

812542

QUALITY EXPLORATION CORPORATION  
SPA MINES PROJECT  
DIAMOND DRILL LOGS.

92 H 16

North 164 + 00  
East 179 + 25  
Elevation 5,500' approx.  
Azimuth OM 50 - 075  
Dip -45  
Logged By J. E. PAGELLA

## DIAMOND DRILL RECORD

Hole No. 69 - 1  
Commenced 30th NOVEMBER, 1969  
Finished 2nd DECEMBER  
Purpose Of Hole EXPLORATION, GRANODIORITE  
**Final Depth** 353' ACID TUFF CONTACT

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		RECOV.
0'0"	15'0"	No Recovery														
15'0"	17'5"	Brecciated weathered vuggy siliceous tuffs. Much iron-oxide staining (May be limonite)														
17'5"	22'0"	Grey-green altered crystal tuff. Coarse grained, partially corroded friable material with some vugs. Occasional haematite zones. Frequent traces of sulphides. Mostly pyrites in thin veins at 40° to core and finely disseminated through material.														
22'0"	25'0"	Leucocratic granite; Hornblende lathes appear to be partially lineated. This is a well cemented siliceous feldspathic rock.														
25'0"	29'0"	Partially corroded mottled green altered crystal tuff. Coarse grained feldspars are mostly kaolinized.														
29'0"	31'5"	Coarse grained siliceous feldspathic granite. This could be a better preserved, indurated or re-silicified crystal tuff. Some indication of foliation in ferromags.														

# DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 2

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 3

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W		RECOV.
61'5"	65'0"	Moderately uniform and homogeneous mottled green and white granite. Phenocrysts of ferromags appear partially orientated. It is difficult to separate this from leucocratic granite gneiss.														
65'0"	66'3"	Friable zone - traces of haematite and some sulphides.														100%
66'3"	68'0"	Massive slightly foliated siliceous material as above.														
68'0"	70'0"	Coarse grained corroded (kaolinized) acid tuffs with some silicified harder zones. Considerable disseminated sulphides - mostly pyrite.														
70'0"	80'0"	Material as above. Occasional thin quartzite lenses. One 1/2" vein at 70'0" composed of pyrite altering to haematite with a vuggy calcite zone in the middle, typical hydrothermal and metasomatic veining. Occasional disseminated sulphide specks.	70'0"	80'0"	10'0"	10280	TR	TR	TR	0.05	TR					100%
80'0"	83'0"	As above. Mostly sound silica rock.														100%
83'0"	89'0"	Mottled green white corroded kaolinized coarse grained possibly brecciated material - tentatively identified as altered crystal tuff.														

## DIAMOND DRILL RECORD

HOLE NO. 69-1

PAGE 4

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 5

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W		RECOV.
120'0"	130'0"	Variable partially corroded acid tuff - partially broken up by veining and micro faulting. Fairly frequent pyrite particularly between 128' and 130'														100%
130'0"	136'0"	Much finer grained darker, particularly altered pyroclastics. Some noticeable variation in grain size with disturbed veining and banding. Some calcite veneers:sulphide (pyrite) appears in most veins and partings.														100%
136'0"	152'0"	Moderately massive, hard fairly fine grained but variably darker pyroclastics with much irregular veining mostly with pyrite. Several zones with considerable haematite staining, which is derived from sulphide veins and disseminated blebs. Particularly siliceous hard fine-grained zone between 150' and 152'.														100%
			150'	160'	10'0"	10281	TR	TR	TR	0.05	TR					
152'0"	153'0"	Fale fine-grained partially corroded pyroclastics,considerable fine sulphide shows and some pyrite veining.														
153'0"	163'0"	Irregular mostly well cemented coarse-grained siliceous crystal tuffs. Abundant haematite on joints and partings and as replacement material after sulphides. Possibly cinnabar? One thin lense of black plastic clay on joint surface.														

## DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 6

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W		RECOV.
163'0"	165'0"	Friable and broken core with high pyrite concentration some large pyrite crystals. Vuggy zones with black clay. Fine pyrite impregnations. Fault breccia with hydrothermal replacements.	160'0"	170'0"	10'0"	10282	TR	TR	0.02	0.08	TR					60%
165'0"	169'0"	Sound zone is still showing high pyrite content, brecciation, corrosion and production of black clay in shears and parting. Host rock is brecciated green pyroclastics.														80%
169'0"	174'0"	Moderately sound variable coarse-grained pyroclastics with some sulphide. Some calcite as veneers on vein surfaces. Rock becomes more competent with depth.														100%
174'0"	183'0"	Massive mostly sound well cemented silicified coarse-grained green - white mottled crystal tuffs. Some ferromag phenocryst. Occasional veins with some pyrite, mostly irregular, some disseminated sulphide.														100%
183'0"	186'0"	As above, but with some traces of haematite and slightly more pyrite.														100%
186'0"	201'0"	Slightly less well cemented and more variable crystal tuffs as above. Fairly frequent thin veins with considerable pyrite plus disseminated sulphide, throughout the rock mass.	190'0"	200'0"	10'0"	10283	TR	TR	0.04	0.18	TR					100%

## DIAMOND DRILL RECORD

HOLE NO. 69-1      PAGE 7

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W		RECOV.
201'0"	201'8"	Corroded friable and poorly cemented zone. Otherwise as above.														100%
201'8"	214'0"	Variable massive moderately sound pyroclastics as above. Some pyrite at 206'. Occasional well cemented bands.														100%
214'0"	225'0"	Fragmental recovery of friable corroded pyroclastics as above. Below 221' apparently contains considerable pyrite and includes 1" nuggets of solid pyrite. Includes some dark grey plastic clay lenses.														25%
225'0"	232'0"	Corroded and broken coarse-grained crystal tuff as above. Considerable sulphide, both in veins and disseminated through the tuff. Some pyrite nuggets.														100%
232'0"	235'0"	Vuggy corroded crystal tuff. Considerable production of dark plastic clay at 232'3". Occasional traces of haematite.														100%
235'0"	252'5"	Corroded coarse to very coarse-grained mottled green -white acid crystal tuff. Feldspars almost completely kaolinized. With some zones particularly dissolved and vuggy, with black clay at 244'. Sulphide far less common.														100%

## DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 8

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W	RECOV.	
252'5"	260'0"	Much sounder well cemented green crystal tuff. Some large phenocrysts or bombs. Rare traces of disseminated sulphide and a little sulphide veining.													40%	
260'0"	262'0"	Lost core except for several pyrite nodules and pyritized tuff fragments.													5%	
262'0"	274'0"	Mottled green-white crystal or lithic tuff with some agglomerate. Mostly coarse-grained, well cemented rock with minor pyrite and traces of specular iron. No distinguishing featuring or banding.													100%	
274'0"	277'0"	As above the finer grained tuff slightly better cemented. Rare traces of iron sulphide.													100%	
277'0"	287'0"	Complete recovery of regular green crystal tuff and volcanic agglomerate, moderately well cemented. Irregular veining often accompanied by increased weathering and invariably by pyrite. Towards 287' core becomes brecciated and more corroded.													100%	
287'0"	301'0"	Monotonous section of mottled green, white acid crystal tuff with occasional thin quartzite zones. Mostly moderately well cemented. Some sulphides and possibly specular iron in thin veins and disseminations.													100%	

## DIAMOND DRILL RECORD

HOLE NO. 69-1      PAGE 9

			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO	DESCRIPTION	FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%ZN	%BI	AU W	AG W	CU W		RECOV.
301'0"	315'0"	Crystal tuff as above. Gradually becoming coarser, though variable throughout the zone. Sulphide as dissemination or in thin veins.														100%
315'0"	321'0"	Varied green crystal tuff and some agglomerate. Mostly coarse grained crystal tuff but some fine grained material with phenocrysts. Some thin pyrite-rich veins with pyrite content increasing.														100%
321'0"	328'0"	As above, but more corroded and friable particularly between 321'0" and 323'0".														75%
328'0"	335'0"	As above. Very coarse-grained friable corroded tuff with some agglomerate. Fairly frequent sulphide traces mostly in blebs. Between 333'0" and 335'0" brecciated and corroded material with a single lense of grey plastic clay.														100%
335'0"	345'0"	Green coarse-grained or very coarse grained acid crystal tuff and small scale agglomerate. Pyritized veins common especially at 340'0" to 340'5" and disseminated sulphides are present as small crystals and blebs.														100%

## DIAMOND DRILL RECORD

HOLE NO. 69-1 PAGE 10

[illegible]

North 164 + 00  
East 182 + 75  
Elevation 5,500' approx.  
Azimuth 075° T  
Dip -45° (End of Hole Check 44°)  
Logged By J. F. PAGELLA

# DIAMOND DRILL RECORD

Hole No. 69 - 2  
Commenced 3rd DECEMBER, 1969  
Finished 6th DECEMBER  
Purpose Of Hole ORE EXPLORATION, GRANODIOR  
Final Depth 354' ACID TUFF CONTACT

[illegible]

DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 2

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
36'0"	41'0"	Variable crystal and lithic tuff mostly moderately homogeneous grey, medium-grained tuff with some signs of corrosion and pitting. Pyrite in thin regular veins or disseminated throughout tuff.														100%
41'0"	49'0"	Fragmental recovery. Mostly in brecciated and corroded grey tuff often largely reduced to clay. Probably fault brecciated. Often heavily mineralized with pyrite in seams, nuggets and disseminated throughout material. Some brown <del>iron</del> <sup>iron</sup> staining.	40'0"	50'0"	10'0"	10853	TR	TR	0.02							44%
49'0"	63'5"	Variable, slightly more sound, moderately coarse, grey crystal and lithic tuff. Frequent zones of blocky and weathered material. Core is mostly pitted. Occasionally slightly vuggy. Pyrite is disseminated in quantity throughout core, as well as concentrated in moderately coarse-grained veins and nuggets. No signs of any worthwhile <del>other</del> mineralization.	50'0"	60'0"	10'0"	10854	TR	0.10			0.08		<del>0.08</del>			95%

## DIAMOND DRILL RECORD

HOLE NO. 69-2      PAGE 3

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 4

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
95'0"	98'0"	Fragmental recovery. Transition zone of altered pyritized moderately coarse-grained, green crystal tuff metamorphised by contact with basic dark green (doleritic) dyke. Patches of haematite and sulphide, both becoming less common as the dyke is approached.														70%
98'0"	111'0"	Medium grained dark green basic intrusive. This is a hard, heavy, homogeneous, slightly weathered calcitic rock with frequent small traces of disseminated sulphide and some haematite. It appears partially auto brecciated and has occasional xenoliths of presumably pyroclastic material.														100%
111'0"	114'5"	As above, but a zone of more broken and weathered material with considerable haematite staining on joints and partings.														
114'5"	119'0"	Medium grained moderately homogeneous dark green intrusive as above.														
119'0"	121'0"	Zone of prominently auto brecciated flow banded fragments set in a green basic dyke as above.	119'0"	130'0"	11'0"	10859	TR	TR				HG% TR				100%

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 5

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
		This material is veined by relatively consistant sulphide replaced calcitic veining at about 65° to core.														
121'0"	134'0"	Core is 100% recoverable moderately homonegeneous green basic dolomite or similar. Material is medium grained, hard, well cemented heavy rock with regular traces of disseminated sulphide, usually with some calcite which also appears on partings - and occasional breccia or auto brecciated zones - though these are completely re-cemented. Occasional thin veinlets cut core at a fine angle and these usually carry pyrite and calcite.														100%
134'0"	136'0"	As above - slightly more prominent re-cemented breccia zone.														100%
136'0"	154'0"	Basic green dolomite as above.	140'0"	150'0"	10'0"	10860	TR	TR			0.20					100%
154'0"	158'5"	Blocky core with some weathered soft lenses. Transition contact probably largely made up of re-cemented and metamorphosed acid crystal tuff - in places a greywacke like material.														

# DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 6

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W	RECOV.	
158'5"	167'5"	Soft corroded friable green very coarse grained crystal tuff or fine agglomerate - in places reduced to remanent minerals in a clay matrix. Contains some pyrite.	160'0"	170'0"	10'0"	10861	TR	0.01							95%	
167'5"	187'0"	Better cemented but still friable very coarse grained tuff or agglomerate consisting largely of feldspar lathes and a finer green ash matrix. Mostly without structure. Some magnetite and traces of pyrite last foot becoming finer grained softer more corroded.	170'0"	180'0"	10'0"	10862	TR	TR	0.03	0.27	0.10				100%	
187'0"	216'0"	Grey green fine grained moderately soft friable, partially silicified tuff. Core includes some poorly cemented brecciated zones and recovery is fragmental over much of the length. Grey tuff is pyritized mostly as fine grained disseminated sulphide or thin pyritized veinlets.	190'0"	200'0"	10'0"	10863	TR	TR							50%	
								</								

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 7

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W	RECOV.	
216'0"	218'0"	Slightly fragmented core. Variable contact zone between fine pyroclastics as described above and green fine grained basic calcic dyke. Dyke includes brecciated and re-cemented fragments with some calcite and haematite and pyrite in veins.													90%	
218'0"	230'0"	Mostly homogeneous, hard, green fairly fine grained well cemented basic intrusive with blocky fractures. Includes some zones auto brecciated or broken up by stockwork of fine calcite veining. Signs of haematite on joint surfaces common. Pyrite is common and disseminated throughout the rock mass and on fresh fracture surfaces seem to be concentrated in small blebs, and in minor vein concentrations. Appears to contain partially redissolved xenoliths of crystal tuff wall rocks, which exist as brecciated metamorphised fragments.	220'0"	230'0"	10'0"	10864	TR	TR							100%	
230'0"	233'0"	Blocky corroded fragments as above intersected and broken up by complex calcite veining.													100%	

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 8

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
233'0"	250'0"	Green medium to fine grained hard well cemented reasonably homogeneous calcitic intrusive. Occasionally brecciated; auto brecciated or xenolithic zones. Occasional calcite veining usually associated with brecciation.  This dyke material is lightly but regularly mineralized with disseminated pyrite and specular iron ore.	240'0"	250'0"	10'0"	10865	TR	TR	0.03		0.13					100%
250'0"	254'0"	Noticeably irregular coarse-grained, moderately heavily veined phase in above described basic dyke. Consists of brecciated xenoliths with calcite veining. Sulphide mineralization slightly more obvious.														100%
254'0"	262'0"	More homogeneous material as above.														100%
262'0"	265'0"	Large scale distortion accompanied by corrosion and calcite veining. Material is partially decomposed to clay. Large xenoliths of flow banded cemented tuff. Core in general becoming more fractured. Calcite veneer on joint surfaces with some signs of movement.														100%

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 9

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
265'0"	269'0"	Blocky fragmental recovery of partially corroded green basic material as above apparently intermixed with tuff. Grain size becoming coarser - some sign of pyrite.														75%
59'0"	270'5"	Sounder coarse grained light green variable brecciated tuffaceous and calcareous material as above.														100%
270'5"	273'5"	As above, but including some extremely corroded sections of friable crystal remnants in green calcitic clay. Some haematite and occasional pyrite crystals.														100%
273'5"	282'0"	Coarse-grained, green, partially corroded but homogeneous intrusive or possibly very regular homogeneous crystal tuff. (See Thin section.) Calcite with some traces of pyrite and some small pyrite concentrations.	280'0"	290'0"	10'0"	10866	TR	TR								90%
282'0"	288'5"	As above, but much more broken recovery with more signs of decomposition and more haematite staining. Grain size becoming smaller and slightly more pyrite appears to be present.														66%

## DIAMOND DRILL RECORD

HOLE NO. 69-2 PAGE 10

DESCRIPTION			CORE LENGTH				ASSAYS						ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU				AU W	AG W	CU W		RECOV.
288'5"	297'0"	Largely composed of brecciated crystal tuff or flow banded lava fragments in a calcitic green, basic and re-cemented matrix. Presumably enclosed in or marginal to the basic intrusive and metasomatised by it. Pyrite is moderately common in small isolated blebs.															100%
297'0"	304'0"	As above. Rock is particularly well cemented, sound, green re-cemented breccia.	300'0"	310'0"	10'0"	10867	TR	TR									100%
304'0"	313'0"	As above, but includes two particularly brecciated zones at 306'0" and 308'0" and 310'0" to 313'0". These are partially vuggy with prominent calcite veining and some haematite on joints.															100%
313'0"	318'0"	Brecciated re-cemented volcanic fragments in a green matrix as above.															
318'0"	323'0"	Much more homogeneous green basic dyke or lava. Grain size varies from very fine grain to coarse grained. Calcite veining moderately common. Disseminated pyrite concentrations common throughout material.															100%

## DIAMOND DRILL RECORD

HOLE NO. 69-2      PAGE 11

[illegible]

## COLLAR

North 168 + 00  
East 182 + 50  
Elevation 5,500' approx.  
Azimuth 075° T  
Dip -45° (Final Dip -49°)  
Logged By J. F. PAGELLA

## S P A P R O J E C T

Hole No. 69 - 3  
Commenced 7th DECEMBER, 1969  
Finished 9th DECEMBER, 1969

Purpose Of Hole EXPLORATION-MINERALIZED

FINAL DEPTH: 398° TUFF / NE<sup>AR</sup> CONTACT

## DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
0'0"	10'5"	No Recovery														----
10'5"	15'5"	Moderately sound core recovery in pale grey-green fairly well cemented coarse grained crystal tuff. Contains some well jointed shattered zones and considerable haematite staining both on joints and remanent crystals - probably decayed pyrite.														90%
15'5"	19'5"	Coarse-grained moderately sound cemented, grey-green pale crystal tuff and agglomerate. Contains noticeable xenoliths of white tuff and other fragments including metamorphosed intrusives. Less haematite or limonite brown staining, but still noticeable. Traces of iron mineralization.														
19'5"	52'0"	Homogeneous remarkably uniformed grey-green, reasonably well graded, coarse-grained cemented crystal tuff with occasional, usually small, blebs and xenoliths of similar material. Core recovery is often in 3' lengths. Only rare traces of any metallic mineralization. Very little veining	20'0"	30'0"	10'0"	10874	TR	TR								100%

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 2

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W	RECOV.	
		or structural discontinuities.														
52'0"	57'0"	As above, slightly darker green colour, possibly reflecting slightly finer grain size and less agglomerate.													100%	
57'0"	62'5"	Coarse grained far more corroded crystal tuff. At 57'6" this is reduced to dark plastic clay. All core is vuggy, pitted or partially washed away. Considerably more pyrite mineralization particuarly in the black clay band.	50'0"	60'0"	10'0"	10875	TR	TR							100%	
62'5"	67'3"	Homogeneous coarse-grained moderately sound, grey-green crystal and lithic tuff as described. Little mineralization.													100%	
67'3"	70'0"	Zone largely made up of lithic fragments, bombs, xenoliths, etc. in crystal tuff matrix. Little mineralization.														
70'0"	78'0"	Coarse grained crystal tuff as above with some small lithic fragments and bombs.														

## DIAMOND DRILL RECORD

HOLE NO. 69-3      PAGE 3

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W	RECOV.	
78'0"	105'0"	Remarkably uniform moderately well cemented grey-green, coarse-grained crystal and lithic tuff with some small xenoliths. Some corroded veins carrying pyrite concentration, and irregular small concentrations of specular iron. Core has very little veining or structural discontinuity and is recovered in long uniform lengths.	90'0"	100'0"	10'0"	10251	TR	TR								
105'0"	111'0"	Essentially as above but with same large partially digested xenoliths of white crystal tuff and some indications of flow concentration at 106'0".													100%	
111'0"	116'0"	Coarse-grained moderately homogeneous grey-green tuff and agglomerate as before.													100%	
116'0"	119'0"	Coarse grained slightly pitted and vuggy corroded crystal tuff and agglomerate as above. Core is broken by corroded veining now turned to pale clay and at 118'0" to 118'9" a black plastic clay and remanent feldspars and silicious fragments with large pyrite cubes.													100%	

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 4

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 5

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	% Pb	% Zn	AU W	AG W	CU W		Recovery
146'0"	155'0"	Blocky and fragmental recovery in much harder grey silicious well cemented, well graded, medium grained acid crystal.														60%
155'0"	164'0"	Moderately sound hard silicious, grey well-cemented coarse-grained crystal tuff - not noticeably mineralized, but with some fine pyrite.														100%
164'0"	166'0"	Broken and partially altered, slickensided, brecciated, grey volcanic as above. Large recrystallization zones of massive amorphous <del>amorphous</del> white sulfate. May be gypsum or another metallic sulfate. (Soft-Hardness about 2.)														
166'0"	167'0"	Pyrite appears to be slightly foliated <del>feathered</del> and may be massive replacement zone.	166'0"	170'0"	4'0"	10253	0.10	0.90	0.06	0.25	0.38					
167'0"	169'0"	Grey silicious well cemented tuff carrying considerable pyrite and with sulfate mineral as before on joint surfaces.														
169'0"	176'0"	Moderately homogeneous sound grey, well cemented, medium-grained silicious crystal tuff with some sulfate. Mineralization on occasional partings. May be zinc sulfate. Considerable traces or finely disseminated pyrite.	170'0"	175'0"	5'0"	10254	Tr	0.10		0.18	0.13					

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 6

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
176'0"	188'5"	Grey-green, mottled white coarse-grained moderately sound crystal tuff and volcanic agglomerate. Slight evidence of rare flow. Core becomes increasingly coarse grained towards base. Persistent rare traces of specularite and pyrite.														
188'5"	199'0"	Finer grained more homogeneous grey-green crystal tuff with some agglomerate. Core has a pitted erosion surface which becomes more pronounced. Some small vugs with specularite and disseminated pyrite.														
199'0"	224'0"	Monotonous moderately well cemented grey-green coarse-grained crystal tuff and agglomerate. Finely disseminated pyrite and specular iron, but no other interesting minerals than these.	210'0"	220'0"	10'0"	10255	TR	TR			0.13					
224'0"	231'0"	Green-grey more varied tuff and agglomerate as above. Becomes very coarse grained and agglomeratic towards 231'0". Occasional pink fragments probably silica. Disseminated sulphides but no concentrations.														100%

## DIAMOND DRILL RECORD

HOLE NO. 69-3

**PAGE 7**

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 8

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	%CU	%PB	%ZN	AU W	AG W	CU W	RECOV.	
264'0"	278'0"	Moderately well cemented pale green coarse grained variable crystal tuff and agglomerate. Little structural phenomena. Some more weathered zones contain pyrite and specularite in fine disseminations.														
278'0"	292'0"	Green cemented crystal tuff and agglomerate showing zones of distinctive flow. Some thin dendritic minerals in mineralized veinlets, with pyrite probably manganese. Some heavily pyritized xenoliths at 283'0". Disseminated pyrite and occasional specularite.	280'0"	290'0"	10'0"	10258	Tr	0.2								
292'0"	292'5"	Zone of above material cut by permanent corroded black clay material.														
292'5"	302'0"	Variable cemented green coarse-grained crystal tuff with occasional joints. These are vuggy corroded and carry recrystallized specularite and pyrite.														

## DIAMOND DRILL RECORD

HOLE NO. 69 - 3 PAGE 9

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
302'0"	303'0"	Zone of <del>prominently</del> veined mineralized dark green or black agglomerate. Considerable specularite, pyrite and haematite.														100%
303'0"	305'0"	Green coarse grained pyritized crystal tuff as previous 20'.														100%
305'0"	316'0"	Completely chaotic, irregular, varied breccia and volcanic agglomerate cemented in a dark matrix. Some vuggy and corroded zones. Iron mineralization often heavy with specularite and haematite particularly, with some magnetite and pyrrohoite. This is a metamorphised contact zone with the dark auto-brecciated dyke or lava recorded below.	310'0"	320'0"	10'0"	10259	Tr	0.1				Tr				100%
316'0"	327'5"	Well cemented moderately fresh looking agglomerate breccia and auto brecciated material set in a fine-grained dark green matrix. Probably marginal to dyke or lava flow. Origin may be partially metasomatic, partially xenoliths and sloping effects. Fresh disseminated pyrite, some specularite, and traces of haematite.														100%

## DIAMOND DRILL RECORD

HOLE NO. 69-3

PAGE 10

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	%PB	%ZN	AU W	AG W	CU W		RECOV.
327'5"	331'0"	Homogeneous, hard, sound dark green rock fine-grained auto brecciated dyke or lava flow. Fresh pyrite and some specularite.														100%
331'0"	332'0"	Breccia zone with possible slickensided joints. Well cemented. Iron rich specularite zone disseminated and in thin veins.														100%
332'0"	340'0"	Auto brecciated hard, well cemented green material as above. Fresh pyrite usually in small concentration and some haematite.														100%
340'0"	346'0"	Brecciated and auto brecciated material as above. Some of the fragments illustrate flow banding. Occasional thin mineralized seams with pyrite, specularite, and possibly <del>sphalerite</del> <del>pyrite</del> .	340'0"	350'0"	10'	10260	Tr	Tr	0.11	0.43		Tr				100%
346'0"	382'0"	Uniform recovery in fine-grained green matrix, cementing auto brecciated fragments. Traces of fresh pyrite are common with some specular iron and minor traces of magnetite and other iron minerals. Some variation in intensity of auto-brecciation and some variations in the grain size of the minerals in the matrix can be identified.	370'0"	380'0"	10'	10261	Tr	0.1								100%

## DIAMOND DRILL RECORD

HOLE NO. 69-3 PAGE 11

[illegible]

North 148 + 00  
East 171 + 00  
Elevation 5,400' approx.  
Azimuth VERTICAL  
Dip 88°  
Logged By J. F. PAGELIA and J

# DIAMOND DRILL RECORD

Hole No.	69 - 4
Commenced	11th DECEMBER, 1969
Finished	14th DECEMBER, 1969
Purpose Of Hole	EXPLORATION I.P. ANOMALY
FINAL DEPTH	402 <sup>0</sup>

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-4 PAGE 2

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-4

**PAGE** 3

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		Recovery
		present in small veins and some of the quartz is pink.														
79'0"	96'0"	Variable hard well cemented rocks as above. Recovery is 100%. No distinctive markers or structural phenomena noted. Joint surfaces may show signs of movement and thin veneers of serpentine-like material.														100%
96'0"	102'0"	Paler more silicious zone with noticeably less ferromagnesian minerals, otherwise as above.														100%
102'0"	103'0"	Blocky fragmental zone in silicic granite as above. Veins are filled with chocolate coloured loosely cemented hematitic sand.														100%
103'0"	105'0"	Hard well cemented grey green granite as previously described.														100%
105'0"	107'0"	Green pale granite zone of completed corroded green-white clay armoured with quartz fragment. Solid part of core recovered has some showings of disseminated pyrite.	105'0"	110'0"	50'	10264	Tr	0.1								75%
107'0"	111'0"	Variable grey green granite as previously described. Core has some prominent joint surfaces. Finely disseminated isolated crystals and tiny concentrations of pyrite are seen.														100%
111'0"	126'0"	Variable grey pale, green, silicious well cemented, very hard coarse-grained granite as previously described. None or very minute traces of sulphides. Fine-grained, grey-green felspar.														

## DIAMOND DRILL RECORD

HOLE NO. 69-4 PAGE 4

[illegible]

## DIAMOND DRILL RECORD

HOLE NO. 69-4 PAGE 5

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU	Pb%	Zn%	AU W	AG W	CU W		Recovery
180'0"	220'0"	Fresh biotite granodiorite, with a little pyrite and possibly sphalerite in veinlets which are clearly late at 201'5" and 205'. Rest of section pyrite disseminated accessory.														
220'0"	225'0"	Increasing felspar alteration and pyrite content.														
225'0"	231'0"	Very altered, granodiorite with much pyrite, little Fe oxide, possibly minor sphalerite and secondary manganese in veinlets.	224'0"	231'0"	7'0"	10267	Tr	Tr								
231'0"	234'0"	Fresh biotite granodiorite, slight biotite foliation 45° to core axis 233' - 235'														100%
237'0"	252'0"	Slightly altered granodiorite with disseminated pyrite and later blebs and veinlets occurring rarely.														
252'0"	256'0"	Fresh biotite granodiorite														
256'0"	260'0"	Altered kaolinized granitic rock with increase in pyrite content and possibly minor sphalerite.	260'0"	265'0"	5'0"	10268	0.06	Tr			0.86					
260'0"	276'0"	Very altered granodiorite highly kaolinized, biotite over to chlorite, <sup>any</sup> second <sup>of</sup> veins pyrite and sphalerite up to 1/2"														
		NB Specimen sample at 273'														
276'0"	291'0"	Fresh biotite granodiorite														
291'0"	301'0"	Slightly altered granodiorite, biotite largely over to chlorite, disseminated pyrite.														
301'0"	308'0"	Very altered granodiorite, kaolinized - soft, with increase in pyrite.	301'0"	306'0"	5'0"	10269	Tr	Tr								
308'0"	328'0"	Fresh biotite granodiorite with biotite foliation at 45° to core axis. Dark patch probably xenolith from 309'5" - 309'8".														

# DIAMOND DRILL RECORD

**HOLE NO. 69-4      PAGE 6**

[illegible]

North	164 + 00 N
East	182 + 75 E
Elevation	Approx. 5000 ft.
Azimuth	075° True
Dip	75°
Logged By:	Ian Turnbull

## SPA MINES PROJECT

HOLE NO. 5 PAGE 1

Commenced May 25, 1970 -- Finished May 27, 1970 @ 368'  
To intersect anticipated sulphide zone shown by DDH 69-2

## DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO.

5

**PAGE**

2

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

**HOLE NO.** 5      **PAGE** 3

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5

PAGE 4

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5 PAGE 5

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 5 PAGE 6

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recovery
110'	134'	As above , intrusive calcic dyke rock. Coarse auto-brecciation noticeable in parts , with attendant admission of pyrite. Greater degree of mineralization. Pyrite occurring in hairline fractures and minor disseminations. Chalco-pyrite noted at 129'.														100
																80
134'	135'	Gouge material in shear zone subparalleling the core. Pyrite concentrated in veinlet.														
135'	141'6"	Dark grey green homogeneous fine grained dolerite dyke. Very calcic with numerous calcite veinlets. These may carry pyrite.														100
141'6"	151'	Dark green medium to fine grained calcitic matrix cementing numerous fine to coarse altered breccia blocks of paler tuffaceous material. Regular calcite veinlets , and regular pyrite occurring with or replacing calcite. Chalco-pyrite noted at 151'.														100

## SPA MINES PROJECT

HOLE NO. 5

PAGE 7

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5

**PAGE** 8

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5

PAGE 9

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5

PAGE 10

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 5 PAGE 11

# DIAMOND DRILL RECORD

[illegible]

**HOLE NO.** 5                      **PAGE** 12

[illegible]

## SPA MINES PROJECT

HOLE NO. 5 PAGE 13

# DIAMOND DRILL RECORD

[illegible]

SPA MINES PROJECT

HOLE NO. 6 PAGE 1

Commenced May 28, 1970 -- Finished May 29, 1970 at 198'  
To test vertical extension of rusty weathered zone in

# DIAMOND DRILL RECORD

granodiorite.

[illegible]

## SPA MINES PROJECT

HOLE NO. 6

**PAGE** 2

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 6 PAGE 3

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 6 PAGE 4

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 6 PAGE 5

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 6 PAGE 6

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 6 PAGE 7

[illegible]

## SPA MINES PROJECT

HOLE NO. 6

**PAGE** 8

# DIAMOND DRILL RECORD

[illegible]

SPA MINES PROJECT

HOLE NO. 7 PAGE 1

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

**HOLE NO.** 7

**PAGE** 2

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 7 PAGE 3

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 7 PAGE 4

[illegible]

## SPA MINES PROJECT

**HOLE NO. 7**

**PAGE** 5

# DIAMOND DRILL RECORD

[illegible]

**HOLE NO.**        7        **PAGE**        6

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 7 PAGE 7

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 7

**PAGE** 8

# DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recovery
259'	271'	Dark green-grey calcic fine grained doleritic intrusive dyke. Thin calcite veins cut the rock regularly. Margins of the dyke; i.e., within 2' of contacts with top and bottom units, have mottled appearance due to partially dissolved fine to coarse inclusions of pale tuffaceous material. Very fine pyrite mineralization in these marginal areas.														100
271'	297'	Pitted pale grey fine crystal tuff, as before. Some minor inclusions of altered pyroclastic material.														100
297'	306'	Similar unit as above. Tuff has a slightly green tinge.														100
306'	310'6"	Mottled brittle grey altered coarse tuff or agglomerate. Large coarse blocks of pyro-clastic and possibly bombs have been kaolinized.														

HOLE NO. 7 PAGE 9

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recovery
310'6"	314'	Pitted pale grey fine crystal tuff.														100
314'	317'	Transitional contact between tuff and intrusive dyke. Brecciated and well cemented blocks of tuff within a calcic dark green matrix. Pyrite weakly disseminated.														100
317'	337'	Hard well fractured dark green intrusive dyke. Very calcic and cut by many calcite veinlets. Complete recovery of fractured section 330-332, where calcite veins subparallel the core. No visible sulphides.														100
337'	350'	Dark green intrusive dyke as above. Rock varies from a holocrystalline texture to a porphyritic one, with phenocrysts of augite. No mineralization.														100

## SPA MINES PROJECT

HOLE NO. 7 PAGE 10

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO.

7

PAGE

11

# DIAMOND DRILL RECORD

[illegible]

North	184 + 00N
East	194 + 50E
Elevation	Approx. 4800'
Azimuth	262° True
Dip	65°
Logged By	Ian Turnbull

## SPA MINES PROJECT

HOLE NO. 8 PAGE 1

Commenced June 2, 1970 -- Finished June 4, 1970  
To test strong I.P. anomaly as indicated by McPhar survey.

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 8 PAGE 2

[illegible]

## SPA MINES PROJECT

HOLE NO.

8

**PAGE**

3

# DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
			FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% RECOVER
84'	116'	Competent hard, mainly fresh fine crystal and lithic tuff as above. Minor kaolinization localized around fractures. Coarse crystal pyrite and crystal clusters regularly disseminated through the core. Visual estimate of sulphide content is 1.0% to 2.0%.													100	
116'	124'	Pitted, relatively more kaolinized tuff. Infrequent fractures with associated limonite and manganese staining. Weaker mineralization.	120	130	10	3201	TR	.02							100	
124'	139'6"	Well mineralized section. Host is, as above, a pitted kaolinized acid tuff. Shattered 1' sections of extremely kaolinized tuff appear to precede the mineralized zones, which are locally resilicified and brecciated. These zones are intersected at 125' to 126'6", 128' to 129', 138' to 139'6". Pyrite is estimated at 30% by volume. It is the only visible sulphide.	130	140	10	3202	TR	.10							100	
												</				

## SPA MINES PROJECT

HOLE NO. 8

PAGE 4

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 8

**PAGE** 5

# DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recovery
195'	213'6"	Altered acid tuff as before. There is an increase in percentage of "pink" alteration to the pyroclasts. Thin veinlets of coarse crystal pyrite (1/4" wide) cut the core at 197'6", 207" and 213'6".														100
213'6"	254'	Homogeneous pink fine crystal and lithic tuff. Consistent disseminated pyrite, approximately 1 to 2% by volume.														100
254'	258'	Pale 6" wide bands of mineralized partially silicified tuff are intersected at 254', 256' and 258'.														100
258'	310'	Monotonous sections of pale grey and pink acid tuff as before. Core recovered in long unbroken lengths. Pyrite regularly disseminated throughout. Tight fractures at approximately 5' intervals carry small concentrations of fine pyrite.														100

## SPA MINES PROJECT

HOLE NO. 8

PAGE 6

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 8 PAGE 7

[illegible]

SPA MINES PROJECT

HOLE NO. 9 PAGE 1

Commenced June 7, 1970 -- Finished June 9, 1970  
To test I.P. anomaly on Line 116N as indicated by McPhar Survey

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 9 PAGE 2

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 9 PAGE 3

[illegible]

## SPA MINES PROJECT

HOLE NO. 9 PAGE 4

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 9 PAGE 5

[illegible]

## SPA MINES PROJECT

**HOLE NO.** 9      **PAGE** 6

# DIAMOND DRILL RECORD

[illegible]

HOLE NO. 9 PAGE 7

DESCRIPTION			CORE LENGTH				ASSAYS						ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recovery	
181'	221'	Lengthy sections of hard core of siliceous calcic coarse blocks of pyroclastic material within fine grained andesitic material, as above. However calcite veinlets cut the core regularly. Pyrite is weakly disseminated throughout. A 1" wide siliceous band at 198' carries pyrite and minor galena, together with a halo of epidotic alterations.														100	
221'	226'	Dark green fine grained andesite. Pyrite mineralization is relatively stronger.														100	
226'	228'	Pale green chloritized and slightly kaolinized andesite.														100	
228'	229'6"	Unaltered andesite as before with 1" wide quartz and pyrite vein cutting the core.														100	

## SPA MINE PROJECT

HOLE NO. 9 PAGE 8

# DIAMOND DRILL RECORD

[illegible]

## SPA MINES PROJECT

HOLE NO. 9 PAGE 9

# DIAMOND DRILL RECORD

DESCRIPTION			CORE LENGTH				ASSAYS					ACCUMULATIVE AVERAGES				
FROM	TO		FROM	TO	ACC WIDTH	SAMPLE NO.	AU OZ.	AG OZ.	% CU			AU W	AG W	CU W		% recover
320'	323'6"	Competent and hard core of pale green mottled chloritized and kaolinized fine to medium grained acid tuff. There are also rare xenoliths of blocks of pyroclasts.														100
323'6"	325'	Pale grey microcrystalline hard aplite dyke														100
325'	346'	Monotonous sections of mottled chloritized medium and coarse lithic acid tuff, as before. Core is slightly calcic, and irregularly kaolinized.														100
346'	348'6"	Darker green tuffaceous rock, relatively more liberally pyritized.														100
348'6"	380'	Variable green medium and coarse grained acid tuff, with minor agglomeritic sections. With depth there is a gradational change to a more siliceous and metamorphosed homogeneous unit, the tuffaceous character becoming less evident.														100

## SPA MINES PROJECT

HOLE NO. 9 PAGE 10

# DIAMOND DRILL RECORD

[illegible]