



42104NE0013 12 VALENTINE

010

Diamond Drilling

Township OF VALENTINE

Report NO: 12

Work performed by: ARGOR EXPLORATIONS LIMITED

Claim NO	Hole NO	Footage	Date	Note
P.91430	V-2-1	654.0'	Oct/67	
P.91426	V-2-3	2000.0'	April/69	(1)

Notes:

(1) #72-69

U-2-1

Overburden

No conc.

70% LC.

No conc.

80% LC.

50%

Mostly LC.

P 91430  
Valentine

ss - limestone - Abitibi Formation? - Middle Devonian

ss - sandstone, siltstone, mudstone } Sextant Formation - Lower Dev.

Unconformity

Altered ultrabasic rock

	%SiO <sub>2</sub>	%CaO
	Tr	.02
	Tr	.02
Tr	Tr	Tr
	Tr	Tr
	Tr	.02
	Tr	.02
	Tr	.02
	Tr	.08
	Tr	.05
	Tr	.04
.02	Tr	.02

Carbonatite

Pyroxenite/Hornblende

654'

# DIAMOND DRILL RECORD

PROPERTY **ARCOE EXPLORATIONS LTD. - PROJECT TERRANE.** HOLE No. **V-2-1**  
 LOCATION **V-2 ANOMALY GRID** Started: **Oct. 8th, 1967** Bearing: **---**  
 Latitude **8-00W** Completed: **Oct. 14th, 1967** Dip: **-90°**  
 Departure **1+50N** Dip tests: **50'-82°, 250'-86°, 550'-83°** Length: **554'**  
 Elevation **SURFACE** Logged by: *H. W. Stahler P. Eny*

Footage	Description	Sample	Footage	Width	Ass.
0-54	<u>WX CASING IN OVERBURDEN?</u>				
0-402	<u>AX CASING</u>				
54-315	<u>MIDDLE DEVONIAN SEDIMENTS - AETHEI FORMATION</u> Fossiliferous limestone - light brownish to light grey. Corals. Local shaley sandy and clayey horizons. Generally weakly bedded. Minor carbon content. <u>54-100</u> Tri-coned - no core. <u>100-125</u> 70% lost core. <u>125-200</u> Tri-coned - no core. <u>200-235</u> 80% lost core. <u>240-258</u> 40% lost core.				
315-445?	<u>LOWER DEVONIAN SEDIMENTS - SEXTANT FORMATION</u> Brown micaceous siltstone - sandstone - mudstone complex. Typical. Soft, local clay bands. Poorly bedded. 30% lost core to 385'. <u>385-445</u> lost core - a few pieces clayey siltstone, and some siliceous granite boulders from 437-445.				

Footage	Description	Sample	Footage	Width	Assays																
-517	<p><u>ALTERED ULTRABASIC OR BASIC ROCK.</u></p> <p>Light green chloritized &amp;/or serpentized rock. Medium to coarse grained. Sections similar to Goldray 2 ultrabasic, but this contains more magnetite/hematite. 10-15% fine to coarse black, earthy hematite? (after magnetite). Local bands rusty altered carbonate. Slight banding @ irregular angles (20-50°).  <u>463.5-493 LCST CORE.</u></p>	3551 52 53 54	500-510 510-520 520-530 530-540	10 30 10 10	<table border="1"> <tr> <th>Fe</th> <th>Pb</th> </tr> <tr> <td>.01</td> <td>.01</td> </tr> <tr> <td>.01</td> <td>.01</td> </tr> <tr> <td>.01</td> <td>.01</td> </tr> <tr> <td>.01</td> <td>.01</td> </tr> </table>	Fe	Pb	.01	.01	.01	.01	.01	.01	.01	.01						
Fe	Pb																				
.01	.01																				
.01	.01																				
.01	.01																				
.01	.01																				
-591	<p><u>CARBONATE</u></p> <p>Pink to light brown, locally light grey. Fine and fine to medium grained. Fractured @ 20-85°. Many fractures contain up to 1/2" infilling of second generation carbonate (calcite) &amp; locally contain flecks <u>chalcopyrite</u>. Occasional pyrite. Rock is mainly dolomitic. <u>Vuggy</u>. 2-6% chloritized biotite (fine to coarse - patchy). 5% fine hematite? (after magnetite) - possible some columbite or tantalite - black, earthy, reddish brown to brown streak. Occasional zircon, apatite. Occasional brown grains - possibly pyrochlore? Local slight banding @ 20-30°.</p> <p><u>545-546</u> 70% coarse biotite. Altered chlorite - carbonate ground mass. Some hard light brown mineral. 2-3% hematite/columbite.</p> <p><u>546-547</u> Highly altered, 'coked'. 15% purple brown, very hard mineral resembles corundum. 3% hematite/columbite.</p> <p><u>549-552</u> LCST CORE.</p> <p><u>550.3, 572.6</u> Grains rusty brown mineral - possible pyrochlore</p> <p><u>565.5-568</u> LCST CORE.</p> <p><u>570-581.5</u> High biotite zone (70%) altered pale green chlorite carbonate ground mass. Upper contact @ 5°.</p> <p><u>581.5-585</u> High hematite (after magnetite?) zone. 10% hematite. 15-20% biotite. Altered chlorite - carbonate ground mass.</p> <p><u>590-591</u> Vuggy fracture. Coarse calcite crystals and some marcasite/pyrite along wall of vug.</p>	3555 56 57 58 59 60 61	540-550 550-560 560-570 570-580 580-590 610.5-612.5 635-645	10 10 10 10 10 10 10	<table border="1"> <tr> <th>Fe</th> <th>Pb</th> </tr> <tr> <td>.02</td> <td>.02</td> </tr> <tr> <td>.02</td> <td>.02</td> </tr> <tr> <td>.02</td> <td>.02</td> </tr> <tr> <td>.02</td> <td>.02</td> </tr> <tr> <td>.05</td> <td>.05</td> </tr> <tr> <td>.02</td> <td>.02</td> </tr> <tr> <td>.02</td> <td>.02</td> </tr> </table>	Fe	Pb	.02	.02	.02	.02	.02	.02	.02	.02	.05	.05	.02	.02	.02	.02
Fe	Pb																				
.02	.02																				
.02	.02																				
.02	.02																				
.02	.02																				
.05	.05																				
.02	.02																				
.02	.02																				

Stage	Description	Sample	Footage	Wich	Assays
54	<p><u>PYROXENITE/MORBLENITE</u></p> <p>Dark green, medium and coarse grained - pyroxene or amphibole. 10-40% patchy magnetite (locally hematized) 5-2% calcite (interstitial). Occasional flecks and grains chalcocopyrite throughout. Local sphene concentration. Occasional zircon.</p> <p>610.5-612.5 <u>CARBONATITE</u> band @ 18-20°. 5% apatite. Occasional zircon. Mostly fine grained dolomite. Occasional chlorite, biotite, magnetite chalcocopyrite. Several brown grains <u>pyrochlore</u></p> <p>652-654 50-60% white to pinkish calcite. 10% biotite.</p> <p>10% magnetite (patchy). 2-3% amphibole needles. 1-1% sulfides (pyrite pyrrhotite).</p> <p style="text-align: center;">END OF HOLE 654'</p>				

# DIAMOND DRILL RECORD

PROPERTY ARGOR EXPLORATIONS LTD - PROJECT TERRANE.

HOLE No. V-2-3

LOCATION VALENTINE TWP.

Started: APRIL 13, 1969

Bearing: SOUTH

Latitude 45+00W

Completed: MAY 4, 1969

Dip: -50°

Departure 5+00N

Length: 2000'

Elevation SURFACE

Dip tests: 2508' 55°, 700' 56½°, 1300' 53°,  
2000' 47°.

Designed by: *H. Stockford*  
*HL*

Footage	Description	Core	Footage	Width	Assays
	0-22 HX Casing 0-240 NX Casing 0-733 BX Casing (Drilled NQ) 0-2000 Drilled BQ.				
0-240	<u>CASING IN OVERBURDEN</u>				
240-547.5	<u>PALAEOZOIC SEDIMENTS</u>  <u>240-378 MIDDLE DEVONIAN - ABITIBI FORMATION?</u>  <u>240-255</u> Soft grey clayey material locally tending to shale. First 5' include some brown, loosely cemented conglomerate. 50% lost core.  <u>255-378 LIMESTONE</u> Light buff to grey to white fossiliferous and wuggy limestone, generally of high CaCO <sub>3</sub> purity. Generally weak bedding @ 50-60°, more pronounced in last 50' due to narrow shaley and sandy horizons. 8" dark green grey shale @ 374' chloritic - possible contains some carbon remains.				

Footage	Description	Sample	Footage	Width	Assays
	<u>378-547.5</u> LOWER DEVONIAN -- SEXTANT FORMATION?				
	Mostly dark brown (reddish), rusty micaceous siltstone with sections grading into buff, loosely consolidated sandstone and grit, or into gritty and sandy siltstone. Finer grained sections tend to mudstone. Typical. Local conglomerate horizons.				
	<u>378-384</u> Mainly light greenish grey sandstone loosely cemented with clay and minor lime.				
	<u>384-387</u> LOST CORE.				
	<u>387-388</u> Green grey clay.				
	<u>388-411</u> Red brown siltstone with some gritty particles.				
	<u>393.5-395</u> Clay cemented grit. Quartz feldspar grains up to $\frac{1}{4}$ " - subangular.				
	<u>411-426</u> Mainly pale buff to brown sandstone grading into clayey or shaley horizon, in last 6'. White clay cement, locally slightly strengthened by carbonate. Minor black carbon content.				
	<u>426-440</u> Sandy siltstone 18" LC @ 436.				
	<u>440-447</u> Sandy shale - light grey to light brown 10% LC.				
	<u>447-470</u> Interbedded siltstone and silty grit. Soft loosely cemented 451.5-457 LOST CORE.				

Footage	Description	Sample	Footage	Width	Assays
	<p><u>470-475</u> Grey clayey shale interbedded with buff sandstone.</p> <p><u>475-533</u> Very loosely cemented grit/conglomerate much has disintegrated and fallen from boxes in transit. Pebbles, subangular, up to 2".</p> <p><u>476-477</u> LOST CORE.</p> <p><u>500-533</u> 90% LOST CORE. Pebbles only recovered.</p> <p><u>533-547</u> Red brown siltstone. Occasional pebbles up to <math>\frac{1}{2}</math>". 15% LOST CORE.</p>				
547.5-667	<p><u>WEATHERED CARBONATITE</u></p> <p>Pink to brown dolomitic and locally sideritic carbonatite. Minor calcite. Medium coarse crystalline. Slightly fractured, band @ 20-45" (very locally parallel to core). Locally vuggy. 5% apatite. 15% patchy chloritized mica 2-4% hematite/magnetite. No visible pyrochlore, 2% pyrite.</p> <p><u>547.5-567</u> Rotten brown, chloritized (mafic rich section), may be sediments in part, esp. 547.5-562 and 565-567 (soft rusty brown, decomposed)</p> <p><u>548.5-557</u> LOST CORE.</p> <p><u>581-582, 588-589, 592-594</u> LOST CORE.</p> <p><u>604-612</u> Rusty brown, decomposed mafic band. Mainly chlorite.</p> <p><u>615-618</u> LOST CORE.</p>				



Footage	Description	Sample	Footage	Width	Assays
	<u>652-655, 657-658</u> LOST CORE.				
667-675	<u>CARBONATITE</u> Grey to cream. Weakly banded carbonatite. Calcite dolomite mixture - coarse crystalline, 5-10% apatite? 10-15% biotite, 10% magnetite. 10% amphibole crystals (hornblende?). Locally dirty, chloritic appearance. Slightly gritty, weathered.				
675-692	<u>BIOTITE CARBONATE ROCK</u> 70% mica, 10% carbonate, 15% serpentinized Fe/mg 5% magnetite. <u>684.5-690</u> Highly weathered, chloritized, loose and flaky. <u>690-692</u> LOST CORE.				
692-720	<u>WEATHERED CARBONATITE</u> Cream to grey to brown, medium coarse and moderately weathered carbonatite. Mainly calcitic, minor dolomite, siderite. Locally well fractured and vuggy. 5-10% patchy magnetite. 2-3% pyrrhotite, 10% biotite 10% apatite, 10% altered amphibole. banded @ 15-60°. No visible economic mineralization. <u>710-720</u> Becoming fresh, unweathered.				
	<u>710-711</u> ½ core is light green, serpentinized dike.	3818	710-720	10	Cb <sub>2</sub> O <sub>5</sub> .05

Footage	Description	Sample	Footage	Width	Assays												
720-745	<p><u>HIGH BIOTITE ZONE</u></p> <p>70-80% medium coarse biotite, 15-20% calcite, medium chloritized. Fairly massive but fractured (carb. infillings). Occasional blobs pyrite - pyrrhotite. Occasional zircon. 200c/s radioactivity @ 730.5</p> <p><u>724-725 DIKE</u> Medium green Highly altered chloritized, 15% fine carbonate). Pseudo-fragments of pink feldspar?. Contacts @ 20°. Irregular stringers of same rock in adjacent rock.</p> <p><u>735.5-740 CARBONATITE</u></p> <p>Host is dolomitic calcite mixture. Cream to reddish to yellow brown. Possibly siderite in part. Considerable orange encrustation in last two feet. 10-15% biotite in first 2½'.</p>	3819 20	730-735 735-740	5 5	V <sub>2</sub> O <sub>5</sub> .02												
745-860	<p><u>CARBONATITE</u></p> <p>Irregularly banded @ 15-70° (generally 25-40). Grey, locally pinkish or creamy coloured calcitic carbonate host. Coarsely crystalline. Sections massive, granitic. Locally brecciated or "rolled fragmental" appearance. 10% biotite &amp;/or phlogopite mica - locally chloritized. 2-10% patchy pale green to dark green amphibole needles, locally in clusters. 1-4% patchy magnetite, 2-3% pyrrhotite. 2-10% pale green to orange coloured apatite. No visible pyrochlore Occasional zircon.</p>	3821 22	745-755 830-840	10 10	<table border="0"> <tr> <td></td> <td>Cr<sub>2</sub>O<sub>5</sub></td> <td>P<sub>2</sub>O<sub>5</sub></td> <td>Cu</td> </tr> <tr> <td></td> <td>.05</td> <td>2.86</td> <td>-</td> </tr> <tr> <td></td> <td>.03</td> <td></td> <td>T.</td> </tr> </table>		Cr <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	Cu		.05	2.86	-		.03		T.
	Cr <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	Cu														
	.05	2.86	-														
	.03		T.														

Footage	Description	Sample	Footage	Width	Assays
	<p><u>745-749</u> Cream dolomite host. Banded @ 60-75°</p> <p><u>795-798</u> Brownish to pink to grey. Slightly weathered Banded @ 70°.</p> <p><u>804-860</u> Increasing bands and irregular patches high in mafics and locally in magnetite. Weak banding, very irregular but generally at about 10-20°. 10-30% patchy medium to coarse pyroxene/amphibole prisms. 2-3% pyrrhotite. 3-15% patchy coarse magnetite. 5-10% biotite. Very occasional dark reddish - brown pyrrhchlore. 5-10% apatite. Host coarsely crystalline calcite. 1<sup>st</sup> band massive pyrrhotite @ 20° @ 833.5.</p> <p><u>827'</u> Radioactive count of 210 c/s. Occasional zircon.</p>	3824	820-830	10	
860-937.5	<p><u>ALTERED PYROXENE - APATITE - BIOTITE - CARBONATE ROCK</u></p> <p>Mottled green and orange to grey, very coarsely crystalline alkaline intrusive. Generally massive. Consists of medium green altered pyroxene (diopside/augite?) - 30% -40% medium soft, locally chloritized. Biotite coarse books - 15%. Magnetite 5-15%, apatite 15-20% orange or green. Pyrrhotite 2%. Host carbonate 15%. Locally reddish. Calcite/dolomite mixture. Possibly some nepheline or feldspathoid alteration products.</p> <p><u>885.5</u> 250 c/s radioactivity. Pale green mineral?</p> <p><u>905-906</u> Shear breccia zone @ 15°. High biotite/chlorite. Soft.</p> <p><u>920-925</u> Increased biotite at expense of pyroxene (40%).</p>				

Footage	Description	Sample	Footage	Width	Assays
	<u>925-937.5</u> Fairly fresh, 50% pyroxene - tends to pyroxenite.				
937.5-982	<u>CARBONATITE</u> Pink and cream, mainly coarse dolomite host minor sections purple grey, calcitic, especially in last 10'. Weak banding @ 30-70°, generally 45°. 10% biotite. 15% amphibole - pale green, prismatic and locally acicular needles. 2-4% pyrite and pyrrhotite. 5-8% magnetite/hematite. 15% apatite.	3823	870-880	10	9.60P <sub>2</sub> O <sub>5</sub>
		25	880-890	10	
		26	940-950	10	
		27	960-970	10	0.07Cb <sub>2</sub> O <sub>5</sub>
		29	1000-1010	10	8.65P <sub>2</sub> O <sub>5</sub>
	<u>939.5-941.5</u> <u>DIKE</u> Altered lamprophyre biotitic. 15% fine carbonate. Sharp contacts 85°.	28	1020-1030	10	8.58P <sub>2</sub> O <sub>5</sub> Ni1U <sub>3</sub> O <sub>8</sub> , .01 ThO <sub>2</sub> .
	<u>956-961.5</u> Biotite - amphibole/pyroxene - carbonate rock. 40% mica. 10% <u>amphibole needles</u> (dark green). 15% pale green altered pyroxene? 2-3% pyrite. 5% apatite. Contacts 15°.				
	<u>961.5-982</u> Generally resembles low grade carbonatite at Alpha. Some chloritized ferromagnesian				
	<u>965-967</u> Rusty fracture zone. Brown oxidized water course hematite/siderite. Main fracture at 966 - decomposed. Fracturing at 25-50°.				
982-1038	<u>PYROXENITE? AMPHIBOLE - APATITE - BIOTITE - MAGNETITE ROCK.</u> Mottled green grey and orange to cream and pink rock. Coarsely crystalline, massive. Consists				

Footage	Description	Sample	Footage	Width	Assays
	<p>of medium green fibrous pyroxene/amphibole crystals (40%), may be partly serpentized. Biotite mica 10-15%, orange apatite? 20%, coarse magnetite, (10-20% patchy), 2-4% sulphides (pyrite and pyrrhotite) Minor carbonatite. Local narrow bands carbonatite up to 2' wide.</p> <p><u>1034.5- 1036</u> Creamy pink CARBONATITE as above.</p> <p><u>1037.2-1038</u> LAMPROPHYRE DIKE @ 30°. Biotitic. Fine grained. Sharp contacts.</p>				
1038-1209	<p><u>CARBONATITE</u></p> <p><u>1038-1041</u> Pinkish cream and brown. Sideritic in part due to oxidation. 5% hematized magnetite. Host mainly dolomitic (70%), 10% orange apatite, 5-10% biotite 5-10% ferromagnesian rusty, altered. Weak banding @ 35°.</p> <p><u>1041-1209</u> Light grey to pink mainly calcitic and dolomitic carbonatite with sections just dolomitic. Generally fairly well banded at 35-75°. Locally massive, granitic. 8-15% biotite. 5-15% amphibole needles (pale green). Some coarse fibrous fe/mg, 5% magnetite 2-3% pyrrhotite - pyrite, 15% apatite. Occasional zircon. Sections u vuggy. Possibly occasional dark brown pyrochlore.</p> <p><u>1058-1062</u> Dolomite host (pink). Vuggy, leached @ 1060.5.</p> <p><u>1076</u> 4" lamprophyre Dike @ 20°. Sharp contacts.</p> <p><u>1090-1092</u> HYBRID ZONE 15% feldspar, 60% mica. 20% pyroxene/amphibole.</p>				

Footage	Description	Sample	Footage	Width	Assays
	<u>1095-1104</u> Pinkish cream dolomitic host. Medium grained. Very irregular banding @ 70° to parallel to core. Mica largely chloritized.				
	<u>1132-1134.5</u> <u>DIKE - LAMPROPHYRE?</u>				
	Dark green fine to medium grained. Sharp contacts @ 25°. 10% fine calcite.	3830	1095-1105	10	Cb <sub>2</sub> O <sub>5</sub> P <sub>2</sub> O <sub>5</sub> 0.02
	<u>1140-1142</u> Rusty, weathered. Dolomitic.	31	1160-1170	10	- 7.50
	<u>1159-1162</u> 25% coarse green chloritized pyroxene? 20% orange apatite.	32	1190-1200	12	5.47
	<u>1164</u> Vuggy, fractured zone @ 40-45°. Calcite encrustation - dolomitic adjacent 2'.				
	<u>1166-1197</u> Generally high in apatite (20%).				
	<u>1191-1197</u> Mafics chloritized? - 25% bright green mineral.				
	<u>1197-1199</u> <u>LAMPROPHYRE DIKE</u> - as above.				
1209-1220.5	<u>HYBRID ZONE</u>  Typical of biotite - feldspar - carbonate rock previously seen in V-2-2 and at Alpha. Possibly some feldspathoids.				

Footage	Description	Sample	Footage	Width	Assays
1220.5-1233.5	<p><u>CARBONATITE</u></p> <p>Grey to light grey. Well banded @ 40-60°. 30-40% mafics (biotite and amphibole crystals) 5% magnetite. Calcitic host. Medium to coarsely crystalline. Occasional stringers pyrite and pyrrhotite. Minor apatite.</p> <p><u>1222-1223, 1224-1225</u> High biotite bands (60-70%) 5% pyrite pyrrhotite.</p>				
1233.5-1242	<p><u>BIOTITE CARBONATE ROCK</u></p> <p>70% biotite, 20% calcite. Possibly 10% amphibole.</p>				
1242-1249	<p><u>CARBONATITE</u></p> <p>Very irregularly banded. Otherwise much as previous band above. Fractured along core.</p>				
1249-1295	<p><u>HYBRID ZONE</u></p> <p>Interbanded biotite - feldspar - carb. hybrid and carbonatite locally up to 20% pyroxene/amphibole may be chloritized. Probably inclusion of granitic country rock.</p> <p><u>1252-1257.5 LAMPROPHYRE DIKE</u> Typical. Sharp contacts at 20° and 15° respectively (wavy).</p>				

Footage	Description	Sample	Footage	Width	Assays
1295-1738	<p><u>1259.5-1260.5, 1262.5-1263, 1264-1264.5, 1267-1268, 1269-1273, 1275-1278</u> Grey carbonatite bands @ 35-45°. Some signs of radioactivity, especially in section 1260-1270 (up to 300c/s).</p>				
	<p><u>CARBONATITE</u></p>				
	<p><u>1295-1333</u> Creamy pink dolomitic host. Minor calcite. 5-8% biotite. 2-5% magnetite. 2% pyrite pyrrhotite, 2-5% pale green amphibole needles? 5-8% apatite. Banding locally well developed @ 55°. Locally vuggy. Very occasional pyrochlore.</p>	<p>B833 34 35</p>	<p>1260-1270 1300-1310 1350-1360</p>	<p>10 10 10</p>	<p>Nil U<sub>3</sub>O<sub>8</sub></p>
	<p><u>1316-1319</u> LAMPROPHYRE DIKE @ 10°. Fractured.</p>				
	<p><u>1333-1520</u> Granitic textured coarse calcitic carbonatite. light grey, locally cream to pinkish. Weak banding developed in some sections @ 30-60°. Sections dolomitic. 5-10% biotite, 8-10% apatite (green). 2-3% pyrrhotite and minor pyrite. 3-5% magnetite Occasional zircon. Narrow bands up to 1 or 2' high in biotite or mafic free. Up to 15% green hornblende prisms especially from 1395 onwards. Local development of fibrous amphibole -very pale.</p>				
	<p><u>1351-1360</u> Sugary, dolomite calcite host. Pinkish cream.</p>				
	<p><u>1384.5-1385</u> High biotite and fibrous amphibole/ asbestiform serpentine - up to 5% pyrite.</p>				
	<p><u>1395-1462</u> General increase in mafics (biotite/ amphibole) to 30-40%. Pinkish mauve carbonate host. 25-30% mafics from 1462 onwards.</p>				



Footage	Description	Sample	Footage	Width	Assays
	<u>1462.5</u> 4" inclusive hybrid material. High count of 250c/s @ 1463.	3836	1380-1390	10	
		37	1430-1440	10	
	<u>1509-1511.5</u> Fine grained, well banded @ 40°.	38	1460-1470	10	6.10 P <sub>2</sub> O <sub>5</sub> Tr U <sub>3</sub> O <sub>8</sub> Tr. U <sub>3</sub> O <sub>8</sub>
		39	1510-1520	10	
	<u>1511.5-1513</u> Cream dolomite post. Low in mafics. Minor fracturing @ 20°.				
	<u>1518.5-1519.5</u> 10% magnetite 30% coarse apatite. High count of 250 c/s.				
	<u>1520-1538</u> Calcitic carbonatite. 20% mafics (biotite - amphibole prisms). Weak banding 5-8% apatite. 2-4% magnetite.				
	<u>1538-1738</u> Grey, slightly purplish to pink tinge. Calcitic carbonatite. Minor dolomitic sections. Fairly uniformly banded @ 35-50°. Resembles low grade tongue of carbonatite @ Alpha. 15% patchy biotite. 2-8% magnetite. 15% hornblende - green coarse to medium coarse crystals 5-20% apatite. Patches containing up to 30% pale green, fibrous amphibole. 1% pyrrhotite. No visible pyrochlore.				
	<u>1547-1565</u> Mottled, probably slightly crushed pink.				
	<u>1636</u> 6" 40% magnetite.				
	<u>1672-1678</u> Cream and grey banded dolomitic sections possibly some pale pyrochlore?	3840	1560-1570	10	
		41	1600-1610	10	

Footage	Description	Sample	Footage	Width	Assays	
1738-2000	<u>1682-1694.5, 1704.5-1717</u> Pinkish cream, mainly coarse dolomitic host. Sections mainly carbonate, low in mafics. Overall 15% amphibole - altered hornblende? and fibrous varieties, 5-8% biotite/phlogopite. 2-3% magnetite. 5-8% apatite. Banding weak irregular @ 0-35°	3842	1670-1680	10	Cb <sub>2</sub> O <sub>5</sub>	
		43	1710-1720	10	Tr.	
	<u>PYROCHLORE CARBONATITE</u>					
	<u>1738-1762</u> Grey to white banded calcitic carbonatite. Bands mafic/ magnetite rich and mafic free. Banding @ 55-80° decreasing to 30-35° from 1755 onwards. Overall 1-10% biotite. 1-10% fibrous amphibole. 1-4% patchy pyrite - pyrrhotite. 1-10% apatite. Very patchy pyrochlore - light brown - in stringers of octahedra, eg ½" 10% @ 1738.3;					
	<u>1747.3-1749</u> 2% Light brown pyrochlore - segregated with higher apatite and magnetite. Last 6" 25% magnetite, 6% vuggy pyrite.					
	<u>1749-1762</u> Occasional light to dark red brown pyrochlore only.					
	<u>1760.5-1762</u> 10-15% coarse magnetite. 25% fibrous amphibole? 5-6% pyrite, ½% pyrochlore. 10% apatite.					
	<u>1762-1774.5</u> Uniform calcitic carb. low in mafics. 2-3% biotite, 2-5% amphibole. 2-4% patchy pyrite. Occasional pyrochlore. Weakly banded @ 25°					
	<u>1774.5-1794</u> Cream dolomitic carb. Minor calcite. Sections vuggy. 2-5% pyrite, 2-4% magnetite, 5% apatite.					
			3844	1725-1738	13	Cb <sub>2</sub> O <sub>5</sub> P <sub>2</sub> O <sub>5</sub>
		45	1738-1750	12	Tr.	
		46	1750-1760	10	0.33	
		47	1760-1770	10	0.09 5.85	
		48	1770-1780	10	0.21	
		49	1780-1790	10	0.05	
					0.06	

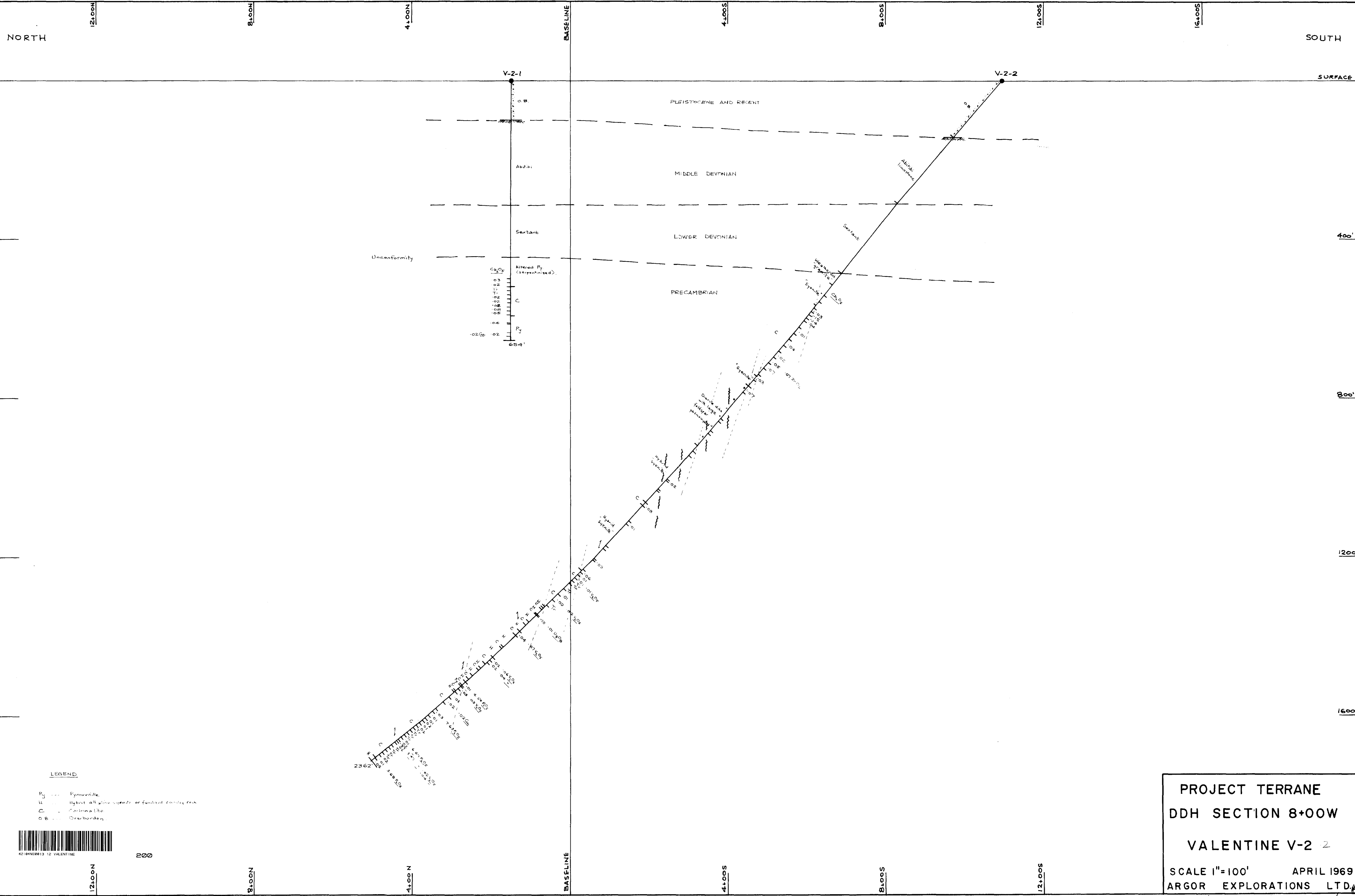
Footage	Description	Sample	Footage	Width	Assays
	Occasional pyrochlore.				
	<u>1790.7-1793</u> 15% magnetite, 20% fibrous amphibole. Up to 250 c/s radioactivity. 15% apatite. ½% dark brown pyrochlore.				
	<u>1794-1805</u> Calcitic carb. Grey, well banded @ 40°. 8-10% biotite. 10% apatite, 10% amphibole needles. Occasional magnetite, sulphides. Last 3' mainly calcite, low mafics.				
	<u>1805-1852</u> Pinkish cream dolomite host - low in mafics except locally. Moderate banding @ 30 decreasing to 0-5° @ 1840 on, and increasing to 30 in last 2'. Sections vuggy. Generally accessory minerals are as follows :- apatite 10% pyrite 2-6% 1-2% fibrous amphibole/biotite/chlorite. Very patchy pyrochlore - pale honey coloured. up to several percent over 2', but generally 0.1-0.3%. Very occasional fleck chalcopyrite.	3850	1790-1800	10	Cb2O5 P2O5 U3O8
		51	1800-1810	10	0.20 - -
		52	1810-1815	5	0.07 - - Cu
		53	1815-1820	5	1.18 5.49 0.02 N
		54	1820-1830	10	0.05 - -
		55	1830-1840	10	0.20 3.75 -
					0.16 - -
	<u>1807</u> 8" high green amphibole/serpentine fibres. 15% magnetite. Occasional zircon.				
	<u>1809.8-1810.8</u> ½% medium brown pyrochlore.				
	<u>1810.8-1812</u> High mafics, magnetite and pyrochlore 3-4% brown pyrochlore. 1% zircon: High radioactive count of 400 c/s. 20% magnetite. 40-50% fibrous amphibole serpentine.				
	<u>1812-1813.5</u> High grade pyrochlore/apatite stringers up to 1" wide in pink dolomite rock. Individual stringers up to 10% pale pyrochlore - overall 3%?				

Footage	Description	Sample	Footage	Width	Assays
	<u>1813.5-1852</u> Apatite stringers continue - locally contain several percent very fine pale pyrochlore, but banding largely parallel to core after 1835.	3855			Cb <sub>2</sub> O <sub>5</sub>
	<u>1852-1858</u> High biotite zone. 40-50% mica, 10-15% fibrous amphibole. Calcite host. No visible pyrochlore.	3856	1840-1850	10	0.13
		57	1850-1860	10	0.14
		58	1860-1870	10	0.37
		59	1870-1880	10	0.24
		60	1880-1890	10	0.13
	<u>1858-1914</u> Banded calcite and dolomite host rock. Grey to cream to slightly pinkish. Medium crystalline. More mafics than before. 10-15% biotite. 10-15% fibrous amphibole. 10% apatite. 2-4% magnetite. Local accumulation of very fine, pale pyrochlore and occasional red brown crystals - approx. $\frac{1}{2}$ - $\frac{3}{4}$ % to 1880? Banding @ 20-30°. Occasional stringers fine pyrite.				
	<u>1877</u> 38" 2% fine pyrochlore.				
	<u>1879</u> Count of 250 c/s.				
	<u>1889</u> 9", <u>1899-1900</u> 70% biotite bands.				
	<u>1903-1905.5</u> Hybrid feldspar - biotite inclusion	3861	1890-1900	10	0.14
		62	1900-1910	10	0.26
	<u>1914-1920</u> High biotite inclusion.	63	1910-1920	10	0.17
	<u>1920-1967.5</u> Irregularly interbanded carbonatite and biotite rich bands/ inclusions hybrid material. Largely grey dolomite host. Banded @ low angles to core, but locally up to 65°. Grey to white medium crystalline. Overall 15% biotite 10% apatite. Occasional magnetite.				

Footage	Description	Sample	Footage	Width	Assays
	<p>1-2% pyrrhotite. Locally up to 8-10% fibrous amphibole (patchy) pyrochlore occurs, as before, as fine octahedra - pale honey coloured - in narrow concentrations of up to 1 or 2% over a few inches otherwise just as scattered crystals.</p> <p><u>1966</u> 4" 20% pyrrhotite - a fleck of chalcopyrite in middle.</p> <p><u>1967.5-2000</u> Grey to light grey calcitic carbonatite banded @ 0-25° but generally at low angles. 2% pyrrhotite, 8-10% bi-tite. 8-10% apatite, 5-8% fibrous amphibole 2-4% magnetite. Local concentration of brown pyrochlore. (eg. 4" of 1% at 1983.5).</p>				
		3864	1920-1930	10	Cb <sub>2</sub> O <sub>5</sub> P <sub>2</sub> O <sub>5</sub> CU
		65	1930-1940	10	0.48 3.99
		66	1940-1950	10	0.23
		67	1950-1960	10	0.22
		68	1960-1970	10	0.11 Tr
		69	1970-1980	10	0.08
		70	1980-1995	15	0.46
		AVERAGE	1738-1995	257'	0.22% Cb <sub>2</sub> O <sub>5</sub>
	END OF HOLE 2000'				

NORTH

SOUTH



LEGEND

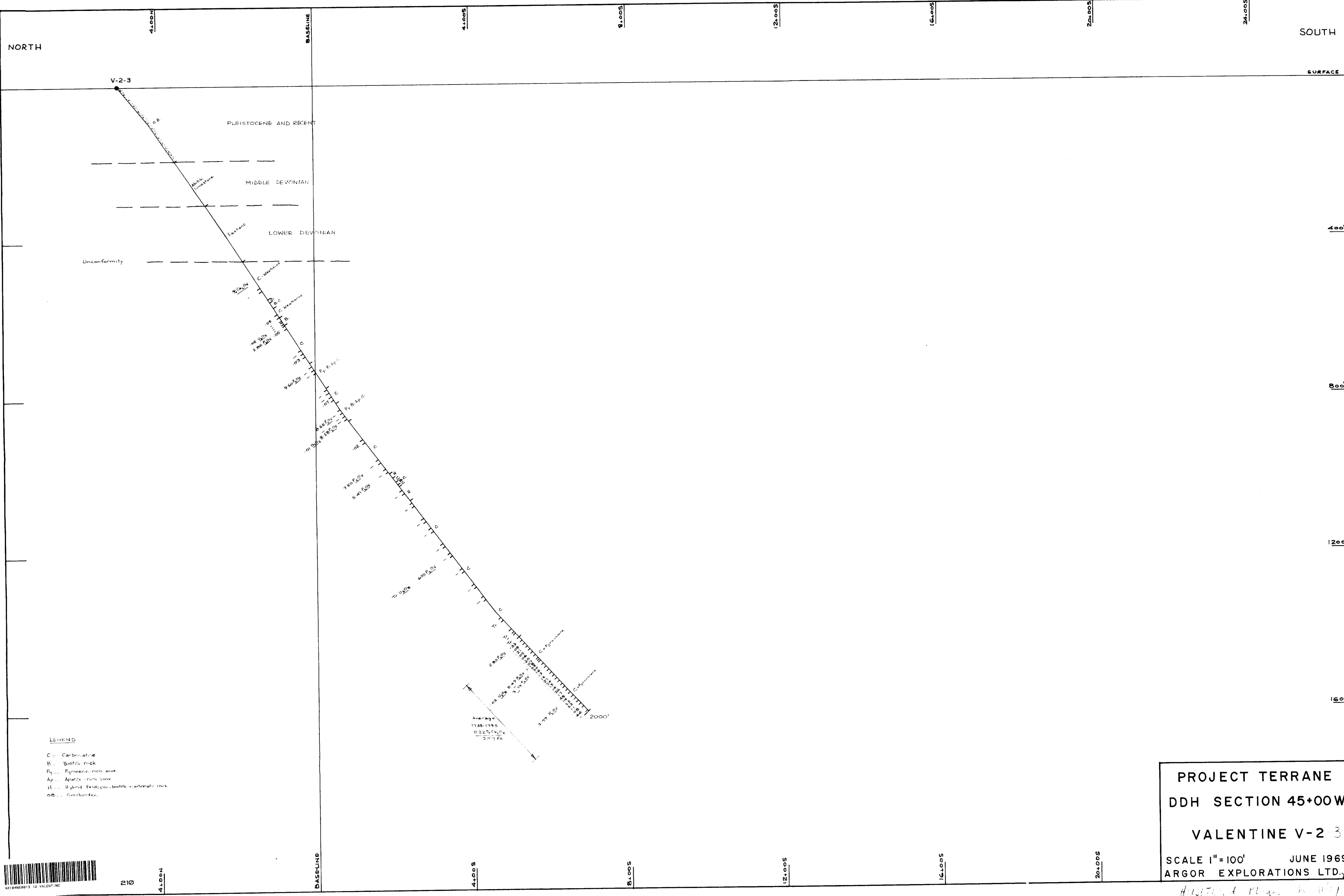
- Py --- Pyroxenite
- U --- Hybrid all silicic igneous or fossilized country rock
- C --- Chertlike
- o B --- Ore bodies



4214498913 12 VALENTINE 200

PROJECT TERRANE  
 DDH SECTION 8+00W  
 VALENTINE V-2 2  
 SCALE 1"=100' APRIL 1969  
 ARGOR EXPLORATIONS LTD.

*Handwritten signature and date: H.W. [unclear] 11/69*

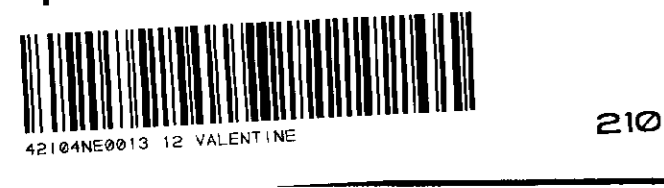


**LEGEND**

- C... Carbonate
- B... Biotite rock
- P... Pyroxene-rich zone
- Ap... Apatite-rich zone
- H... Hybrid feldspar-biotite-carbonate rock
- OB... Overburden

Average  
1738-1795  
0.22% (14.0%)  
2.57 ft

**PROJECT TERRANE**  
**DDH SECTION 45+00W**  
**VALENTINE V-2-3**  
 SCALE 1"=100'      JUNE 1969  
 ARGOR EXPLORATIONS LTD.



*Handwritten notes:* H-10170, 10/19/75

