

SAMATOSUM EXPLORATION

DIAMOND DRILL HOLES

825112

RG 32 - RG 42

HOLE NUMBER: RG32

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: SAH
PROJECT NUMBER: 312
CLAIM NUMBER: REA1
LOCATION: SAMATOSUM

PLOTTING COORDS GRID: SURVEY
NORTH: 530.90N
EAST: 9914.70W
ELEV: ~~1501.40~~ 1316.15

ALTERNATE COORDS GRID: FIELD
NORTH: 99+ 0N
EAST: S+25W
ELEV: 1501.52

COLLAR DIP: -60° 0' 0"
LENGTH OF THE HOLE: 148.48m
START DEPTH: 0.00m
FINAL DEPTH: 148.48m

COLLAR GRID AZIMUTH: 180° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 225° 0' 0"

DATE STARTED: October 2, 1984
DATE COMPLETED: October 4, 1984
DATE LOGGED: 0, 0
COLLAR SURVEY: YES
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ

CONTRACTOR: G&D DRILLING
CASING: LEFT IN HOLE
CORE STORAGE: BARRIERE

PURPOSE:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.00	-	-58° 0'	ACID	OK		-	-	-	-	-	
60.00	-	-58° 0'	ACID	OK		-	-	-	-	-	
90.00	-	-57° 0'	ACID	OK		-	-	-	-	-	
120.00	-	-56° 0'	ACID	OK		-	-	-	-	-	
148.00	210° 0'	-58° 0'	TRD-PARI		SUSPECT	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
-	-	-	-	-	-	-	-	-	-	-	
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FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALISATION	REMARKS
0.00 TO 15.55	CASING <CB>					
15.55 TO 35.10	MAFIC LAPILLI TUFF <MT>	Colour - dark grey to light grey to buff Grain Size - fine grained Pale coloured (<1.5mm lapilli in a fairly altered matrix. So many of the lapilli are hexagonal in shape - suspect monomineralic (cordierite?). They are NOT flattened along the moderately to weakly developed foliations. Bottom of unit (in the hole) (top in stratigraphy?) is marked by two muddy pyrite beds, approx. 10cm and 25cm thick, separated by 10cm of sericitic tuff. Contact sharp at =	90	Begins predominantly chloritic but with buff, sericitic patches. Becomes more sericitic especially so beyond 25m	Traces of pyrite only except locally in qtz-carb veins. 30% py, tr sp in beds.	Minerals are hexagonal to slightly rounded, generally white, locally tinged blue or green. Many fizz slightly when scratched. Hardness close to six but can be softer.
35.10 TO 35.40	PYRITIC ARGILLITE <PY ARG>	Colour - black Grain Size - very fine grained Weakly conductive black pyritic argillite with fine pyritic beds in upper part. Minor qtz-carb-py veinlets. Bedding 85° =	90		<15% py> Average 15% py but up to 50% locally	'Minerals' are hexagonal
35.40 TO 36.70	PYRITIC TUFF <PY TUFF>	Colour - pale grey Grain Size - fine grained Homogeneous, pale, soft tuff with finely disseminated pyrite and marcasite? Contact badly broken up partly ground.		Sericite	6-8% py (-marcasite?)	
36.70 TO 38.70	QUARTZ VEIN <QV>	Colour - white Grain Size - Bull quartz vein with 10% silvery grey sericite. Blocky and broken throughout. Contact broken.			Singe 1 1/2cm diameter bleb of cp-py in the middle.	
38.70 TO 59.60	BLACK CHERT AND CHERTY ARGILLITE <CHT+ARG>	Colour - black Grain Size - very fine grained Laminated, locally brecciated chert with minor tuff. Most is black, argillitic, quite soft. Lesser, usually thin (<5mm), light coloured chert and tuff laminae. Lots of contortion, much caused by primary slumping. Minor secondary		Tuffaceous component is often sericitized	1-2% finely disseminated pyrite throughout.	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALISATION	REMARKS
		quartz. Gouge zones: 40.8 - 41.4, 42.8 - 43.3 plus numerous very thin ones. Locally very variable but averages	80 - 90			
59.60 TO 80.30	MASSIVE CHERT <CHT>	Colour - white - creamy white Grain Size - aph Mainly massive to finely laminated chert. Moderate tuffaceous component. A few black cherty argillite beds to 64m. Contact marked by a quartz vein with mica and carbonate. 65.1 - 66.05 Several possible beds with pyrite, green mica and yellow sericite abundant 66.05 - 76.4 Very massive chert with strong pyrite as fracture fillings and in breccia zones in the matrix. No tuff component. 76.4 - 80.3 Moderately-strongly sericitic tuffaceous chert. Highly contorted	80 80	Good sericite in tuffaceous component Massive green mica locally. Strong yellow-ochre sericite	Traces of py. 20% py as semi-massive beds to 2cm. 66.05-76.4 <40% py> Up to 40% py over 10 cm averaging 5%. Very fine black py. 1% diss'd py.	
80.30 TO 93.10	BLACK CHERT <CHT>	Colour - black Grain Size - very fine grained Predominantly black, argillitic chert with lighter beds. Intensely contorted. Some interdigitation at contact.		Mod. sericite with tuffaceous component	Trace py 3-4% in tuff screens.	
93.10 TO 110.40	SERICITIC CHERT <SERT>	Colour - Grain Size - Predominantly light coloured chert with a moderate sericitic tuff component. Minor dark beds. Varies from massive, to laminated to brecciated.	70	Mod-strong sericite throughout.	Pods of galena in qtz vein at 100.00m. Otherwise just 1-2% py, locally up to 5%	

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALISATION	REMARKS
		A moderate amount of secondary quartz. Strong veins at: 97.35 - 98.7 99.6 - 100.0 and 100.2 - 100.5 Contact marked by 5cm of fault gouge.				
110.40 TO 113.30	INTERBEDDED CHERT AND MUDSTONE <CHT+MUD>	Colour - d. green to greeny grey Grain Size - very fine grained Interbeds of light grey impure chert and black mudstone. One bed has an oolitic top, indicating tops down the hole. 111.3 - 112.35 Mafic dyke. Contacts sharp at 70 degrees and 85 degrees.	70	Minor sericite with the chert.	<5% py> 4-5% finely diss'd pyrite in mudstone 5-10% py with qtz-carb veins probably associated with mafic dyke. 5% aver. overall.	
113.30 TO 126.05	BLACK CHERT <CHT>	Colour - black Grain Size - very fine grained Predominantly black, argillaceous chert with light grey chert beds and a few tuffaceous chert beds. Very conductive locally with good graphitic laminae. Highly contorted, finely laminated or brecciated usually. Grey chert component increases down the hole. Numerous thin gouge zones but little obvious displacement.	60 - 75	Sericite in tuffaceous component.	5-8% py, mostly with fine quartzose veinlets but also disseminated in some beds. Distinctly more sulphides than previous section.	
126.05 TO 126.40	SERICITIC CHERTY TUFF <SERT+CHT>	Colour - buff-grey Grain Size - very fine grained Distinctive sericitic tuff with fine laminae of black cherty argillite and secondary quartz variable	65	Sericite	5-8% py	
126.40 TO 126.80	MAFIC TUFF <MT>	Colour - light grey - buff Grain Size - fine grained Fairly massive tuff. Minor intermixed argillite component but not as laminae		Weak sericite (-chlorite)	6% py.	
126.80 TO 127.50	SERICITIC CHERTY TUFF <SERT>	As 126.05 - 126.4	85 - 90			

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALISATION	REMARKS
127.50 TO 129.35	MAFIC TUFF <MT>	As 126.4 - 126.8 Contact sharp at	70	Very weak sericite - chlorite	8% py.	
129.35 TO 148.48	SERICITIC CHERTY TUFF <SERT>	Colour - light grey-buff Grain Size - very fine grained Predominantly chert with at least 25% tuff component with local zones of black chert laminae. Very contorted with angles close to the core axis up to 60 degrees but definitely average = by the bottom of the hole. (Bedding?) Moderate amounts of secondary quartz. END OF HOLE	50	Moderate sericite throughout.	<3-4% py> 3-4% py only, mostly with qtz veins.	

Sample	From (m)	To (m)	Length (m)	ASSAYS						GEOCHEMICAL						COMMENTS		
				CU %	ZN %	PB %	AG g/T	AU G/T	SB %	AS %	CU PPM	ZN PPM	PB PPM	SG	AG oz/t		AU oz/t	
BCD2992	33.55	34.50	0.95									25	85	7				
BCD2993	34.50	35.50	1.00									80	175	25	0.9	145		
BCD2994	36.50	37.50	1.00									25	26	10	0.4	40		
BCD2995	37.50	38.75	1.25									1100	47	15	0.7	115		
BCD2996	65.10	66.05	0.95									117	25	23	0.4	10		
BCD2997	66.05	67.55	1.50									44	24	9	0.2	5		
BCD2998	67.55	69.05	1.50									18	9	23	0.1	5		
BCD2999	69.05	70.55	1.50									18	10	20	0.1	5		
BCD3000	70.55	72.05	1.50									9	10	6	0.1	5		
BCD2965	72.05	73.55	1.50									25	52	8	0.1	5		
BCD2966	73.55	75.05	1.50									10	14	7	0.1	5		
BCD2967	75.05	76.55	1.50									21	24	9	0.1	5		
BCD2968	97.35	98.70	1.35									124	35	13	0.1	5		
BCD2969	99.60	100.50	0.90									152	44	363	0.5	5		
BCD2970	111.00	112.40	1.40									122	130	12	0.3	5		
BCD2971	113.35	114.95	1.60									83	118	30	0.5	5		
BCD2972	119.50	121.10	1.60									41	150	32	0.3	5		
BCD2973	122.30	123.80	1.50									38	48	33	0.3	5		
BCD2974	126.40	127.85	1.45									93	145	73	0.6	5		
BCD2975	127.85	129.35	1.50									239	195	90	0.9	5		

HOLE NUMBER: RG-33

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 12.20	CASING <CB>					
12.20 TO 120.40	CHERT, TUFF <CHT, TUFF>			<Strong ser.>	<3-4% py>	
120.40 TO 133.25	CHERTY ARGILLITE <ARG>			<Wk ser.>	<5% py>	
133.25 TO 148.50	MAFIC TUFF, CHERT <MAF. TUFF>			<Wk-mod. ser.>	<2% py>	
148.50 TO 177.90	ARGILLITE, TUFF, CHERT <ARG.>			{149.45-149.65} <Int. gr talc/mica/chl>	<5-10% py>	150-177.9 FLT ZONE.
177.90 TO 179.30	TRANSITION ZONE <TRAN. ZONE>					
179.30 TO 365.40	MAFIC PYROCLASTIC <MAF. PYRD>			<Wk-mod. ser-qtz + chl, rare gr.mica>	<10% py>	
365.40 TO 396.20	CHERT, TUFF <CHT, TUFF>			<Strong ser.>	<5-15% py, tr sp.>	
396.20 TO 401.10	MAFIC TUFF <MAF. TUFF>			<chl>	<2% py>	
401.10 TO 401.80	FAULT BRECCIA <FLT BX>					
401.80 TO 416.40	TUFF, CHERT <TUFF, CHT>			<Strong ser.>	<5% py>	

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DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CAI	ALTERATION	MINERALIZATION	REMARKS
416.40 TO 416.50	FAULT GOUGE <FLT GOUGE>				<Tr. py>	
416.50 TO 428.20	TUFF & ARGILLITE <TUFF&ARG>			<Mk chl>	<5% py>	
428.20 TO 440.90	INT. TUFF & MINOR ARG. <TUFF& ARG>			<Mod. ser.>	<5% py>	

HOLE NUMBER: RG-33

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS							GEOCHEMICAL							COMMENTS					
				CU %	ZN %	PB %	AG G/T	AU G/T	SB %	AS %	S.G.	AG GZ/T	AU GZ/T	AS PPM	BA PPM	BA %	SB PPM		AG PPM	AU PPB			
3081	29.45	30.25	0.80				0.7	0.1			62	88	38				35	1040					
3083	31.05	31.85	0.80																				
3082	47.00	47.80	0.80				0.3	0.1			80	200	6				73	500					
3083	120.60	122.10	1.50				1.2	0.1															
3084	122.10	123.60	1.50				1.3	0.1															
3085	123.60	125.10	1.50				0.7	0.1															
3086	144.90	146.40	1.50				0.3	0.1															
3087	148.50	149.25	0.75				1.3	0.1															
3088	149.25	150.50	1.25				2.0	0.1			52	58	40				490	1520					
3089	150.50	152.20	1.70				0.7	0.1															
3090	184.50	186.00	1.50				0.7	0.1			44	130	41				61	980					
3091	274.70	276.20	1.50				1.2	0.1															
3092	276.20	277.70	1.50				0.7	0.1			49	245	135				240	800					
3093	277.70	279.20	1.50				0.7	0.1			155	1550	1650				1300	400					
3094	279.20	280.70	1.50				0.3	0.1			115	680	890				740	480					
3095	280.70	282.20	1.50				0.3	0.1			178	635	680				820	460					
3096	282.20	283.70	1.50				1.2	0.1			150	1200	1080				670	360					
3097	283.70	285.20	1.50				1.2	0.1			106	295	190				190	600					
3098	285.20	286.00	0.80				2.0	0.1			220	625	430				1400	530					
3099	286.00	287.50	1.50				1.4	0.2			800	5000	4550				4900	400					
3100	287.50	289.00	1.50				0.7	0.1			280	1800	1250				190	300					
3101	289.00	290.50	1.50				0.5	0.1			85	410	195				250	540					

HOLE NUMBER: RG-33

GEOCHEM. SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	FeO %	MnO %	TiO2 %	Ba %	Zr %	Cu ppm	Zn ppm	Pb %	Total %	Au ppb	Ba ppm	Ag ppm	Pb ppm
3176	189.00	191.00	3.00	47.33	12.37	10.15	5.89	1.03	2.94	8.38	.16	1.31	.060	.005	87	71	.005		5			
3177	221.00	224.00	3.00	46.56	14.46	7.80	5.62	1.24	2.95	7.98	.29	1.40	.030	.005	83	57	.010		5			
3178	250.50	253.50	3.00	42.53	12.99	8.47	6.61	1.06	2.27	8.64	.44	1.75	.025	.010	80	72	.010		5			
3180	294.00	297.00	3.00	41.34	11.86	9.07	9.21	2.82	.10	10.13	.23	1.71	.005	.005	78	103	.005					
3181	340.00	343.00	3.00	39.45	12.29	4.46	12.90	1.24	.01	11.59	.17	1.97	.005	.010	73	98	.010					
3182	417.00	420.00	3.00	62.29	17.89	1.63	2.25	.18	4.48	3.81	.08	.61	.110	.025	33	70	.005					
3183	436.50	439.50	3.00	64.94	14.53	3.09	2.29	.39	3.43	3.48	.05	.43	.185	.025	30	51	.005					

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GEOCHEM. SHEET

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HOLE NUMBER: R6-34

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 12.20	OVERBURDEN <OB>					
12.20 TO 24.70	MAFIC VOLCANIC <MAF. VOLC>			<ser/chl>	<5-10% py>	
24.70 TO 25.00	FAULT GOUGE <FLT GOUGE>					
25.00 TO 28.80	REA BRECCIA WITH SER. TUFF <BX & TUFF>			<ser>	<SM py w/ 1% sp in exh., 5% py through>	
28.80 TO 29.30	QTZ VEIN WITH CLAY GOUGE <QV>					
29.30 TO 33.30	SER. TUFF WITH MINOR CHERT <TUFF&CHT>			<ser>	<10% py>	
33.30 TO 42.90	MAFIC TO INT. TUFF <TUFF>			<minor ser.>	<2% py>	
42.90 TO 47.20	MAFIC DEBRIS FLOW <DEB.FLOW>			<wk. ser.>	<10% py>	
47.20 TO 48.60	MIXED TUFF AND PYRITIC ARGILLITE <TUFF&ARG>				<15-20% py overall, locally 50%>	
48.60 TO 59.10	MAFIC TUFF AND LAPILLI TUFF <TUFF>			<wk chl/ser>	<10% py>	

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LOGGED BY: I. D. PIRIE

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HOLE NUMBER: RG-34

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
59.10 TO 59.80	FINE PY. DEBRIS FLOW <DEB. FLOW>				<30% py, tr sp>	
59.80 TO 61.50	MIXED TUFF AND CHERT <TUFF&CHT>				<5% py>	
61.50 TO 71.30	ARGILLITE WITH MINOR WACKE <ARG.>				<local py. layers>	
71.30 TO 82.60	QUARTZOSE WACKE <QTZ WACKE>				<1-2% py>	

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DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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HOLE NUMBER: R6-34

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS										GEOCHEMICAL						COMMENTS							
				CU %	ZN %	PB %	AG G/T	AU G/T	SE %	AS %	CU PPM	ZN PPM	PB PPM	S.G.	AG OZ/T	AU OZ/T	AS PPM	BA PPM	BA Z		SB PPM	AG PPM	AU PPB				
3102	19.90	21.40	1.50				0.5	0.1				125	190	50				150	600								
3103	21.40	22.90	1.50				1.3	0.1				110	215	50				280	800								
3104	22.90	25.00	2.10				2.0	0.1				53	240	58				170	800								
3105	25.00	25.40	0.40				5.8	0.5				97	720	180				1000	720								
3106	25.40	26.80	1.40				5.3	0.2				68	130	42				90	1200								
3107	26.80	28.80	2.00				5.8	0.4				28	225	32				2400	760								
3108	47.10	48.70	1.60				4.7	0.1				44	170	32				88	760								

HOLE NUMBER: RG-35

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: SAM
PROJECT NUMBER: 333
CLAIM NUMBER:
LOCATION: 82M/4W

PLOTTING COORDS GRID: MATN
NORTH: 583.00N
EAST: 9100.00W
ELEV: 1334.75
COLLAR GRID AZIMUTH: ^{180°}225° 0' 0"

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -89° 0' 0"
LENGTH OF THE HOLE: 852.40m
START DEPTH: 0.00m
FINAL DEPTH: 852.40m

DATE STARTED: March 9, 1985
DATE COMPLETED: March 26, 1985
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RSD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NQ/BQ

CONTRACTOR: F. BDISVENU
CASING: TO 742.0M
CORE STORAGE: BARRIERE

PURPOSE:

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
38.00	-	-89° 0'	ACID	OK		811.00	206° 0'	-46° 0'	TROPARI	OK	
61.00	-	0° 0'	ACID			-	-	-	-	-	
87.00	-	-89° 0'	ACID	OK		-	-	-	-	-	
122.00	-	0° 0'	ACID		UNREADABLE	-	-	-	-	-	
157.00	-	-81° 0'	ACID	OK		-	-	-	-	-	
188.00	-	0° 0'	ACID		UNREADABLE	-	-	-	-	-	
213.00	-	-77°30'	ACID	OK		-	-	-	-	-	
252.00	-	-78°30'	ACID		BAD ETCH	-	-	-	-	-	
284.00	-	-72° 0'	ACID	OK		-	-	-	-	-	
307.00	-	-75° 0'	ACID		BAD ETCH	-	-	-	-	-	
334.00	-	0° 0'	ACID		UNREADABLE	-	-	-	-	-	
363.00	-	-71° 0'	ACID	OK		-	-	-	-	-	
398.00	-	-70° 0'	ACID	OK		-	-	-	-	-	
427.00	-	-66° 0'	ACID	OK		-	-	-	-	-	
457.00	-	-63° 0'	ACID	OK		-	-	-	-	-	
490.00	-	-61°30'	ACID	OK		-	-	-	-	-	
525.00	-	-60° 0'	ACID	OK		-	-	-	-	-	
549.00	-	-60° 0'	ACID	OK		-	-	-	-	-	
590.00	-	-55° 0'	ACID	OK		-	-	-	-	-	
610.00	-	-54° 0'	ACID	OK		-	-	-	-	-	
648.00	-	-51° 0'	ACID	OK		-	-	-	-	-	
671.00	-	-51° 0'	ACID	OK		-	-	-	-	-	
703.00	-	-49° 0'	ACID	OK		-	-	-	-	-	
730.00	-	-48° 0'	ACID	OK		-	-	-	-	-	
762.00	-	-48° 0'	ACID	OK		-	-	-	-	-	
801.00	-	-47° 0'	ACID	OK		-	-	-	-	-	
852.00	-	0° 0'	ACID		NO ETCH	-	-	-	-	-	
204.60	210°30'	-80° 0'	TRO-PARI	OK		-	-	-	-	-	

HOLE NUMBER: RG-35

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 354.00	MAFIC TUFF <MAF TUFF>			<Wk-mod alteration>	<10-15% py, up to 20% locally>	
354.00 TO 358.00	REA BRECCIA <REA BX>				<5% disse. py>	
358.00 TO 364.00	MUDDY TUFF <MUD TUFF>			<Int. ser/chl alteration>	<25-30% disse. py, loc. 75% in f.beds> <Tr sp, gal>	
364.00 TO 371.45	REA BRECCIA <REA BX>				<15% py, up to 60% loc. in beds, tr sp>	
371.45 TO 371.60	<SMS> <i>15m</i>				<35% py, 25% sp, 2% cpy, 5% gal>	
371.60 TO 371.80	<SMS>				<50% py>	
371.80 TO 372.40	<SMS>				<40% py, tr sp>	
372.40 TO 388.90	MUDDY TUFF <MUD TUFF>				<10-25% py, thin beds of sp & gal>	
388.90 TO 389.80	<FAULT BX>					
389.80 TO 644.00	MAFIC FRAGMENTAL <MAF FRAG>			<wk alter., isolated patches st. ser.>		
644.00 TO 733.00	MAFIC FRAGMENTAL <MAF FRAG>			<Mod-st. ser/chl alter.>	<5% py overall increasing to 15% loc.>	

HOLE NUMBER: RG-35

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

PAGE: 2

HOLE NUMBER: RG-35

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
733.00 TO 756.00	MAFIC FRAGMENTAL <MAF FRAG>			<Int. altered>	<15-20% py with secondary qtz>	
756.00 TO 757.00	MAFIC TUFF <MAF TUFF>			<Chl?>	<20% py, tr gal, sp, cpy>	
757.00 TO 852.00	MAFIC FRAGMENTAL <MAF FRAG>			<Unalt. except qtz-carb veinlets>		

HOLE NUMBER: RG-35

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

PAGE: 3

HOLE NUMBER: R6-35

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS					GEOCHEMICAL									COMMENTS							
				CU %	ZN %	PB %	AG G/T	AU G/T	AS %	CU PPM	ZN PPM	PB PPM	S.G.	AG OZ/T	AU OZ/T	AS PPM	BA PPM		BA %	SB PPM	AG PPM	AU PPB			
3109	18.10	19.00	0.90				0.7	0.1																	
3110	49.60	50.40	0.80				0.7	0.1																	
3111	75.60	77.10	1.50				0.3	0.1																	
3112	77.10	77.60	0.50	.01	.48	.74	0.3	0.1																	
3113	77.60	79.10	1.50				0.3	0.1																	
3114	81.10	82.90	1.80	.01	.04	.38	0.3	0.1																	
3115	107.20	108.70	1.50	.01	.04	.06	2.0	0.1																	
3116	111.30	112.80	1.50				3.4	0.1																	
3117	112.80	113.60	0.80	.02	.12	.08	0.3	0.1																	
3126	357.70	359.20	1.50	.01	.01	.01	0.7	0.1																	
3127	359.20	360.70	1.50	.01	.04	.10	4.1	0.2																	
3128	360.70	362.20	1.50	.01	.22	.14	3.4	0.1																	
3129	362.20	363.70	1.50	.01	.14	.08	1.4	0.1																	
3130	363.70	365.20	1.50	.01	.17	.12	3.4	0.1																	
3131	365.20	365.70	1.50	.03	.29	.32	7.5	0.1																	
3132	366.70	368.20	1.50	.01	.01	.01	2.0	0.1																	
3133	368.20	369.70	1.50	.01	.06	.05	9.6	0.2																	
3134	369.70	370.70	1.00	.01	.09	.06	4.1	0.2																	
3135	370.70	371.45	0.75	.01	.08	.06	6.8	0.2																	
3136	371.45	371.60	0.15	.39	5.14	1.14	30.9	0.2																	
3137	371.60	373.10	1.50	.02	.08	.05	2.7	0.1																	
3138	373.10	374.60	1.50	.01	.02	.01	2.7	0.1																	

HOLE NUMBER: R6-35

ASSAY SHEET

PAGE: 1

HOLE NUMBER: RG-35

GEOCHEM. SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	FeO %	MnO %	TiO2 %	Ba %	Zr %	Cu ppm	Zn ppm	Pb %	Total %	Au ppb	Ba ppm	Ag ppm	Pb ppm		
3184	35.00	38.00	3.00	47.91	13.94	7.94	10.50	3.94	.07	11.11	.21	1.36	.005	.005	80	72	.005							
3185	65.00	68.00	3.00	41.11	12.70	7.44	9.84	1.88	.02	10.10	.21	1.28	.005	.005	92	90	.010							
3187	122.00	125.00	3.00	45.85	13.42	5.87	8.83	3.16	.03	9.12	.21	1.13	.005	.005	101	310	.010							
3188	164.00	167.00	3.00	48.70	13.42	3.55	10.54	.52	.43	10.23	.20	1.41	.020	.005	52	312	.005							
3189	189.50	193.00	3.50	45.56	16.31	6.54	9.49	1.95	1.50	10.79	.28	1.57	.100	.005	73	99	.020							
3186	249.00	252.00	3.00	39.35	12.43	8.99	9.15	1.68	.38	10.00	.20	.99	.025	.005	100	83	.005							
3190	325.00	328.00	3.00	45.26	12.80	7.87	6.52	1.00	1.97	11.97	.30	1.74	.105	.010	54	250	.010		5					
3191	400.00	403.00	3.00	43.70	12.56	7.43	10.04	2.77	.06	10.33	.23	1.34	.005	.005	97	80	.005							
3192	459.00	462.00	3.00	45.60	14.60	7.50	10.63	2.83	.02	11.42	.18	1.50	.005	.005	92	85	.010							
3193	521.00	524.00	3.00	44.77	16.49	9.22	12.17	2.46	.05	12.16	.31	2.32	.005	.010	99	79	.015							
3194	579.00	582.00	3.00	44.12	14.04	4.39	14.09	.95	.07	11.31	.20	1.83	.005	.010	38	87	.010							
3195	641.00	644.00	3.00	44.13	13.44	7.94	9.33	2.39	.01	10.78	.21	1.65	.010	.005	83	83	.005							
3196	693.00	696.00	3.00	44.15	13.10	8.91	8.78	1.51	1.75	9.29	.21	1.69	.040	.005	74	71	.005		5					
3197	749.00	752.00	3.00	44.87	14.25	8.84	6.27	.90	3.24	9.39	.30	1.54	.030	.005	72	83	.005		5					
3198	782.00	785.00	3.00	40.05	13.79	9.94	9.74	1.74	.03	12.04	.17	1.61	.005	.005	92	210	.005							
3199	836.50	839.50	3.00	43.24	12.35	11.37	7.82	2.14	.17	9.39	.17	1.53	.010	.005	71	70	.005							

HOLE NUMBER: RG-35

GEOCHEM. SHEET

PAGE: 1

HOLE NUMBER: RG-36

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 4.60	OVERBURDEN <OB>					
4.60 TO 116.00	MAFIC FRAGMENTALS <MAF, FRAGS>			4.6 - 41.2 <carb.> 41.2 - 56.5 <ser/carb/chl/qtz alt.> 56.5 - 88.7 <chl> 90.2 - 112.6 <mod. bleaching> 112.6 - 116 <ser/chl>	4.6 - 41.2 <1% py> 41.2 - 56.5 <3-5% py> 56.5 - 88.7 <5% py> 90.2 - 112.6 <5-8% py> 112.6 - 116 <10% py>	
116.00 TO 118.00	FAULT GOUGE <FLT GOUGE>					
118.00 TO 118.60	REA BRECCIA <REA BX>				<15% py>	
118.60 TO 119.00	FAULT GOUGE <FLT GOUGE>					
119.00 TO 119.30	SER. TUFF WITH MINOR CHERT <TUFF&CHT>				<5% py>	
119.30 TO 120.10	PYRITIC MUDDY TUFF <MUD. TUFF>				<40% py>	
120.10 TO 120.40	FAULT GOUGE <FLT GOUGE>					
120.40 TO 127.00	SER. TUFF AND QUARTZ <TUFF&QTZ>				<15% py>	
127.00 TO 136.00	PYRITIC MUDDY TUFF WITH MINOR CHERT AND QUARTZ <TUFF, CHT> <QTZ>				127 - 129.5 <5% py> 129.5 - 131 <60-70% py in tuff> <but only 30-35% when qtz taken into <account> 131 - 136 <25-30% py>	

HOLE NUMBER: RG-36

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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HOLE NUMBER: RG-36

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
136.00 TO 138.00	FAULT <FLT GOUGE>					
138.00 TO 144.50	MIXED CHERT AND MUDDY TUFF <CHT&TUFF>		<ch1>		<15-20% py>	
144.50 TO 156.10	MIXED SER. TUFF AND CHERT <TUFF&CHT>		<ser>		<5-10% py>	

HOLE NUMBER: RG-36

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS								GEOCHEMICAL								COMMENTS						
				CU %	ZN %	PB %	AG G/T	AU G/T	AS %	CU PPM	ZN PPM	PB PPM	S.G.	AG OZ/T	AU OZ/T	AS PPM	BA PPM	BA %	SB PPM		AG PPM	AU PPB				
3149	119.30	120.10	0.80				0.3	0.1	.002	.029													0.83			
3150	129.60	131.50	1.90	.06	.39	.56	16.8	0.3	.008	.041														0.81		
3151	138.90	140.40	1.50	.01	.03	.03	0.3	0.1	.001	.012														0.19		
3152	140.40	141.90	1.50	.01	.02	.02	0.3	0.1	.001	.009														0.07		

HOLE NUMBER: RG-36

ASSAY SHEET

PAGE: 1

HOLE NUMBER: RG-36

GEOCHEM. SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	FeO %	MnO %	TiO2 %	Ba %	Zr %	Cu ppm	Zn ppm	Pb %	Total %	Au ppb	Ba ppm	Ag ppm	Pb ppm
3200	45.00	48.00	3.00	43.74	14.58	5.54	10.62	1.16	.26	10.34	.20	1.36	.025	.005	90	104	.005					
3026	101.50	104.50	3.00	45.91	15.61	8.47	5.22	1.44	1.56	6.80	.28	2.46	.370	.015	70	61	.005					

MINNOVA INC.
DRILL HOLE RECORD

HOLE NUMBER: RG-37

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: SAM
PROJECT NUMBER: 333
CLAIM NUMBER: HN2
LOCATION: 82M/4W

PLOTTING COORDS GRID: MAIN
NORTH: 990.00N 970 N
EAST: 40670.00W 10689 W
ELEV: 1144.75 1125 m
180°

ALTERNATE COORDS GRID:
NORTH: 0+ 0
EAST: 0+ 0
ELEV: 0.00

COLLAR DIP: -60° 0' 0"
LENGTH OF THE HOLE: 100.00m
START DEPTH: 0.00m
FINAL DEPTH: 100.00m

COLLAR GRID AZIMUTH: 225° 0' 0"

COLLAR ASTRONOMIC AZIMUTH: 225° 0' 0"

DATE STARTED: March 31, 1985
DATE COMPLETED: April 1, 1985
DATE LOGGED: 0, 0

COLLAR SURVEY: NO
MULTISHOT SURVEY: NO
RQD LOG: NO

PULSE EM SURVEY: NO
PLUGGED: NO
HOLE SIZE: NO

CONTRACTOR: F. BOISVENU
CASING: 6.1M
CORE STORAGE: BARRIERE

PURPOSE: TEXT MAXMIN ANOMALY IN AREA OF ANOMALOUS LITHOGEOCHEM.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
60.00	-	-53° 0'	ACID	OK		-	-	-	-	-	
100.00	-	-54° 0'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	
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-	-	-	-	-		-	-	-	-	-	

HOLE NUMBER: RG-37

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 62.00	MAFIC VOLCANICS <MAF VOLC>			<Wk-mod. altered>	<2-3% py>	
62.00 TO 63.00	MINERALIZED HORIZON <MIN. HOR>			<chl-qtz mud>	<30% py, tr sp, gal>	
63.00 TO 63.60	MAFIC FRAGMENTALS <MAF FRAGS>				<3-4% py>	
63.60 TO 63.90	MINERALIZED HORIZON <MIN. HDR.>			<qtz-chl mud>	<10% py, minor sp, gal>	
63.90 TO 65.70	MAFIC FRAGMENTAL <MAF FRAG>			<Wk minerralized horizon>	<8-10% py>	
65.70 TO 73.90	<CHERT>			<Ser.>		
73.90 TO 77.50	MINERALIZED CHERT <MIN CHERT>				74.7 - 75.2 <25% py, 5% sp> 75.8 - 76.0 <35% py, 15% sp> 77.2 - 77.4 <30% py, 15% sp>	
77.50 TO 88.70	MUDDY TUFF <MUD. TUFF>				<25-30% py>	
88.70 TO 100.00	ARGILLITE & GREYHACKE <ARG, GREYW>					

HOLE NUMBER: RG-37

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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HOLE NUMBER: RG-37

GEOCHEM. SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	FeO %	MnO %	TiO2 %	Ba %	Zr %	Cu ppm	In ppm	Pb %	Total %	Au ppb	Ba ppm	Ag ppm	Pb ppm	
3027	21.00	24.00	3.00	42.19	12.00	8.94	12.79	.29	.02	11.28	.21	1.10	.005	.005	97	112	.005						
3028	52.00	55.00	3.00	45.68	15.18	5.91	11.16	2.57	.01	11.36	.18	1.48	.005	.005	93	177	.005						

HOLE NUMBER: RG-38

MINNOVA INC.
DRILL HOLE RECORD

IMPERIAL UNITS: METRIC UNITS: X

PROJECT NAME: SAM PLOTTING COORDS GRID: ALTERNATE COORDS GRID: COLLAR DIP: -88° 0' 0"
 PROJECT NUMBER: 333 NORTH: 310.00N NORTH: 0+ 0 LENGTH OF THE HOLE: 250.00m
 CLAIM NUMBER: EAST: 9900.00W EAST: 0+ 0 START DEPTH: 0.00m
 LOCATION: 82M/4W ELEV: 1302.75 ELEV: 0.00 FINAL DEPTH: 250.00m
 COLLAR GRID AZIMUTH: ^{180°}225° 0' 0" COLLAR ASTRONOMIC AZIMUTH: 225° 0' 0"

OK

DATE STARTED: July 15, 1985 COLLAR SURVEY: NO PULSE EM SURVEY: NO CONTRACTOR: OLYMPIC
 DATE COMPLETED: July 20, 1985 MULTISHOT SURVEY: NO PLUGGED: NO CASING: 10.1M
 DATE LOGGED: 0, 0 RQD LOG: NO HOLE SIZE: NQ CORE STORAGE: BARRIERE

PURPOSE: TEST OFF HOLE PEM RG-33.

DIRECTIONAL DATA:

Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments	Depth (m)	Astronomic Azimuth	Dip degrees	Type of Test	FLAG	Comments
30.00	-	-82° 0'	ACID	OK		-	-	-	-	-	
60.00	-	-80° 0'	ACID	OK		-	-	-	-	-	
90.00	-	-78° 0'	ACID	OK		-	-	-	-	-	
125.00	-	-75° 0'	ACID	OK		-	-	-	-	-	
150.00	-	-74° 0'	ACID	OK		-	-	-	-	-	
180.00	-	-73° 0'	ACID	OK		-	-	-	-	-	
210.00	-	-72° 0'	ACID	OK		-	-	-	-	-	
242.00	-	-70°30'	ACID	OK		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
-	-	-	-	-		-	-	-	-	-	
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HOLE NUMBER: RG-38

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA:	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 10.10	CASING					
10.10 TO 97.40	MIXED SER. TUFF & CHERT <TUFF&CHT>		<ser>		<5% py>	
97.40 TO 239.40	MAFIC PYROCLASTIC <MAF. PYRD>		<chl/ser>		<2-3% py>	
239.40 TO 250.00	<CHERT>		<ser>		<5-10% py>	

HOLE NUMBER: RG-38

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS								GEOCHEMICAL								COMMENTS		
				CU %	ZN %	PB %	AG G/T	AU G/T	SB %	AS %	CU PPM	ZN PPM	PB PPM	S.G.	AG OZ/T	AU OZ/T	AS PPM	BA PPM	BA %		SB PPM	AG PPM
2251	47.30	47.55	0.25	.76	1.98	1.50	34.2	0.04														

HOLE NUMBER: RG-38

ASSAY SHEET

PAGE: 1

HOLE NUMBER: RG-39

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA:	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 3.00	<CASING>					
3.00 TO 137.40	MAFIC PYROCLASTIC <MAF PYRDC>			<Wk-mod chl, ser>	<2-5% py, loc. to 40%>	
137.40 TO 145.10	CHERT BRECCIA <CHT BX>				<4-5% dissea py>	
145.10 TO 160.90	CHERT, CHERT BRECCIA <CHT BX>			<Ser. & green mica>	<1-20% py, loc. up to 25-30%>	
160.90 TO 166.00	QUARTZ WACKE <QTZ WACKE>					
166.00 TO 190.80	<CHERT>				<5% py>	

HOLE NUMBER: RG-39

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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HOLE NUMBER: R6-39

ASSAY SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	ASSAYS								GEOCHEMICAL								COMMENTS					
				CU %	ZN %	PB %	AG G/T	AU G/T	SB %	AS %	CU PPM	ZN PPM	PB PPM	S.G.	AG QZ/T	AU QZ/T	AS PPM	BA PPM	BA %		SB PPM	AG PPM	AU PPB		
2252	24.70	25.40	0.70	.130	1.39	1.10	8.3	.05																	
2253	51.20	52.20	1.00				2.5	.02																	
2254	58.90	60.70	1.80				2.0	.03																	
2255	69.50	70.50	1.00				2.0	.02																	
2274	93.30	94.80	1.50	.014	.41	.28	2.5	.03																	
2275	94.80	95.60	0.80	.062	1.94	1.36	5.9	.06																	
2276	95.60	97.10	1.50	.112	.92	1.51	7.5	.01																	
2277	97.10	98.50	1.40	.092	1.43	.84	10.0	.20																	
2256	145.10	146.30	1.20	.039	.22	.12	10.0	.04																	
2257	146.30	148.20	1.90	.060	.28	.07	20.2	.20																	
2258	148.20	149.20	1.00	.017	.10	.12	2.3	.18																	
2259	151.25	152.50	1.25	.010	.4	.01	0.2	.13	.01																
2260	152.50	153.65	1.15	.010	.1	.02	0.4	.02	.01																
2261	153.65	154.40	0.75	.249	1.12	.28	82.0	.06	.12	.01															
2262	154.40	155.80	1.40	.050	.16	.08	14.5	.02	.01	.01															
2263	155.80	156.80	1.00	.198	.14	.04	60.5	.066	.10	.01															

HOLE NUMBER: RG-40

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA:	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 1.80	<CASING>					
1.80 TO 46.00	MAFIC PYROCLASTIC <MAF PYROC>		<Wk chl>		<2-5% py>	
46.00 TO 54.00	CHERT, CHERT BX <CHT>		<Ser>		<5% dissen py>	
54.00 TO 75.80	CHERT, CHERT BX <CHT BX>				<2-5% py, 50% loc.> {72.95 - 73.85} <15-20% combined sulph>	
75.80 TO 73.85	<QTZ WACKE>		<graphitic>		<tr py>	

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DRILL HOLE RECORD

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HOLE NUMBER: RG-41

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 13.10	<CASING>					
13.10 TO 42.60	MAFIC TUFF <MAF TUFF>				<2-3% py>	
42.60 TO 107.50	ARGILLITE WITH CHT & LIMEY CHT <ARG & CHT>				<1-2% py; tr sp, gal assoc. with veins>	

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DRILL HOLE RECORD

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HOLE NUMBER: RG-42

MINNOVA INC.
DRILL HOLE RECORD

DATE: 6-July-1988

FROM TO	ROCK TYPE	TEXTURE AND STRUCTURE	ANGLE: TO CA:	ALTERATION	MINERALIZATION	REMARKS
0.00 TO 9.10	<CASING>					
9.10 TO 44.00	MAFIC TUFF LAPILLI TUFF <TUFF>			<Mod-st. altered>	{21 - 24.5} <5-10% sul./10cm, cp+sp+gn> <1-2% combined over sect.>	
44.00 TO 48.10	CHERT & ARGILLITE <CHT & ARG>	<Rea Breccia>				
48.10 TO 71.00	FAULT BX <FLT BX>			<Int. sericite>	{70.3 - 70.4} <15-20% py-tet-sp-cp> <Ag Zone?>	
71.00 TO 76.80	SERICITIC TUFF <SER. TUFF>			<Ser.>		
76.80 TO 81.30	CHERTY ARGILLITE <CHTY ARG>	<Rea Breccia>				
81.30 TO 83.80	<FLT BX>					
83.80 TO 127.30	MAFIC VOLCANICS <MAF VOLC>			<Wk-mod. ser/chl>		
127.30 TO 216.10	CHERT & ARGILLITE <CHT & ARG>	<Rea Breccia>			<up to 25% py loc.> {201.8 - 203.3} <15-20% py, 2% sp, > <1% tet, 1% gal, tr cp> <Ag Zone>	

HOLE NUMBER: RG-42

DRILL HOLE RECORD

LOGGED BY: I. D. PIRIE

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HOLE NUMBER: RG-42

GEOCHEM. SHEET

DATE: 6-July-1988

Sample	From (m)	To (m)	Length (m)	SiO2 %	Al2O3 %	CaO %	MgO %	Na2O %	K2O %	FeO %	MnO %	TiO2 %	Ba %	Zr %	Cu ppm	Zn ppm	Pb %	Total %	Au ppb	Ba ppm	Ag ppm	Pb ppm		
2951	28.00	31.00	3.00	41.51	12.05	9.21	12.34	0.22	0.79	9.78	0.40	1.18	.020	.005	23	168	.009							
2952	92.50	95.50	3.00	47.24	13.31	8.82	10.59	1.92	.01	10.52	0.31	1.22	.005	.005	82	82	.005							
2953	120.00	123.00	3.00	48.75	13.18	7.68	9.12	1.32	1.65	10.51	0.35	1.16	.055	.005	56	114	.005							