

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

680689
94E

PROPERTY SPARTAN

HOLE No. S-2

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size B.Q. Total Depth 500 FT. Sheet No. 1 of 8
 Angle of Hole Vertical % Recovery 80% Logged by T.E. KALNINS
 Claim Elev. Collar Date Begun Sept. 16, 1969
 Section Latitude Date Finished Sept. 23, 1969
 Bearing Departure Core Stored At Toodoggone L.

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 45	100%							
45 - 52	4'6"	Highly fractured, altered monzonite (?) ~ 40% pale phenocrysts with indistinct boundaries ~ 15% fine grained dark minerals. ~ 40% flesh colored feldspars. pyritic -> lightly magnetic (pyrite in fract & disseminated; speck of epidote						
52 - 53/6	6"	✓	✓					
53/6 - 55	6"	✓	✓					
55 - 58/6	6"	✓	✓					
58/6 - 62	3'	✓	✓					
62 - 67	4'	✓	✓					
67 - 72	3'6"	✓	✓ - brecciated.					
72 - 77	3'6"	} Highly fractured, flesh colored, fine to medium grained rhyolite dike - (medium gr. quartz, dark minerals)						
77 - 81	2'6"							
81 - 84/6	1'6"							
84/6 - 87	6"	as above 67'						
87 - 90	6"	✓ (end of box 1 - 89')						

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 PROPERTY SPARTAN

 HOLE No. S-2

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size B.Q.
 Angle of Hole Vertical
 Claim
 Section
 Bearing -

 Total Depth
 % Recovery
 Elev. Collar
 Latitude
 Departure

 Sheet No. 1 of
 Logged by T.E. KALNINS
 Date Begun
 Date Finished
 Core Stored At Toodoggone L.

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
0 - 45	100%							
45 - 52	4'6"	Highly fractured, altered monzonite (?) - ~ 40% pale phenocrysts with indistinct boundaries ~ 15% fine grained dark minerals ~ 40% flesh colored feldspars pyritic, lightly magnetic (pyrite in fract & disseminated; speck of epidote)						
52 - 53/6	6"	✓		✓				
53/6 - 55	6"	✓		✓				
55 - 58/6	6"	✓		✓				
58/6 - 62	3'	✓		✓				
62 - 67	4'	✓		✓				
67 - 72	3'6"	✓		✓ - brecciated				
72 - 77	3'6"	} Highly fractured, flesh colored, fine to medium grained rhyolite dike (medium gr. quartz, dark minerals)						
77 - 81	2'6"							
81 - 84/6	1'6"							
84/6 - 87	6"	as above 67'						
87 - 90	6"	✓ (end of box 1 - 89')						

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No. 2 of 8
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
90 - 93/6	0	3' medium fractured - up to 2". last 6" highly fractured. Fract. at 40° & 70° to core, occasionally sub-parallel. Thin calcite fillings. The rock is lightly magnetic, porphyritic, brownish, syenite-monzonite. The brownish K feldspar constitute main volume of the rock - groundmass & porphy phenocrysts with accessory dark minerals partly altered to epidote. There is very little or no iron sulphide.						
93/6 - 96/6	1'	✓						
96/6 - 102	6"	✓						
102 - 104	6"	✓						
104 - 110	1'	✓						
110 - 115	0	✓						
		112' - end of box 2						

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HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
90 - 93/6	0	3' medium fractured - up to 2". last 6" highly fractured. Fract. at 40° & 70° to core, occasionally sub-parallel. Thin calcite fillings. The rock is lightly magnetic, porphyritic, brownish, syenite-monzonite. The brownish K feldspars consist of main volume of the rock - groundmass & perthite phenocrysts with accessory dark minerals partly altered to epidote. There is very little or no iron sulphide.						
93/6 - 96/6	1'	✓						
96/6 - 102	6"	✓						
102 - 104	6"	✓						
104 - 110	1'	✓ - highly fractured 109 - 106						
110 - 115	0	✓ - brecciated (sheared) and cemented.						
		112' - end of box 2						

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HOLE No.....

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Corrected		
Footage	Angle	Azimuth

Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

Sheet No. 3 of 8
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
115-117	6"	The core in this box (112'-135') is uniformly fractured average ~ 1" intervals, slightly magnetic, light pyrite in few fractures only - minor calcite & pinkish kaolin in fractures. The rock is a pinkish-brown syenite-monzonite (as beginning of hole). Fractures to core: 20°, 30°, 50°, 60°, 40°, sub-parallel						
117-120	1'	✓ ✓						
120-124	1'	✓ ✓						
124-129	0	✓ ✓						
129-134	0	✓ ✓						
134-138	0	135' - end of box 3.						
138-143	1'	} The rock is similar to above only is more broken and a light increase in dark minerals.						
143-143/6	0							
143/6-149	0							
149-152	1'							
152-155	2'							
155-156	6"							
156-161	1'	161' end of box 4						

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DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
115-117	6"	The core in this box (112'-135') is uniformly fractured average ~ 1" intervals, slightly magnetic, light pyrite in few fractures only - minor calcite & pinkish kaolin in fractures. The rock is a pinkish-brown syenite-monzonite (as beginning of hole) Fractures to core: 20°, 30°, 50°, 60°, 40°, sub-parallel						
117-120	1'	✓ ✓						
120-124	1'	✓ ✓						
124-129	0	✓ ✓						
129-134	0	✓ ✓						
134-138	0	135'-end of box 3.						
138-143	1'	The rock is similar to above only is more broken and a light increase in dark minerals.						
143-143/6	0							
143/6-149	0							
149-152	1'							
152-155	2'							
155-156	6"							
156-161	1'	161' end of box 4						

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

Sheet No. 4 of 8
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
161-170	0	No variation in core; rock highly broken around 175'						
170-173	0							
173-183	1'60"							
183-193	2'6"		(185 - end of box 5)					
193-203	2'	Highly broken. At 199' - 203' rock is brecciated with gangle material at 203'. Silicious fragments at 201'.						
203-207	3'	Highly fractured (broken core), fine-grained, grey, increase in pyrite content to 228'. It could be a dike or more probably zoning in the main rock.						
207-210	2'							
210-212	1'							
212-213	11"							
213-223	9'							
223-233	5'	From 228 there again is an increase in brownish K feldspars (porphyritic), light pyrite & epidote in thin fractures. The core is well broken. 233' - end of box 6.						
233-243	1'6"	A light increase in altered grey plagioclase and dark minerals give the core a greyish color. Well broken						
243-252	4'							
252-254	6"							
254-259	1'		264 - end of box 7					
259-264	0							

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
161-170	0	No variation in core; rock highly broken around 175' (185' - end of box 5)						
170-173	0							
173-183	1'6"							
183-193	2'6"							
193-203	2'	Highly broken. At 199' - 203' rock is brecciated with gangle material at 203'. Silicious fragments at 201'.						
203-207	3'	Highly fractured (broken core), fine grained, gray, increase in pyrite content to 228'. It could be a dike or more probably zoning in the main rock						
207-210	2'							
210-212	1'							
212-213	11"							
213-223	9'							
223-233	5'		From 228 there again is an increase in brownish, K feldspars (porphyritic), light pyrite & epidote in thin fractures. The core is well broken, 233' - end of box 6.					
233-243	1'6"	A light increase in altered grey plagioclase and dark minerals give the core a greyish color. Well broken 264 - end of box 7						
243-252	4'							
252-254	6"							
254-259	1'							
-264	0							

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

Sheet No. 5 of 8
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
264-269/6	0	Well fractured & (broken) monzonite - diorite, greyish medium grained. Approx. equal amounts of orthoclase & plagioclase (45-45%), about 10% dark minerals, epidote in fractures, light calcite and pyrite. The dominant fractures are 65° to the core.						
269/6-272/6	0	" "						
272/6-280	6"	" "						
280-285/6	6"	" "						
285/6-290	1'6"	" "						
		288 end box 8						
290-292/6	1'	" "						
292/6-295	0	" "						
295-298	2'	" "						
298-303	2'	" "						
303-313	4'	" "						
313-323	3'	" "						
		319 - end box 9 - core is highly broken throughout this box						

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
269-269 1/6	0	Well fractured & (broken) monzonite-diorite, greyish medium grained. Approx equal amounts of orthoclase & plagioclase (45-45%), about 10% dark minerals, epidote in fractures, light calcite and pyrite. The dominant fractures are 65° to the core.						
269 1/6-272 1/6	0	"						
272 1/6-280	6"	"						
280-285 1/6	6"	"						
285 1/6-290	1'6"	"						
		288 end box 8						
290-292 1/6	1'	"						
292 1/6-295	0	"						
295-298	2'	"						
298-303	2'	"						
303-313	4'	"						
313-323	3'	"						
		319 - end box 9 - core is highly broken throughout this box						

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PROPERTY.....

HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No. 6 of B
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
323-333	0	Good coring. Fractured up to 2" lengths.						
333-343	0	Brownish porphyritic syenite-monzonite, light epidote in fractures - sparse pyrite. 341 - end of box 10						
343-353	0	" " (coring up to						
353-363	0	" " 4" lengths) 362 end of box 11						
363-369	0	361/6 to 365 dark grey, fine grained						
369-372/6	0	andesite dike with several thin calcite veins, but						
372/6-379/6	1	no mineralization - well cored.						
379/6-384/6	0	365 - 371 - flesh colored syenite-monzonite, broken; 371 - 377/6 well broken pink feldspar porphyry - a well epidotized section 377 - 384/6. good coring, flesh colored syenite-monzonite, slight pyrite only. 384/6 end of box 12.						

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HOLE No.....

DIP AND AZIMUTH TEST		
		Corrected
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
323-333	0	Good coring. Fractured up to 2" lengths.						
333-343	0	Brownish porphyritic syenite-monzonite, light epidote in fractures - sparse pyrite. 341 - end of box 10						
343-353	0	" " (coring up to						
353-363	0	" " 4" lengths) 362 end of box 11						
363-369	0	361/6 to 365 dark grey, fine grained						
369-372/6	0	andesite dike with several thin calcite veins, but						
372/6-379/6	1	no mineralization - well cored.						
379/6-384/6	0	365 - 371 flesh colored syenite-monzonite, broken; 371 - 377/6 well broken pink feldspar porphyry - a well epidotized section 377 - 384/6 good coring, flesh colored syenite-monzonite, slight pyrite only.						
		384/6 end of box 12.						

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HOLE No.....

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth

 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No. 7 of 8
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
384/6-389	0	Flesh colored syenite - monzonite, about						
389-393/6	0	10% dark minerals, Main fractures 60°						
393/6-399/6	0	to core. Brecciation with dark cementing						
399/6-405	0	at 400', 404' & 407'. Light epidote,						
405-410/6	1'	lightly magnetic.						
		407/6 end of box # 13						
410/6-416/6	1'	" " - broken core						
416/6-422/6	2'	417/6 - 437 greenish grey rock (increased						
422/6-425	1'6"	epidote & plagioclase content) with flesh						
425-433	3'6"	colored phenocrysts. Core is broken &						
433-443	0	brecciated from 416/6 - 426/6. Last						
		2' in box the rock gradually changes into						
		flesh colored syenite - monzonite						
		438/6 - end of box 14						
443-453	0	Good coring. Banded syenite - monzonite						
453-463	0	The bands are flesh colored, fine-grained						
		rhyolite - trachyte up to 3" wide. Epidote						
		alteration in fractures cross the banding.						
		461 - end box 15						

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Corrected		
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 Core Size.....
 Angle of Hole.....
 Claim.....
 Section.....
 Bearing.....

 Total Depth.....
 % Recovery.....
 Elev. Collar.....
 Latitude.....
 Departure.....

 Sheet No..... of.....
 Logged by.....
 Date Begun.....
 Date Finished.....
 Core Stored At.....

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE				
384/6-389	0	Flesh colored syenite - monzonite, about						
389-393/6	0	10% dark minerals, Main fractures 60°						
393/6-399/6	0	to core. Brecciation with dark cementing						
399/6-405	0	at 400', 404' & 407'. Light epidote,						
405-410/6	1'	lightly magnetic.						
		407 /6 end of box #13						
410/6-416/6	1'	" " - broken core						
416/6-422/6	2'	417/6 - 437 greenish grey rock (increased						
422/6-425	1'6"	epidote & plagioclase content) with flesh						
425-433	3'6"	colored phenocrysts. Core is broken &						
433-443	0	brecciated from 416/6 - 426/6. Last						
		2' in box the rock gradually changes into						
		flesh colored syenite - monzonite						
		438/6 - end of box 14						
443-453	0	Good coring. Banded syenite - monzonite						
453-463	0	The bands are flesh colored, fine-grained						
		rhyolite - trachyte up to 3" wide. Epidote						
		alteration in fractures cross the						
		banding						
		461 - end box 15						

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HOLE No.

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Corrected		
Footage	Angle	Azimuth

 Core Size
 Angle of Hole
 Claim
 Section
 Bearing

 Total Depth
 % Recovery
 Elev. Collar
 Latitude
 Departure

 Sheet No. of
 Logged by
 Date Begun
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DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE					
463-473	○	Banding as noted in last box to 465'							
473-483	○	465 to <u>end of box 16 at 482'</u> core appears brecciated and recemented with grayish material & some epidote, some calcite gouge material at 470'. Dominant mineral is pinkish orthoclase - porphyritic.							
483-493	○	Good coring. Fleck colored phenocrysts & medium sized grains as well as epidote specs in a dark brownish matrix. Much alteration has taken place in cracks & fract. and the texture appears as in brecciation. There are thin calcite veinlets. Epidote decreases somewhat beyond 490'. Trace Fe-sulphide.							
493-500	○		500' end of box 17 and DDM 5-2.						