

DIAMOND DRILL LOG
Hecla Mining Co, of Canada Ltd.

J-1 to J-4-70

1970

105-K-5,6

DD-169

LAND 10-36 (9-67) 7690-21-023-4211

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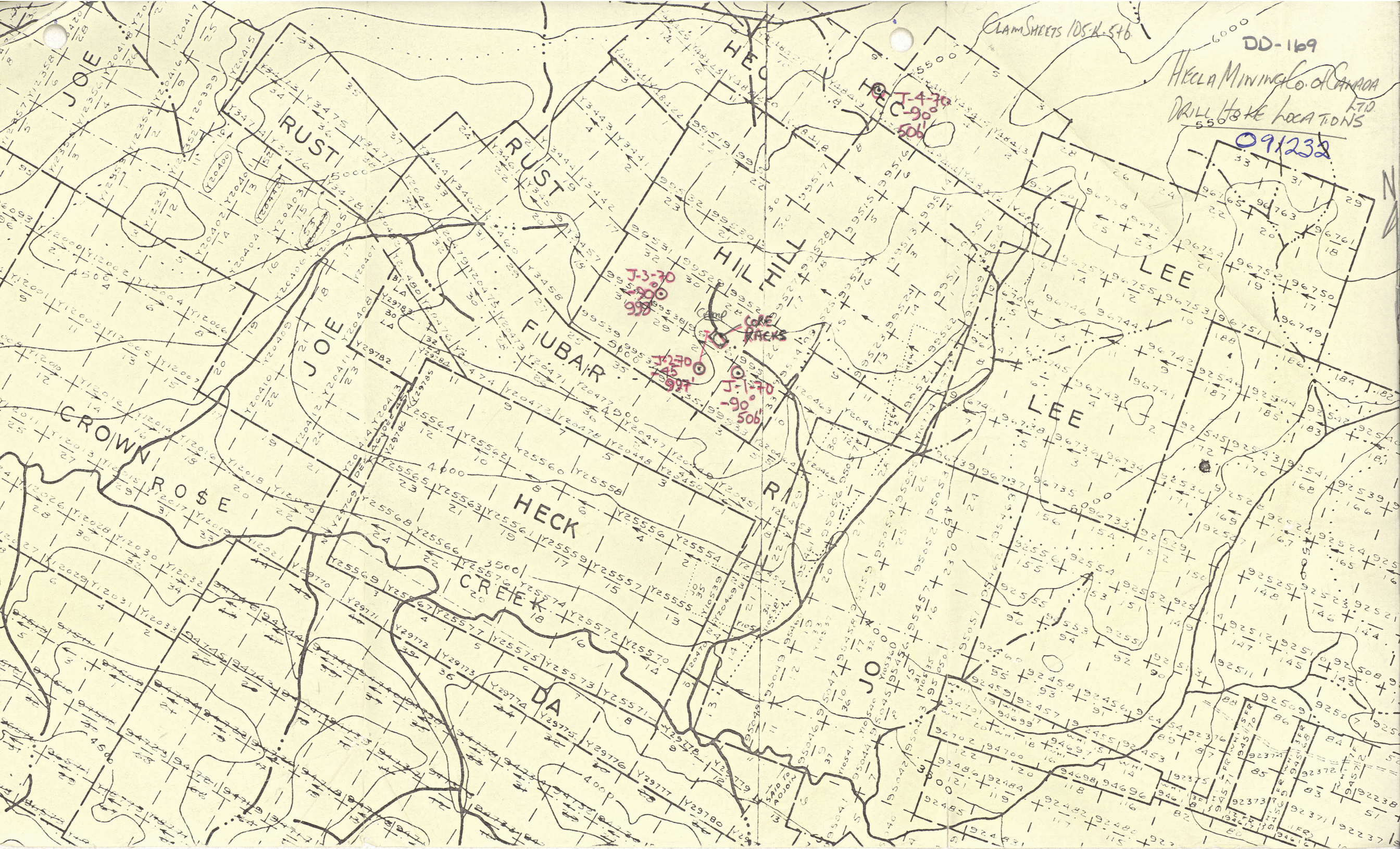
091232

CLAM SHEETS 105-K-546

DD-169

HECLA MINING CO. OF CANADA LTD
DRILL HOLE LOCATIONS

091232



DRILL HOLE RECORD

HECLA Mining Company of Canada Ltd.

DD-169

Inclination		Bearing	PROPERTY	Length		HOLE NO. J-1-70	
Collar			Location	Hor. Comp.	/ Vert. Comp.	Sheet 4	of 4
			Elevation	Bearing		Logged by	
			Coordinates	N	/ Completed	Sampled by	
				E	/ Recovery		
				Core size	%		

FOOTAGE		RECOV'Y		GRAPHIC	DESCRIPTION	SAMPLES				ASSAYS			
From	To	Run	Core			No.	From	To	Width				

442'	473'	31'	30.2'		dark grey green unbanded Amphibolite, faint foliation or layering at 70° to core axis, fine grained, crystalline matrix, chlorite, widely disseminated pyrrhotite and chalcopyrite - subequal amounts.	52094	450'	460'	10'				
					444'-448' - veins and layers pyrrhotite paralleling foliation, to 1/2" across.	52095	460'	470'	10'				
					454' - disseminated iron oxides in part.	52096	470'	480'	10'				
					463' - joint at 30° to core axis, calcite vein, phyllitic parting.	52097	480'	490'	10'				
473'	506'	33'	32'		dark green brown banded Phyllite Quartzite, thin banded, bands at 75° to core axis, disseminated pyrrhotite and chalcopyrite.	52098	490'	500'	10'				
					481' - quartz carbonate vein at 50° to core axis, biotite in phyllite bands to 5mm, 50% pyrrhotite.	52099	500'	506'	6'				
					487'-500' - increased biotite phyllite bands, sulfides pyrrhotite and chalcopyrite to 10-15%.								
					500'-506' - thicker phyllite layers, becoming waxy, discontinuous, speckled appearance due sulfides, pyrrhotite & chalcopyrite, and iron oxides.								

END OF HOLE

DRILL HOLE RECORD

HECLA Mining Company of Canada Ltd.

Inclination		Bearing	PROPERTY	Length		HOLE No. J-3-70	
Collar			Location	Hor. Comp.	/ Vert. Comp.	Sheet 2. of 4.	
			Elevation	Bearing		Logged by	
			Coordinates	N	Begun / Completed	Sampled by	
				E	Core size / Recovery	%	

FOOTAGE From To	RECOV'Y Run Core	GRAPHIC	DESCRIPTION	SAMPLES				ASSAYS					
				No.	From	To	Width						
210' 248'			(continued) 229'- vein shamy material, medium green, ~ 5% sphalerite, galena and tetrahedrite?	52170	235'	230'	5'						
			235.3'-236'- 15%-20% massive sulphides, sphalerite, galena, tetrahedrite.	52171	230'	235'	5'						
248' 254.5'	6.5	5.2	zone qtz veining and brecciation, fault/shear zone, mica plumes at 70° to core axis, minor fractures at 30°-35° to core axis. kaolinised and chlorite.	52172	235'	240'	5'						
254.5' 271'	16.5	15.7'	dark grey brown phyllite qtzite slightly calcareous, phyllite 65%, mica layers & folia in phyllite	52173	240'	245'	5'						
			269'-271'- thin banded, slightly shamed.	52174	245'	250'	5'						
271' 283'	12'	11.7'	medium grey banded marble, banding at 70°-75° to core axis, very thin banded. medium to coarse grained.	52175	250'	260'	10'						
			281'-283'- coarser recrystallised marble, 'felled' calcite on vein at 282' at 20° to core axis	52176	260'	270'	10'						
				52177	270'	280'	10'						
283' 289'	6'	5.7'	slightly calcareous shamy phyllitic qtzite, brecciated with kaolin at 289'.	52178	280'	290'	10'						
289' 311'	22'	18.3'	dark green calcareous qtzite, phyllitic, altered breccia zone, minor pyrrhotite, sham	52179	290'	300'	10'						
			289'-294'- breccia, qtz carbonate veining at 30° to core axis, kaolin, pyrite	52180	300'	310'	10'						
			294'-303'- phyllite, mica, banding at 75° to core axis										
			300'-303'- qtz idocrase - carbonate shamy? ~ 5% disseminated sphalerite and galena in idocrase in calcareous qtzite.	52181	310'	320'	10'						
			307'-311'- shamy, banding at 60° to core axis.	52182	320'	330'	10'						
311' 369'	58'	56'	light green medium brown banded phyllitic qtzite, banding at 60° to core axis, waxy phyllite and shamy layers, alteration and brecciation	52183	330'	340'	10'						
			324'-326'- shear zone, kaolin, gouge, at 30° to core axis.	52184	340'	350'	10'						
			361'-363'- shamy, garnets, breccia										
			365'-367'- fractures and brecciation at 30-40° to core axis.	52185	350'	360'	10'						
369' 379'	10'	9'	shear/fault zone, in phyllitic qtzite, shamy, banding at 55°-60° to core axis, altered	52186	360'	370'	10'						
			370'-376'- brecciated, altered, micritic with clayey kaolin gouge, qtz veins & shear at 70° to core axis.	52187	370'	380'	10'						
				52188	380'	390'	10'						
379' 521'	142'	137'	dark grey green thin banded phyllitic qtzite, biotite to chlorite in part, banding 65°-70° to core axis, calcareous in part, veining, folding planes, disseminated pyrrhotite to 20%, thin greenstone.	52189	390'	400'	10'						
			406'-418' breccia, shear, calcite waxy vein, chlorite.	52190	400'	410'	10'						
			427'-440' - thinner banding.										
			457'-473' - shamy, light green, waxy phyllite.	52191	410'	420'	10'						
			481'-483' - breccia, carbonate veining at 10-15° to core axis.										
			500'-521' - contorted banding, shamy mica breccia.	52192	420'	430'	10'						

DRILL HOLE RECORD

HECLA Mining Company of Canada Ltd.

Inclination		Bearing	PROPERTY	Length		HOLE No. J-3-7c
Collar			Location	Hor. Comp.	/Vert. Comp.	Sheet 3 of 4
			Elevation	Bearing		Logged by
			Coordinates	N	Begun / Completed	Sampled by
				E	Core size / Recovery	%

FOOTAGE		RECOV'Y		GRAPHIC	DESCRIPTION	SAMPLES				ASSAYS	
From	To	Run	Core			No.	From	To	Width		
521'	596'	75'	72.5'		dark grey green thin banded phyllite qtzite, to faintly banded, banding at 75° to core axis. brecciation and alteration, skarn.	52193	430'	440'	10'		
					534'-547' - skarn, garnet,						
					549'-550' - breccia, altered, gouge	52194	440'	450'	10'		
					554.3'-556.5' - clay gouge zone calcareous, kaolin + chlorite, pyrite, shear at 35-48° to core axis.	52195	450'	460'	10'		
					572'-573' - muddy gouge, 30° to core axis. kaolin alteration both sides	52196	460'	470'	10'		
596'	700'	109'	101'		light grey green light brown purple skarn, phyllite wispy, contorted banding, bands and axial planes of folding at 70° to 80° to core axis, shear zones, breccia, garnet, minor pyrrhotite in phyllite.	52197	470'	480'	10'		
					607' - fracture, at 85° to core axis, kaolin.	52198	480'	490'	10'		
					612'-613.5' - garnet skarn, contorted banding, speck sphalerite.						
					653'-658' - calcareous skarn, idocrase, white to dark green. minor garnet skarn.	52199	490'	500'	10'		
					676'-688' - breccia, pyrite, sphalerite, siliceous, clayey gouge at 681' and 684', heavy kaolin gouge.	52200	500'	510'	10'		
					688'-700' - banding at 85° to core axis, dark green crystalline bands, increased pyrrhotite content to ~10%.	52201	510'	520'	10'		
						52202	520'	530'	10'		
700'	770'	70'	68.5'		dark grey green phyllite qtzite, banded - at 75° to 80° to core axis, alteration, brecciation, greenstone.	52203	530'	540'	10'		
					710'-716' - breccia, sericite + pyrite, chlorite, zones at 35° to core axis.						
					723'-726' - greenstone, chlorite, 70° contact.	52204	540'	550'	10'		
					745'-757' - very faint banding, crystals lined at 75° to core axis.						
					758'-770' - plastic style deformation and contortion of phyllite bands	52205	550'	560'	10'		
					762' - low angles to core axis for banding						
					770' - 80° to core axis for banding, contorted.	52206	560'	570'	10'		
					7'						
770'	909'	229'	222'		Skarn, light brown medium green to light green, ana white, banded skarn, garnet, alteration, brecciation + fracturing, calcareous zones, banding at 75° to core axis, marble.	52207	570'	580'	10'		
					782'-783' - idocrase-garnet skarn band, fracture at 5° to core axis, bleb sphalerite, trace galena.	52208	580'	590'	10'		
					798'-809' - pyrite idocrase skarn, white to dark green idocrase garnet bands, light green diopside.	52209	590'	600'	10'		
					825'-826' - coarsely crystalline marble, idocrase and garnet.	52210	600'	610'	10'		
					827'-835' - similar marble, garnet bands.	52211	610'	620'	10'		
					847'-860' - marble, coarsely crystalline buff brown, pyrite						
					865'-866' - breccia, mixed calcite and qtz at 75° to core axis.	52212	620'	630'	10'		
					874'-877' - marble, coarsely crystalline, garnet bands.						
					884'-891' - breccia, shear/fault zone, altered, calcareous and with kaolin, at 60° to core axis.	52213	630'	640'	10'		
					892'-909' - brecciated shear zone, heavily kaolinized and chloritized,	52214	640'	650'	10'		
					904.5'-909' - marble, brecciated, altered, at 25-35° to core axis,	52215	650'	660'	10'		
					909.0' - marble, garnet bands.						

DRILL HOLE RECORD

HECLA Mining Company of Canada Ltd.

Inclination		Bearing		PROPERTY		Length		HOLE No. J-3-70-	
Collar				Location		Hor. Comp.	/Vert. Comp.	Sheet 4 of 4	
				Elevation		Bearing		Logged by	
				Coordinates		N	Begun	/Completed	Sampled by
						E	Core size	/Recovery	%

FOOTAGE		RECOV'Y	GRAPHIC	DESCRIPTION	SAMPLES				ASSAYS					
From	To	Run Core			No.	From	To	Width						
770	999'	—		(continued) 926'-933' - garnets in light green										
				955'-979' - series garnet bands to 2" in medium green schist,	52216	660'	670'	10'						
				987'-989' - breccia, fracturing at 55°-60° to core axis, Rawlin.	52217	670'	680'	10'						
				989'-999' increasing phyllite bands, garnet, slightly										
				calcareous, appearance of marble	52218	680'	690'	10'						
				-999' <u>END OF HOLE</u>	52219	690'	700'	10'						
					52220	700'	710'	10'						
					52221	710'	720'	10'						
					52222	720'	730'	10'						
					52223	730'	740'	10'						
					52224	740'	750'	10'						
					52225	750'	760'	10'						
					52226	760'	770'	10'						
					52227	770'	780'	10'						
					52228	780'	790'	10'						
					52229	790'	800'	10'						
					52230	800'	810'	10'						
					52231	810'	820'	10'						
					52232	820'	830'	10'						
					52233	840'	840'	10'						

DRILL HOLE RECORD

HECLA Mining Company of Canada Ltd.

Inclination		Bearing	PROPERTY	Length		HOLE No. J-4-70.	
Collar			Location	Hor. Comp.	/Vert. Comp.	Sheet 3 of 3	
			Elevation	Bearing		Logged by	
			Coordinates	N	Begun	/Completed	Sampled by
				E	Core size	/Recovery %	

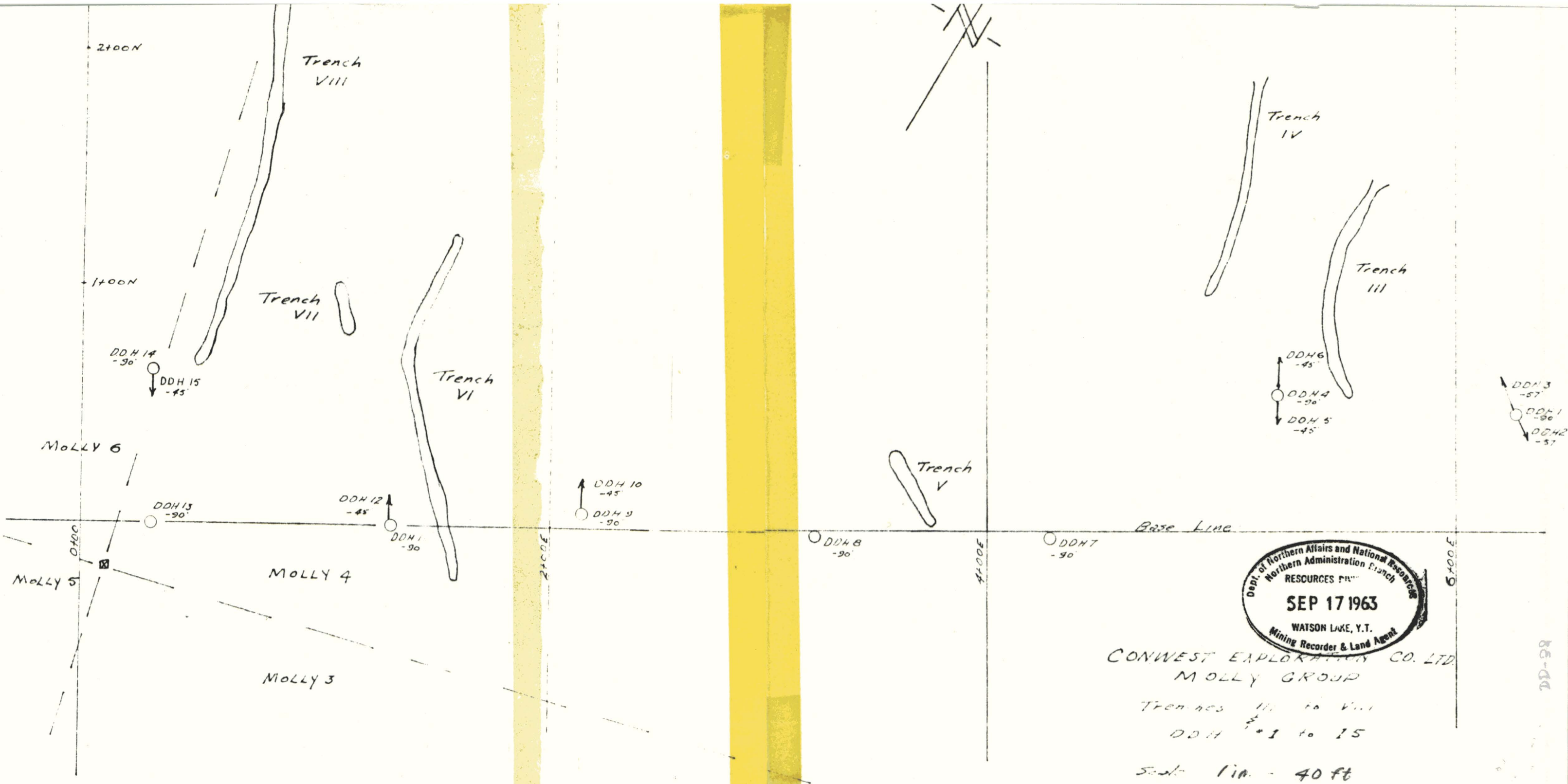
FOOTAGE		RECOV'Y	GRAPHIC	DESCRIPTION	SAMPLES				ASSAYS			
From	To	Run Core			No.	From	To	Width				

962' 506' —

(continued) 497'-498' - veins qtz. veins at 50° to core axis.
 499.5'-500' - qtz- idocare veins, carbonate, at 80° to core axis
 pyrrhotite and minor pyrite.
 504'-505' - oxidized qtz. carbonate vein at 10° to core axis, transgressive
 + irregular across core.

-506'

END OF HOLE.



Dept. of Northern Affairs and National Resources
 Northern Administration Branch
 RESOURCES DIV.
SEP 17 1963
 WATSON LAKE, Y.T.
 Mining Recorder & Land Agent

CONWEST EXPLORATION CO. LTD.
 MOLLY GROUP
 Trenches III to VIII
 DDH #1 to 15
 Scale 1 in. = 40 ft

DD-98