WESTERN MINES LIMITED

PAGE 1 OF 5. HOLE NO. Poplar 81-1

PROPERTY: POPLAR	N.T.S.	LAT.:	LOGGED BY: P. Wojdak	DATE: Oct. 2/81	COLLARED: Sept. 27, 1981
PROJECT NO: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE:	COMPLETED: Sept. 28, 1981

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH	207'		
ELEVATION			
HOLE COORD.			

CASING: LEFT IN HOLE: YES ___ NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS
NQ	207 ft.				
				17'	

EQUIPMENT, RODS, BIT, etc. IN HOLE:

HOLE SURVEY

DEPTH	COLLAR							
DIP	-45°							
MAG. BEARING								
GRID BEARING								
TRUE BEARING	235°							
INSTRUMENT	Brunton							

OBJECTIVE / COMMENTS: Test massive arsenopyrite vein exposed in trench 23.6 m distant at 235°. Intersection planned at 20-25 m below surface, depending on dip angle of vein.

part 2 of 3

9801

WESTERN MINES LIMITED

HOLE NO. Poplar 81-1

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Ounces/Ton Au
0	4.2	Overburden							
4.2	11.0	Argillaceous phyllite				5.6-7.4	1.75	72366	.005
		-dark grey, thin bedded, soft		- 1% pyrite as disseminations		8.6-10.0	1.4	72367	<.003
		- 5-40% disseminated andalusite;		in bedding (syngenetic)		11.5-13.0	1.5	72368	<.003
		(hardness ~6, prismatic), occasional		- quartz vein 4.3-4.4		14.5-16.0	1.5	72369	<.003
		well developed chiastolite cross		- quartz-carbonate vein 7.2-		17.1-18.6	1.5	72370	<.003
		- to 7 m andalusite altered to rusty		7.3		20.1-21.5	1.4	72371	<.003
		pseudomorphs				23.0-24.4	1.4	72372	<.003
		- 7-9 m andalusite altered adjacent				26.2-27.5	1.3	72373	<.003
		fractures				28.8-30.2	1.4	72374	<.003
		- bedding at 60° to core axis				31.5-33.0	1.5	72375	<.003
11.0	28.2	Graphitic black phyllite				34.3-35.7	1.4	72376	<.003
		- subtle change from above				37.3-38.8	1.5	72377	<.003
						40.0-41.5	1.5	72378	<.003

WESTERN MINES LIMITED

HOLE NO. 1

~~FEET~~ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Ounces/Ton Au				
		- andalusite less abundant, (about 5%),		3-5% syngenetic pyrite as		42.5-43.7	1.2	72379	<.003				
		especially in hard dark grey cherty		disseminated and thin bands		45.8-47.3	1.5	72380	<.003				
		bands.		in bedding		48.4-50.0	1.6	72381	<.003				
		- sporadic early anastomosing quartz				51.3-52.8	1.5	72382	<.003				
		veinlets at moderate angle to bedding				54.0-55.6	1.6	72383	<.003				
		- abundant minor folds with variable				57.0-58.5	1.5	72384	<.003				
		style ranging from similar to ptygmatic.				60.0-61.4	1.4	72385	<.003				
28.2	30.0	Feldspathic (?) lapilli tuff											
		- soft, light greenish grey											
		- 5-10% flattened, 0.5-1.0 cm, medium		0% pyrite									
		green fragments in feldspar (?)-rich											
		(30%) matrix											
		- sharp conformable contacts with											
		sediments above and below.											

WESTERN MINES LIMITED

HOLE NO. 1

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
30.0	63.1	Argillite							
	End of Hole	- dark grey, semi hard, finely bedded		- streaks and disseminations					
		with alternating mm to cm scale light		of syngenetic po and lesser					
		and dark laminae		py (0.5%)					
		- well displayed minor folds							
		- no andalusite							
		- very well bedded							
		- darker, nearly black 32.7-39.2							
		- thin light green tuff beds at 50.9,		42.5-43.7, swarm of qtz-chl					
		51.2, 53.1, 53.6-54.3, 54.4 m		veins with 5% po, 5% py; each					
		- abundant anastomosing quartz veins with		vein 1-12 cm wide					
		minor carb, accessory po. lesser py from							
		50-56 m (i.e in the tuffaceous interval).							
		Quartz veins appear to have been emplaced							

WESTERN MINES LIMITED

HOLE NO. 1

FEET / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
		into semi-consolidated sediments.							
		- sporadic 2 x 5 cm rounded grey siliceous							
		(?) knots of uncertain primary, diagenetic							
		or structural origin. Possibly diagenetic nodules							
		as bedding deflects around them							
		- small (< 1 mm) biotite crystals are							
		common.							
		- slip along cleavage planes.							

WESTERN MINES LIMITED

PAGE 1 OF 5

HOLE NO. Poplar 81-2

PROPERTY: Poplar	N.T.S.	LAT.:	LOGGED BY: P. Wojdak	DATE: Oct. 5/81	COLLARED: Sept. 28/81
PROJECT NO.: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE:	COMPLETED: Sept. 30/81

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH	217 ft.		
ELEVATION			
HOLE COORD.			

CASING: LEFT IN HOLE: YES ___ NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS
NQ	217 ft.				

EQUIPMENT, RODS, BIT, etc. IN HOLE:

HOLE SURVEY

DEPTH	COLLAR	207'						
DIP	-45°	-53°						
MAG. BEARING								
GRID BEARING								
TRUE BEARING	045°							
INSTRUMENT	Brunton/Acid Test							

OBJECTIVE / COMMENTS: Test massive arsenopyrite vein 15 m along strike of Trench GS-20.

WESTERN MINES LIMITED

HOLE NO. 2

METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Ounces/Ton Au
0	4.2	Casing in overburden							
4.2	26.2	Argillite				5.5-7.0	1.5	72386	<.003
		- very well banded				8.3-9.8	1.5	72387	<.003
		- darky grey, finely laminated		- disseminated pyrite and po		11.0-12.4	1.4	72388	<.003
		- bedding defined by alternating laminae of different colour		equal proportion totalling		14.1 15.6	1.5	72389	<.003
		- abundant finely disseminated euhedral		0.5%		17.0-18.4	1.4	72390	<.003
		biotite.				19.5-21.0	1.5	72391	<.003
		- mm-scale siliceous laminae (chert beds?)		- 17.4: folded 1 cm wide quartz		22.6-24.0	1.4	72392	<.003
		- toward end of interval alternating colour		vein with pyrite and		25.7-27.1	1.4	72393	<.003
		laminae give way to uniformly dark grey		arsenopyrite (?).		29.0-30.4	1.4	72394	<.003
		to black rock.							
		- Bedding angle to C.A. = 15°							
		- sporadic quartz veinlets..							
26.2	29.5	Graphitic black phyllite		- 2% pyrite as thin bedded seams.					
		- very thin bedded (few mm) cherty laminae.		- quartz vein at 29.0 and 29.1-29.2; no sulphides.					

WESTERN MINES LIMITED

HOLE NO. 2

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Ounces/Ton Au				
29.5	43.3	Argillite				32.8-34.2	1.4	72395	<.003				
		- dark grey locally black and graphitic		- trace po		34.2-35.3	1.1	72396	<.003				
		- light siliceous laminae are common		- 36.9 and 37.4: 5 cm quartz		36.3-37.7	1.4	72397	<.003	← possibly correlative with as-py vein on surface			
		- prominent crenulation cleavage with slip		vein with minor chlorite		40.2-41.6	1.4	72398	<.003				
		along S_2.											
		- from 38.6; biotite bearing banded											
		grey argillite											
		- 39.7 - biotite and andalusite											
		- bedding to C.A. = 15-25°.											
43.3	46.9	Greenstone				43.2-44.7	1.5	72399	<.003				
		- massive chlorite schist with sharp		- 2% disseminated sulphide		45.8-47.2	1.4	72400	<.003				
		conformable contact		(po, lesser py)									
		- disseminated carbonate and 2 mm cross-											
		cutting carbonate fractures											

WESTERN MINES LIMITED

HOLE NO. 2

FEET/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Ounces/Ton Au/ppb	Au
		- biotite for 8 cm into greenstone from								
		conformable contact with argillite.								
		- 5 cm argillite interbed at 44.0								
46.9	48.7	Black graphitic phyllite				48.6-50.0	1.4	72256		<.003
48.7	50.3	Greenstone				49.9-51.3	1.4	38773	80	
		- conformable contact at 15° to C.A.		49.4-49.7 - quartz vein zone		50.0-51.3	1.3		80	
				with veins parallel to layering.		51.3-52.8	1.5	72257	80	
50.3	51.8	Argillite and greenstone		50.6-51.3 quartz vein zone		54.0-55.0	1.0	72258	80	
		- intermixed sediments and volcanics		in contact zone between		55.0-57.0	2.0	72259	80	
				argillite and greenstone		58.2-59.5	1.3	72260		<.003
						63.2-64.5	1.3	72261		<.008
51.8	66.1	Argillite				65.2-66.1	0.9	72262		<.006
(End of Hole)		- thin bedded, grey to black		54.0-57.0 quartz vein zone;						
		- numerous thin graphitic beds from few cm thick		barren, irregular, from sub-parallel to bedding to sharply cross-cutting.						

WESTERN MINES LIMITED

HOLE NO. 2

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
		- rare intervals with abundant biotite							
		- locally, grey prismatic mineral with							
		light alteration rims.							

WESTERN MINES LIMITED

PAGE 1 OF 3. HOLE NO. Poplar 81-3

PROPERTY: POPLAR	N.T.S.	LAT.:	LOGGED BY: P. Wojdak	DATE: Oct. 5/81	COLLARED: Sept. 30/81
PROJECT NO.: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE:	COMPLETED: Oct. 1/81

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH	157'		
ELEVATION			
HOLE COORD.			

CASING: LEFT IN HOLE: YES ___ NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS

EQUIPMENT, RODS, BIT, etc. IN HOLE:

HOLE SURVEY

DEPTH	COLLAR	157'							
DIP	-60°	-64°							
MAG. BEARING									
GRID BEARING									
TRUE BEARING	045°								
INSTRUMENT	Brunton/Acid Test								

OBJECTIVE / COMMENTS: Test quartz vein in Trench GS-30 and associated Au-As soil geochem anomaly on Line 41+00NW.

WESTERN MINES LIMITED

HOLE NO. 3

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au/oz/Ton		
0	2.0	Casing in overburden											
2.0	15.1	Siliceous Argillite				4.6-5.1	.5	72263			<.003		
		- dark grey to black, hard,		1% streaky pyrite		7.9-9.3	1.4	72264			<.003		
		- poor to moderately well bedded				10.6-12.0	1.4	72265			<.003		
		- bedding to C.A. = 15°				13.4-14.8	1.4	72266			<.003		
		- small but euhedral andalusite common.											
15.1	16.6	Greenstone											
		- massive light green chlorite phyllite											
		with disseminated carbonate (10-20%) and											
		numerous 1-8 mm stringers.											
16.6	36.6	Argillite				16.2-17.6	1.4	72267			<.003		
		- dark grey to black, well developed thin				20.0-21.5	1.5	72270			<.003		
		laminations		23.0-23.3 Quartz vein with		21.5-23.0	1.5	72271			<.003		
		- softer, not as siliceous as 2.0-15.1		sparse pyrite		23.0-24.5	1.5	72272			<.003		

WESTERN MINES LIMITED

HOLE NO. 3

~~FEET~~ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS				
		- minor andalusite to 27.0				24.5-26.0	1.5	72273			<.003		
		- from 27.0 becomes very well bedded and				26.0-27.5	1.5	72274			<.003		
		high in andalusite.				27.5-29.0	1.5	72275			<.003		
		31.0-31.5 - interbedded pale green chlorite				29.0-30.4	1.4	72276	<10				
		phyllite (tuff?) and argillite at 25° C.A.				30.4-32.0	1.6	72277	100				
		with carb in tuff and andalusite in											
		argillaceous beds.											
36.6	38.5	Greenstone											
		- massive, light green											
		- conformable contacts at 25° C.A.											
		- disseminated carbonate											
38.5	47.9	Argillite to Siliceous argillite											
	End of Hole	- black to dark grey											
		- similar to 16.6-36.6 - bedding to C.A. = 25° - 40°.											

WESTERN MINES LIMITED

PAGE 1 OF 10. HOLE NO. Poplar 81-4

PROPERTY: POPLAR	N.T.S.	LAT.:	LOGGED BY: A. Marr	DATE: Oct.6,8/81	COLLARED: Oct. 1/81
PROJECT NO.: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE:	COMPLETED: Oct. 3/81

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH			257 ft.
ELEVATION			
HOLE COORD.			

CASING:
LEFT IN HOLE: YES ___
NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS

EQUIPMENT, RODS, BIT, etc. IN HOLE:

HOLE SURVEY

DEPTH	COLLAR								
DIP	-45°								
MAG. BEARING									
GRID BEARING									
TRUE BEARING	225°								
INSTRUMENT	Brunton								

OBJECTIVE / COMMENTS: Final test of arsenopyrite vein exposed in Trench GS-20 near line 42+00NW and on line 41+00NW as arsenopyrite-bearing quartz vein.

WESTERN MINES LIMITED

HOLE NO. 4

FEET/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb	Auoz/Ton
0	4.3	Overburden								
4.3	4.5	Thinly laminated, green mafic volcanic		5-7% disseminated syngenetic						
		tuff		pyrite; pyrite is elongated						
		20% carbonate in stringers & finely		in bedding plane						
		disseminated		- some blebs are 4-5 cms across						
		15-20% disseminated biotite(?),possible		& 5 cm wide						
		comtamination from neighbouring sediments								
		Core Axis: Fol'n - 80-85°								
4.5	6.1	Thinly bedded, dark grey to black,		po. py & very minor cp well		4.7-5.7	1.0	72278	<10	
		siliceous argillite		disseminated in conformable blebs						
		- strongly interlaminated with approx.								
		10-15% carbonate stringers & disseminated								
		carbonate crystals throughout matrix.								
		Carbonate may count as high as 30-40%		(1) 4.65-4.80 m: quartz vein						

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Auoz/Ton		
		- rock is hard & resistant		complex well folded with									
		- carbonate veinlets run conformably with		associated carbonate & approx.									
		foliation		2-5% po & py in veins.									
		Core Axis-Foliation-65°		(2) 5.35-5.65 m: quartz vein									
				containing 2-5% po-once again,									
				vein is strongly folded									
				quartz vein in (1) is conformable									
				with bedding; quartz vein in									
				(2) appears to cross-cut bedding									
				with Core Axis: Foliation =									
				20°									
6.1	7.6	Strongly carbonated mafic volcanic tuff		overall concentration of									
		- 40% carbonate mainly as disseminated		sulphides is approx. 1% or less									
		crystals		- 6.9 m there is minor po & cp- trace disseminated pyrite									

WESTERN MINES LIMITED

HOLE NO. 4

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au/oz/Ton			
		- 6.6 m there is the beginning of a light/												
		dark alternation; i.e., thinly bedded												
		argillaceous unit with volcanic inter-												
		laminae												
		- 6.7-7.0 there are minor quartz carbonate												
		veins varying in width from .1-1.5 cms.												
		- 7.5 m there is zone of 90% carb. mixed												
		with volcanic rock.												
		C.A. = 50-55°												
.6	23.5	Dark, graphitic phyllite		well disseminated po & py										
		- variably thinly laminated with frequent		(syngenetic) - there are several										
		conformable quartz-carbonate veins		very rusty zones: (7.7, 8.3, 8.5,										
		C.A. = 50%		8.8, 9.2) - these are probably										
				due to water flow through cracks in bedrock										

FEET / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Auoz/Ton		
				-12.5-12.8 m there are en échelon									
				dilational cracks filled with									
				carbonate									
				- numerous small scale folds									
				throughout unit									
				- there has been strike slip									
				faulting (along the bedding									
				plane)									
				- there is a local increase in									
				the amount of sulphide from									
				22.5-23.5 mainly po, cp & py									
				- minor quartz veins at 23.2									
				& 21.8 m, mineralization									
				associated with quartz veins is po & very minor cp.									

WESTERN MINES LIMITED

HOLE NO. 4

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Auoz/Ton		
23.5	24.7	Thin zone of very well carbonated		well disseminated syngenetic									
		mafic tuff		po & py									
		- flow banding											
		- argillaceous component increases											
		downcore-probable contamination											
		from sediments											
		- C.A. = 45°											
24.7	28.1	(above unit grades into this unit)		overall sulphide content ≤1%									
		thinly bedded graphyllite interlaminated		- mainly po & py									
		with variably sized carbonate veinlets		- 20-25% carbonate									
				- at 28.0 there is quartz									
				veins with carbonate &									
				minimum py & po.									

WESTERN MINES LIMITED

HOLE NO. 4

FEET / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb	Auoz/Ton
28.1	31.2	strongly carbonated mafic tuff		well mineralized in po with						
		foliation: C.A. = 50°		some minor cp						
		quartz-carbonate vein: C.A. = 55°/30°		quartz vein at 30.3 m (moderately						
				well mineralized in po-quartz vein						
				to 30.55 (anastomozed)						
				quartz vein is conformable to						
				bedding						
31.2	51.0	-moderately carbonated graphitic phyllite		sulphides are scant with high		37.4-38.7	1.3	72279	<10	
		with many moderately sized quartz veins		concentrations found at 32.05 m						
		(<1 cm-10 cms)		37.9-38.05-there is quartz vein						
		- there are discrete bands of volcanics		zone with ~30% carbonate		38.7-39.8	1.1	72280	<10	
		within the sediments-these bands vary		-there is much free chlorite						
		from 4.5 cms		associated with quartz veins						

~~FEET~~ / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Auoz/Ton			
		- 15 cms-poor py mineralization associated		38.27-38.6-quartz carbonate		41.8-43.0	1.2	72281	30					
		with volcanic banding		veins associated with minor volcanic flow banding										
		- 43.28-43.98-section of compositionally		quartz vein intervals: 39.15-39.25										
		similar rock-it differs from the main		41.8-42.05 anastomozing 42.79-42.88 41.3-41.48 volcanic type flow banding										
		unit in that it lacks the irregular												
		folding characterizing the rest of the												
		unit-it is homogeneous & well carbonated		-there is virtually no sulphide										
		(20% carbo)		in 43.28-43.98										
		- from 43.98 onward the rock returns to		-mainly po & py are found in this unit ≤ 2%										
		a well folded, thinly laminated,		-49.4-49.6-quartz vein in a fold										
		carbonated graphyllite												
		- at 44.9 rock becomes darker implying		-44.9-51.0 py in rock increases										
		an increase in the graphitic component		to 5-7%										
		- increased carbonation here increases the hardness												

WESTERN MINES LIMITED

HOLE NO. 4

FEET / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb	Auoz/Ton
51.0	56.25	light green, strongly carbonated, mafic,-		5-7% disseminated po		51.0-52.3	1.3	72282	<10	
		soft, fine grained, schistose C.A. 60°		30-40% carbonated						
		tuff		51.1-51.2 } quartz vein 51.38-51.65 }		55.4-56.4	1.0	72283	<10	
				51.65-52.03 minor qtz veins qtz veins are generally conformable						
				to foliation 55.75-56.05 zone of several						
				minor quartz veins						
				carbonation stronger on qtz vein margins						
56.25	56.30	contact is separated by a quartz vein								
56.30	64.49	dark grey, hard, very lightly carbonated graphitic argillite C.A. = 70°		po.py,cp 8-10% with increased sulphide concentrations in the ~~following intervals~~		57.3-58.8	1.5	72284	<10	
		5-10% carbonate		57.3-57.5,59.96-61.5,63.4-64.2		60.0-61.5	1.5	72285	<10	
		- rock shows evidence of intense strike- slip, i.e., faulting along foliation		qtz veins located at following: 57.73-57.78, 58.00-58.20 qtz		63.0-64.5	1.5	72286	<10	
				vein system, 58.50-58.55 with						
				associated py & po						
				-there are many anastomozed veins of qtz associated with the zones of concentrated sulphides						

WESTERN MINES LIMITED

HOLE NO. 4

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
64.49	65.24	thin unit of variably carbonated, light-dark green banded mafic tuff C.A. 70-80°		8-10% po. py as elongated growths within fracture or					
				plane of foliation					
65.24	78.33	hard, dark grey-grey-green, lightly carbonated argillite variably graphitic		quartz veins at 65.9-66.1 3-5% po & py					
		- unit is well folded (gentle flow) type folding		massive chlorite minor py, po					
		- strike-slip faulting							
		- crenulation folding (?)							

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PAGE 1 OF 7. | HOLE NO. 81-5

PROPERTY: POPLAR	N.T.S.	LAT.:	LOGGED BY: P. Wojdak	DATE: Oct. 6,7,8/81
PROJECT NO: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE:

COLLARED: Oct. 4, 1981
COMPLETED: Oct. 6, 1981

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH	247'		
ELEVATION			
HOLE COORD.			

CASING:
LEFT IN HOLE: YES ___
NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS
NQ					
			Good ground		

EQUIPMENT, RODS, BIT, etc. IN HOLE:

HOLE SURVEY

DEPTH	COLLAR							
DIP	-50°							
MAG. BEARING								
GRID BEARING								
TRUE BEARING	215°							
INSTRUMENT	Brunton							

OBJECTIVE / COMMENTS: Quartz-arsenopyrite vein(s) exposed in Trench GS-34 and associated soil geochem anomaly on line 41+00NW.

WESTERN MINES LIMITED

HOLE NO. 5

~~FEET~~ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton		
0	4.0	Casing in overburden											
4.0	6.9	Argillite											
		- thin bedded, light and dark grey, rare											
		quartz bands											
		- conformable, gradational contact with											
		underlying cherty top of greenstone											
		- bedding to C.A. = 60°											
6.9	68.2	Greenstone											
		- massive, light green chlorite phyllite.											
		- conformable 0.5-1 cm quartz veinlets											
		with no alteration envelopes, average of 2-3											
		per metre throughout interval											
		6.9-9.4 well laminated, with several chert/		6.9-9.4 4% po, 1% py	6	8.3-9.4	1.1	72287	10				
		sulphide bands		as sulphide laminae									

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton			
		- C.A. to chert beds = 80°												
		- from 9.4 disseminated carbonate = 10-20%												
		plus 5% as stringer veinlets which are		-15.6 4 cm quartz vein with		15.2-15.9		72288	100					
		mainly sub-conformable to layering but		10 cm bleached envelope with										
		some are steep and irregular		5% disseminated arsenopyrite										
		9.4-14.5 massive greenstone		16.3-16.6 quartz vein with		15.9-17.3		72289	40					
		14.5-20.3 layered, banded greenstone.		minor feldspar and chlorite,										
		Alteration in vein envelopes includes		traces of arsenopyrite in vein										
		strong calcite		margin										
		-25.5-26.1 several 1-2 cm sedimentary beds,		-16.8 7 cm quartz vein, 5 cm										
		interflow sediment(?), C.A. to layering =		bleached halo with 5-10%										
		75-80°		disseminated arsenopyrite										
				17.0 8 cm quartz vein, poorly developed envelope, trace aspy										
				-17.15 1 cm quartz vein, 2% aspy -17.2-17.3 three 1 cm quartz										

WESTERN MINES LIMITED

HOLE NO. 5

~~FEET~~ / METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton		
				veins with 1% aspy in envelope									
				19.3-3 cm quartz veins with 15		19.0 19.5	0.5	72290	110				
				cm bleached envelope, 4% diss.		19.5-22.3		38701	20				
				aspy.									
				26.5-29.5 4% coarse euhedral py,									
		31.8-32.4 tuffaceous laminae		but typically less than ½% py									
		34.5-34.8 sedimentary laminae		in greenstone		42.0-43.2	1.2	72291	<10				
		42.0-43.2 layered greenstone with some		42.0-43.2 2% po with chert									
		chert laminae											
		43.2-45.5 Quartz veins with aspy mainly		43.25 2 cm quartz veins, strong		43.2-45.5	2.3	72292	540		.018		
		in bleached alteration envelopes. Most veins		2 cm envelope, 10% aspy									
		at 70-90° to C.A.		43.3 3 cm quartz veins, no envelope									
				43.4 3 cm quartz veins, no envelope									

WESTERN MINES LIMITED

HOLE NO. 5

FEET/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton		
				43.45-43.6 quartz veins, weak									
				envelope, trace aspy.									
				43.9-44.3 bull quartz vein at 90°									
				to C.A., strong 10 cm envelope,									
				15% aspy.									
				44.55 4 cm quartz veins at 45°									
				to C.A., 5 cm envelope									
				44.6-45.1 Quartz vein sub-parallel									
				to C.A. with 5% aspy in vein and									
				2 cm envelope (with aspy)									
				45.45 3 cm Quartz vein with 10%									
				coarse aspy in vein but no									
				envelope.									

WESTERN MINES LIMITED

HOLE NO. 5

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton		
		46.5-48.0 heavily diss. carb. (30-40%)				45.5-47.0		72293	160				
		48.8 Quartz-py stringer parallel to C.A.		49.2-50.1 5% coarse diss. aspy		47.0-48.2		72294	10				
		for 0.5m		in lightly bleached interval		48.2-49.2		72295	100				
		50.1-56.5 medium green, massive greenstone,		with 3 quartz veinlets		49.2 50.1	0.9	72296	600		.044		
		10% disseminated carbonate.											
		57.5-68.2 massive greenstone, weakly		57.1 2 cm quartz-carbonate		56.7-57.6	0.9	72297	1200		1.404	.996 reassay	
		carbonated (5%)		vein, 20 cm bleached envelope,		57.6-59.4		38702	<10				
		60.0 brecciated quartz-chlorite vein at 30°		with 5% po, less than 1% py,		59.4-60.4	1.0	72298	340		<.003		
		to C.A., 20 cm wide		no aspy.									
68.2	70.0	Mafic tuffite											
		- thin bedded alternating mm scale light											
		green tuff, chert and dark argillite											
		- calcite crystals grow across bedding.											

WESTERN MINES LIMITED

HOLE NO. 5

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS
70.0	73.0	Greenstone							
		- massive, weak calcite alteration (5%),							
		comparable to 57.5-68.2							
		- few sub-conformable quartz veinlets,							
		about 1 per 3 m.							
73.0	75.3	Mafic tuffite							
	(End of Hole)	- similar to 68.2-70.0, except little							
		chert, mostly pale green tuff, 20%							
		argillite							
		- 0.5 m bed of lapilli tuff at 74.5-75.0							

WESTERN MINES LIMITED

PAGE 1 OF 6

Poplar - HOLE NO. 81-6

PROPERTY: GOLDSMITH, POPLAR	N.T.S.	LAT.:	LOGGED BY: A. Marr	DATE: Oct. 8, 1981	COLLARED: Oct. 6, 1981
PROJECT NO.: 50051	82K/6E	DEP.:	SURVEYED BY: A. Marr	DATE: Oct. 7, 1981	COMPLETED: Oct. 7, 1981

COLLAR: CHAINED ; SURVEYED ; ESTIMATED ;

	GROUND	DRILL DECK	TOP OF CASING
LENGTH			
ELEVATION			
HOLE COORD.			

CASING: LEFT IN HOLE: YES ___ NO X

CORE SIZE	DEPTH		HOLE CHARACTERISTICS		
			CAVING	LOST CIRCULATION	WATER POINTS
NQ	78.33 m				

EQUIPMENT, RODS, BIT, etc IN HOLE:

HOLE SURVEY

DEPTH	COLLAR	78.33	metres						
DIP	-45°								
MAG. BEARING									
GRID BEARING									
TRUE BEARING	210°								
INSTRUMENT	Brunton Transit Compass								

OBJECTIVE / COMMENTS: The unit found from 67.49 m - 69.04 m is the same unit which is found in Hole #5 from ~72.75 to the end.

TARGET: Quartz-arsenopyrite vein(s) exposed in trench GS-18 on line 42+00NW.

WESTERN MINES LIMITED

HOLE NO. 6

~~FEET~~/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb	Au oz/Ton
0	4.1	Casing through overburden								
4.1	5.98	Felsic volcanic - hard, grey, feldspathic,		- subhedral plagioclase crystals						
		siliceous, pyrrhotitiferous		60-70% albite-oligoclase(?)						
		- matrix is massive, very fine grained		- approx. 20% siliceous component						
		C.A. = 55-60°		- po ~15% - well disseminated						
				throughout matrix-syngenetic						
				- there is high frequency of						
				fracturing with evidence of ground						
				water passage						
				Quartz vein at 5.28 m (3 cm						
				wide), rusty with py inclusion,						
				otherwise poorly mineralization						
				- po in form of amorphous blebs						

WESTERN MINES LIMITED

HOLE NO. 6

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton	
5.98	7.48	argillaceous felsic volcanic transition zone		- numerous minor shear faults								
		same mineralogy as above with 10% argillaceous		within foliation plane								
		component localized in small bands (3 cms		- po ~15% amorphous blebs								
		wide)										
		- last 20 cms of section, argillaceous										
		component increases to 30%										
7.48	7.53	brecciated rusty Quartz vein-moderately well										
		mineralized in py, 7-10%										
7.53	16.20	Siliceous Argillite: with well dissem. graphitic component		8.73-9.33 m zone of increased py, mineralized and minor								
		- variable andalusite ~15-20% - variably siliceous-grey to grey-black bands		anastomozed quartz veinlets, here the rock is more graphitic								
		with minor qtz. veinlets - some intense minor folding evident		12.37-12.72 m, hard, siliceous felsic zone around 1 cm								
		especially within the zones of variable silicification (i.e, banded zones)		wide combined qtz-ankerite vein-euhedral crystals of carbonate								
		- within the zones which are less folded		C.A. 10-15°								
		there are again										

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HOLE NO. 6

FEET	METRES	ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb	Au oz/Ton
		- soft sediment deformation, slump folds		- well mineralized in py 10-15%		14.2-15.7	1.5	38703	<10	
		& sedimentary breccia with grey fragments		~						
		in black argillaceous, andalusite-rich		14.42-14.77 Quartz veins (1cm wide) clean contact with						
		matrix		siliceous argillite host rock;						
				some brecciated fragments of						
				argillite in quartz-poor						
				mineralization in py <2% C.A.=						
				10° - surrounding rock contains						
				sporadic amounts of po (<1%-10%)						
16.20	34.41	Silicified Mafic Volcanic Tuff:								
		- pale green, hard		-5% disseminated py often as euhedral cubes		18.7-20.2	1.5	38704	<10	
		- several small qtz veins, which generally conform to the poorly defined foliation,		-there is variably dissem. andalusite crystallization						
		can be found ranging from <1 mm-2 cms		-within last meter of section						
		- mineralization is poor - C.A. 55-60°		argillaceous component increases rendering tuff a darker green						

WESTERN MINES LIMITED

HOLE NO. 6

FEET/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton	
34.41	45.0	Intermixed volcanics & sediments:										
		variably banded, dark grey to green		primary mineralization is mainly py (<3%)		27.2-28.7	1.5	38705	<10			
		the argillaceous component appears to dominate as 65%		Quartz veins at 44.30-44.38 (poorly mineralized)		28.7-30.1	1.4	38706	<10			
		- the unit is hard and periodically well folded especially in the vicinity		there are several smaller quartz veins which are lightly		30.1-31.6	1.5	38707	<10			
		of larger quartz veins - there may be a significant feldpathic		anastomozed but all generally conform to bedding		33.0-34.5	1.5	38708	<10			
		component to the rock, i.e. what appears		- most are <1 cm		34.5-35.9	1.4	38709	<10			
		to be andalustie (15%) may, in some cases, be feldspar C.A.: ~70°				42.5-44.0	1.5		10			
45.0	67.49	Mafic Volcanic Flow greenstone				44.0-45.8	1.8		<10			
		- pale green, very homogeneous chlorite		many small quartz veins 2 cms		45.8-47.3	1.5	38710	<10			
		schist		wide & less-spare mineralization		47.3-48.7	1.4	38711	<10			
				(po <1%) C.A. - 50° for most		53.1-54.6	1.5	38712	<10			
				quartz veins								

WESTERN MINES LIMITED

HOLE NO. 6

FEET/ METRES		ROCK TYPE / ALTERATION	GRAPHIC LOG.	MINERALIZATION / STRUCTURE	% SULFIDE	SAMPLE INTERVAL	SAMPLE LENGTH	SAMPLE NO.	ASSAYS Au/ppb		Au oz/Ton		
67.49	69.04	- well variegated, banded mafic tuff		minor accumulation of py (<1%)		54.6-56.1	1.5	38713	480		<.003		
		- variation in bands is probably due to				56.1-57.4	1.3	38714	<10				
		argillaceous contamination											
		C.A.: 80-90°											
69.04	78.33	- pale green, homogeneous to poorly		- <1% pyrrhotite		57.4-58.9	1.5	38715	<10				
		banded mafic tuff		- numerous small qtz. veins		73.6-76.1	2.5	38716	10				
		C.A.: 85-90°		- variable C.A. 45-85°									
				quartz vein 4 cm & less									