFERENCE NO. \_\_\_\_\_

HOLE SURVEY

FOOTAGE

AZIMUTH

DIP

METHOD: \_\_\_\_\_

## Diamond Drill Record

PAGE 3 OF 4

COMPANY NAME \_\_\_\_\_

PROPERTY NAME \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-18

CLAIM NAME \_\_\_\_\_

COMMENCED \_\_\_\_\_

FINISHED \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
82.0	85.4		Light grey to white sericite schist with trace elongated pyrite grains on foliation partings. Note presence of elongated light pink garnets - This interval looks identical to the sericitic sections between 68.2 and 79.3 Don't see any sphalerite or galena in this interval.											
85.4	90.8		Grey massive silica with 20% sulphide distributed in irregular wispy clots and stringers. Pyrite is the dominant sulphide species with lesser amounts of sphalerite and galena. Note minor sericite sections in this interval contain 10% sulphides and give the occasional sericitic parting.	85.4	87.4	2.0	3082	* 136	14910	32821	66.3	880		
				87.4	89.4	2.0	3083	* 254	5494	6136	54.4	580		
				89.4	90.8	1.4	3084	* 91	9039	3774	48.0	545		
90.8	91.7		Light to medium grey sericite schist with no pink garnets - 2% pyrite is seen in elongated blobs in discrete bands. It looks like pyrite was in beds that have been broken up during the shearing.	90.8	91.7	0.9	3085	31	363	646	2.9	7		
91.7	95.4		Massive grey quartz-grunerite-pyrite iron formation with intervals of sericite schist. Pyrite is again (20% sulphides) the main sulphide species with lesser amounts of sphalerite. Sulphides are coarse grained and occur as irregular clots and stringers. Sulphides are fairly evenly distributed between the sericite and silica sections. Note mariposite or fuchsinite in sericitic sections.	91.7	93.7	2.0	3086	* 81	7958	8173	87.7	720		
				93.7	95.4	1.7	3087	* 277	4861	7157	93.0	139		
95.4	96.4		Grey to brownish-grey biotite schist with abundant elongated	95.4	96.4	1.0	3088	42	59	625	1.1	8		

COLLAR:

NORTH 1732NEAST 27100E

ELEVATION \_\_\_\_\_

LOGGED BY D.B. Kilby

DATE LOGGED \_\_\_\_\_

MAP REFERENCE NO. \_\_\_\_\_

## HOLE SURVEY

FOOTAGE \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

METHOD: \_\_\_\_\_

## Diamond Drill Record

COMPANY NAME \_\_\_\_\_

PROPERTY NAME \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

PAGE 4 OF 4HOLE NO. 87A-18

CLAIM NAME \_\_\_\_\_

COMMENCED 11 Sept 1987FINISHED 19 Sept 1987

PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
			pink garnets and minor chlorite. Sulphides are confined to traces of pyrite.											
96.4	96.8		Brecciated quartz-grunerite iron formation with a pyrrhotite - pyrite matrix	96.4	96.8	0.4	3089	* 725	4481	9572	48.4	320		
96.8	99.0		Green to greenish-grey mariposite schist with 5% sulphides (pyrite sphalerite and galena) in thin bands along the foliation planes.	96.8	99.0	2.2	3090	* 156	4770	11028	42.4	220		
99.0	103.6		Green to greenish grey mariposite-sericite schist with minor mariposite. Some sections are fairly quartz rich and appear to have breccia textures. Whether this is an original texture or is a result of subsequent strain remains unclear.	99.0	99.9	0.9	3091	* 96	2030	3749	30.4	81		
				99.9	101.6	1.8	3147	137	2458	2060	19.2	127		
				101.6	103.5	1.9	3148	151	78	179	26	41		
103.6	122.5		Distinctly laminated grey to brownish grey biotite schist with some garnets near the top of the section and minor white vein quartz in discrete blobs throughout. Pyrite occurs as selvages around some of the quartz veins.											
122.5	126.3		Quartz-sericite schist with minor mariposite or fuchsite similar to that seen in 99.0-103.6. Quartz is a grey amorphous similar to the iron formation described above. Note small interval of iron formation at the base of the section	122.0	124.6	2.6	3149	201	29	86	0.9	34		
126	130.8		Banded biotite - sericite schist minor sulphides in the biotite sections and mariposite in the sericitic sections											
			EG-											

*D. B. Kilby*

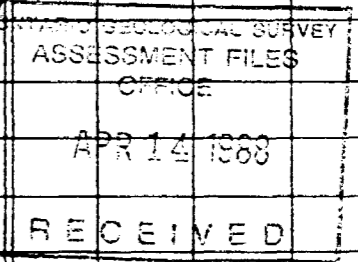
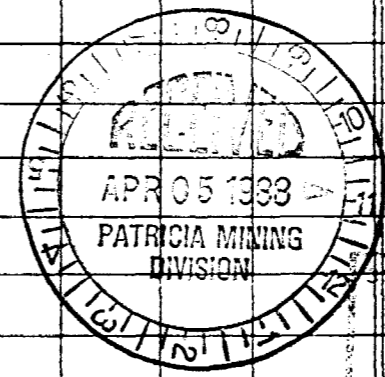
COLLAR:		HOLE SURVEY		
NORTH	1430 N	FOOTAGE	AZIMUTH	DIP
EAST	29+10 E	0	180°	-45°
ELEVATION		69.8	—	-39°
LOGGED BY	D.B. Kilby			
DATE LOGGED	18, 19 Sept. 1987			
MAP REFERENCE NO.		METHOD: Acid Test		

# Diamond Drill Record

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arseno Lake  
 DRILLING CONTRACTOR Langley Drilling  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-19  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 17 Sept. 1987  
 FINISHED 19 Sept 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
0	7.5		Overburden - casing											
7.5	15.8		Banded, predominantly olive-green chlorite-biotite schist. Note presence of minor round pink garnets. Some coarse grained chloritic bands have euhedral biotites that have grown oblique to the major foliation (subsequent to)											
15.8	23.2		Banded biotite-chlorite schist - similar to the unit above except that biotite schist sections predominate. Large elongated pink garnets are common but are not nearly as abundant as they are immediately above the quartz iron formation in holes further to the west.											
23.2	28.2		Quartz granerite-sulphide iron formation - approximately 5-10% sulphides overall. Pyrrhotite is the predominant sulphide species with lesser pyrite. Trace to minor sphalerite can be seen. All sulphides occur as irregular blobs and wisps and none appear to be aligned along the foliation. Pyrite and pyrrhotite are intergrown. Sphalerite occurs at the margin of the sulphide grains or as individual grains. Get increasing sulphide content towards the base of the section	23.2	25.2	2.0	3092	324	325	740	20.7	7		
				25.2	26.7	1.5	3093	510	79	723	10.8	12		
				26.7	28.2	1.5	3094	957	414	1211	15.4	21		
28.2	33.3		Quartz exhalite breccia with up to 70% matrix. Fragments are angular to subrounded and may be up to 0.4 m in diameter. Matrix is massive sulphide material	28.2	29.7	1.5	3095	* 1011	1578	93008	52.7	420		
				29.7	31.3	1.6	3096	* 1209	2199	71,767	58.5	127		
				31.3	33.3	2.0	3097	* 1544	2263	55042	55.6	76		



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 07A-19  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
			Main sulphide species is pyrrhotite (~60%) intergrown with red-brown sphalerite (30% approx.) with minor pyrite and traces of chalcopyrite and galena. (Looks like this section will run a very good grade in zinc.)											
33.3	34.6		Massive grey to medium grey quartz exhalite with brecciated sections that show a sulphide matrix similar in composition to that seen in the previous interval except that chalcopyrite seems to be slightly more common than above. Approximately 10% sulphides in breccia sections and irregular wisps and clots.	33.3	34.8	1.5	3098	*1015	901	15603	19.9	41		
				34.8	36.3	1.5	3099	*1848	4750	37620	42.3	79		
				36.3	37.8	1.5	3100	*1351	391	16369	8.7	105		
				37.8	39.6	1.8	3101	*1021	408	16507	12.9	28		
39.6	40.0		Brecciated quartz exhalite with 60-70% matrix. Matrix is massive sulphides predominantly pyrrhotite (60%) & sphalerite (20-30%) with minor pyrite and trace galena.	39.6	40.0	0.4	3102	*1431	1745	51237	52.5	725		
40.0	42.9		Sericite, biotite pink garnet schist with minor sulphides approx. 5%. Garnet content increases towards the base of the section. This material looks like the garnet rich material encountered on the north side of the iron formation further to the west.	40.0	41.5	1.5	3103	210	1136	864	9.0	54		
				41.5	42.9	1.4	3104	425	1409	826	10.0	7		
42.9	46.6		Brecciated quartz exhalite with a massive sulphide matrix (20% sulphides) Main sulphide species is pyrrhotite with lesser amounts of sphalerite and minor pyrite - sphalerite content of the sulphides appears to be less than higher in the hole.	42.9	44.7	1.8	3105	*437	2230	29730	22.6	51		
				44.7	46.6	1.9	3106	*733	165	47880	8.3	18		





# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. E7A-19  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
			59.1 4cm section of massive pyrrhotite with grains of arsenopyrite										
63.7	69.8		Irregularly banded quartz-chlorite-biotite schist. Quartz occurs as grains in chloritic sections and as irregular bands and blobs. Some chloritic bands have abundant fine, pink elongated garnets. Only trace sulphides.										
			EOH										

*David B. Kelly*

COLLAR:

		HOLE SURVEY		
NORTH		FOOTAGE	AZIMUTH	DIP
1430 N		0	180	-65
EAST	29+10 E	69.8	-	-59
ELEVATION		105.8	-	-57.5
LOGGED BY	D.B. Kilby			
DATE LOGGED	20, 21, 22 Sept. 87			
MAP REFERENCE NO.		METHOD:		

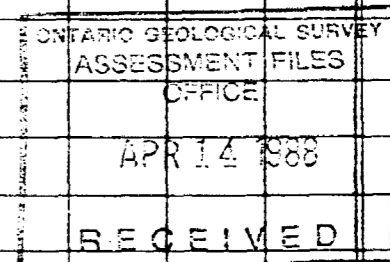
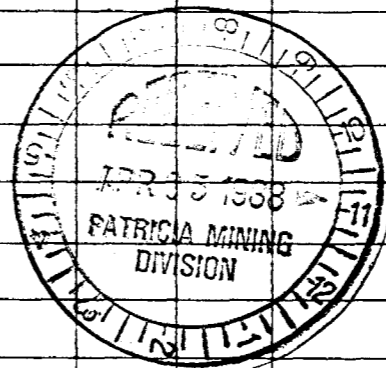
## Diamond Drill Record

PAGE 1 OF 5

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arsena Lake  
 DRILLING CONTRACTOR Langley Drilling  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-20  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 19 Sept 1987  
 FINISHED 22 Sept 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
0	5.4		Overburden - casing.											
5.4	17.3		Nearly massive (only weakly banded) olive-green chlorite schist. Note minor sections with euhedral coarse biotite crystals.											
17.3	33.7		Coarsely interbanded olive green chlorite schist and brownish grey biotite schist. Biotitic sections host some elongated large pink garnets. Large chloritic and biotitic sections are themselves distinctly banded. 19.4-19.5 grey silica lense with pyrite and pyrrhotite mineralization and minor coarse galena grains. 27.0-27.05 coarse grained sulphide lense with pyrite, pyrrhotite and red-brown sphalerite. Note that garnet content increases towards the base of the section although garnets are not as abundant as they have been on some of the more western sections.											
33.7	43.6		Massive light grey quartz-grunerite iron formation with less than 5% finely disseminated magnetite, pyrrhotite, pyrite and sphalerite. Note minor pyrrhotite in irregular elongated blobs that are oblique to the foliation. <u>Fairly low sulphide content overall for this section.</u>	33.7	35.2	1.5	3114	165	163	2259	3.8	24		
				35.2	36.7	1.5	3115	425	87	463	3.4	24		
				36.7	38.2	1.5	3116	73	70	207	1.2	1		
				38.2	39.7	1.5	3117	115	55	148	1.5	1		
				39.7	41.2	1.5	3118	140	77	660	1.4	1		
				41.2	42.7	1.5	3119	586	256	1453	6.8	47		
				42.7	43.6	0.9	3120	1667	430	2100	14.0	14		



# Diamond Drill Record

COLLAR:

NORTH \_\_\_\_\_

EAST \_\_\_\_\_

ELEVATION \_\_\_\_\_

LOGGED BY \_\_\_\_\_

DATE LOGGED \_\_\_\_\_

MAP REFERENCE NO. \_\_\_\_\_

HOLE SURVEY

FOOTAGE

AZIMUTH

DIP

METHOD:

COMPANY NAME \_\_\_\_\_

PROPERTY NAME \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-20

CLAIM NAME \_\_\_\_\_

COMMENCED \_\_\_\_\_

FINISHED \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				Cu	Pb	Zn	Ag	Au
				FROM	TO	WIDTH	NO.	ppm	ppm	ppm	ppm	ppb.
43.6	44.1		Massive pyrrhotite with minor sphalerite and large euhedral pyrite grains up to 2cm long. Note approximately 20% of this interval is angular silica fragments. Sphalerite and pyrite appear to have grown as large late grains in the anhedral pyrrhotite	43.6	44.1	0.5	3121	* 860	1529	27549	53.1	260
44.1	54.9		Brecciated silica exhalite with a matrix of massive sulphides (20-30% matrix overall). Predominant sulphide species is pyrrhotite with minor sphalerite intergrown and on grain boundaries. Chalcopyrite is found in late crosscutting veins and lenses and grain boundaries. Pyrite forms large subhedral grains in the pyrrhotite matrix	44.1	45.6	1.5	3122	* 1920	635	4520	26.9	53
				45.6	47.1	1.5	3123	* 1916	750	16145	38.4	124
				47.1	48.6	1.5	3124	* 705	957	8453	39.5	66
				48.6	50.1	1.5	3125	1032	339	644	11.1	21
				50.1	51.6	1.5	3126	* 1461	460	39300	19.3	82
				51.6	53.1	1.5	3127	* 1163	874	72309	33.5	23
54.9	55.5		Massive sulphides with 20% angular fragments of silica. Sulphides are 60-70% euhedral sphalerite with pyrrhotite matrix. Pyrite is again coarse grains in a sulphide matrix	53.1	54.9	1.8	3128	* 2045	954	7600	23.9	45
				54.9	55.5	0.6	3129	* 924	10973	99999	137.0	340
55.5	61.2		Brecciated silica exhalite similar to that seen in 44.1-55.9 except that sulphide matrix content is slightly less (approximately 20% overall. Predominant sulphide species is pyrrhotite with coarse pyrite and only trace to minor sphalerite in this interval. Trace late stage chalcopyrite was noted.	55.5	57.0	1.5	3130	1107	426	9543	12.1	42
				57.0	58.5	1.5	3131	1089	245	3308	10.2	50
				58.5	60.0	1.5	3132	1294	318	7485	17.0	57
				60.0	61.2	1.2	3133	* 1522	1030	6449	52.1	655

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>87A-20</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au
								ppm	ppm	ppm	ppm	ppb
61.2	63.8		Banded biotite-quartz-garnet schist with minor sulphide disseminations and discontinuous bands. Pyrite and chalcopyrite are the two main sulphide species. Quartz is seen as grains and irregular blobs at various places in the interval.	61.2	63.8	2.6	3134	180	399	771	4.6	26
63.8	64.8		Brecciated silica exhalite with massive sulphide matrix. (30-40% matrix) Main sulphide species is pyrrhotite with fine intergrowths of red-brown sphalerite. Pyrite is again seen as large anhedral composite grains in the sulphide matrix.	63.8	64.8	1.0	3135	*506	5887	32207	78.3	91
64.8	66.3		Massive grey translucent silica with 10% irregular wisps and open space fillings of sulphides. Main sulphide species are pyrrhotite and sphalerite with lesser pyrite. Pyrrhotite and sphalerite are closely related and the pyrite tends to occur in separate cavities.	64.8	66.3	1.5	3136	*265	175	17117	5.2	21
66.3	70.3		Brecciated grey silica exhalite with a massive sulphide matrix (20% overall sulphides) Again the main sulphide species is pyrrhotite with lesser sphalerite and pyrite in large anhedral grains. Very similar to some of the previous sections.	66.3	68.3	2.0	3137	*620	459	46910	16.2	45
				68.3	70.3	2.0	3138	*469	1055	53,875	15.9	146





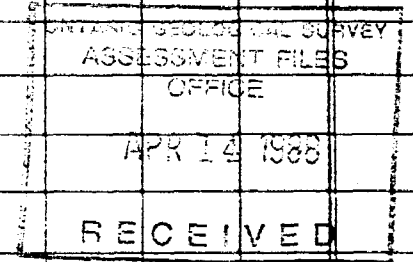
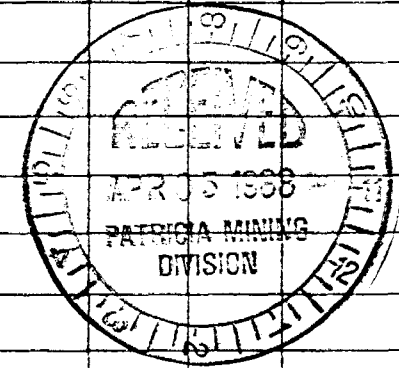
# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	1430 N	FOOTAGE	AZIMUTH	DIP
EAST	31+00 E	0	180°	-45°
ELEVATION		60.7	-	-42
LOGGED BY	D.B. Kilby	118.6		-40
DATE LOGGED	24, 25 Sept 1987			
MAP REFERENCE NO.		METHOD: Acid Test		

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arsene Lake  
 DRILLING CONTRACTOR Langley Drilling, Brampton Ontario  
 ASSAYER Acme Analytical Laboratories  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87 A-21  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 23 Sept, 1987  
 FINISHED 26 Sept 1987  
 PROJECT NO \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
0	1.7		Overburden - casing.										
1.7	23.6		Massive indistinctly laminated, olive-green, chlorite schist with wispy sections of euhedral biotite in a coarse grained chlorite matrix. Trace large round pink garnets and trace quartz veining.										
23.6	27.2		Coarsely interbanded olive-green chlorite and brownish-grey biotite schists. (Possible transition zone between andic volcanics and overlying pelitic sediments)										
27.2	30.0		Distinctly banded biotite, garnet, silica schist with minor sections of olive-green chlorite schist. Less than 5% sulphides are found within and as selvages around quartz bands and irregular lenses. Predominant sulphide is pyrite with lesser pyrrhotite and chalcopyrite. Traces of sphalerite are seen in one 10 cm brecciated silica band.										
30.0	42.4		Coarsely interbanded olive-green chlorite and brownish-grey biotite schist with trace elongated pink garnets and minor coarse euhedral chlorite sections. Very little to no visible sulphides.										
42.4	44.7		As in 30.0 to 42.4 except that this interval contains abundant large euhedral pink garnets. Pyrrhotite is seen as the matrix in a 2 cm breccia section. Silica is present in irregular bands and breccia sections.										





# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-21  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
				FROM	TO	WIDTH	NO.					
44.7	47.6		Massive light grey to grey silica exhalite with approximately 5% pyrrhotite in irregular clots, wisps and brecciated sections. Note minor pyrite forming large grains in the pyrrhotite matrix	44.7	46.2	1.5	3159	189	171	691	3.1	20
				46.2	47.6	1.4	3160	132	13	180	2.5	24
47.6	48.7		Massive, non-laminated olive-green chlorite schist with trace sulphides and minor discontinuous silica sections.									
48.7	55.8		Grey to medium grey talc schist ( <u>ultra basic</u> ) with only trace sulphides. to no sulphides at all.									
55.8	59.0		Distinctly finely banded biotite, silica, chlorite schist with minor elongated pink garnets in discrete bands. Grey silica is seen in discontinuous or brecciated bands throughout the section									
59.0	61.4		Massive gray to light grey silica exhalite with 5% or less pyrrhotite in discontinuous irregular lenses and wisps. Lesser pyrite was seen with traces of mariposite.	59.0	60.2	1.2	3150	134	449	903	6.8	39
				60.2	61.4	1.2	3151	168	726	2647	8.4	28
61.4	64.6		Sericite, biotite garnet schist distinctly banded (10 cm bands) schist unit with cubedral pink garnets concentrated in the biotite-rich sections.									
64	66.5		Grey to medium grey silica exhalite 10-15% sulphides on thin fractures and as irregular open space fillings. Fine grained pyrrhotite is the major sulphide species with coarse grained	64.6	65.5	0.9	3152	540	741	670	21.8	66
				65.5	66.5	1.0	3153	197	670	7958	5.8	116



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-21  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
83.2	89.7		Massive grey irregularly banded biotite schist with coarse euhedral biotites in discrete bands.										
89.7	92.5		Light grey to white sericite-silica schist. Silica is seen in bands and blobs with diffuse boundaries. Possibly the result of some sort silicification. Note minor light pink garnets.										
92.5	103.3		Massive irregularly banded biotite schist with occasional sericite schist sections similar to those described in 89.7-92.5. Occasional chlorite silica sections contain traces of sulphides.										
103.3	105.3		Light grey to white sericite-silica schist as in 89.7-92.5										
105.3	115.0		Finely banded sericite, chlorite biotite silica schist. Minor small pink garnets in biotite-rich bands.										
115.8	118.6		Grey to medium grey biotite schist with minor silica and bands of euhedral biotites										
			EOH										

*David B. Kelly*

## COLLAR:

		HOLE SURVEY		
NORTH	1+20N	FOOTAGE	AZIMUTH	DIP
EAST	35+03E	0	180	-45°
ELEVATION		60.7	-	-39°
LOGGED BY	D.B. Kilby	124.7	-	-34°
DATE LOGGED	26 <sup>th</sup> Sept 1987			
MAP REFERENCE NO.		METHOD: Acid Test		

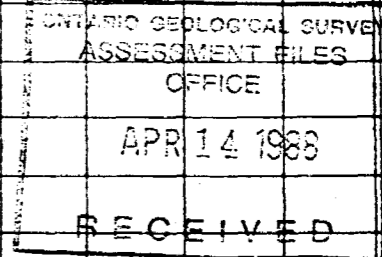
## Diamond Drill Record

PAGE 1 OF 5

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arseno Lake  
 DRILLING CONTRACTOR Langley Drilling - Brampton, Ontario  
 ASSAYER Acme Analytical Laboratories  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-22  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 25 Sept 1987  
 FINISHED 27 Sept 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
0	2.4		Casing - overburden.					ppm	ppm	ppm	ppm	ppb	
2.4	4.7		Finely and distinctly banded chlorite-biotite schist with 10% elongated pink garnets.										
4.7	7.6		Grey to medium grey sericite-biotite schist with minor blue cordierite grains and 5% pyrite in discontinuous bands and as fine disseminations. Biotite is seen in thin bands and irregular wisps. Core has a blotchy grey appearance possibly due to alteration.	4.7	6.2	1.5	3161	29	62	48	0.5	1	
				6.2	7.6	1.4	3162	23	49	60	0.7	7	
7.6	9.6		Biotite-garnet schist (abundant, elongated pink garnets) with minor sericite schist interbands and minor round blue cordierite grains.										
			8.5-8.9 as above with 1 to 2 cm beds of massive sulphides including pyrrhotite, sphalerite, pyrite and galena.										
9.6	13.1		Sericite-biotite-garnet schist with minor blue cordierite grains. Biotite content increases towards the base of the section until it might be called a biotite schist. Note minor chloritic sections from 11.6 to 12.0 metres.										
13.1	14.6		Silica-chlorite-garnet schist with minor pyrrhotite, pyrite sphalerite, and galena filling fractures and open spaces in the quartz. Silica is seen and massive grey sections up to 15 cm thick and as thin discontinuous bands that are associated	13.1	14.6	1.5	3163	689	6885	6015	112.0	275	



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 07A-22  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS										
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au						
			with sulphides.															
14.6	21.9		Light to medium grey sericite-cordierite-garnet schist with biotite occurring in irregular wisps and discontinuous bands. Blue cordierite grains have remained fairly well rounded while the pink garnets have been elongated. Note traces of individual discontinuous sulphide-rich bands.															
21.9	32.2		Massive, olive-green chlorite schist with minor scattered pink garnets and increasing biotite content towards the base of the section. Coarse euhedral biotites are also seen in discrete bands in the chlorite schist.															
32.2	38.6		Banded biotite-chlorite-garnet schist. Pink garnets are abundant in a number of sections throughout the interval.															
38.6	40.2		Massive sulphides 50% pyrrhotite 50% sphalerite with approximately 30% fragments (angular) of light grey silica exhalite. Looks like very good zinc grade and textures similar to those seen in previous holes. Note that 40.0-40.2 is nearly massive pyrite with only minor sphalerite.	38.6	40.2	1.6	3164	1330	5936	53,808	64.5	880						
40.2	43.8		Interbanded sulphides (30%) and light grey silica exhalite with some brecciated sections. Predominant sulphide species is pyrrhotite with pyrite and arsenopyrite forming coarse grained intergrowths. Sphalerite is present as a minor constituent.	40.2	42.0	1.8	3165	672	89	3627	11.1	71						
				42.0	43.8	1.8	3166	789	1655	5696	23.4	128						



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87 A-22  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
59.3	60.5		Sericite - biotite garnet schist. Minor silica is seen and pink garnets are common but no cordierite grains were seen.					ppm	ppm	ppm	ppm	ppb	
60.5	62.7		Finely banded chlorite - biotite sericite schist with no visible garnets or cordierite. Note minor quartz in discontinuous lenses.										
62.7	81.2		Sericite - biotite - cordierite schist with trace sulphides. Cordierite occurs as round blue grains with apparent strain shadows. Biotite occurs in discontinuous wispy bands. No garnets are present except in one short interval.										
81.2	85.1		Interbanded chlorite - garnet schist and sericite - cordierite - biotite schist. Pink garnets are very large (up to 3 cm in diameter) and are well elongated. Note minor irregular blobs or sections of grey silica with no associated sulphides.										
85.1	86.3		Sericite - cordierite - biotite schist. Biotite occurs as irregular wisps and as strain shadows around the cordierite grains.										
86.3	88.9		Garnet - chlorite schist with minor grey silica bands. Abundant pink garnets.										
88.9	95.7		Quartz - sericite - biotite schist with approximately 5% pyrite in wisps and discontinuous bands. Minor to trace mariposite or fuchsite is seen throughout the section. Biotite is seen in fine wispy clots.	88.6	90.4	1.5	3171	136	104	365	16.3	62	
				90.4	91.6	1.5	3172	147	77	393	1.9	12	
				91.6	93.4	1.5	3173	201	26	47	1.6	51	
				93.4	94.6	1.5	3174	180	22	50	1.4	46	





## COLLAR:

NORTH 1410 N  
 EAST 43+50 E  
 ELEVATION \_\_\_\_\_  
 LOGGED BY D.B. Kirby  
 DATE LOGGED 9 Oct. 1987  
 MAP REFERENCE NO. \_\_\_\_\_

## HOLE SURVEY

FOOTAGE	AZIMUTH	DIP
<u>0</u>	<u>180°</u>	<u>-45°</u>
<u>60.7</u>	<u>—</u>	<u>-40°</u>
<u>136.9</u>	<u>—</u>	<u>-39°</u>
METHOD: <u>Acid Test</u>		

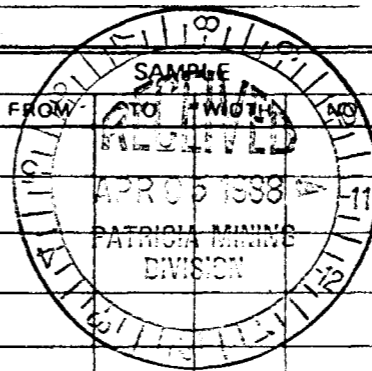
## Diamond Drill Record

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arseno Lake  
 DRILLING CONTRACTOR Langley Drilling, Brampton Ontario  
 ASSAYER Acme Analytical Laboratory  
 PURPOSE OF HOLE \_\_\_\_\_

PAGE 1 OF 4

HOLE NO. 87 A-23  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 3 October 1987  
 FINISHED 6 October 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE					ASSAYS						
				FROM	TO	WIDTH	NO		Cu	Pb	Zn	Ag	Au		
											ppm	ppm	ppm	ppm	ppb
0	2.44		Casing - Overburden												
2.4	34.8		Massive olive-green chlorite schist with minor biotitic sections and some hornblende bearing intervals. Micaceous minerals are fairly strongly aligned but the hornblende are oriented randomly throughout some sections of the core.												
34.8	38.9		Distinctly banded chlorite-garnet schist with minor sulphide-bearing grey silica sections. Sulphides are restricted to pyrite and pyrrhotite. Pink garnets are large and elongated while fine brown garnets are abundant in discrete bands.	35.8	37.4	1.6	3177		169	16	78	1.3	215		
				37.4	38.9	1.5	3178		183	16	156	1.3	73		
38.9	43.8		Massive light grey to white silica exhalite with less than 5% sulphides. Main sulphide species is pyrrhotite with lesser pyrite trace sphalerite and traces of fine acicular arsenopyrite crystals. This section is massive with very few open spaces to be filled with sulphides.	38.9	40.4	1.5	3179		02	202	1164	9.7	39		
				40.4	41.9	1.5	3180		9	10	220	1.7	13		
				41.9	43.8	1.9	3181		9	7	61	0.8	8		
43.8	45.9		Distinctly banded silica-chlorite schist with 30% brecciated sections. Breccias are cemented by pyrrhotite with much less pyrite. Chloritic sections appear to have been brecciated preferentially.	43.8	45.3	1.5	3182		226	24	164	5.0	6		
				45.3	45.9	0.6	3183		82	14	81	1.8	3		
45.9	52.9		Grey to brownish grey indistinctly banded cordierite-biotite schist. Cordierite is in fine round to partially elongated white to bluish-white grains throughout the interval.												



ONTARIO DEPARTMENT OF MINES  
 ASSESSMENT FILES  
 OFFICE  
 APR 14 1988  
 RECEIVED

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-23  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au
52.9	54.4		Silica-sericite-biotite schist with approximately 5% sulphides overall. Minor chlorite is seen in distinct bands. Sulphides are almost completely composed of pyrrhotite with minor pyrite. Sulphides form the matrix of brecciated silica sections.	52.9	54.4	1.5	3184	223	12	133	2.2	7
54.4	65.4		Grey to medium grey biotite schist with minor brecciated silica sections with pyrrhotite and pyrite in the matrix. Trace sulphides are seen on cleavage faces in the biotitic sections of the interval. Some granurite was noted in 0.2 metre silica band at 59.1 metres. Note some cordierite-rich sections.									
65.4	66.2		Light grey to white sericite schist with light pink garnets and traces of what appears to be reddish sphalerite. Note minor grey silica intervals.	65.4	66.2	0.8	3185	3	9	48	0.1	2
66.2	81.4		Distinctly banded biotite-chlorite schist with minor intervals of grey silica - trace to no sulphides overall. Sulphides are only seen as a matrix in silica breccia zones.									
81.4	85.1		Biotite-cordierite? schist with 1-2% discontinuous fine pyrite bands. Mineral tentatively called cordierite occurs as fine white to bluish white round to partially elongated grains throughout the interval. (20-30% of is section is probably cordierite.)	81.4	82.9	1.5	3186	106	13	66	0.3	8
				82.9	84.4	1.5	3187	134	11	67	0.7	7
				84.4	85.1	0.7	3188	104	14	90	0.2	1

COLLAR:

NORTH \_\_\_\_\_

EAST \_\_\_\_\_

ELEVATION \_\_\_\_\_

LOGGED BY \_\_\_\_\_

DATE LOGGED \_\_\_\_\_

MAP REFERENCE NO. \_\_\_\_\_

HOLE SURVEY

FOOTAGE

AZIMUTH

DIP

METHOD:

## Diamond Drill Record

PAGE 3 of 4

COMPANY NAME \_\_\_\_\_

PROPERTY NAME \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 87A-23

CLAIM NAME \_\_\_\_\_

COMMENCED \_\_\_\_\_

FINISHED \_\_\_\_\_

PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE									
				FROM	TO	WIDTH	NO.						
85.1	89.0		Silica - biotite schist with minor sericitic bands. Silica is grey finely granular material that has been partially brecciated and cemented by pyrrhotite. Interval is probably 40% silica and approximately 5% sulphide. This section looks like a distal facies of the more massive silica exhalite	85.1	86.6	1.5	3189	198	15	87	0.5	12	
				86.6	88.1	1.5	3190	183	6	81	0.4	9	
				88.1	89.0	0.9	3191	197	10	116	0.4	18	
89.0	89.5		Light grey to white sericite schist with light pink garnets and minor medium to dark grey biotite wisps.	89.0	89.5	0.5	3192	13	14	95	0.2	1	
89.5	92.0		Grey to medium grey distinctly banded biotite silica schist with trace sulphides. Sulphides are again concentrated around and within silica bands. Note the presence of trace pink garnets in this interval.	89.5	91.0	1.5	3193	168	7	113	0.2	14	
				91.0	92.0	1.0	3194	141	15	114	0.7	1	
92.0	93.7		Silica - sericite schist with minor pyrite in discontinuous bands. Note the presence of a coarse grained recrystallized diorite? dike (0.2 metres thick)	92.0	93.7	1.7	3195	162	10	93	0.8	35	
93.7	103.3		Distinctly banded chlorite - silica schist with minor to trace pink garnets in distinct bands. No sulphides were seen in this interval.										
103.3	105.6		Grey to light grey sugary textured indistinctly banded silica with minor granovite. Some chloritic sections contain light pink garnets. Only trace sulphides.	103.3	105.6	2.3	3196	38	3	10	0.8	3	



# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	0190N	FOOTAGE	AZIMUTH	DIP
EAST	49+00E	0	180°	-45°
ELEVATION		61.0	-	-43°
LOGGED BY	D.B. Kilby	130.8	-	-36°
DATE LOGGED	11, 13 October, 1987			
MAP REFERENCE NO.		METHOD: Acid Test		

COMPANY NAME Northern Dynasty Explorations  
 PROPERTY NAME Arsena Lake  
 DRILLING CONTRACTOR Langley Drilling, Brampton Ontario  
 ASSAYER Acme Analytical Laboratories Ltd  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. 07A-24  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED 8 October, 1987  
 FINISHED 13 October 1987  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.						
0	1.5		Overburden - casing.										
1.5	7.0		Interbanded chlorite and biotite sericite schist with fine and coarse pink garnets and trace sulphides on cleavage surfaces. Fine garnets are common throughout the section. Coarse garnets are restricted to thin black biotite-rich bands.										
7.0	12.7		Distinctly banded gray silica and garnet-rich chlorite schist. <u>Granerite</u> is common within and adjacent to the silica bands. Sulphides only trace over the entire interval. Those that are present are open space fillings in a couple of thick silica bands. Some open spaces have been filled by black euhedral biotites that have a radiating crystal habit on the surface of the core.										
12.7	16.0		Banded biotite-chlorite schist with minor interbanded gray silica. Trace amounts of large pink garnets were noted in the biotite rich sections.										
16.0	19.9		Interbanded biotite, silica and sericite schist with minor sections of coarse garnet-rich chlorite schist. Unit has almost pervasive fine brown garnets.										
			18.0-18.3 silica cemented breccia with trace fuchsite or mariposite in the matrix										
19.0	24.6		Interbanded <u>biotite</u> and chlorite schist with fine brown garnets in the biotitic sections and trace pink garnets in the chloritic sections.										



ONTARIO GEOLOGICAL SURVEY  
 ASSESSMENT FILES  
 OFFICE  
 APR 14 1988  
 RECEIVED

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>B7A-24</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
			Trace pyrite is seen in and adjacent to the occasional silica band					ppm	ppm	ppm	ppm	ppb		
24.6	25.1		Chlorite-grunerite-garnet schist. Coarse pink garnets surrounded by what appears to be grunerite in an olive-green chlorite schist interval.											
25.1	36.0		Finely banded biotite schist fine brown garnets and sections of pink garnet-rich chlorite schist. Some broken silica bands are seen in the chlorite-rich sections.											
36.0	47.7		Nearly massive grey to brownish-grey biotite with minor pyrrhotite-bearing grey silica sections. Sulphides are open space fillings within the silica. Some open spaces have been filled by black cubed biotite - (secondary biotite?) Silica content increases towards the base of the interval.	45.6	47.7	2.1	3197	200	11	122	0.4	19		
47.7	55.1		Indistinctly banded to massive grey silica-sericite schist. Silica has a granular to fine breccia texture with a greenish sericite matrix. Probably 5% pyrrhotite overall. Sulphides occur as the matrix in some breccia sections and as thin discontinuous wisps and bands throughout the interval. Sulphide wisps are aligned along the pervasive cleavage. Trace malaposite was noted. The upper contact of the unit is a 2 cm thick coarse silica breccia cemented by pyrrhotite. Note trace chalcopyrite.	47.7	49.2	1.5	3198	149	19	97	1.2	5		
				49.2	50.7	1.5	3199	81	35	40	0.9	1		
				50.7	52.2	1.5	3200	67	21	42	0.7	13		
				52.2	53.7	1.5	3201	50	15	28	0.4	1		
				53.7	55.1	1.4	3202	56	8	31	0.8	1		



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. B7A-24  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au		
80.6	98.9		Interbanded <u>biotite</u> , <u>silica-chlorite</u> and <u>silica sericite</u> schist. Biotite schist predominates. Silica-chlorite sections show breccia textures with no sulphides. Silica-sericite schist is a relatively thick (4 to 6 cm) discrete interval.											
98.9	100.8		<u>Sericite-silica-chlorite</u> schist with massive <u>pyrrhotite</u> in a brecciated section near the top of the interval and minor round pink garnets. Note presence of fine brown garnets towards the base of the section.	98.9	100.8	1.9	3207	140	10	70	0.7	5		
100.8	106.5		Massive, olive-green chlorite schist with minor coarse chlorite grains.											
106.5	112.5		Interbanded light olive green chlorite schist with light grey to white sericite schist. Sericitic section contain fine irregular wisps of biotite.											
112.5	122.0		Indistinctly banded sericite and biotite schist with large elongated pink garnets and minor cordierite. Trace pyrrhotite.											
122.0	130.8		Irregularly banded chlorite-biotite schist with minor discontinuous sericite bands and trace pyrrhotite. Looks like a conglomerate unit. Note trace sphalerite in a quartz sweat.											
			FOH											

Daniel B. Kelly



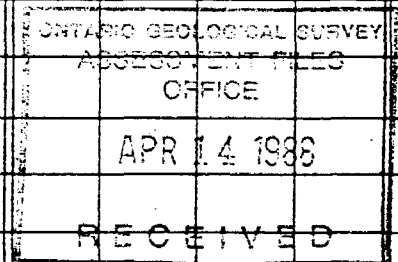
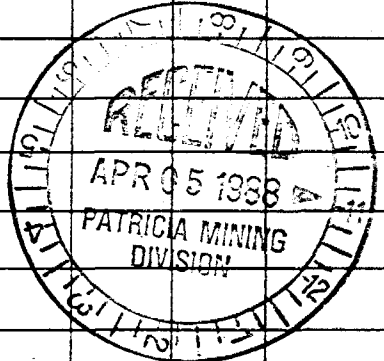
# Diamond Drill Record

COLLAR:		HOLE SURVEY		
NORTH	<u>1+40N</u>	<del>POSSIBLE</del>	AZIMUTH	DIP
EAST	<u>27+00E</u>	<u>0.0</u>	<u>182°</u>	<u>-60</u>
ELEVATION		<u>60.7</u>		<u>-55</u>
LOGGED BY	<u>G. Gorzynski</u>	<u>121.6</u>		<u>-51</u>
DATE LOGGED	<u>OCT. 17-20, 1987</u>	<u>197.8</u>		<u>-42</u>
MAP REFERENCE NO.		METHOD: <u>ACID</u>		

COMPANY NAME NORTHERN DYNASTY EXPLORATIONS LTD  
 PROPERTY NAME ARSENAL LAKE PROPERTY  
 DRILLING CONTRACTOR LANGLEY DRILLING  
 ASSAYER ACME ANALYTICAL LABORATORIES LTD / VANCOUVER, BC  
 PURPOSE OF HOLE To TEST DEPTH EXTENSION OF MINERALIZATION  
ENCOUNTERED IN DDH-A-87-18

HOLE NO.	<u>A-87-25</u>
CLAIM NAME	
COMMENCED	<u>OCT. 14, 1987</u>
FINISHED	<u>OCT. 19, 1987</u>
PROJECT NO.	

FROM (m)	TO (m)	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.							
<u>0.0</u>	<u>10.0</u>		<u>OVERBURDEN: PINK GRANITE, GREY GNEISS AND BASALT</u> <u>COBBLES RECOVERED.</u>											
<u>10.0</u>	<u>20.1</u>		<u>BASALT: MEDIUM GREEN, PREDOMINANTLY CHLORITE AND</u> <u>WHITE FELDSPAR, MED GRAINED, MASSIVE TO</u> <u>MOD. FOLIATED AT 30° TO C.A.; BASAL</u> <u>CONTACT GRADATIONAL OVER 20cm</u> <u>MINERALIZATION: PYRRHOTITE-Tr-DISS.</u>											
<u>20.1</u>	<u>41.0</u>		<u>CHLORITE-BIOTITE SCHIST: WISPY INTERBANDS</u> <u>(0.1-4 cm wide) OF CHLORITE-FELDSPAR-QZ AND</u> <u>BIOTITE-FELDSPAR-QZ SCHIST; MED. GREEN AND BROWNISH</u> <u>GREY BANDS; FOLIATION AT 40° TO C.A.; BASAL</u> <u>CONTACT GRADATIONAL OVER 30cm.</u>											
			<u>23.6-41.0 : ± 5% PINK GARNETS ± 3mm DIA; GARNETS BOTH OVERGROW</u> <u>AND ELONGATED ALONG SCHISTOSITY;</u>											



# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM (m)	TO (m)	RECOVY	DESCRIPTION	SAMPLE				ASSAYS						
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb		
			MINERALIZATION:											
			33.1-33.7 / 34.3-35.1 / 37.4-37.6: 30% RAGGED AND AND 10% CHLORITE LENSES BRECCIATED TOURMALINE MASSES IN WHITE QUARTZ VEINS APPROX. PARALLEL TO FOLIATION; 7% PYRRHOTITE AND 1% PYRITE MAINLY FILLING FRACTURES IN TOURMALINE AND CHLORITE;	34.3	35.1	0.8	3208	186	27	111	2.1	14		
			40.2-40.8: PYRRHOTITE (5%) + PYRITE (1%) - DISSEMINATED AND ASSOCIATED WITH G2-TOURMALINE VEIN;	40.2	40.8	0.6	3209	336	26	76	3.7	18		
41.0	48.3		SERECITE SCHIST: LIGHT GREY TO LIGHT GREEN; MATRIX IS PREDOMINANTLY FELDSPAR?/CORDIERITE?; FOLIATION AT 50 TO C.A.; BASAL CONTACT GRADATIONAL OVER 5cm - FOLIATION AT CONTACT IS 15° TO C.A.;											
			44.7-47.8: 20% WISPY INTERBANDS (≤2cm WIDE) OF ZIRCON SCHIST WITH ≤5% PINK GARNETS;											
			MINERALIZATION:											
			42.0-44.4: LARGE WHITE QUARTZ VEIN WITH 30% BRECCIATED MASSES OF TOURMALINE; PYRRHOTITE (6%) + PYRITE (1%) MAINLY DISS. AND FRACTURE-FILL IN TOURMALINE; CONTACTS OF VEIN APPROX. PARALLEL FOLIATION;	42.0	44.4	2.4	3210	471	4	4	5.2	34		

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>A-87-25</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				Cu	Pb	Zn	Ag	Au
				FROM	TO	WIDTH	NO.	ppm	ppm	ppm	ppm	ppb
			44.7-45.6: PYRRHOTITE (5%) + PYRITE (1%) + SPHALERITE (1%) + GALENA (<<1%); AS CLOTS (≈2cm DIP) ASSOCIATED WITH BIOTITIC AND GARNETIFEROUS SECTIONS;	44.4	45.6	1.2	3211	388	2008	3492	21.5	240
48.3	49.0		MUSCOVITE - Cr MICR SCHIST - LIGHT GREEN TO APPLE GREEN; PREDOMINANTLY MUSCOVITE WITH 50% (?) Cr MICR. MAIN FOLIATION AT 30° TO C.A. - EARLIER FOLIATION AT 290/10 D.L.A. TO MAIN FOLIATION; BASAL CONTACT GRADATIONAL OVER 4cm; NO MINERALIZATION NOTED;	48.3	49.0	0.7	3212	150	30	38	4.4	27
49.0	49.7		GRONERITE - PYRRHOTITE IRON FORMATION; 20% LIGHT GREEN RAGGED GRONERITE BANDS (≈2cm WIDE) IN LIGHT TO MED. GREY QUARTZ MATRIX; 5% QUARTZ-TOURMALINE VEINS (≈5cm) PARALLEL TO FOLIATION; FOLIATION AND BANDING AT 35° TO C.A.; BASAL CONTACT MARKED BY 5cm QZ-TOURMALINE VEIN;  MINERALIZATION: PYRRHOTITE; 6% - DISS AND RAGGED BANDS USUALLY IN GRONERITE;  PYRITE: 1% - INTERGROWN WITH PYRRHOTITE CHALCOPYRITE: Tr - INTERGROWN WITH PYRRHOTITE	49.0	49.7	0.7	3213	275	38	185	12.2	350

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM m	TO m	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM m	TO m	WIDTH m	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
49.7	52.3		<p>SERECITE-BIOTITE-GARNET SCHIST: 30% DARK BROWN                      WISPY BAND OF BIOTITE (±1cm WIDE) IN LIGHT GREY                      SERECITIC MATRIX; 5% PINK GARNETS (±2mm DIP) MAINLY                      DISS IN BIOTITE BANDS - GARNETS BOTH OVERGROW                      AND ARE ELONGATED ALONG FOLIATION; RARE RAGGED                      GRUNERITE BANDS (±0.5cm WIDE); FOLIATION AT 40°                      TO C.A.; BASAL CONTACT GRADATIONAL OVER 2cm;</p> <p>MINERALIZATION: 50.5-51.0: PYRRHOTITE (1%) - PYRITE (±1%) - GALENA (?)                      DISS AND FRACTURE-FILL</p>									
52.3	53.0		<p>GRUNERITE IRON FORMATION: 40% RAGGED GRUNERITE                      BANDS (±4cm WIDE) AND 10% SERECITIC SCHIST                      BANDS WITH LOCAL C+MICA, IN LIGHT TO MED. GREY                      QUARTZ MATRIX; BANDING IS HIGHLY DISRUPTED                      BY FOLDING AND LOCAL BRECCIATION; FOLIATION                      AT 45° TO C.A.; BASAL CONTACT GRADATIONAL                      OVER 30cm;</p> <p>MINERALIZATION: PYRRHOTITE (2%), PYRITE (&lt;1%) - DISS AND CLOTS</p>	52.3	53.0	0.7	3214	95	1043	98	43.4	161

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_

PROPERTY NAME \_\_\_\_\_

DRILLING CONTRACTOR \_\_\_\_\_

ASSAYER \_\_\_\_\_

PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>A-87-25</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb
53.0	59.1		<p>SERECITE-BIOTITE-GARNET SCHIST: 20% DISS AND                      LOCALLY BANDED BIOTITE IN LIGHT GREY                      SERECITE + FELDSPAR/CORDIERITE? MATRIX; TYPICALLY                      5% DISS PINK GARNETS (<math>\leq 3</math>mm DIP) - GARNETS                      BOTH OVERGROWN AND ARE ELONGATED ALONG                      FOLIATION;                      IRON FORMATION: POORLY DEVELOPED, SILICEOUS ZONES                      WITH PYRRHOTITE + PYRITE OR GRUNERITE                      AT 55.3-55.4, 56.4-56.9, 58.1-58.4;</p> <p>MINERALIZATION: 56.4-56.6; PYRRHOTITE(4%)+PYRITE(11%)-DISS AND                      CLOTS</p>									
59.1	60.0		<p>PYRRHOTITE-GRUNERITE IRON FORMATION: 10-20% TAGGED                      (<math>\leq 3</math>cm wide)                      GRUNERITE BANDS, INCREASING DOWNHOLE, IN                      LIGHT TO MED. GREY QUARTZ MATRIX;                      FOLIATION AT 50° TO C.P.; BASAL CONTACT                      GRADATIONAL OVER 40cm                      59.4-59.5; SERECITE-BIOTITE-GARNET SCHIST INTERCALATION                      MINERALIZATION: PYRRHOTITE: 5% - CLOTS AND DISS                      CHALCOPYRITE: 4% CLOTS ASSOCIATED WITH                      PYRRHOTITE;</p>	59.1	60.0	0.9	3215	456	665	1177	28.3	112











# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. <u>A-87-25</u>
CLAIM NAME _____
COMMENCED _____
FINISHED _____
PROJECT NO. _____

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				Cu	Pb	Zn	Ag	Au
				FROM	TO	WIDTH	NO.	ppm	ppm	ppm	ppm	ppb
103.5	107.7		BLUE CORDIERITE-EYE SCHIST; (ELSEWHERE MAPPED AS BLUE QUARTZ-EYE SCHIST); 10% LIGHT BLUE, ROUNDED CORDIERITE PORPHYROCLASTS (2-10mm DIA) IN A SERECITE + CORDIERITE ± CHLORITE ± BIOTITE MATRIX; RELATIVELY HOMOGENEOUS; ≤ 10% DISS. PINK GARNETS (≤ 3mm DIA.) AT 103.5-104.5m; 15% C. MICA AT 106.0-106.1m AND MINOR PROPORTIONS ELSEWHERE; FOLIATION AT 40° TO C.A.; BASAL CONTACT GRADATIONAL OVER 5cm;	103.5	105.6	2.1	3220	102	65	428	6.4	7
				105.6	107.7	2.1	3221	61	43	241	3.9	4
			MINERALIZATION: PYRROTHITE + PYRITE: <<1% - DISS, CLOTS;									
107.7	109.5		SERECITE-BIOTITE-GARNET SCHIST; 50% DARK BROWN BIOTITIC BANDS (≤ 3cm WIDE) IN LIGHT GREY-GREEN SERECITIC MATRIX; 7% PINK GARNETS (≤ 4mm DIA) DISS. THROUGHOUT; FOLIATION AT _____ TO C.A.; BASAL CONTACT SHARP AT 35° TO C.A.; BASAL 30cm PREDOMINANTLY SERECITE SCHIST; NO SIGNIFICANT SULPHIDES;	107.7	109.5		3222	134	80	474	6.3	29

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
109.5	109.7		SULPHIDE-CHLORITE SCHIST BRECCIA: 70% CHLORITE SCHIST AND 30% SERICITE SCHIST FRAGMENTS (S. 20° DIP) IN PYRRHOTITE MATRIX; HOMOGENEOUS, NO FOLIATION IN BRECCIA; BASAL CONTACT SHARP AT 55° TO C.A.;  MINERALIZATION: PYRRHOTITE - 20% - CLOTTY BRECCIA MATRIX CHALCOPYRITE - 1% - IN PYRRHOTITE					Cu ppm	Pb ppm	Zn ppm	Ag ppm	Au ppb	
109.7	111.1		QUARTZITE IRON FORMATIONS: WHITE TO LIGHT GREY, MASSIVE TO FAIRLY FOLIATED QUARTZ LOCALLY WITH 5% SERICITE OR CHLORITE; FOLIATION AT 40° TO C.A.; 109.9-110.2: BLUE CORDIERITE-EYE SCHIST AS ABOVE 110.7-110.9: SERICITE-GARNET SCHIST; 5+ PINK GARNETS (S. 20° DIP) IN SERICITE MATRIX; CONTACTS WITH I.F. ARE SHARP;  BASAL CONTACT IN BROKEN CORE  MINERALIZATION: PYRRHOTITE (LIT) - PYRITE (LLIT) - FRACTURE-FILLING IN QUARTZ;	109.5	111.1	1.6	3219	118	286	694	9.2	14	





# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
120.6	121.9		PYRITE-PYRRHOTITE IRON FORMATIONS LIGHT TO DARK GREY QUARTZ; COMMON DISS SERICITE (?) IMPARTS MOD. FOLIATION AT 45° TO C.A.; INCREASING PROPORTION OF SERICITE + FELDSPAR TOWARD BASE OF SECTION; BASAL CONTACT SHARP AT 50° TO C.A.;  MINERALIZATION: PYRITE; DISS AND CRUDE CLOTTY BANDS ≤1cm WIDE - 10% @ 120.6-121.4m - 4% @ 121.4-121.9m  PYRRHOTITE - DISS AND CLOTTY BANDS ≤1cm WIDE - 5% @ 120.6-121.4m - 8% @ 121.4-121.9m  SPHALERITE - 5% - DISS ASSOCIATED WITH PYRRHOTITE ARSENOPYRITE - 4% - DISS GALENA - T <sub>1</sub> - DISS										
				120.6	121.9	1.3	3230	256	3225	5037	13.2	282	
121.9	122.3		SERICITE-CHROMIUM MICA SCHISTE LIGHT GREY TO APPLE GREEN; SERICITE + FELDSPAR (?) + CORDIERITE (?) + C. MICA (≤10%); ≤20% TINK GARNETS (≤2mm DIA); FOLIATION AT 50° TO C.A.; BASAL CONTACT SHARP AT 50° TO C.A.;  MINERALIZATION: PYRITE (1%) + PYRRHOTITE (4%) - DISS + CRUDE BANDS										
				121.9	122.3	0.4	3231	119	586	1179	4.7	45	









# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS					
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au	
130.2	130.7		<p>PYRRHOTITE IRON FORMATIONS; MED. TO DARK GREY QUARTZ                      WITH FRAGGED BANDS AND CLOTS OF SULPHIDE                      AND C. MICA (5%); FOLIATION AT 45° TO C.A.;                      BASAL CONTACT SHARP AT 55° TO C.A.;</p> <p>MINERALIZATION:</p> <p>PYRRHOTITE: 15% - CLOTS, CRUDE BANDS, DISS                      SPHALERITE: 3% - CLOTS, DISS; ASSOCIATED WITH PYRRHOTITE                      GALENA: 1% - CLOTS, DISS; ASSOCIATED WITH PYRRHOTITE                      PYRITE: &lt;1% - DISS                      ARSENOPIRITE: &lt;1% - DISS IN PYRRHOTITE;</p>										
130.2	130.7			0.5	3237	305	3691	16686	93.2	480			
130.7	132.6		<p>CHROMIUM MICA SCHIST; APPLE GREEN; 30% C. MICA                      IN FINE SILICATE MATRIX; HOMOGENOUS;                      FOLIATION AT 55° TO C.A.; BASAL CONTACT                      SHARP AT 55° TO C.A.;</p> <p>MINERALIZATION: ALL SULPHIDES ARE VERY FINE GRAINED:</p> <p>SPHALERITE: 2% - DISS                      PYRITE: 1% - DISS                      GALENA: &lt;1% - DISS                      ARSENOPIRITE: &lt;1% - DISS                      PYRRHOTITE: &lt;&lt;1% - DISS</p>										
130.7	132.6			1.9	3238	186	4494	7492	39.0	124			

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS							
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au			
132.6	133.2		GRONTRITE-PYRRHOTITE IRON FORMATION: 20% BRAGGET GRONTRITE BANDS IN LIGHT TO DARK GREY QUARTZ; 1% Cr. MICA BANDS; FOLIATION AT 50° TO C.A.; BASAL CONTACT AT 55° TO C.A.;												
			MINERALIZATION: PYRRHOTITE: 4% - DISS. ARSENOPYRITE: TRACE - DISS.	132.6	133.2		3239	120	1015	1352	16.9	75			
133.2	136.8		CHROMIUM MICA - SERICITE SCHIST: SIMILAR TO 130.7-132.6m; FOLIATION AT 50° TO C.A.; BASAL CONTACT GRADATIONAL OVER 20cm; 133.2-135.3: 10% SMALL (≤10cm) BANDS OF QUARTZ ± PYRITE IRON FORMATION;												
			MINERALIZATION: PYRITE: 1% AVERAGE - DISS; CLOTS IN I.F. PYRRHOTITE: <1% - DISS, CLOTS SPHALERITE: <<1% - CLOTS IN I.F.	133.2	135.3	2.1	3240	162	1564	4276	15.8	70			
				135.3	136.8	1.5	3241	166	174	420	3.3	61			

# Diamond Drill Record

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

COMPANY NAME \_\_\_\_\_  
 PROPERTY NAME \_\_\_\_\_  
 DRILLING CONTRACTOR \_\_\_\_\_  
 ASSAYER \_\_\_\_\_  
 PURPOSE OF HOLE \_\_\_\_\_

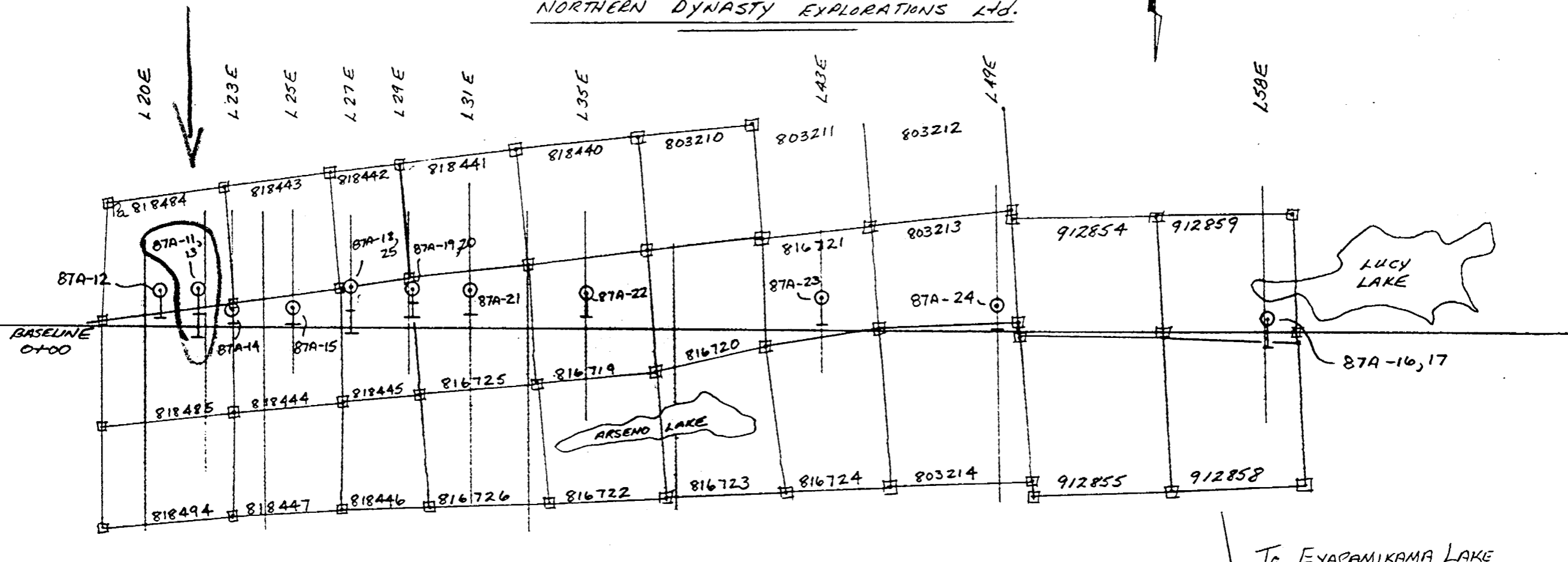
HOLE NO. A-87-25  
 CLAIM NAME \_\_\_\_\_  
 COMMENCED \_\_\_\_\_  
 FINISHED \_\_\_\_\_  
 PROJECT NO. \_\_\_\_\_

FROM	TO	RECOVY	DESCRIPTION	SAMPLE				ASSAYS				
				FROM	TO	WIDTH	NO.	Cu	Pb	Zn	Ag	Au
136.3	160.6		PLATITE SCHIST: DARK BROWNISH GREY; COMMON WISPY LIGHT GREY SILICATE BANDS (≤ 5mm WIDE); RELATIVELY HOMOGENEOUS UNIT; FOLIATION AT APPROXIMATELY 50° TO C.P. THROUGHOUT; BASAL CONTACT SHARP AT 55° TO C.P.;  MINERALIZATIONS: LOCAL QUARTZ VEINS ≤ 30cm WIDE LOCAL SILICIFIED SECTIONS WITH ≤ 40% PYRRHOTITE (≤ 4cm WIDE);					ppm	ppm	ppm	ppm	ppb
160.6	162.5		SERECITE - CHROMIUM NICA SCHIST: LIGHT GREEN; SERECITE (20%) + Cr MICA (10%) ENVELOP 0.5-2mm DIA. ROUNDED QUARTZ + SILICATE GRAINS - POSSIBLY A MICRO BRECCIA; RELATIVELY HOMOGENEOUS; FOLIATION AT 55° TO C.A.; BASAL CONTACT GRADATIONAL ACROSS 20cm;									
			MINERALIZATION: PYRITE - < 1% - DISS PYRRHOTITE - < 1% - IN QUARTZ CLASTS	160.6	162.5	1.9	3242	164	23	207	0.5	28





NORTHERN DYNASTY EXPLORATIONS LTD.



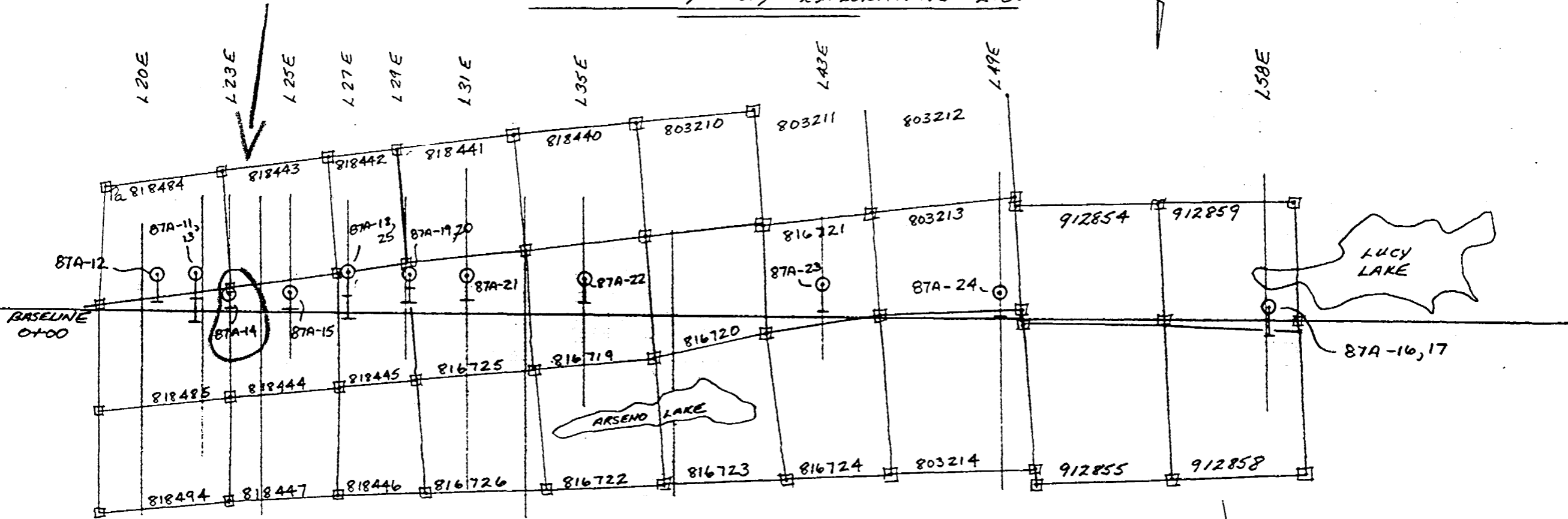
ARSENO LAKE PROPERTY  
1987 DIAMOND DRILL HOLE

LOCATION MAP

CLAIM MAPS: KEELYASK LAKE/G-2085  
SEESREP LAKE/G-2204  
NTS: 53B 14/15

CLAIM POST.  
 DRILL COLLAR & HOLE NUMBER.  
 SURFACE PROJECTION OF DRILLHOLE

NORTHERN DYNASTY EXPLORATIONS LTD.

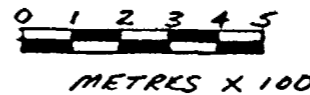





ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

LOCATION MAP

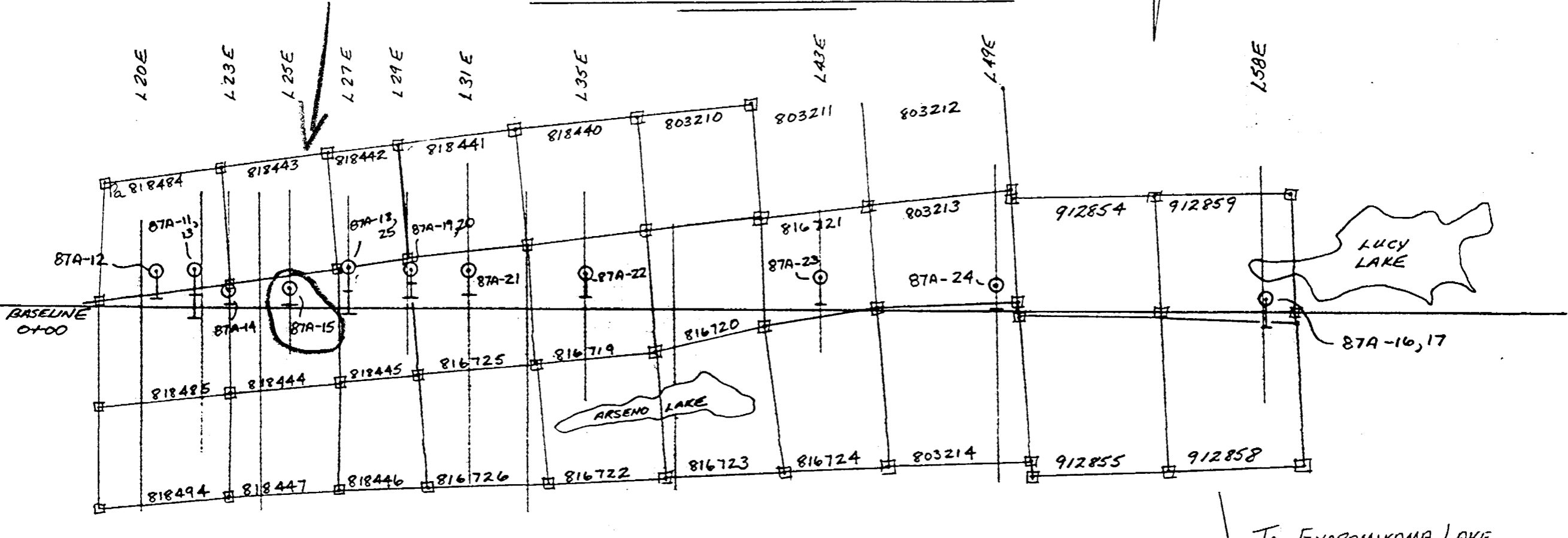
CLAIM MAPS: KEELYASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 53B 14/15



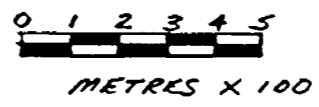
-  CLAIM POST.
-  DRILL COLLAR & HOLE NUMBER.
-  SURFACE PROJECTION OF DRILLHOLE.



NORTHERN DYNASTY EXPLORATIONS LTD.



ARSEND LAKE PROPERTY  
1987 DIAMOND DRILL HOLE

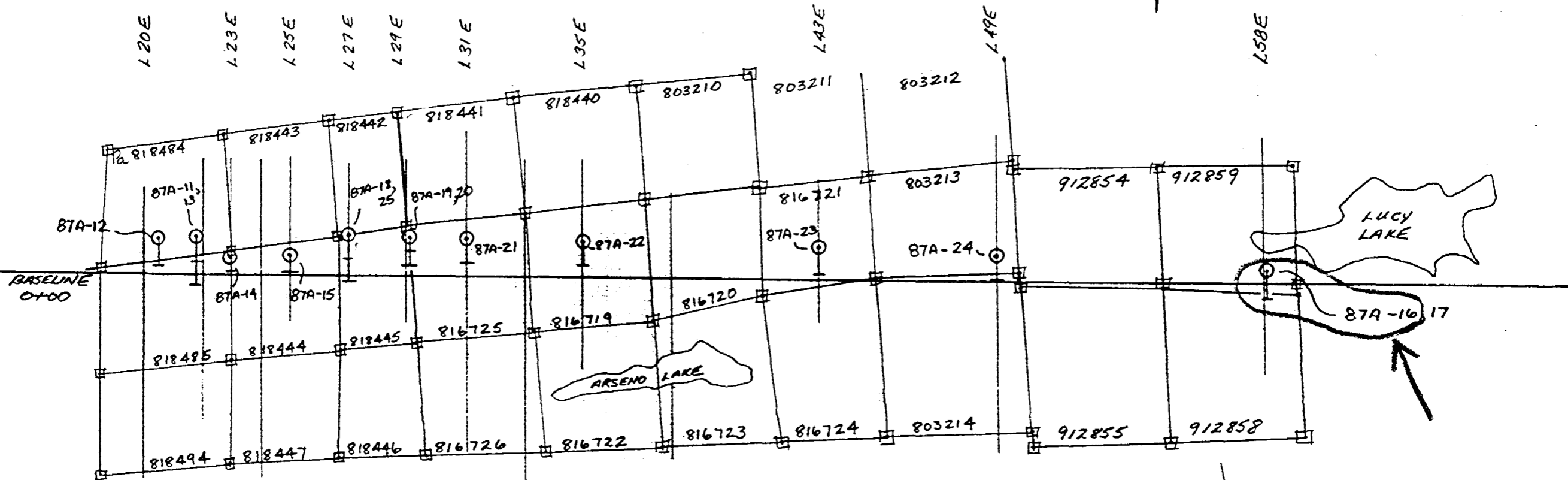


LOCATION MAP

CLAIM MAPS: KEELYASK LAKE / G-2085  
SEESKEP LAKE / G-2204  
NTS: 53B 14/15



NORTHERN DYNASTY EXPLORATIONS LTD.

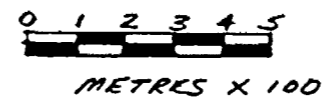


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

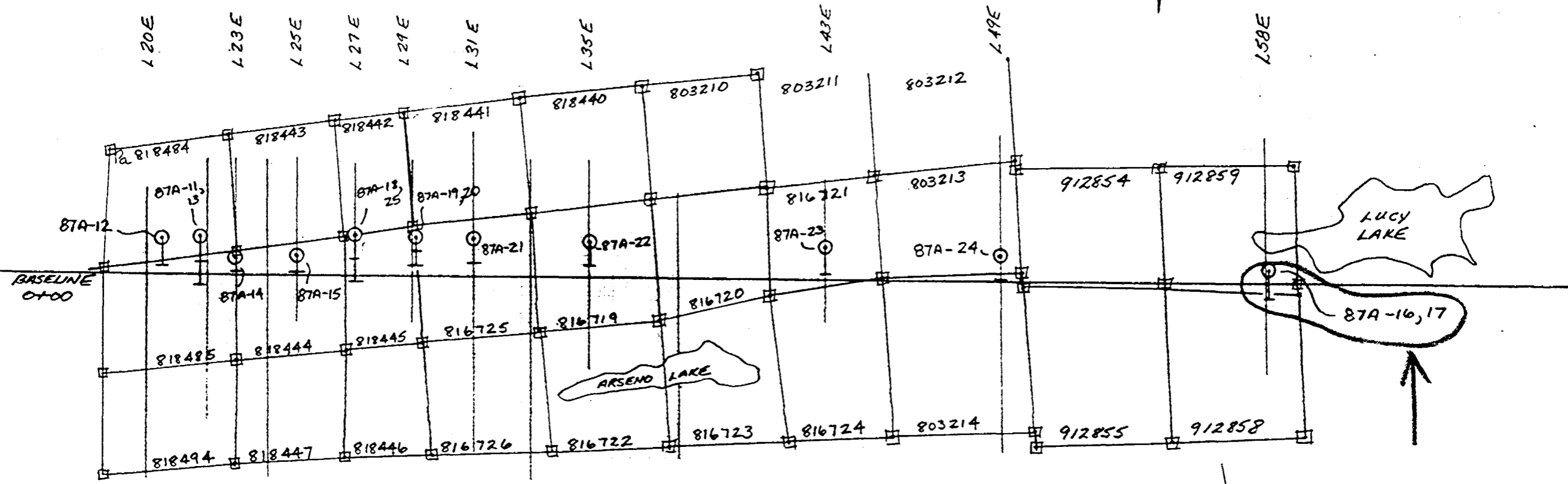
LOCATION MAP

CLAIM MAPS: KEENASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 538 14/15



- CLAIM POST.
- 87A-13 DRILL COLLAR & HOLE NUMBER.
- SURFACE PROJECTION OF DRILLHOLE

NORTHERN DYNASTY EXPLORATIONS LTD.





ARSEND LAKE PROPERTY

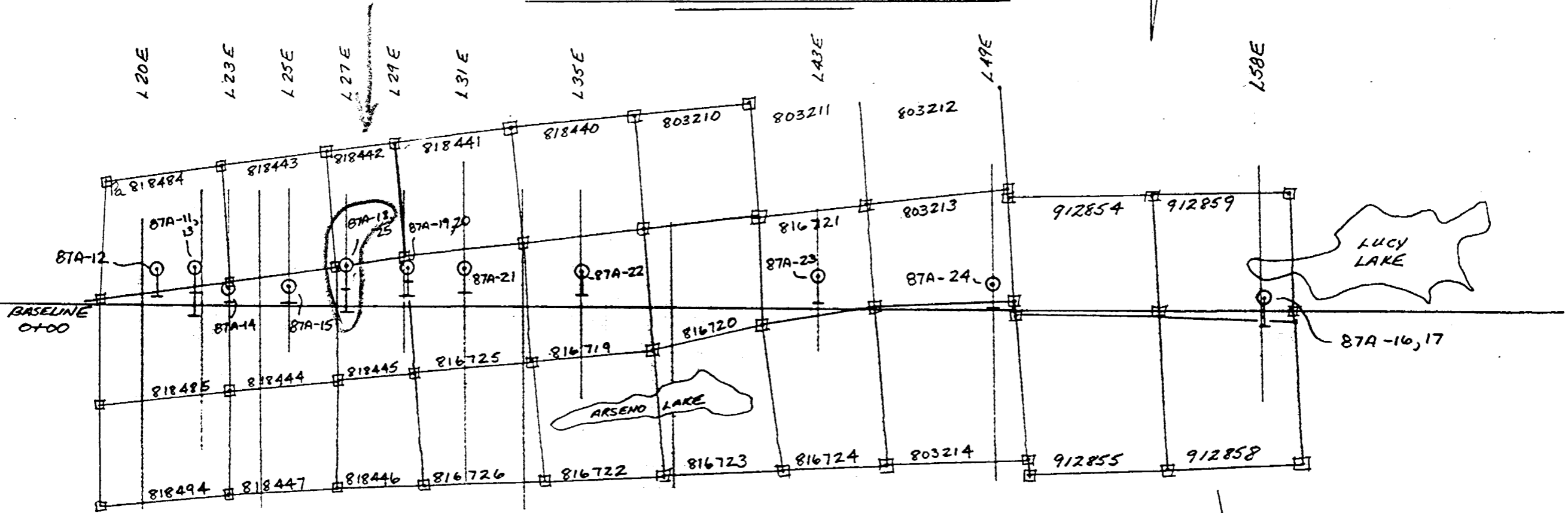
1987 DIAMOND DRILL HOLE

LOCATION MAP

CLAIM MAPS: KEELYASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 53B 14/15

-  CLAIM POST.
-  DRILL COLLAR & HOLE NUMBER.
-  SURFACE PROJECTION OF DRILLHOLE.

NORTHERN DYNASTY EXPLORATIONS LTD.

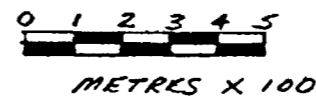


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

LOCATION MAP

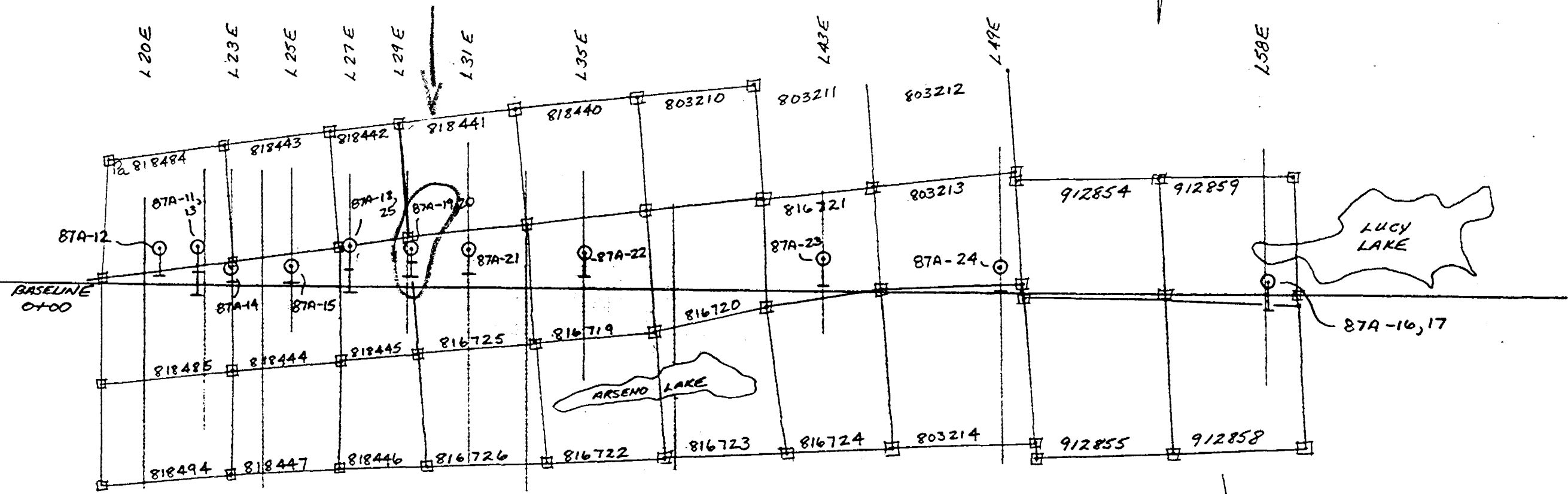
CLAIM MAPS: KEENASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 53B 14/15



- CLAIM POST.
- DRILL COLLAR & HOLE NUMBER.
- SURFACE PROJECTION OF DRILLHOLE

To EYAPAMIKAMA LAKE

NORTHERN DYNASTY EXPLORATIONS LTD.

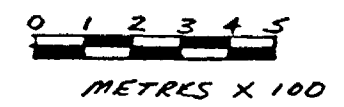


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

LOCATION MAP

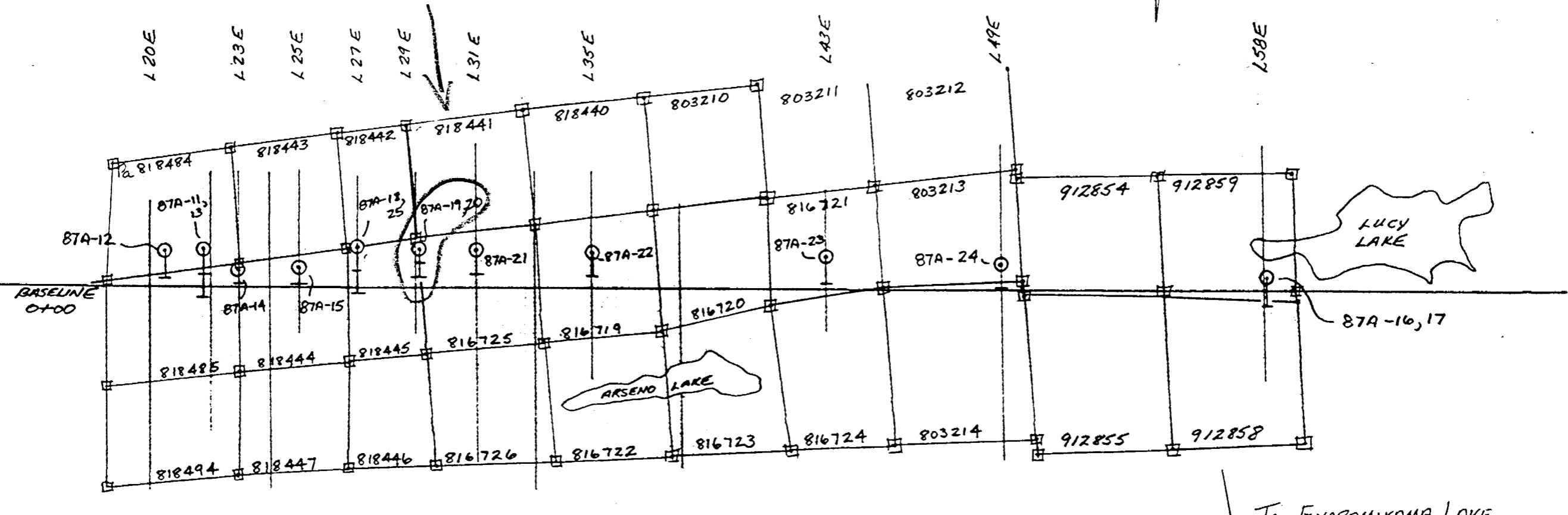
CLAIM MAPS: KEENASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 538 14/15



- CLAIM POST.
- 87A-13 ← DRILL COLLAR & HOLE NUMBER.
- ← SURFACE PROJECTION OF DRILLHOLE

↓ To EYAPAMIKAMA LAKE

NORTHERN DYNASTY EXPLORATIONS LTD.



ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

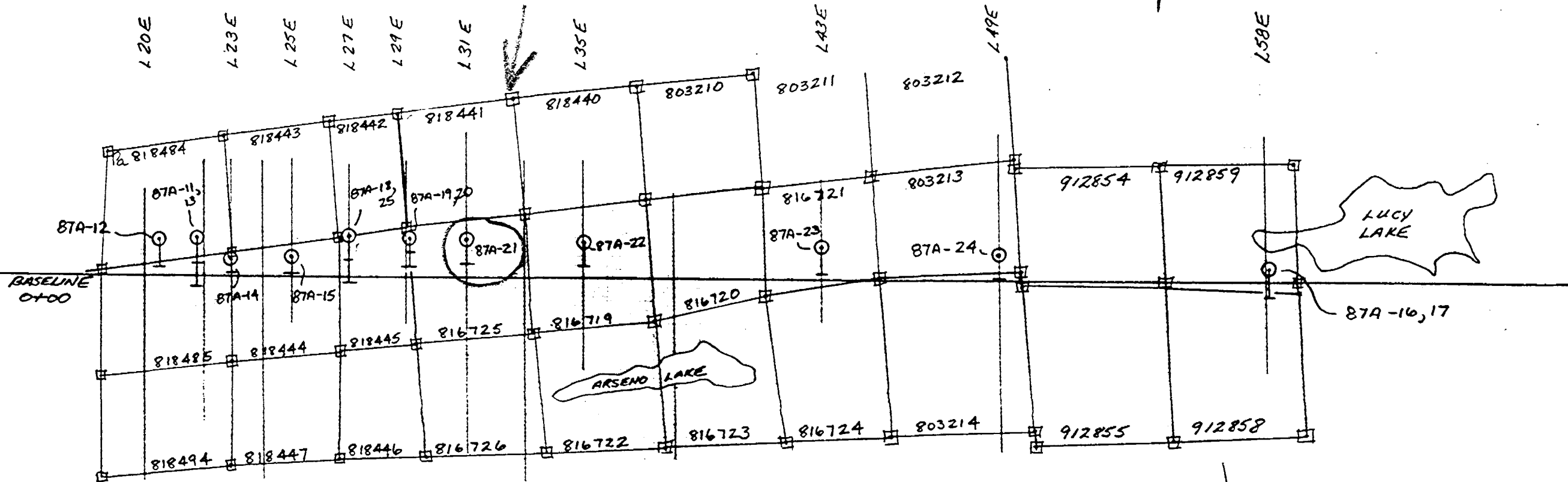
LOCATION MAP

CLAIM MARS: KEEYASK LAKE / G-2085  
 SEESKIP LAKE / G-2204  
 NTS: 538 14/15



- CLAIM POST.
- 87A-13 ← DRILL COLLAR & HOLE NUMBER.
- ← SURFACE PROJECTION OF DRILLHOLE

NORTHERN DYNASTY EXPLORATIONS LTD.

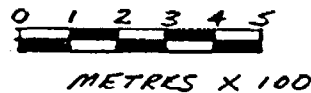


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

LOCATION MAP

CLAIM MAPS: KEENASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 538 14/15

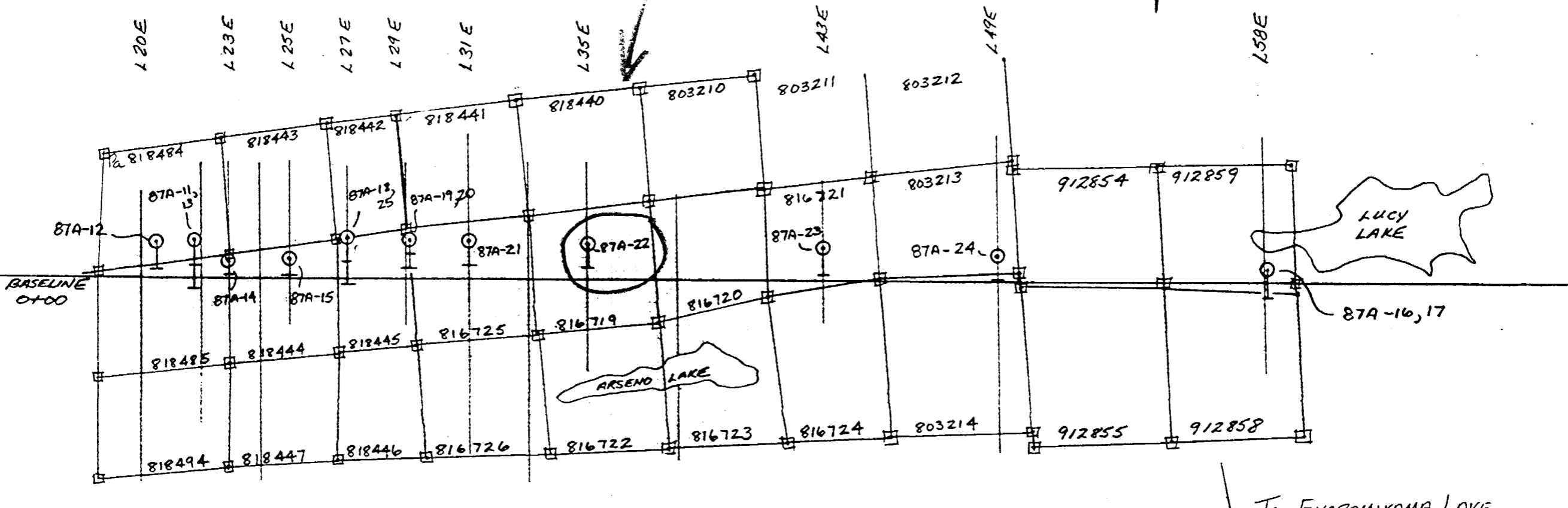


□ CLAIM POST.

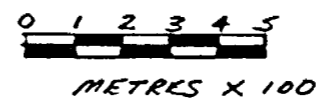
○ 87A-13 DRILL COLLAR & HOLE NUMBER.

← SURFACE PROJECTION OF DRILLHOLE

NORTHERN DYNASTY EXPLORATIONS LTD.



ARSEND LAKE PROPERTY  
1987 DIAMOND DRILL HOLE



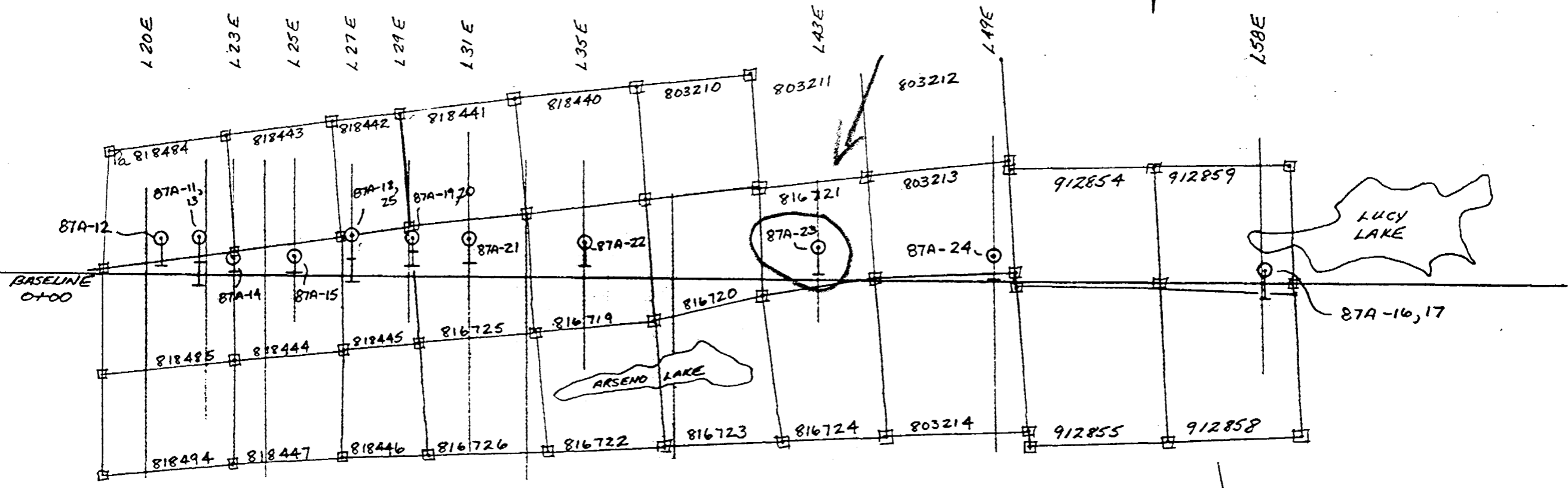
LOCATION MAP

CLAIM MAPS: KEEYASK LAKE/G-2085  
SEESREP LAKE/G-2204  
NTS: 53B 14/15

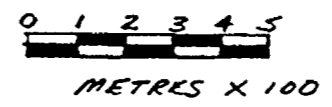
- CLAIM POST.
- DRILL COLLAR & HOLE NUMBER.
- SURFACE PROJECTION OF DRILLHOLE



NORTHERN DYNASTY EXPLORATIONS LTD.



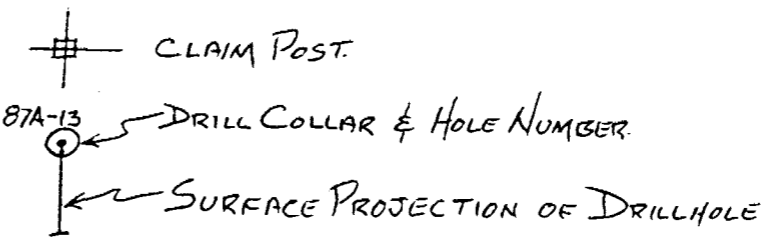
ARSEND LAKE PROPERTY  
1987 DIAMOND DRILL HOLE



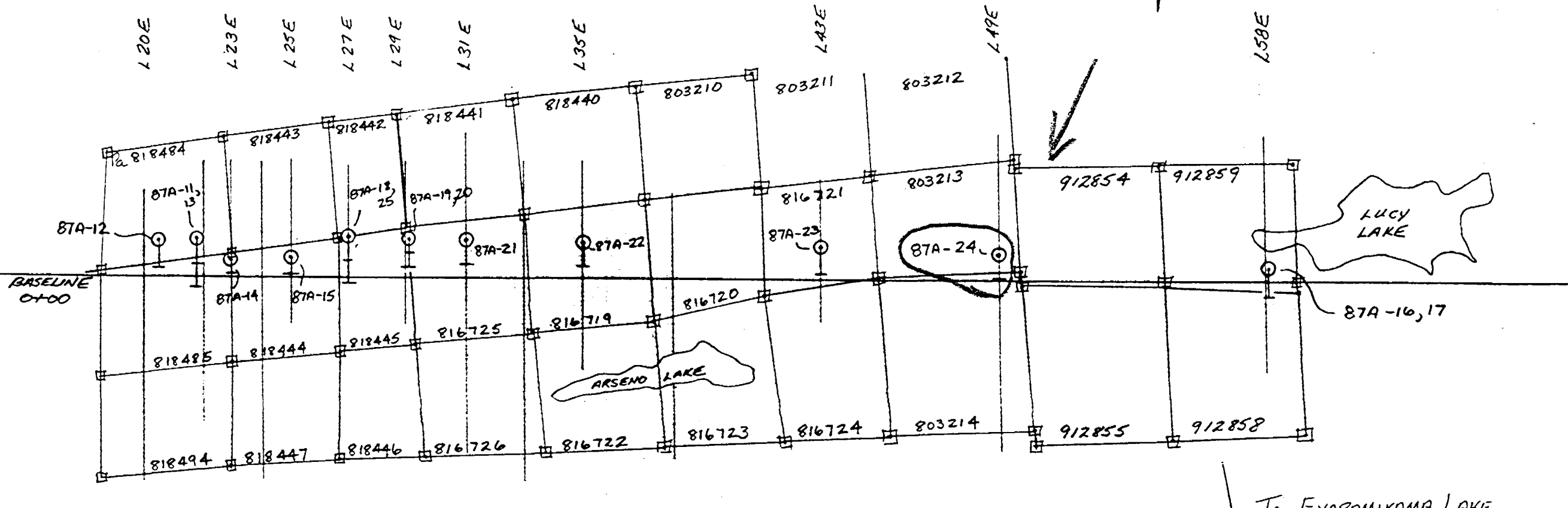
TO EYAPAMIKAMA LAKE

LOCATION MAP

CLAIM MAPS: KEELYASK LAKE/G-2085  
SEESREP LAKE/G-2204  
NTS: 53B 14/15



NORTHERN DYNASTY EXPLORATIONS LTD.

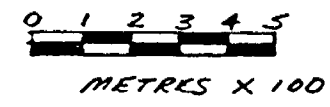


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

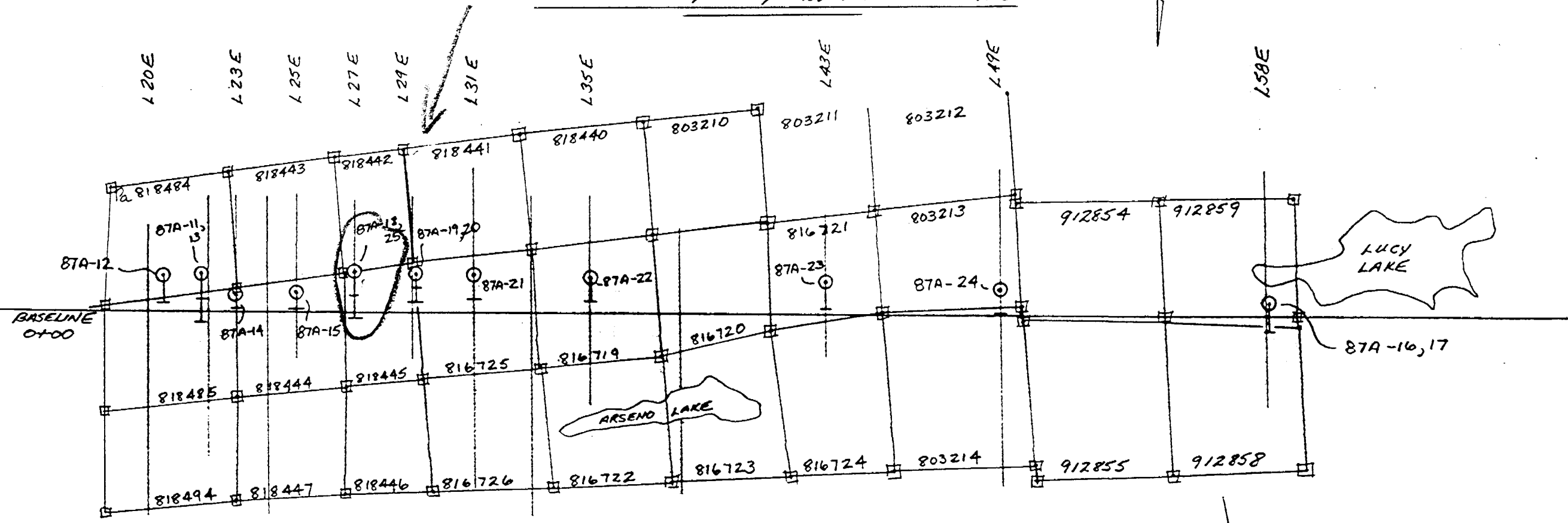
LOCATION MAP

CLAIM MARKS: KEENASK LAKE / G-2085  
 SEESEEP LAKE / G-2204  
 NTS: 53B 14/15



- CLAIM POST.
- DRILL COLLAR & HOLE NUMBER.
- SURFACE PROJECTION OF DRILLHOLE

NORTHERN DYNASTY EXPLORATIONS LTD.

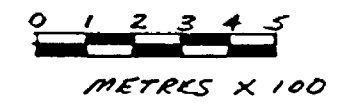


ARSEND LAKE PROPERTY

1987 DIAMOND DRILL HOLE

LOCATION MAP

CLAIM MAPS: KEKYASK LAKE/G-2085  
 SEESKEP LAKE/G-2204  
 NTS: 53B 14/15



- CLAIM POST.
- DRILL COLLAR & HOLE NUMBER.
- SURFACE PROJECTION OF DRILLHOLE



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Name and Postal Address of Recorded Holder  
**NORTHERN DYNASTY EXPLORATIONS**  
**844 WEST HASTINGS ST., VANCOUVER, B.C., V6C 1C8**

53B14NE0010 17 KEYEYASK LAKE

Summary of Work Performance and Distribution of Credits  
**KEYEYASK LAKE G-2085 & SEESEEP LAKE G-2204**

Total Work Days Cr. claimed	Mining Claim			Work Days Cr.	Mining Claim			Work Days Cr.	Mining Claim		
	Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.		Prefix	Number	Work Days Cr.
5,126											
for Performance of the following work. (Check one only)	SEE ATTACHED SHEET.										
<input type="checkbox"/> Manual Work											
<input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work.											
<input type="checkbox"/> Compressed Air, other Power driven or mechanical equip.											
<input type="checkbox"/> Power Stripping											
<input checked="" type="checkbox"/> Diamond or other Core drilling											
<input type="checkbox"/> Land Survey											

RECORDED



All the work was performed on Mining Claim(s): Pa. 803213, 803214, 816719, 816721, 816725, ~~818444~~, 818444, 818445, 818484, 818485

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

**ARSENOLAKE DRILL PROGRAM.**

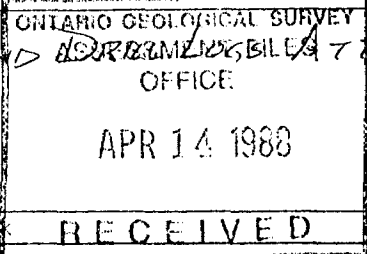
CONTRACTOR: LANGLEY DRILLING, 19 JAYFIELD ROAD, BRAMPTON, ONTARIO L6S 3G3

GEOLOGISTS: DAN KILBY, DARREN ELSBY, GEORGE GORZYNSKI (NORTHERN DYNASTY EXPLORATIONS LTD.)

CREDITS: 5,126 FEET OF DRILLING (DDH'S 87-A-13-25) = 5,126 CREDITS.

DATES OF OPERATION: AUGUST 20 - OCTOBER 19, 1987

WORK SKETCHES AND ~~DRILLING LOGS~~ ATTACHED.



\* Postmark March 31, 1988

Date of Report: MARCH 29/88  
Recorded Holder or Agent (Signature): G. Gorzynski

Certification Verifying Report of Work RECEIVED

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying  
**G. GORZYNSKI, 844 WEST HASTINGS ST., VANCOUVER, B.C., V6C 1C8**

Date Certified: MARCH 29/88  
Certified by (Signature): G. Gorzynski

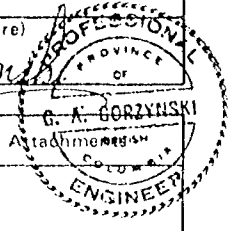


Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	
Manual Work	Nil	Names and addresses of men who performed manual work / operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work	Nil		
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	Work Sketch (as above) in duplicate
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing: footage, diameter of core, number and angles of holes.	Nil	Nil
Land Survey	Name and address of Ontario land surveyor.		



\*\*\*\*\*  
 \* NORTHERN DYNASTY EXPLORATIONS LTD. \*  
 \* ARSENO LAKE DRILL PROGRAM \*  
 \* SUBMITTAL FOR DRILL FOOTAGE CREDITS \*  
 \* March 29, 1988 \*  
 \*\*\*\*\*

*J. Grynsh*

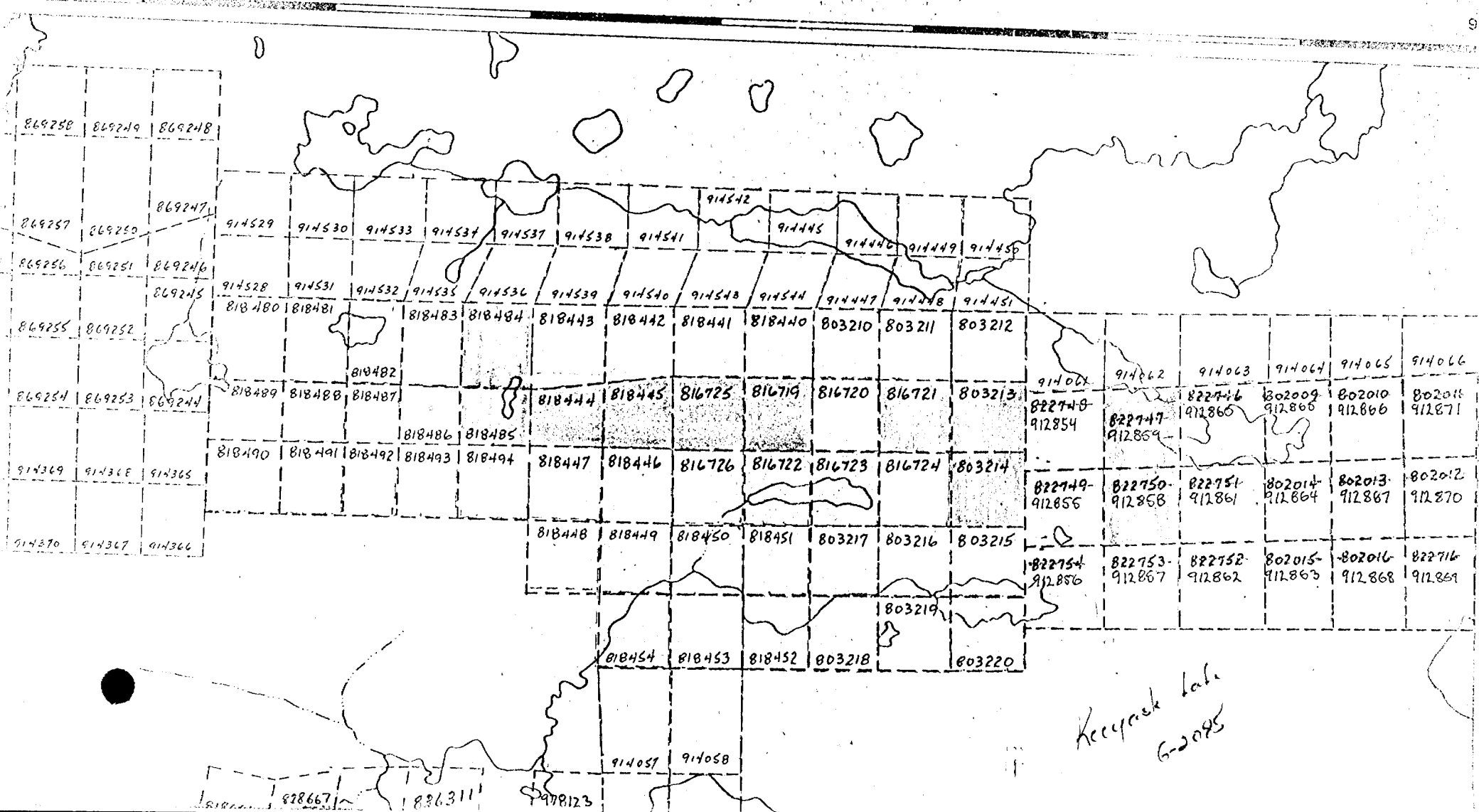
CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS
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803212	60	818493	52.21	914061	20	914534	20
803220	40	818494	39.31	914062	20	914535	20
817451	39.8	818495	40	914063	20	914536	20
817452	45.8	818496	40	914064	20	914537	20
817453	59.69	818497	99.45	914065	20	914538	20
818424	60	818498	99.45	914066	20	914539	20
818425	79.5	818499	60	914067	20	914540	20
818426	100	818500	60	914068	20	914541	20
818427	100	818501	100	914069	20	914542	20
818428	100	818502	44.69	914070	20	914543	20
818429	100	818503	40	914365	20	914544	20
818430	99.45	818504	40	914366	20	914790	20
818431	60	912854	20	914367	20	914791	20
818432	40	912855	20	914368	20	914792	20
818433	40	912856	20	914369	20	914793	20
818434	40	912857	20	914370	20	914794	20
818435	40	912858	20	914371	20	914795	20
818454	40	912859	20	914372	20	914796	20
818457	66.3	912860	20	914373	20	914797	20
818458	40	912861	20	914374	20	914798	20
818459	40	912862	20	914375	20	914799	20
818460	40	912863	20	914376	20	914800	20
818461	100	912864	20	914377	20	914801	20
818462	98.45	912865	20	914378	20	914802	20
818463	99.45	912866	20	914379	20	914803	20
818464	40	912867	20	914380	20	914804	20
818465	40	912868	20	914381	20	914805	20
818466	40	912869	20	914445	20	978123	20
818467	40	912870	20	914446	20	978124	20
818468	40	912871	20	914447	20	978125	20
818469	40	912872	20	914448	20	978126	20
818480	60	912873	20	914449	20		
818481	58.9	912874	20	914450	20		
818485	25.55	912875	20	914451	20		
818487	55	912876	20	914528	20		
818488	55	912877	20	914529	20		
818489	60	914057	20	914530	20		
818490	60	914058	20	914531	20		
818491	60	914059	20	914532	20		

32

TOTAL CREDITS APPLIED FOR = 5126  
 \*\*\*\*\*

42

FRNER LAKE G-2033



Keeyask Lake  
G-2045



53B14NE0010 17 KEYASK LAKE

900

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Name and Postal Address of Recorded Holder: NORTH N DYNASTY EXPLORATIONS, 844 WEST HASTINGS ST., VANCOUVER, B.C., V6C 1C8

Summary of Work Performance and Distribution of Credits: KEYASK LAKE G-2085 & SEESEEP LAKE G-2204

Table with columns: Total Work Days Cr. claimed (5,126), Mining Claim (Prefix, Number), Work Days Cr., Mining Claim (Prefix, Number), Work Days Cr., Mining Claim (Prefix, Number), Work Days Cr. Includes checkboxes for Manual Work, Shaft Sinking, etc., and a 'RECEIVED' stamp dated APR 05 1988.

All the work was performed on Mining Claim(s): Pa. 803213, 803214, 816719, 816721, 816725, 818444, 818445, 818484, 818485

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

ARSENO LAKE DRILL PROGRAM.

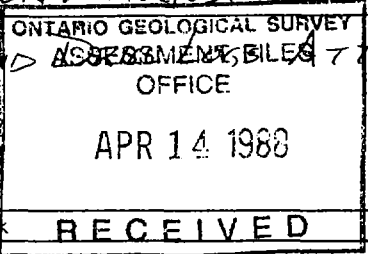
CONTRACTOR: LANGLEY DRILLING, 49 JAYFIELD ROAD, BRAMPTON, ONTARIO L6S 3G3

GEOLOGISTS: DAN KILBY, DARREN ELSBY, GEORGE GORZYNSKI (NORTHERN DYNASTY EXPLORATIONS LTD.)

CREDITS: 5,126 FEET OF DRILLING (DDH'S 87-A-13-25) = 5,126 CREDITS.

DATES OF OPERATION: AUGUST 20 - OCTOBER 19, 1987

WORK SKETCHES AND APPROPRIATE FILES ATTACHED.



\* Postmark March 31, 1988

Date of Report: MARCH 29/88, Recorded Holder or Agent (Signature): G. Gorzynski

Certification Verifying Report of Work RECEIVED

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: G. GORZYNSKI, 844 WEST HASTINGS ST., VANCOUVER, B.C., V6C 1C8

Date Certified: MARCH 29/88, Certified by (Signature): G. Gorzynski

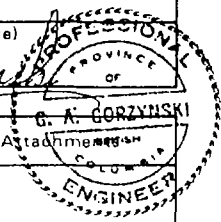


Table of Information/Attachments Required by the Mining Recorder

Table with columns: Type of Work, Specific information per type, Other information (Common to 2 or more types). Rows include Manual Work, Shaft Sinking, Compressed air, Power Stripping, Diamond or other core drilling.



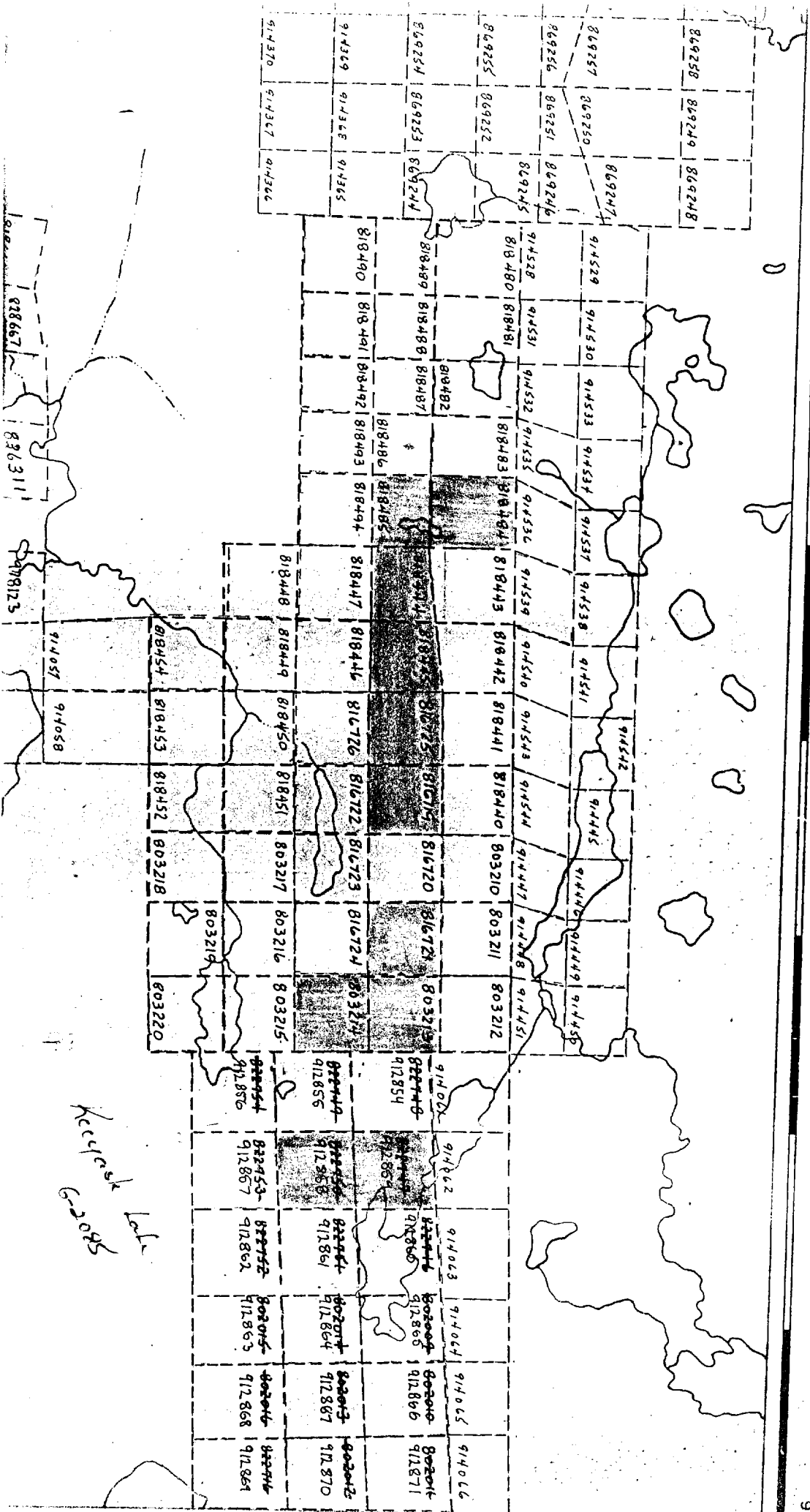
\*\*\*\*\*  
 \* NORTHERN DYNASTY EXPLORATIONS LTD. \*  
 \* ARSENO LAKE DRILL PROGRAM \*  
 \* SUBMITTAL FOR DRILL FOOTAGE CREDITS \*  
 \* March 29, 1988 \*  
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CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS	CLAIM NUMBER	WORK DAY CREDITS
Pa. 803211	60	818492	60	914060	20	914533	20
803212	60	818493	52.21	914061	20	914534	20
803220	40	818494	39.31	914062	20	914535	20
817451	39.8	818495	40	914063	20	914536	20
817452	45.8	818496	40	914064	20	914537	20
817453	59.69	818497	99.45	914065	20	914538	20
818424	60	818498	99.45	914066	20	914539	20
818425	79.5	818499	60	914067	20	914540	20
818426	100	818500	60	914068	20	914541	20
818427	100	818501	100	914069	20	914542	20
818428	100	818502	44.69	914070	20	914543	20
818429	100	818503	40	914365	20	914544	20
818430	99.45	818504	40	914366	20	914790	20
818431	60	912854	20	914367	20	914791	20
818432	40	912855	20	914368	20	914792	20
818433	40	912856	20	914369	20	914793	20
818434	40	912857	20	914370	20	914794	20
818435	40	912858	20	914371	20	914795	20
818454	40	912859	20	914372	20	914796	20
818457	66.3	912860	20	914373	20	914797	20
818458	40	912861	20	914374	20	914798	20
818459	40	912862	20	914375	20	914799	20
818460	40	912863	20	914376	20	914800	20
818461	100	912864	20	914377	20	914801	20
818462	98.45	912865	20	914378	20	914802	20
818463	99.45	912866	20	914379	20	914803	20
818464	40	912867	20	914380	20	914804	20
818465	40	912868	20	914381	20	914805	20
818466	40	912869	20	914445	20	978123	20
818467	40	912870	20	914446	20	978124	20
818468	40	912871	20	914447	20	978125	20
818469	40	912872	20	914448	20	978126	20
818480	60	912873	20	914449	20		
818481	58.9	912874	20	914450	20		
818486	25.55	912875	20	914451	20		
818487	59	912876	20	914528	20		
818488	59	912877	20	914529	20		
818489	60	914057	20	914530	20		
818490	60	914058	20	914531	20		
818491	60	914059	20	914532	20		

TOTAL CREDITS APPLIED FOR = 5126  
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RIVER LAKE G-2033



Keckler  
G-2033