

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

680673
Pillar

PROPERTY Pillar

HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

Core Size B0 Total Depth 700' Sheet No. 1 of 16
 Angle of Hole 43° 30' % Recovery 75.90 Logged by Capeband & Benes
 Claim No. 3 Elev. Collar 5720' Date Begun Aug. 5/69
 Section Grid SW 17E 2N Latitude 57° 16' 30" N Date Finished Aug. 13/69
 Bearing 090° Departure 126° 55' W Core Stored At Toodoggone

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	in ppm.						
						Cu	Pb	Zn	Mo	Ag	in
0-44'	44'	No Core									
44'-71'		Highly altered, weathered, and broken up. Abundant staining. Moderate pyrite crystals occurring in fractures.	2111	5'	50'-55'	27	117	10	2	6.0	
71'-85'		Core still highly altered and broken grading into a feldspar porphyry. Pyrite mineralization occurring in fractures and leached zones.									
85'-93½'		Feldspar porphyry and sections are highly weathered. Fracture fillings with quartz, and pyrite scattered throughout. 92½' - 93½' highly altered and oxidized.	2112	5'	84-89'	9	29	9	3	6.3	
	26'										
93½'-99'		Slightly broken and fractures are filled with quartz. Large percentage of quartz phenos. Becomes more feldspar porphyry towards 99'.	2113	5'	94-99'	28	39	11	1	5	

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 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

 Core Size B0
 Angle of Hole 43° 30'
 Claim No 3
 Section Grid SW 17E 2N
 Bearing 090°

 Total Depth 700'
 % Recovery 75%
 Elev. Collar 5130'
 Latitude 57° 16' 30" N
 Departure 126° 55' W

 Sheet No. 5 of 16
 Logged by Capeland & Benes
 Date Begun Aug 9/69
 Date Finished Aug 13/69
 Core Stored At Toedogyan

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE		ppm					
						Cu	Pb	Zn	Mo	Ag	
191'-193'		Core is highly broken, trending into a feldspar porphyry with minor epidote.									
193-202'		Altered feldspar porphyry. Quartz phenos becoming less numerous. Contains 1/8" stringers of feldspar.	2123	5'	194'-199'	29	48	113	2	0.6	
202'-211 1/2'		Moderately fractured feldspar porphyry containing disseminated altered epidote and numerous 1/4" stringers of plagioclase and orthoclase feldspar with some quartz at the centers. Coatings of oxidized pyrite were broken.	2124	5'	204'-209'	21	32	89	1	0.6	
	5'										
211 1/2'-220'		Light grey and white mottled feldspar porphyry. Moderately broken. Contains altered disseminated epidote and numerous small stringers of orthoclase.	2125	5'	214'-219'	28	59	100	1	0.5	

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

 Core Size BD
 Angle of Hole 43° 30'
 Claim No. 3
 Section Grid S W 17 E 2 N
 Bearing 090°

 Total Depth 700'
 % Recovery 75%
 Elev. Collar 5720'
 Latitude 57° 16' 30" N
 Departure 126° 55' W

 Sheet No. 7 of 16
 Logged by Lupeland & Benes
 Date Begun Aug 5/69
 Date Finished Aug 13/69
 Core Stored At Tandaggan

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
255 ¹ / ₂ ' - 264'		Core is greenish grey becoming porphyritic i.e. contains orthoclase plagioclase phenocrysts. Well broken up containing stringers of plagioclase and orthoclase.	2236	5'	254'-259'	65	30	78	4	0.7
264' - 268'		Dark grey andesite ground mass with scattered phenocrysts of plagioclase and only slightly fractured. Some of the fractures being filled with pyrite.	2237	5'	264'-269'	68	39	100	1	0.7
268' - 275 ¹ / ₂ '		Grey andesitic ground mass becoming more porphyritic, the plagioclase and epidote content increasing. Moderately fractured with stringers of plagioclase up to 1/4" wide - Dip \approx 18°								
	4'									
275' - 283'		Grey andesitic ground mass, becoming porphyritic. Highly broken up. Numerous minute stringers of plagioclase.	2238	5'	274'-279'	53	19	82	ND	0.5

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	56° 30'	

 Core Size 30
 Angle of Hole 43° 30'
 Claim No. 5
 Section Grid SW 17E 2N
 Bearing 090°

 Total Depth 700'
 % Recovery 75%
 Elev. Collar 5720'
 Latitude 57° 16' 30" N
 Departure 126° 55' W

 Sheet No. 9 of 16
 Logged by BENES
 Date Begun Aug 5/69
 Date Finished Aug 13/69
 Core Stored At Tundagong

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
<u>283'-297'</u>		<u>Quartz porphyry containing stringers of plagioclase. Highly broken from 288'-295' Minute fractures with some containing pyrite.</u>								
	<u>3'</u>		<u>2239</u>	<u>5'</u>	<u>284'-289'</u>	<u>50</u>	<u>42</u>	<u>39</u>	<u>1</u>	<u>0.7</u>
			<u>2240</u>	<u>5'</u>	<u>294'-299'</u>	<u>50</u>	<u>210</u>	<u>105</u>	<u>11</u>	<u>2.2</u>
<u>297'-326'</u>		<u>Quartz porphyry which is mostly broken up. Numerous fractures being filled with plagioclase. Also some dark coloured stringers from 311'-326' containing an abundance of pyrite.</u>								
	<u>4'</u>		<u>2241</u>	<u>5'</u>	<u>304'-309'</u>	<u>49</u>	<u>55</u>	<u>51</u>	<u>4</u>	<u>1.6</u>
			<u>2242 A</u>	<u>5'</u>	<u>314'-319'</u>	<u>33</u>	<u>63</u>	<u>170</u>	<u>1</u>	<u>1.4</u>
			<u>2242 B</u>	<u>5'</u>	<u>324'-329'</u>	<u>48</u>	<u>78</u>	<u>155</u>	<u>1</u>	<u>0.8</u>
<u>326'-348'</u>		<u>Light grey quartz porphyry which is moderately fractured. Contains numerous stringers up to 1/8" wide of plagioclase. Dark coloured stringers scattered throughout containing pyrite.</u>								
	<u>3'</u>		<u>2243</u>	<u>5'</u>	<u>334'-339'</u>	<u>83</u>	<u>72</u>	<u>112</u>	<u>1</u>	<u>1.0</u>
			<u>2244</u>	<u>5'</u>	<u>344'-349'</u>	<u>94</u>	<u>58</u>	<u>170</u>	<u>2</u>	<u>1.3</u>

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

 Core Size BQ
 Angle of Hole 43° 30'
 Claim No 3
 Section Grid SW 17E 2N
 Bearing 090°

 Total Depth 700'
 % Recovery 75.90
 Elev. Collar 5720'
 Latitude 57° 16' 30" N
 Departure 126° 55' W

 Sheet No. 9 of 16
 Logged by BENES
 Date Begun Aug 5/69
 Date Finished Aug 13/69
 Core Stored At Tandagong

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
348'-370'		Light to dark grey quartz porphyry. Becoming almost andesitic in some places. Highly fractured containing stringers of plagioclase and an abundance of pyrite scattered throughout the core. The pyrite tends to become more massive in the dark grey almost andesitic type sections.	2245	5'	354'-359'	128	72	178	2	2.4
	3'		2246	5'	364'-369'	58	59	115	3	0.9
370'-384'		Light grey andesite which is moderately fractured. The fractures are generally filled with plagioclase stringers containing pyrite throughout. The core is slightly oxidized from 370'-378' and highly oxidized and extremely broken from 378'-384'.	2247	5'	374'-379'	49	87	160	3	1.6
384'-396'		Grades into a feldspar porphyry which is extremely broken.	2248	5'	384'-389'	40	51	85	1	1.1
396'-404'	9'	Grades back into a light grey andesite, moderately fractured containing plagioclase stringers, pyrite.	2249	5'	394'-399'	20	14	30	4	0.7

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

 Core Size B0
 Angle of Hole 43° 50'
 Claim No. 3
 Section Grid SW 17E 2N
 Bearing 090°

 Total Depth 700'
 % Recovery 75%
 Elev. Collar 5730'
 Latitude 57° 16' 30" N
 Departure 126° 55' W

 Sheet No. 10 of 16
 Logged by W. BENES
 Date Begun Aug 5/69
 Date Finished Aug 13/69
 Core Stored At Tandagone

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
401'-421'		Very light grey andesite which is moderately fractured containing numerous stringers of minute plagioclase. Minor appearances of quartz and quartz phenos and pyrite scattered throughout the core.	2250	5'	401'-409'	36	30	70	4	0.5
			2251	5'	414-419'	80	90	183	5	1.0
	3'									
427'-451'		Mainly a light grey andesite which is extremely broken up. Several small sections of core became rich in quartz phenos with other parts of the core showing minor appearances. Where the core is not completely broken there are stringers of plagioclase. Most of the core contains pyrite and at 447' a small section becomes massive. Some of the visible fractures also contain pyrite. at 449'.	2252	5'	430'-435'	86	24	64	5	0.9
			2253	5'	435'-440'	30	18	35	2	0.6
			2254	5'	440'-445'	250	30	68	1	0.5
			2255	5'	445'-450'	17	40	51	ND	0.4
			2256	5'	450'-455'	410	36	44	ND	0.5

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

Core Size <u>BQ</u>	Total Depth <u>700'</u>	Sheet No. <u>11</u> of <u>16</u>
Angle of Hole <u>43° 30'</u>	% Recovery <u>75.9%</u>	Logged by <u>W. BENES</u>
Claim <u>No. 3</u>	Elev. Collar <u>5720'</u>	Date Begun <u>Aug 5/69</u>
Section <u>Grid SW 17E 2N</u>	Latitude <u>57° 16' 30" N</u>	Date Finished <u>Aug 13/69</u>
Bearing <u>090°</u>	Departure <u>126° 55' W</u>	Core Stored At <u>Teodoggone</u>

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
<u>451'-476'</u>		<u>Dark grey andesite, moderately fractured containing stringers of plagioclase and several minor stringers of quartz. From 465'-470' the core is well spotted with epidote. A large percentage of the core contains pyrite scattered throughout with a 1' section at 458' being slightly denser. Still heavily broken up.</u>	<u>2257</u>	<u>5'</u>	<u>455'-460'</u>	<u>370</u>	<u>39</u>	<u>94</u>	<u>2</u>	<u>1.0</u>
			<u>2258</u>	<u>5'</u>	<u>465'-470'</u>	<u>46</u>	<u>35</u>	<u>53</u>	<u>1</u>	<u>0.8</u>
			<u>2259</u>	<u>5'</u>	<u>475'-480'</u>	<u>46</u>	<u>16</u>	<u>180</u>	<u>2</u>	<u>0.8</u>
	<u>0'</u>									
<u>476'-505'</u>		<u>Dark grey andesite which is extremely broken up from 500'-504' stringers and spots of epidote. Plebs. of pyrite throughout and becoming slightly denser from 494'-497'.</u>	<u>2260</u>	<u>5'</u>	<u>485'-490'</u>	<u>88</u>	<u>16</u>	<u>75</u>	<u>3</u>	<u>0.9</u>
			<u>2261</u>	<u>5'</u>	<u>495'-500'</u>	<u>34</u>	<u>16</u>	<u>77</u>	<u>1</u>	<u>0.8</u>
	<u>0'</u>									
<u>505'-532'</u>		<u>A very extremely broken dark grey andesite. Stringers of epidote 505'-509'. Pyrite scattered throughout with some fractures of pyrite.</u>	<u>2262</u>	<u>5'</u>	<u>505'-510'</u>	<u>235</u>	<u>18</u>	<u>175</u>	<u>1</u>	<u>0.8</u>
			<u>2263</u>	<u>5'</u>	<u>515'-520'</u>	<u>215</u>	<u>19</u>	<u>200</u>	<u>2</u>	<u>0.9</u>
			<u>2264</u>	<u>5'</u>	<u>525'-530'</u>	<u>60</u>	<u>20</u>	<u>138</u>	<u>5</u>	<u>0.8</u>

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

Core Size <u>80</u>	Total Depth <u>700'</u>	Sheet No. <u>12</u> of <u>16</u>
Angle of Hole <u>43° 30'</u>	% Recovery <u>75%</u>	Logged by <u>W. BENES</u>
Claim <u>No. 3</u>	Elev. Collar <u>5120'</u>	Date Begun <u>Aug. 5/69</u>
Section <u>Grid S.W. 17E 2N</u>	Latitude <u>57° 16' 30" N</u>	Date Finished <u>Aug. 13/69</u>
Bearing <u>290°</u>	Departure <u>126° 55' W</u>	Core Stored At <u>Trudiggone</u>

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
532'-535'		Light to dark grey andesite 534 ^{1/2} '-534 ^{5/8} ' very broken from 532'-535' disseminated pyrite and also concentrated along the fractures 537'-544' the pyrite is still disseminated and also concentrated along plagioclase stringers 546'-550' stringers of plagioclase with pyrite 550'-552' fault gouge, 552'-555' heavy concentration of biotite	2265	5'	530'-535'	36	70	36	1	0.8
			2266	5'	535'-540'	340	57	170	4	0.9
			2267	5'	540'-545'	160	46	130	1	1.0
			2268	5'	545'-550'	1100	30	125	1	1.8
			2269	5'	550'-555'	2200	22	315	1	2.5
	3'	* 530-560 light chalcopyrite with pyrite T.E.K.								
555'-560'		Porphyritic andesite. The phenocrysts are elongated plagioclase type Pyrite fairly well disseminated and concentrated along fractures.	2270	5'	555'-560'	2000	20	495	ND	2.3
560'-565'		Porphyritic andesite becoming rich in epidote. Still moderately broken containing disseminated pyrite.								
565'-570'		Extremely broken containing fractures of plagioclase and areas of massive epidote.	2271	5'	565'-570'	123	15	240	1	1.1

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700	50° 30'	

Core Size	20	Total Depth	700'
Angle of Hole	43° 30'	% Recovery	75%
Claim	No. 3	Elev. Collar	5120'
Section	Grid SW 17E 2N	Latitude	57° 16' 30" N
Bearing	N 90°	Departure	126° 55' W

Sheet No. 14 of 16
 Logged by Copeland & Bence
 Date Begun Aug. 27/69
 Date Finished Aug. 13/69
 Core Stored At Too Doggone

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	ppm					
					Cu	Pb	Zn	Mo	Ag	
604'-607'		Dark grey porphyritic andesite with phenos of plagioclase and stringers of plagioclase. Also contains massive epidote.								
			2275	5'	605'-610'	52	39	650	ND	0.8
607'-615'		Dark grey andesite moderately broken with 1/4" stringers of epidote also disseminated pyrite.								
			2276	5'	615'-620'	54	138	875	2.	0.6
615'-625'		Dark grey hornblende andesite containing stringers of plagioclase and fractures filled with pyrite. Moderately broken.								
	4'									
625'-637'		Light grey green andesite with phenos of hornblende containing stringers of epidote and plagioclase. Pyrite concentrated along areas of epidote.	2277	5'	625'-630'	400	83	1550	2	2.7
637'-640 1/2'		Light grey andesite, disseminated epidote, minor phenos of plagioclase, extremely broken.	2278	5'	635'-640'	170	15	190	ND	1.2

CORDILLERAN ENGINEERING LIMITED — DIAMOND DRILL RECORD

 PROPERTY Pillar

 HOLE No. P-1

DIP AND AZIMUTH TEST		
Corrected		
Footage	Angle	Azimuth
700'	50° 30'	

 Core Size 30
 Angle of Hole 75° 30'
 Claim Nb. 3
 Section Grid SW 17E 2N
 Bearing 090°

 Total Depth 700'
 % Recovery 75%
 Elev. Collar 5140'
 Latitude 51° 16' 30" N
 Departure 124° 55' W

 Sheet No. 16 of 16
 Logged by C. J. Daniels & Co. Inc.
 Date Begun Aug 5/69
 Date Finished Aug 13/69
 Core Stored At Towdoggone

DEPTH	CORE LOST	DESCRIPTION	SAMPLE No.	WIDTH OF SAMPLE	<i>ppm</i>					
					Cu	Pb	Zn	Mo	Ag	
664'-672'		Light gray highly altered andesite. Extremely broken up. Contains disseminated areas of weathered out pyrite. Stringers of plagioclase.	2281	5'	665'-670'	49	97	215	3	1.1
672'-677'		Becomes a hornblende andesite containing areas of massive plagioclase & hornblende moderately broken and pyrite appears to be associated with the plagioclase. "4" stringers of epidote.								
678'-700'		Hornblende andesite becoming less rich in plagioclase and more rich in hornblende. Moderately fractured containing numerous minute fillings of epidote. Broken up	2282	5'	675'-680'	122	41	900	4	1.4
			2283	5'	685'-690'	30	30	475	2	1.0
	9'		2284		690'-700'	13	15	500	1	1.0

**BONDAR-CLEGG & COMPANY LTD.**

geologists • geochemists • analysts

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE 988-5315**GEOCHEMICAL LAB REPORT**

No. 29-317

 Extraction..... HNO₃-HCl
 Method..... Atomic Absorption
 Fraction Used..... -80 mesh

 From..... Cordilleran Engineering, Ltd.
 Date..... August 29, 19 69
 Analyst..... D.M.

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	REMARKS
2111	27	117	10	2	6.0	ND - Not Detected
2112	9	29	9	3	0.3	
2113	28	39	11	1	0.5	Project - QCM-TDG
2114	35	14	50	1	0.6	
2115	17	60	41	1	0.8	Copies To:
2116	110	200	117	10	0.9	1. T. E. Kalnins
2117	105	53	140	1	1.2	Telkwa, B.C.
2118	25	38	84	1	1.1	2. Cordilleran Eng.
2119	74	57	71	1	1.2	Vancouver, B.C.
2120	58	71	66	4	0.9	
2121	49	38	98	2	0.6	
2122	30	38	95	2	0.7	
2123	29	48	113	2	0.6	
2124	21	32	89	1	0.6	
2125	28	59	100	1	0.5	
2233	30	24	108	1	0.4	
2234	39	40	105	3	0.4	
2235	45	66	108	6	0.8	
2236	65	30	78	4	0.7	
2237	68	39	100	1	0.7	
2238	53	19	82	ND	0.5	
2239	50	42	39	1	0.7	
2240	50	210	195	11	2.2	
2241	49	55	51	4	1.6	
2242 A	33	63	170	1	1.4	
2242 B	48	78	155	1	0.8	
2243	83	72	112	1	1.0	
2244	94	58	170	2	1.3	
2245	128	72	178	2	2.4	
2246	58	59	115	3	0.9	
2247	49	87	160	3	1.6	

GEOCHEMICAL LAB REPORT

SAMPLE NO.	Cu ppm	Pb ppm	Zn ppm	Mo ppm	Ag ppm	REMARKS
2248	40	51	85	1	1.1	
2249	20	14	30	4	0.7	
2250	36	30	70	4	0.5	
2251	80	90	183	5	1.0	
2252	86	29	64	5	0.9	
2253	30	18	35	2	0.6	
2254	250	30	68	1	0.5	
2255	17	40	51	ND	0.4	
2256	410	36	44	ND	0.5	
2257	370	39	94	2	1.0	
2258	46	35	53	1	0.8	
2259	46	16	180	2	0.8	
2260	88	16	75	3	0.9	
2261	34	16	77	1	0.8	
2262	235	18	175	1	0.8	
2263	215	19	200	2	0.9	
2264	60	20	138	5	0.8	
2265	36	70	36	1	0.8	
2266	340	57	170	4	0.9	
2267	160	46	130	1	1.0	
2268	1100	30	195	1	1.8	
2269	2200	22	315	1	2.5	
2270	2000	20	475	ND	2.3	
2271	123	15	240	1	1.1	
2272	375	37	225	1	1.6	
2273	122	37	170	2	1.3	
2274	550	60	260	2	2.8	
2275	52	39	650	ND	0.8	
2276	54	138	875	2	0.6	
2277	400	83	1550	2	2.7	
2278	170	15	190	ND	1.2	
2279	38	106	3000	3	2.0	
2280	290	20	160	2	1.3	
2281	49	97	215	3	1.1	
2282	122	41	900	4	1.4	
2283	30	30	475	2	1.0	
2284	13	15	500	1	1.0	