

MAP NO.	ASSESSMENT REPORT	X	DOCUMENT NO.:	092616
	PROSPECTUS		MINING DISTRICT:	Whitehorse
	CONFIDENTIAL	X	TYPE OF WORK:	Diamond Drilling
105 B 7-10	OPEN FILE			

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REPORT FILED UNDER: Cordilleran Engineering Ltd

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DATE PERFORMED: 22 June-25 August, 1988

DATE FILED: 23 November, 1988

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LOCATION: LAT.: 60 30'N,

AREA: Rancheria

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LONG.: 130 27'W

VALUE\$:

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CLAIM NAME & NO.: LOGAN 2,85,90,187,188 (YA45047, YA71075, YA71361, YB10704, YB10705)

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WORK DONE BY: M.A. Stammers (Cordilleran Engineering Ltd)

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WORK DONE FOR: Fairfield Minerals Ltd

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DATE TO GOOD STANDING		REMARKS: #70 LOGAN
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_____		In 1988, 8 NQ holes totalling 1201.97 m were drilled on the
_____		MAIN, EAST & WEST zones. Hole L-88-99 tested the MAIN zone at
_____		depth and intersected 175 m of moderate-grade mineralization.
_____		The best interval averaged 7.14% Zn and 1.07 g/t Ag over 3.0 m.



Indian and Northern  
Affairs Canada

Affaires indiennes  
et du Nord Canada



092137

14 November, 1988

Your file    Votre référence

Our file    Notre référence

340-13-3

DIRECTOR GENERAL, YUKON REGION

ATTENTION: REGIONAL MANAGER MINERAL RIGHTS

RESTRICTED

Enclosed are Diamond Drill Logs etc., submitted by Cordilleran Engineering Ltd. for assessment on the LOGAN mineral claims located on 105-B-07/08/09/10.

Drilling was as follows.

88-L-72	117.65 m	LOGAN 85
88-L-73	121.01 m	LOGAN 85
88-L-81	110.34 m	LOGAN 90
88-L-82	126.64 m	LOGAN 90
88-L-83	123.44 m	LOGAN 90
88-L-91	128.93 m	LOGAN 187
88-L-92	125.27 m	LOGAN 188
88-L-99	348.69 m	LOGAN 2

TOTAL 1,201.97 m

Assessment credit requested is \$ 80,800.00. The drill core is stored on the property.

Yours truly,

Patti L. McLeod  
Mining Recorder  
Watson Lake Mining District  
P. O. Box 269  
Watson Lake, Yukon  
YOA 1C0

092610

cc: Regional Manager, Geological Services  
encl.(s)

Canada

Key to Logan Property 1988 Diamond Drill Hole Log

MINERAL RESOURCES  
WATSON  
1988

Geology Abbreviations

NR	No core recovered
OB	Overburden
QV	Quartz vein
AV	Ankerite vein.
MQV	Mineralized quartz vein
MAV	Mineralized ankerite vein
MS	Sulphide vein
OXBX	Oxidized breccia
QBX	Quartz cemented breccia
ABX	Ankerite cemented breccia
MQBX	Mineralized quartz cemented breccia
MABX	Mineralized ankerite cemented breccia
DIBX	Diatreme (?) breccia
FDBX	Felsite dyke breccia
FQPBX	Feldspar quartz porphyry breccia
GM	Gouge and mud
LON	Mylonite
SCH	Schist
AFD	Altered felsite dyke
FD	Felsite dyke
FQP	Feldspar quartz porphyry
SAGD	Strongly altered granodiorite
AGD	Altered granodiorite
GD	Granodiorite
METS	Metasediments: schist, metasiltstone, quartzite





PROPERTY LOGAN D.D.H. 88 -L- 73 PAGE 1 OF 2  
 AREA: EAST ZONE DIP: -60 ° AZIMUTH (t): 180 ° DEPTH: 121.01m  
 CLAIM: LOGAN 85 NORTHING: 248.94 DATE STARTED: JUNE 24D 1988  
 SECTION: 1480 E EASTING: 1477.77 DATE FINISHED: JUNE 25N 1988  
 CORE SIZE: NQ ELEVATION: 1322.82 m CONTRACTOR: ARCTIC DIAMOND DRILLING LTD  
 CORE RECOVERY: 95 % CORE STORED AT: LOGAN PROP. LOGGED BY: STEWART HARRIS  
 COMMENTS: HOLE L-73 WAS DRILLED TO TEST THE EASTWARD EXTENSION OF THE MAIN ZONE DEPOSIT, NO SIGNIFICANT MINERALIZATION WAS INTERSECTED.

192610  
 10100

UTM COORDINATES: NORTHING 6709158.14 EASTING 420623.85  
 NOTE: All azimuths are set relative to grid north - 324.41° TN

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t
0.00	-60.00°	180.00°	0.00	7.23	7.23		DB										
25.60	-61.50°	180.50°	7.23	8.38	1.15		SCH										
117.04	-61.50°	178.50°	8.38	24.20	15.82		GD										
			24.20	29.59	5.39		SCH										
			29.59	32.61	3.02		GD										
			32.61	40.04	7.43		SCH										
			40.04	41.22	1.18		AGD										
			41.22	44.64	3.42		GD										
			44.64	48.53	3.89		SCH										
			48.53	50.66	2.13		AGD										
			50.66	54.10	3.44		SCH										
			54.10	59.23	5.13		AGD										
			59.23	61.84	2.61		SCH										
			61.84	73.15	11.31		GD										
			73.15	75.53	2.38		SCH										
			75.53	86.27	10.74		GD										
			86.27	88.18	1.91		AGD										
			88.18	89.80	1.62		SAGD										
			89.80	92.49	2.69		GD										
			92.49	94.55	2.06		AGD										
			94.55	97.50	2.95		SCH										
			97.50	102.38	4.88		GD										
			102.38	105.48	3.10		AGD										
			105.48	118.50	13.02		GD										
			118.50	121.01	2.51		SAGD										
ASSAYS AND ANALYSES																	
			115.00	117.00	2.00		GD	72761				44ppm	<	0.1 ppm			
CONTINUED																	



PROPERTY LOGAN D.D.H. 88 -L- 81 PAGE 1 OF 2  
 AREA: EAST ZONE DIP: -60 ° AZIMUTH (t): 180 ° DEPTH: 110.34m  
 CLAIM: LOGAN 90 NORTHING: 173.53 DATE STARTED: JULY 30 1988  
 SECTION: 2295 E EASTING: 2295.93 DATE FINISHED: JULY 30 1988  
 CORE SIZE: NQ ELEVATION: 1293.87 m CONTRACTOR: ARCTIC DIAMOND DRILLING LTD  
 CORE RECOVERY: 85 % CORE STORED AT: LOGAN PROP. LOGGED BY: STEW HARRIS  
 COMMENTS: HOLE L-81 WAS DRILLED TO TEST A MODERATE I.P. ANOMALY AND COINCIDENT MULTIELEMENT SOIL GEOCHEMISTRY ANOMALY. APPROXIMATELY 12m OF WEAK PYRITE-SPHALERITE-ARSENOPYRITE MINERALIZATION WAS INTERSECTED. THE HOLE WAS TERMINATED AFTER DRILLING 52m OF BARREN ROCK.  
UTM COORDINATES: NORTHING 6709555.10 EASTING 421342.75  
NOTE: All azimuths are set relative to grid north - 324.41° TN

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sr	Cu	Pb	As	Au oz/t
0.00	-60.00°	180.00°	0.00	12.19	12.19		OB										
27.43	-61.00°	173.60°	12.19	26.61	14.42		SAGD										
103.63	-61.00°	174.60°	26.61	31.09	4.48		GM										
			31.09	42.98	11.89		AFD										
			42.98	46.22	3.24		GM										
			46.22	58.47	12.25		AGD										
			58.47	60.21	1.74		GM										
			60.21	67.75	7.54		AGD										
			67.75	71.05	3.30		SAGD										
			71.05	76.65	5.60		AGD										
			76.65	81.69	5.04		SAGD										
			81.69	90.01	8.32		GD										
			90.01	92.92	2.91		GM										
			92.92	97.40	4.48		AGD										
			97.40	110.43	13.03		GD										
ASSAYS AND ANALYSES																	
			15.00	17.00	2.00		SAGD	72940			201ppm	1.2 ppm					
			17.00	19.00	2.00		SAGD	72941			738ppm	1.2 ppm					
			19.00	21.00	2.00		SAGD	72942			836ppm	1.1 ppm					
			21.00	23.00	2.00		SAGD	72943			810ppm	1.3 ppm					
			23.00	25.00	2.00		SAGD	72944			3740ppm	1.6 ppm					
			25.00	27.00	2.00		SAGD	72945			1580ppm	0.9 ppm					
			27.00	29.00	2.00		GM	72946			3620ppm	2.5 ppm					
			29.00	31.00	2.00		GM	72947			682ppm	0.7 ppm					
			31.00	33.00	2.00		AFD	72948			507ppm	0.6 ppm					
			33.00	35.00	2.00		AFD	72949			318ppm	0.5 ppm					
			35.00	37.00	2.00		AFD	72950			229ppm	0.3 ppm					
CONTINUED																	



PROPERTY LOGAN D.D.H. 88 -L- 82 PAGE 1 OF 1

AREA: EAST ZONE DIP: -60 ° AZIMUTH (t): 180 ° DEPTH: 126.64m  
 CLAIM: LOGAN 90 NORTHING: 177.67 DATE STARTED: JULY 5N 1988  
 SECTION: 2415 E EASTING: 2415.88 DATE FINISHED: JULY 7D 1988  
 CORE SIZE: NQ ELEVATION: 1282.13 m CONTRACTOR: ARCTIC DIAMOND DRILLING LTD  
 CORE RECOVERY: 89 % CORE STORED AT: LOGAN PROP. LOGGED BY: PAUL CONROY

COMMENTS: HOLE L-82 WAS DRILLED TO TEST A ZN-AG-CU SOIL GEOCHEMISTRY ANOMALY IN THE EAST ZONE. APPROXIMATELY 11m OF WEAK PYRITE-ARSENOPYRITE-GALENA MINERALIZATION WAS INTERSECTED. THE ZONE APPEARS TO PINCH OUT FROM L2400E TO THE EAST. THE HOLE WAS TERMINATED AFTER DRILLING 40m OF BARREN ROCK.

UTM COORDINATES: NORTHING 6709625.86 EASTING 421439.61

NOTE: All azimuths are set relative to grid north - 324.41° TN

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t
0.00	-60.00°	180.00°	0.00	21.95	21.95		OB										
34.44	-61.50°	177.50°	21.95	28.04	6.09		SAGD										
119.79	-62.00°	174.50°	28.04	31.68	3.64		FQPBX										
			31.68	37.24	5.56		SAGD										
			37.24	47.53	10.29		AGD										
			47.53	76.24	28.71		GD										
			76.24	78.07	1.83		AGD										
			78.07	80.77	2.70		GD										
			80.77	89.00	8.23		AGD										
			89.00	126.64	37.64		GD										
ASSAYS AND ANALYSES																	
			22.00	24.00	2.00		SAGD	72956			226ppm	1.2 ppm					
			24.00	26.00	2.00		SAGD	72957			213ppm	1.5 ppm					
			26.00	28.00	2.00		SAGD	72958			184ppm	1.2 ppm					
			28.00	30.00	2.00		FQPBX	72959			256ppm	2.0 ppm					
			30.00	32.00	2.00		FQPBX	72960			293ppm	1.6 ppm					
			32.00	34.00	2.00		SAGD	72961			129ppm	0.5 ppm					
			34.00	36.00	2.00		SAGD	72962			250ppm	1.6 ppm					
			36.00	38.00	2.00		SAGD	72963			616ppm	2.2 ppm					



PROPERTY: LOGAN D.D.H. 88 -L- 91 PAGE 1 OF 2  
 AREA: WEST ZONE DIP: -60 ° AZIMUTH (I): 180 ° DEPTH: 128.93m  
 CLAIM: LOGAN 187 NORTHING: -1036.63 DATE STARTED: JULY 29N 1988  
 SECTION: 3015 W EASTING: -3016.32 DATE FINISHED: JULY 31D 1988  
 CORE SIZE: NQ ELEVATION: 1452.6 m CONTRACTOR: ARCTIC DIAMOND DRILLING LTD  
 CORE RECOVERY: 83 % CORE STORED AT: LOGAN PROP. LOGGED BY: MATT KOKAN  
 COMMENTS: HOLE L-91 WAS DRILLED TO TEST A STRONG ZN SOIL GEOCHEMISTRY ANOMALY AND COINCIDENT STRONG I.P. ANOMALY. APPROXIMATELY 24m OF WEAK PYRITE-SPHALERITE MINERALIZATION WAS INTERSECTED.  
UTM COORDINATES: NORTHING 6705572.04 EASTING 417629.24  
NOTE: All azimuths are set relative to grid north - 324.41' TN

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SURVEY DATA			GEOLOGY AND ASSAY RECORD															
Depth	Dip	Az (I)	From (m)	To (m)	Int. (m)	T.W.(m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t	
0.00	-60.00°	180.00°	0.00	15.54	15.54		OR											
33.22	-61.00°	176.60°	15.54	22.70	7.16		SAGD											
124.66	-61.50°	180.60°	22.70	25.18	2.48		AGD											
			25.18	31.39	6.21		SAGD											
			31.39	32.64	1.25		METS											
			32.64	35.63	2.99		SAGD											
			35.63	67.18	31.55		METS											
			67.18	72.24	5.06		AGD											
			72.24	77.62	5.38		METS											
			77.62	80.16	2.54		SAGD											
			80.16	81.59	1.43		METS											
			81.59	98.87	17.28		AGD											
			98.87	105.76	6.89		METS											
			105.76	106.98	1.22		GM											
			106.98	109.69	2.71		BX											
			109.69	116.23	6.54		GM											
			116.23	119.63	3.40		AGD											
			119.63	128.93	9.30		METS											
ASSAYS AND ANALYSES																		
			36.00	38.00	2.00		METS	73038			1300ppm	0.1 ppm						
			38.00	40.00	2.00		METS	73039			640ppm	0.1 ppm						
			40.00	42.00	2.00		METS	73040			680ppm	0.2 ppm						
			42.00	44.00	2.00		METS	73041			1200ppm	0.1 ppm						
			44.00	46.00	2.00		METS	73042			330ppm	0.1 ppm						
			66.00	68.00	2.00		METS	73043			720ppm	0.1 ppm						
			68.00	70.00	2.00		AGD	73044			650ppm	0.3 ppm						
			70.00	72.00	2.00		AGD	73045			390ppm	0.1 ppm						
CONTINUED																		









PROPERTY LOGAN D.D.H. L 88 - 99 PAGE 3 OF 6

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (t): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t
			186.00	188.00	2.00		AGD	73134			0.44	0.14					
			188.00	190.00	2.00		BX	73135			0.47	0.10					
			190.00	192.00	2.00		BX	73136			0.40	0.22					
			192.00	194.00	2.00		BX	73137			0.39	0.16					
			194.00	196.00	2.00		MBX	73138			0.59	0.12					
			196.00	200.00	4.00		GM	73139			0.23	0.12					
			200.00	202.00	2.00		MBX	73140			0.53	0.14					
			202.00	204.00	2.00		AGD	73141			0.12	0.05					
			204.00	206.00	2.00		AGD	73142			1.46	0.17					
			206.00	208.00	2.00		GM	73143			1.16	0.25					
			208.00	210.00	2.00		AGD	73144			1.90	0.40					
			210.00	212.00	2.00		AGD	73145			1.72	0.90					
			212.00	214.00	2.00		AGD	73146			1.02	0.16					
			214.00	216.00	2.00		AGD	73147			0.98	0.13					
			216.00	218.00	2.00		GM	73148			0.78	0.16					
			218.00	220.00	2.00		GM	73149			0.72	0.16					
			220.00	222.00	2.00		AFD	73150			0.51	0.10					
			222.00	224.00	2.00		AGD	73151			0.56	0.05					
			224.00	226.00	2.00		AGD	73152			0.88	0.05					
			226.00	227.00	1.00		AGD	73153			0.37	0.04					
			227.00	228.00	1.00		AGD	73154			1.26	0.12					
			228.00	229.00	1.00		AGD	73155			2.20	0.37					
			229.00	230.00	1.00		MQV	73156			1.80	1.21					
			230.00	231.00	1.00		MQV	73157			2.59	0.81					
			231.00	232.00	1.00		MQV	73158			0.26	0.57					
			232.00	233.00	1.00		AGD	73159			0.38	0.13					
			233.00	234.00	1.00		AGD	73160			0.88	0.32					
			234.00	235.00	1.00		AGD	73161			0.68	0.10					
			235.00	236.00	1.00		AGD	73162			0.48	0.13					
			236.00	237.00	1.00		AGD	73163			0.33	0.20					
			237.00	238.00	1.00		AGD	73164			0.25	0.11					

CONTINUED

PROPERTY LOGAN D.D.H. L 88 - 99 PAGE 4 OF 6

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (I): \_\_\_\_\_ DEPTH: \_\_\_\_\_

CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_

SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_

CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_

CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_

COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD														
Depth	Dip	Az (t)	From (m)	To (m)	Int. (m)	T.W. (m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t
			238.00	240.00	2.00		AGD	73165			0.52	0.17					
			240.00	242.00	2.00		AGD	73166			0.31	0.08					
			242.00	244.00	2.00		AGD	73167			1.11	0.11					
			244.00	246.00	2.00		AGD	73168			0.37	0.19					
			246.00	248.00	2.00		AGD	73169			0.70	0.19					
			248.00	250.00	2.00		AGD	73170			0.70	0.23					
			250.00	252.00	2.00		AGD	73171			1.36	0.15					
			252.00	253.00	1.00		AGD	73172			0.47	0.15					
			253.00	254.00	1.00		AGD	73173			0.70	0.10					
			254.00	255.00	1.00		AGD	73174			1.12	0.11					
			255.00	256.00	1.00		AGD	73175			0.49	0.17					
			256.00	257.00	1.00		AGD	73176			1.22	0.26					
			257.00	258.00	1.00		AGD	73177			0.88	0.14					
			258.00	259.00	1.00		AGD	73178			1.71	0.48					
			259.00	260.00	1.00		AGD	73179			0.86	0.04					
			260.00	261.00	1.00		AGD	73180			0.51	0.03					
			261.00	262.00	1.00		AGD	73181			0.50	0.03					
			262.00	263.00	1.00		AGD	73182			0.44	0.03					
			263.00	264.00	1.00		AGD	73183			0.72	0.08					
			264.00	265.00	1.00		MQV	73184			0.35	0.10					
			265.00	266.00	1.00		MQV	73185			8.19	2.21					
			266.00	267.00	1.00		SCH	73186			1.50	0.73					
			267.00	268.00	1.00		SCH	73187			11.74	0.28					
			268.00	269.00	1.00		SCH	73188			2.05	0.13					
			269.00	270.00	1.00		SCH	73189			0.45	0.07					
			270.00	271.00	1.00		SCH	73190			1.15	0.09					
			271.00	272.00	1.00		AGD	73191			6.50	0.38					
			272.00	273.00	1.00		AGD	73192			4.25	0.10					
			273.00	274.00	1.00		AGD	73193			13.08	0.43					
			274.00	275.00	1.00		AGD	73194			1.04	0.04					
			275.00	276.00	1.00		AGD	73195			0.66	0.03					
								CONTINUED									



PROPERTY LOGAN D.D.H. L 88 - 99 PAGE 6 OF 6

AREA: \_\_\_\_\_ DIP: \_\_\_\_\_ AZIMUTH (t): \_\_\_\_\_ DEPTH: \_\_\_\_\_  
 CLAIM: \_\_\_\_\_ NORTHING: \_\_\_\_\_ DATE STARTED: \_\_\_\_\_  
 SECTION: \_\_\_\_\_ EASTING: \_\_\_\_\_ DATE FINISHED: \_\_\_\_\_  
 CORE SIZE: \_\_\_\_\_ ELEVATION: \_\_\_\_\_ CONTRACTOR: \_\_\_\_\_  
 CORE RECOVERY: \_\_\_\_\_ CORE STORED AT: \_\_\_\_\_ LOGGED BY: \_\_\_\_\_  
 COMMENTS: \_\_\_\_\_

SURVEY DATA			GEOLOGY AND ASSAY RECORD										VALUES BELOW IN PPM UNLESS NOTED				
Depth	Dip	Az (l)	From (m)	To (m)	Int. (m)	T.W.(m)	Geology	Sample No.	Rec. %	S.G.	Zn %	Ag oz/t	Sn	Cu	Pb	As	Au oz/t
			330.00	331.00	1.00		MQV	73227			1.70	1.21					
			331.00	332.00	1.00		MQV	73228			0.52	0.24					
			332.00	333.00	1.00		MQV	73229			0.40	0.06					
			333.00	334.00	1.00		AV	73230			1.07	1.45					
			334.00	335.00	1.00		AV	73231			1.42	0.78					
			335.00	336.00	1.00		AGD	73232			0.66	0.10					
			336.00	338.00	2.00		AGD	73233			0.36	0.02					
							AVERAGES										
			262.00	280.00	18.00						3.04	0.27					
			265.00	275.00	10.00						4.99	0.45					
			265.00	268.00	3.00						7.14	1.07					
			271.00	274.00	3.00						7.94	0.30					



APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA71075      LOGAN 85

GROUP XII

situated in ALLEN CREEK AREA Claim Sheet No. 105 B 9  
in the WATSON LAKE Mining District, to the value of at least 6000 dollars,  
since the 22 day of JUNE 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. 10AC4689  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 71073, 078</u>	<u>LOGAN 83, 88</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YA 91221</u>	<u>LOGAN 102</u>	<u>4 YEARS EACH TO DEC 31, 1999</u>
<u>YA 98657-668</u>	<u>LOGAN 149-160</u>	<u>4 YEARS EACH TO DEC 31, 1995</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLES 88-L-72 AND 88-L-73 WITH RESPECTIVE DEPTHS OF 117.65M AND 121.01M WERE DRILLED ON THE LOGAN 85 CLAIM BETWEEN JUNE 22, 1988 AND JUNE 25, 1988. THE DIRECT CHARGES FOR ALL TWO DIAMOND DRILL HOLES AMOUNTED TO \$17,550.30.

**09 26 16**

**WATSON LAKE Y.T.**

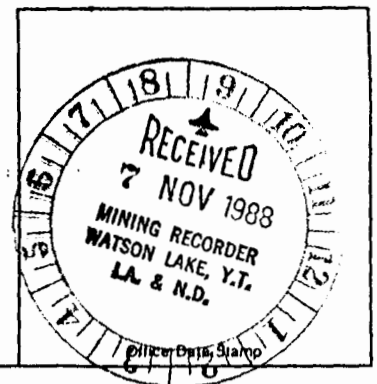
Sworn before me at \_\_\_\_\_

his \_\_\_\_\_ day of NOV - 7 1988, 19 \_\_\_\_\_

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA71075      LOGAN 85

GROUP XIV

s. at ALLEN CREEK AREA Claim Sheet No. 105 B 8, 9  
in the WATSON LAKE Mining District, to the value of at least 6000 dollars,  
since the 22 day of JUNE 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WA04685  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 46270-271</u>	<u>LOGAN 23-24</u>	<u>4 YEARS EACH TO DEC 31, 2003</u>
<u>YA 71053-058</u>	<u>LOGAN 63-68</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YA 71071-072</u>	<u>LOGAN 81-82</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YA 71074-077</u>	<u>LOGAN 84-87</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YA 71360</u>	<u>LOGAN 89</u>	<u>4 YEARS EACH TO DEC 31, 2002</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

DIAMOND DRILL HOLES 88-L-72 AND 88-L-73 WITH RESPECTIVE DEPTHS OF 117.65M AND 121.01M WERE DRILLED ON THE LOGAN 85 CLAIM BETWEEN JUNE 22, 1988 AND JUNE 25, 1988. THE DIRECT CHARGES FOR ALL TWO DIAMOND DRILL HOLES AMOUNTED TO \$17,550.30.

09 26 16

Sworn before me at WATSON LAKE Y.T.  
this NOV - 7 day of 1988, 19       
[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent



APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

make oath and say that:

- 1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- 2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA71361      LOGAN 90      GROUP IX

situated at ALLEN CREEK AREA Claim Sheet No. 105 B 9  
in the WATSON LAKE Mining District, to the value of at least 6400 dollars,  
since the 3 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WAC4090  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 71361-362</u>	<u>LOGAN 90-91</u>	<u>4 YEARS EACH TO DEC 31, 2002</u>
<u>YA 91219</u>	<u>LOGAN 100</u>	<u>4 YEARS EACH TO DEC 31, 1999</u>
<u>YA 98615-627</u>	<u>LOGAN 107-119</u>	<u>4 YEARS EACH TO DEC 31, 1995</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

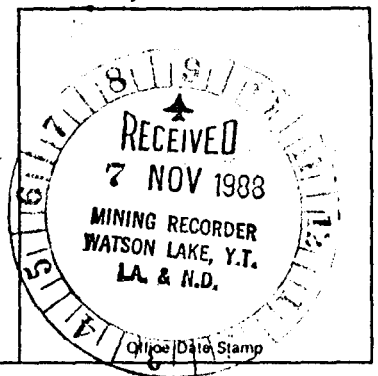
DIAMOND DRILL HOLES 88-L-81, 88-L-82, 88-L-83 WITH DEPTHS OF 110.34m, 126.64m AND 123.44m RESPECTIVELY WERE DRILLED ON THE LOGAN 90 CLAIM BETWEEN JULY 3, 1988 AND JULY 8, 1988. THE DIRECT CHARGES FOR ALL THREE DIAMOND DRILL HOLES AMOUNTED TO \$27,428.20.

09 26 16

Sworn before me at WATSON LAKE Y.T.  
this NOV - 7 1988 day of NOV - 7 1988, 19 88  
[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA 71361      LOGAN 90

GROUP X

situa. ALLEN CREEK AREA Claim Sheet No. 105 B 9

in the WATSON LAKE Mining District, to the value of at least 6000 dollars.

since the 3 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. W204191  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 71363-365      LOGAN 92-94      4 YEARS EACH TO DEC 31, 2002  
YA 98628-639      LOGAN 120-131      4 YEARS EACH TO DEC 31, 1995

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLES 88-L-81, 88-L-82, 88-L-83 WITH DEPTHS OF 110.34m, 126.64m AND 123.44m RESPECTIVELY WERE DRILLED ON THE LOGAN 90 CLAIM BETWEEN JULY 3, 1988 AND JULY 8, 1988. THE DIRECT CHARGES FOR ALL THREE DIAMOND DRILL HOLES AMOUNTED TO \$27,428.20.

09 26 16

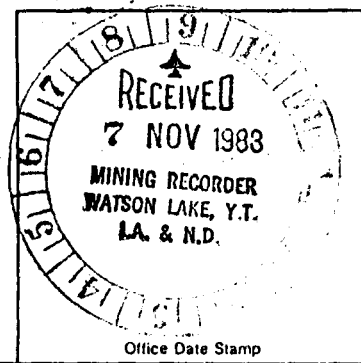
worn before me at WATSON LAKE Y.T.

ils NOV - 7 1988, 19     

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA71361      LOGAN 90

GROUP XI

si. at ALLEN CREEK AREA Claim Sheet No. 105 B 9

in the WATSON LAKE Mining District, to the value of at least 6000 dollars.

since the 3 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WAL693  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 91222, 224</u>	<u>LOGAN 103, 105</u>	<u>4 YEARS EACH TO DEC 31, 1999</u>
<u>YA 98640-643</u>	<u>LOGAN 132-135</u>	<u>4 YEARS EACH TO DEC 31, 1995</u>
<u>YA 98645, 647</u>	<u>LOGAN 137, 139</u>	<u>" " " "</u>
<u>YA 98650-656</u>	<u>LOGAN 142-148</u>	<u>" " " "</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

DIAMOND DRILL HOLES 88-L-81, 88-L-82, 88-L-83 WITH DEPTHS OF 110.34m, 126.64m AND 123.44m RESPECTIVELY WERE DRILLED ON THE LOGAN 90 CLAIM BETWEEN JULY 3, 1988 AND JULY 8, 1988. THE DIRECT CHARGES FOR ALL THREE DIAMOND DRILL HOLES AMOUNTED TO \$27,428.20.

09 26 16

Sworn before me at WATSON LAKE Y.T.

this 7 day of NOV 19 1988

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA71361                      LOGAN 90

GROUP XII

situ: ALLEN CREEK AREA Claim Sheet No. 105 B 9

In the WATSON LAKE Mining District, to the value of at least 6000 dollars.

since the 3 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. W1051692  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

- YA 91220, 223, 225      LOGAN 101, 104, 106      4 YEARS EACH TO DEC 31, 1999
- YA 98644, 646        LOGAN 136, 138        4 YEARS EACH TO DEC 31, 1995
- YA 98648-649        LOGAN 140-141        4 YEARS EACH TO DEC 31, 1995
- YA 98669-676        LOGAN 161-168        " " " "

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

DIAMOND DRILL HOLES 88-L-81, 88-L-82, 88-L-83 WITH DEPTHS OF 110.34m, 126.64m AND 123.44m RESPECTIVELY WERE DRILLED ON THE LOGAN 90 CLAIM BETWEEN JULY 3, 1988 AND JULY 8, 1988. THE DIRECT CHARGES FOR ALL THREE DIAMOND DRILL HOLES AMOUNTED TO \$27,428.20.

09 26 16

Sworn before me at WATSON LAKE Y.T.

his \_\_\_\_\_ day of NOV - 7 1988, 19 \_\_\_\_\_

[Signature]  
Notary Public

[Signature: Mike Stammers]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YB10704

LOGAN 187

GROUP III

situat. at ALLEN CREEK AREA Claim Sheet No. 105 B 7,8  
in the WATSON LAKE Mining District, to the value of at least 3775 dollars,  
since the 29 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WA04688  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA71069-070</u>	<u>LOGAN 79-80</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YB10702, 704</u>	<u>LOGAN 185, 187</u>	<u>4 1/4 YEARS EACH TO DEC 31, 1992</u>
<u>YB10710-714</u>	<u>LOGAN 193-197</u>	<u>4 1/4 YEARS EACH TO DEC 31, 1992</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLE 88-L-91, WITH A TOTAL DEPTH OF 128.93m  
WAS DRILLED ON THE LOGAN 187 CLAIM BETWEEN JULY 29, 1988  
AND JULY 31, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING  
AMOUNTED TO \$10,148.40.

092616

Sworn before me at WATSON LAKE Y.T.

this NOV - 7 1988 day of 19

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
 FORM 4 (SEC. 53)  
 YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
 of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
 (Here list claims on which work was actually done by number and name)

YB10704

LOGAN 187

GROUP IV

situated at ALLEN CREEK AREA Claim Sheet No. 105. B 7, 8

In the WATSON LAKE Mining District, to the value of at least 6025 dollars.

since the 29 day of JULY 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WA09687  
 (Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 71059-060	LOGAN 69-78	4 YEARS EACH TO DEC 31, 2005
YA 46280-283	LOGAN 33-36	4 YEARS EACH TO DEC 31, 2003
YB 10703	LOGAN 186	4 1/4 YEARS EACH TO DEC 31, 1992

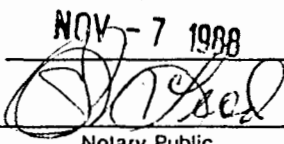
The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

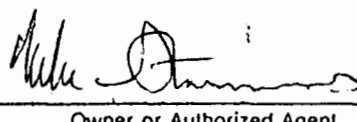
DIAMOND DRILL HOLE 88-L-91, WITH A TOTAL DEPTH OF 128.93m  
 WAS DRILLED ON THE LOGAN 187 CLAIM BETWEEN JULY 29, 1988  
 AND JULY 31, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING  
 AMOUNTED TO \$10,148.40.

092616,

Sworn before me at WATSON LAKE Y.T.

this NOV - 7 1988 day of NOV - 7 1988, 19 88

  
 Notary Public

  
 Owner or Authorized Agent



APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YB10705 LOGAN 188

GROUP I

ated at ALLEN CREEK AREA Claim Sheet No. 105 B 7

in the WATSON LAKE Mining District, to the value of at least 6800 dollars,

since the 1 day of AUGUST 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WACM-14  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YB 10686-699</u>	<u>LOGAN 169-182</u>	<u>4 1/4 YEARS TO EACH TO DEC 31, 1992</u>
<u>YB 10701</u>	<u>LOGAN 184</u>	<u>" " " "</u>
<u>YB 10705</u>	<u>LOGAN 188</u>	<u>" " " "</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLE BB-L-92, WITH A TOTAL DEPTH OF 125.27 M  
WAS DRILLED ON THE LOGAN 188 CLAIM BETWEEN AUGUST 1, 1988 AND  
AUGUST 4, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$10,486.70.

092616

Sworn before me at WATSON LAKE Y.T.

this NOV - 7 1988 day of NOV - 7 1988, 19 88

Notary Public

Owner or Authorized Agent



APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

make oath and say that:

- 1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- 2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YB10705 LOGAN 188

GROUP II

situ ALLEN CREEK AREA Claim Sheet No. 105 B 7

In the WATSON LAKE Mining District, to the value of at least 3400 dollars.

since the 1 day of AUGUST 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WALM45  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YB 10700</u>	<u>LOGAN 183</u>	<u>4 1/4 YEARS TO EACH TO DEC 31, 1992</u>
<u>YB 10706-709</u>	<u>LOGAN 189-192</u>	<u>" " " "</u>
<u>YB 10715-717</u>	<u>LOGAN 198-200</u>	<u>" " " "</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

DIAMOND DRILL HOLE 88-L-92, WITH A TOTAL DEPTH OF 125.27 M  
WAS DRILLED ON THE LOGAN 188 CLAIM BETWEEN AUGUST 1, 1988 AND  
AUGUST 4, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$10,486.70.

092616

sworn before me at WATSON LAKE Y.T.

this NOV - 7 1988 day of NOV - 7 1988, 19 88

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

(name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

I make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA45048 LOGAN 2

GROUP V

situated ALLEN CREEK AREA Claim Sheet No. 105 B 7,8,9,10

in the WATSON LAKE Mining District, to the value of at least 6000 dollars,

since the 19 day of AUGUST, 19 88.

to represent the following mineral claims under the authority of Grouping Certificate No. COAC4684  
Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 46263-265</u>	<u>LOGAN 16-18</u>	<u>4 YEARS EACH TO DEC 31, 2003</u>
<u>YA 71037-048</u>	<u>LOGAN 47-58</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLE 88-L-99, WITH A TOTAL DEPTH OF 348.69m  
WAS DRILLED ON THE LOGAN 2 CLAIM BETWEEN AUGUST 19, 1988 AND  
AUGUST 25, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$ 25,768.05.

092616

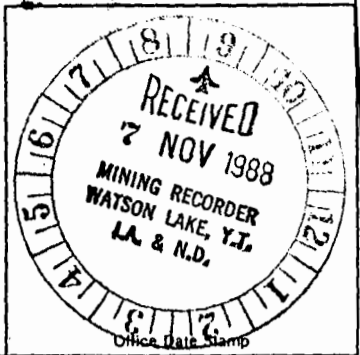
in before me at WATSON LAKE Y.T.

day of NOV 7 1988, 19 88

Notary Public

Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

make oath and say that:

- I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
- I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA45048 LOGAN 2

GROUP VI

I at ALLEN CREEK AREA Claim Sheet No. 105 B B, 9  
in the WATSON LAKE Mining District, to the value of at least .6000 dollars,  
since the 19 day of AUGUST 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. 0A046-3  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 46256-262</u>	<u>LOGAN 9-15</u>	<u>4 YEARS EACH TO DEC 31, 2003</u>
<u>YA 46272-279</u>	<u>LOGAN 25-32</u>	<u>4 YEARS EACH TO DEC 31, 2003</u>

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

DIAMOND DRILL HOLE 88-L-99, WITH A TOTAL DEPTH OF 348.69m  
WAS DRILLED ON THE LOGAN 2 CLAIM BETWEEN AUGUST 19, 1988 AND  
AUGUST 25, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$ 25,768.05.

092616

WATSON LAKE Y.T.

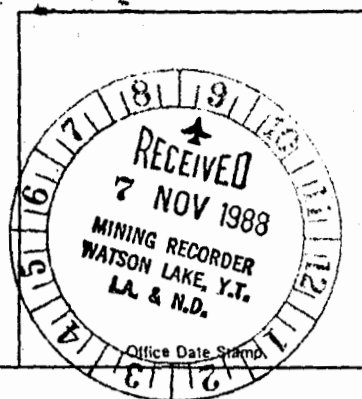
Sworn before me at \_\_\_\_\_

this NOV - 7 1988 day of \_\_\_\_\_, 19 \_\_\_\_\_

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent

APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

I, (name) MICHAEL A. STAMMERS, occupation GEOLOGIST  
of (postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, BC, V6E 2E9

make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA45048 LOGAN 2

GROUP VII

situ ALLEN CREEK AREA Claim Sheet No. 105 B 9

in the WATSON LAKE Mining District, to the value of at least 6000 dollars,

since the 19 day of AUGUST 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. WDC1656  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

<u>YA 71027-036</u>	<u>LOGAN 37-46</u>	<u>4 YEARS EACH TO DEC 31, 2005</u>
<u>YA 91214-218</u>	<u>LOGAN 95-99</u>	<u>4 YEARS EACH TO DEC 31, 1999</u>

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLE 88-L-99, WITH A TOTAL DEPTH OF 348.69m  
WAS DRILLED ON THE LOGAN 2 CLAIM BETWEEN AUGUST 19, 1988 AND  
AUGUST 25, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$ 25,768.05.

09 26 16

In before me at WATSON LAKE Y.T.

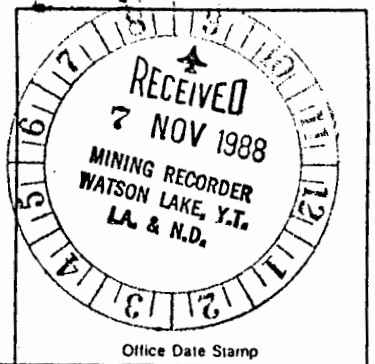
day of NOV - 7 1988, 19

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent



APPLICATION FOR A CERTIFICATE OF WORK  
FORM 4 (SEC. 53)  
YUKON QUARTZ MINING ACT



This form required in duplicate with sketch showing location of work.

(name) MICHAEL A. STAMMERS, occupation GEOLOGIST

(postal address) 1980-1055 WEST HASTINGS STR., VANCOUVER, B.C., V6E 2E9

I make oath and say that:

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):  
(Here list claims on which work was actually done by number and name)

YA45048 LOGAN 2

GROUP VIII

Location at ALLEN CREEK AREA Claim Sheet No. 105 B 8,9

in the WATSON LAKE Mining District, to the value of at least 6400 dollars.

since the 19 day of AUGUST 19 88

to represent the following mineral claims under the authority of Grouping Certificate No. 6340152  
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

- YA 45047-052 LOGAN 1-6 4 YEARS EACH TO DEC 31, 2003
- YA 46254-255 LOGAN 7-8 4 YEARS EACH TO DEC 31, 2003
- YA 46266-269 LOGAN 19-22 4 YEARS EACH TO DEC 31, 2003
- YA 71049-052 LOGAN 59-62 4 YEARS EACH TO DEC 31, 2005

The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.

DIAMOND DRILL HOLE 88-L-99, WITH A TOTAL DEPTH OF 348.69m  
WAS DRILLED ON THE LOGAN 2 CLAIM BETWEEN AUGUST 19, 1988 AND  
AUGUST 25, 1988. THE DIRECT CHARGES FOR DIAMOND DRILLING AMOUNTED  
TO \$ 25,768.05.

- 18,400.00  
- 6,000.00  
131.05

09 26 16

Witnessed before me at WATSON LAKE Y.T.

this NOV -7 day of 1988, 19 88

[Signature]  
Notary Public

[Signature]  
Owner or Authorized Agent