

DRILL HOLE LOGS 12B(211)  
PORT AU PORT PENINSULA, NEWFOUNDLAND  
by Craig Saunders & Jenna Hardy  
May 1975  
NTS 12B10W/12B1E 675078

**Brinex**  
**BRITISH NEWFOUNDLAND**  
**EXPLORATION LIMITED**

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December 8, 1977

Mr. J.M. Fleming  
 Assistant Deputy Minister of Mines  
 Government of Newfoundland and Labrador  
 95 Bonaventure Ave.  
 St. John's, Nfld.  
 A1C 5T7

*Acknowledged  
 J 20/12/77*

Dear John,

I refer back to your letter of May 31st, 1977 concerning report submissions. Having now received the Cominco report, I herewith enclose it, together with several other reports which I don't think you have copies of. They are:

- P 76012 Initial Results of IP Surveying at Indian Pond -
- G 77007 Petrographic Study of the Indian Pond Volcanics -
- P 76013 HEM and Magnetometer Survey, Indian Pond Project -
- G 75078 Drill Hole Logs, Port au Port Peninsula -
- G 76031 Cominco-Ramah Reconnaissance.

You will note in the Cominco report a Statement of Expenditures of \$40,598. I don't think this had been reported previously.

Yours sincerely,



G. Harper  
 Regional Geologist  
 Newfoundland and Labrador



12 B (211)

DRILL HOLE LOGSPORT AU PORT PENINSULA, NEWFOUNDLAND

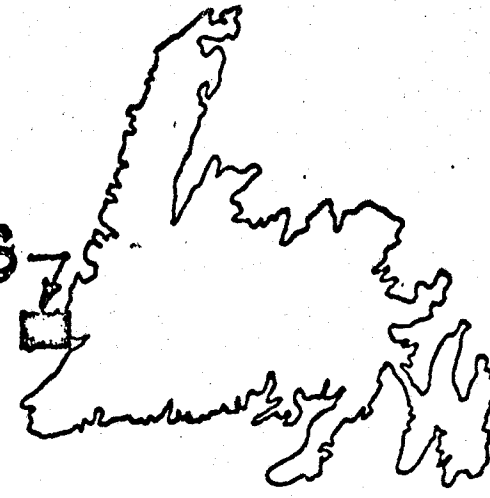
by Craig Saunders &amp; Jenna Hardy

Thirty-six diamond drill holes were completed in 1973 and 1974 on the Port au Port Peninsula, Southwest Newfoundland, during a programme by Lehigh Cement and Brinex, to test the suitability of the sedimentary sequence as raw material for a cement plant. The cores were logged in detail in 1975 during the Brinex/Freeport programme for lead and zinc in the carbonate rocks. The cores are now stored in the Brinex base camp at Springdale, Newfoundland.

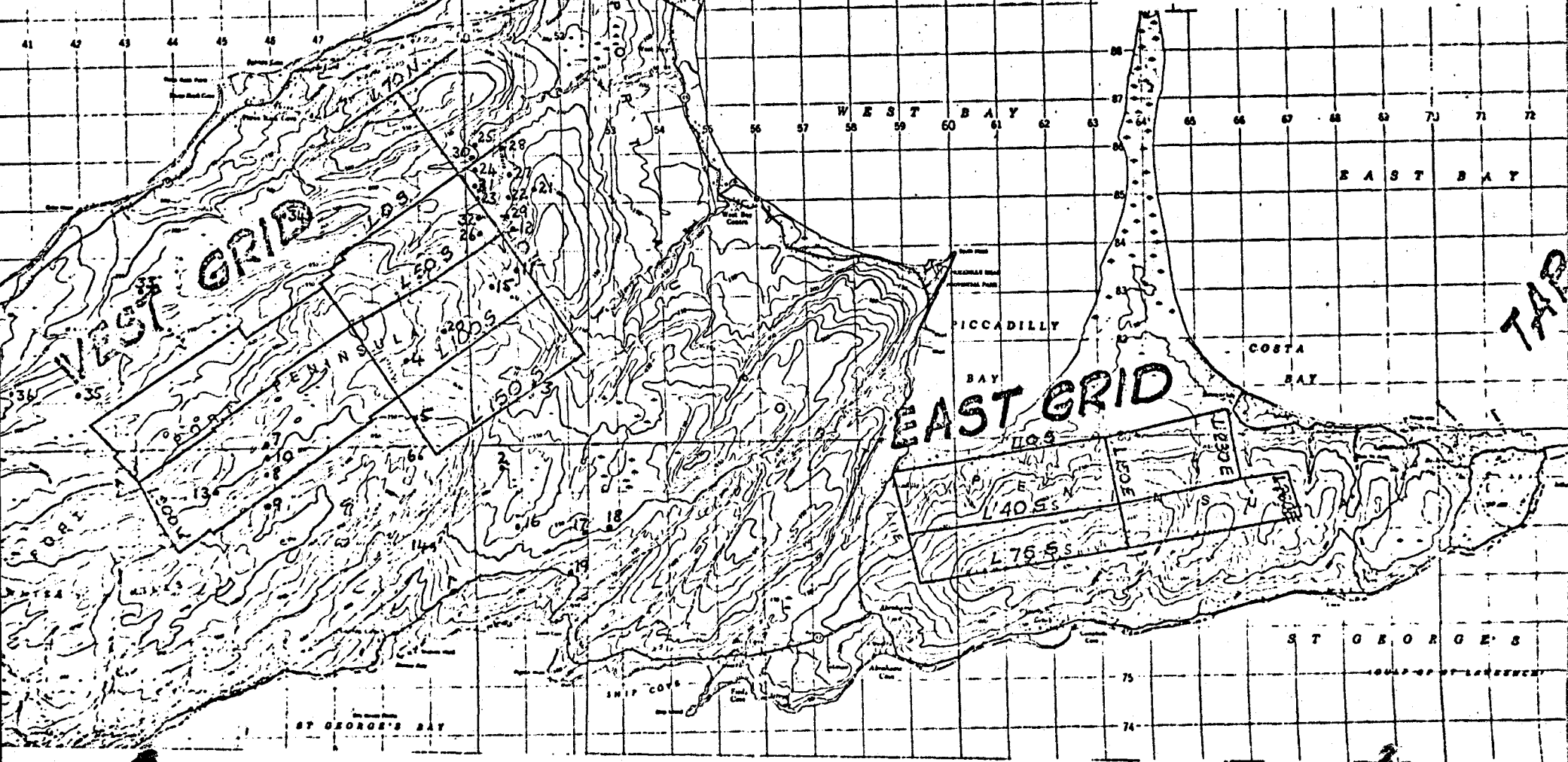
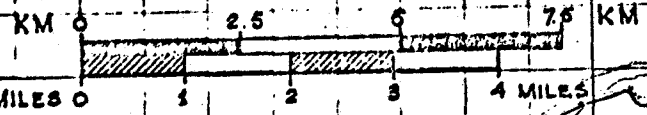
The stratigraphic terminology is defined in the Brinex/Freeport report on exploration in 1975 and basically follows that introduced by David Besaw in his reports. Accurate locations of the drill holes can be found in the Lehigh report, while a general location map is included with the logs.

# 1975 EXPLORATION AREAS S. IV NEWFOUNDLAND

# AREA OF 1975 ACTIVITIES



SCALE



TAP

D. D. HOLE No. 1-33

LOCATION UIM Grid 5577300 AN  
349900 ME  
 HOLE STARTED \_\_\_\_\_  
 HOLE COMPLETED \_\_\_\_\_  
 CORE RECOVERY 100 %  
 DRILLED BY \_\_\_\_\_

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_  
 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HCP. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	5.0	Overturden <u>PIGEM HEAD</u>				
5.0	10.2"	Grey limy mudstone local pellets, sparse fine fossils, some irregular calcite patches (less than 1/5") and veins (less than 1/10") 9.0-10.0- limonite-stained fractures, irregular pellet areas.				
10.2"	19.0	grey limy mudstone, local calcite <i>sp</i> (less than 1/10"-1"); limonite in fractures and along bedding planes throughout; 14.5'-15.0' elongate pelleted cherty biotitic debris with layers of non-fossiliferous chert up to 1/2" thick; 15'10": elongate clasts in vaguely bioturbated zone from 15.0-19.0,				
19.0	27.8"	grey limy mudstone, locally laminated. Calcite patches throughout 26'2" - 1"x 1/2" hematite on bedding planes throughout; 25.0-25.2": pelleted, finely fossil. chert.				
27.8"	34.2"	Grey limy mudstone, vaguely to distinctly bioturbated; 28.9"-brownish white (friable) sandy and limy mudstone; 32.2": chert with pellets; hematite stain throughout.				
34.2"	38.4"	Grey-tan limy mudstone; hematite coated stylolites and splotches; limonitic green shaly partings; sandy; fine calcite filled fractures.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
38.4"	42.0	Grey limy mudstone, bioturbated, oval cherts and pellets; hematite coating some clasts and stylolites; fine fossil fragments; number of pellets, fossils and clasts decreasing downwards; shaly partings and patches; calcite patches increases downwards.				
42.0	50.0	Grey-grey tan limy mudstone; hematite and calcite filled cavities and fine fractures; vague bioturbation with limy infill increasing in definition downward; chert at 42.2", 45.4", 44.8", 45.1"; 45.3"-46.6" - irregular? yellowish veins (soft) and calcite; 47.2": yellow brown sandy and limy mudstone.				
50.0	57.8"	Grey limy mudstone, distinctly bioturbated locally pelleted - packstone or more often wackestone; limestone and hematite infill, fine fossil debris (bivalves, crinoids); sparse angular limestone coated clasts burrows infilled with coarser, lighter (yellow to white) limy mudstone; 56.0-57.6": laminated, lighter and darker layers on 1" scale.				
57.8"	65.0	Grey limy mudstone, vaguely to distinctly bioturbated; fossil fragments recrystallised to white sparry calcite (crinoids?); limonite infill; irregular calcite fractures and vugs.				
65.0	74.6"	Grey-tan limy mudstone; sandy textured; hematite veinlets and stylolites with bleached white area surrounding; limonite stained, green shaly beds: 66.10", 69.5", 71.0				
74.6	81.6"	Pink-grey limy mudstone; hematite and limonite on bedding planes and disseminations throughout, sometimes coating oval pellets in normal limy matrix i.e. local wackestone areas; sparse calcite veinlets.				
81.6"	86.1"	Pink-grey limy bioturbated mudstone with hematite and limonite disseminations throughout; burrow infill coarse whitish grey mudstone; hematite defines some pellets (less than 10%) and sparse splotches in burrows; limonite increases downwards.				
86.1"	90.10"	Pink-grey limy mudstone; sandy textures; hematite veinlets (sometimes cross cutting) and stylolites with bleached white area around; some 1/5" veins with calcite-limonite-hematite outward; green hematite and limonite stained shaly patches.				



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
136.8"	140.9"	Grey limy mudstone, sandy textures; fine laminations less than 1/10" defined by hematite and limonite staining.				
140.9"	146.0	Grey limy mudstone, bioturbated with local sparry calcite infill; rest coarser grained, more sandy with more hematite than matrix; some hematite stained shale partings decreasing downward, sparse local pellets; hematite may coat outside edges of burrows and pellets (pseudo-oolites).				
146.0	149.7"	Grey to tan limy mudstone, sandy textures; alternating grey and tan bands; 147.9"-149.0 - alternating pink and grey bands				
149.7"	152.0	Grey limy bioturbated mudstone; infill sandy limonitic; often grainstone.				
152.0	163.3"	Grey limy mudstone; often laminated with hematite or limonite stained beds alternating with grey; some shaly partings less than 1/10" wide; limonitic to 155.0; rest hematite; sandy textured; fine hematitic fractures may cross cut laminae; beyond 161.0 - laminae sparse.				
163.3"	177.8"	Grey limy mudstone; fine calcite fractures (up to 1" across; again with calcite-limonite-hematite outward) cut sub-parallel and sub-perpendicular to length of core; limy shale partings throughout; locally bioturbated with pellet packstone and sparse, recrystallised fossil debris; 174.0-175.0: grey to grey-tan mudstone with diffuse laminae and almost sandy texture.				
177.8"	181.0	Pink to grey to grey tan limy mudstone; finely laminated; pink-grey colour decreasing downward; 177.9": cavity infill, wackestone with hematite coated clasts.				
181.0	185.2"	Grey limy mudstone with irregular or limonitic shale partings; infill wackestone with interclasts, pebbles and pellets, each often coated by sparry calcite; infill coarser grained, more sandy and browner than matrix.				
185.2"	192.10"	Grey to tan to grey-pink finely laminated limy mudstone; below 185.0 - number of laminae decreases as does amount of grey-pink colour.				



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
192.10"	202.3"	Dark grey limy mudstone; many limonitic (lesser hematitic stained) shaly partings; sparry calcite filled vugs less than 1" across (201.7": 1" x 1"); 201.3"-202.3": bioturbated with infill coarser and darker than matrix.				
202.3	203.3"	Grey to pink limy mudstone; hematite stained bands alternating with normal grey mudstone, sandy textures; hematite coated partings and stylolites: 202.3" to 203.5" - good burrows with coarse, lighter infill; hematite coating outside of burrows.				
203.3"	204.5"	Dark grey to pink limy mudstone; intensely bioturbated; infill coarse grained grey-pink.				
204.5	208.4"	Grey to pink limy mudstone; sandy textured; hematite stained shaly partings; intensely bioturbated with lighter infill; partly recrystallised burrows; hematite coating outside of burrows.				
208.4	210.3"	Grey limy mudstone; shaly hematite stained partings, some with calcite filled fractures and length (gas escape); wavy bioturbation; infill sandy textures; coarser and darker in colour.				
210.3	211.10"	Pink to grey limy mudstone; sandy textures; diffusely laminated with hematite stained layers ( $\frac{1}{4}$ to $\frac{1}{10}$ ").				
211.10"	219.0	Dark grey limy mudstone; intensely bioturbated; coarser dark grey-brown infill; recrystallised matrix; hematite coated shaly partings especially near 215.6"-217.2".				
219.0	220.6"	(SHARP CONTACT); light grey-tan sandstone; limonite and hematite stained patches; fine calcite fractures (less than $\frac{1}{10}$ ") throughout.				
220.6"	228.1"	Dark grey limy mudstone; bioturbated with infill coarser-grained, darker, sometimes hematite stained; quartz filled vugs: 221.4", 226.4", 227.1", 227.3". Calcite filled vugs and veins and shaly partings throughout.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
228.1	232.4"	Light grey limy mudstone, sandy, limonitic and hematitic bands; 228.1" to 228.7"; darker grey bioturbated decreasing in amount of bioturbation downwards and trend to lighter colour; fine pellets and fossil debris throughout to 231.10"				
232.4"	235.4"	Grey limy mudstone; bioturbated; hematite stained and limonite coated shaly partings.				
235.4"	236.1"	Grey limy mudstone; sandy textures; calcite veinlets (1/16"-1") extend from 235.4" to 235.7"; slightly to distinctly bioturbated; recrystallised fossil debris; splotchy hematite and limonite staining.				
236.1	246.11"	From previous unit gradational transition with colour darkening and fining of grain size. Medium-dark grey limy mudstone; variable bioturbation; shaly partings and stylolites distributed throughout; local wackestone (clasts, pellets, oolites, bivalve fragments); 240.4"-242.10" - calcite veinlet (1/16") surrounded by hematite; 245.9" - pyrite. 247.10" - dolomitic mudstone. quartz filled vug. 244.2" (1/2 x 1/2").				
246.11"	257.0	Pink to grey mottled limy mudstone; 246.11"-248.4": green limonite stained shaly partings, variable bioturbation; wackestone to packestone (oolites and pellets) 249.2" to end; calcite-filled fracture (1/2") 247.0-248.1".				

PROJECT

LEHIGH CEMENT

D. D. HOLE No. DDH 2 -73.

LOCATION UTM Grid 5379600 MN

350600 ME

HOLE STARTED \_\_\_\_\_

HOLE COMPLETED \_\_\_\_\_

CORE RECOVERY 100 %

DRILLED BY \_\_\_\_\_

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

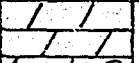
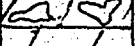
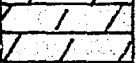

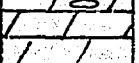
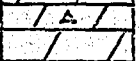
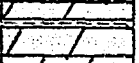
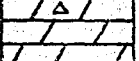
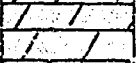
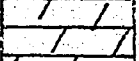
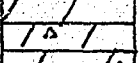


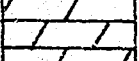
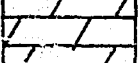
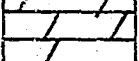

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	12.0	Overburden				
12.0		<p><u>Pine Tree</u>: pink-grey mottled dolomitic sucrosic mudstone; ht-stained, vuggy, porosity partly occluded by sparry dlmt., vugs not inter-connected rare green clay patches throughout up to 3" across. 12'5": bleached clay layer <math>\frac{1}{2}</math>" thick.</p> <p>Sparry calcite vug infill</p> <p>Sparry calcite vug infill; coarse except for bottom <math>\frac{1}{2}</math>" of finer greenish-brown.</p> <p>Green shale, ht stained.</p>				

PROPERTY Port au Port










HOLE NO. DDH 2-73

SHEET NO. 2

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		                				
78.0	80.0	<p>Coarse sparry calcite vug infill with ht stained lst. and dlt. clasts. Collapse breccia? angular clasts, interclasts, rotated</p> <p>Geopetals: grey fine grained limy mud below white finer grained limy mud. Max size - <math>\frac{3}{4}</math>" across, not less than <math>\frac{1}{2}</math>".</p> <p>Grey chert.</p> <p>Green to red, ht-stained shale with pocket of white limy clay? White chert, pelleted.</p> <p>Interbedded red sucrosic dlt. with greenish to reddish clay pockets giving almost a pox-like appearance with typical sucrosic mudstone.</p> <p><i>dlt. filled cavity</i>                      Grey chert. dlt. filled cav., grey, finer grained layered (several generations).</p> <p>Grey Chert. (several generations).</p> <p>Green to grey, somewhat ht-stained clay.</p> <p>Green, ht-stained clay.</p> <p>Grey chert.</p>				

NOV 2 1975  
 HOLE NO. DEH 2-73  
 SHEET NO. 3

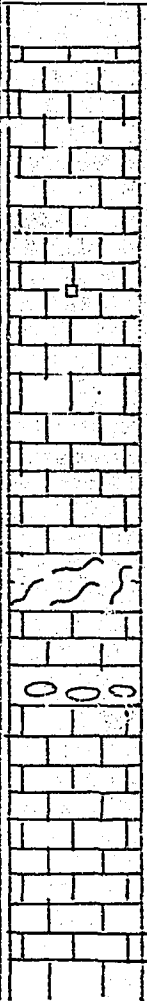
PROPERTY Port au Port

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
119.6"	142.5"	   <p>dolomitic mudst. Bx, limonite and Ht. stained fragments and matrix; sparry calcite cement; fragments somewhat rounded; homogen.; circles of concentric limonite stain.                      Grey-pink, coarse grained dolomitic mudst., highly mottled, likely bioturbated with coarse dolomite infilling burrows, also some white clay infill</p> <p>Grey-tan limy bioturbated wackestone to mudst. (pellets, interclasts, fossil frag.)                      limonite-stained stylolites.                      Sparry calcite filled vug.</p> <p>PIGEON HEAD: mottled, med.-grey-tan limy mudst. to packestone                      bioturbated with infill, sucrosic grey-brown plus matrix, lithographic bed with pellets, interclasts and fossil fragments; infill patchy, dolomitised with rare dolomite bands; sporadic stylolites. 120.0-121.0 - green limy mudstone bands within grey limestone.</p> <p>Homog. grey-tan sucrosic dolomitic mudstone.</p>				
142.5"	161.5"	   <p>As above but with infill more often pale green.                      142.5"-149.9": series of large (interconnected?), sparry calcite filled vugs with pyrite. Lesser galena floating in the sparry calcite forming a layer with the outside of the vug up to 1/2" across; locally green mudstone patches and vugs may be centrally filled by green limy mudstone; several calcite generations.</p>				
161.5"	177.9"	   <p>158.3-159.3": sparry calcite filled vug with pyrite and galena in diffuse elongate clumps.</p> <p>As above but with infill limonite stained; sporadic beds of limestone conglomerate with clasts elongated subparallel to bedding and matrix packestone to wackestone with calcite generally in areas where larger numbers of shaly partings and bioturbation minimal. Conglomerate contains pellets, clasts and interclasts and generally is med. grey in colour.</p>				

PROPERTY PORT AU PORT

HOLE NO. 2-73

SHEET NO. -4-

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
177.9"	265.8"	 <p>Med. to dk. grey mottled limy mudstone to packestone; bioturbated with infill darker, sucrosic, some pellets visible and matrix lithographic mudstone to packestone (pellets, interclasts, fossil fragments) fine grey-brown shaly partings sporadic throughout.</p> <p>Green limy mudstone around outside of calcite vug with pyrite.</p> <p>213.7"-214.7": vein with sparry calcite and green limy mudstone crosscutting 216.7"-217.8": fine mudstone partings at high angle; calcite in center.</p> <p>Limonite stained burrow infill</p> <p>Storm debris. Banded limy mudstone clasts; angular, elongate up to 1" long in parallel matrix with fossil fragments; fragments grey-tan in colour unlike surrounding dk-med. grey. Differs from typical conglomerate deposits in colour and banded nature of fragments.</p>				











FOOTAGE		DESCRIPTION	SAMPLING						
FROM	TO		STL. NO.	FROM	TO				
204.5"	352.0	<p><u>PINE TREE</u></p> <p>Light grey, dolomitic mudstone, massive, vuggy coarse textured; almost totally recrystallised; local porosity partly to completely occluded by dolomite crystals or sparry calcite? or white, powdery, soft, non-effervescent material; white chert at 139'8"-139'9" and 139'11"; vugs often not interconnected; bioturbation to slightly mottled texture. Vugs may be original burrows and and <del>are</del> of greatest vugs are not mottled; 300'9"-501'10": finer grained almost porcellaneous. 286'8"-286'10": coarse calcite. 229'7"-250'2": limy and powdery black giving slight reaction to Zn test - upper contact sharp over 1-2".</p>							

D. D. HOLE No. D.D.H. 1

LOCATION Upper end Harry, S Brook

HOLE STARTED \_\_\_\_\_

HOLE COMPLETED \_\_\_\_\_

CORE RECOVERY Full %

DRILLED BY \_\_\_\_\_

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_


AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

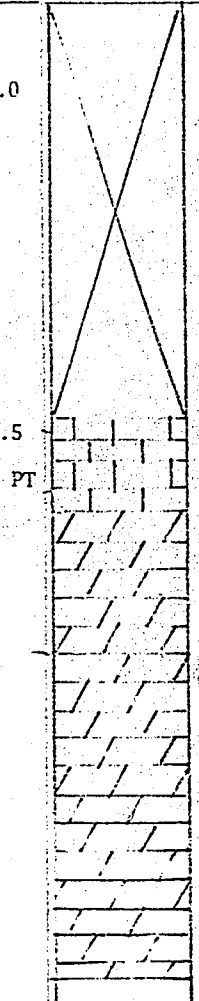
HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	2.0	OVERBURDEN <u>PERT AC PORT UNIT</u>				
2.0	4.5	Dolostone, upper 6" medium grey, medium grained, sacrosic vuggy, calcite lined, remainder silty, buff, with 6" interbed of claystone.				
4.5	20.5	Interbedded limestone & dolostone; medium grey aphanitic mottled (light tan flakes) regular & irregular bedding marked by shale stringers (1/4 - 1/2") apart, stylolites-dolostone; upper fine grained, light grey stylolites, stromatolitic, lower coarser grained, light grey, greenish tinge calcite veins - stained darker intercleats				
20.5	24.0	Limestone, medium-dark grey, fine grained, burrowed - replaced by coarse dark material.				
24.0	31.0	Dolostone, calcic, med. grey, mottled brown, burrowed pellets, stylolites grading into buff dolos., very fine grained calcite veins, mottling less easily detected.				
31.0	34.5	Limestone, med. gray, fine grained, no bedding, apparent mottled in last 2' with coarser material.  Dolostone, buff-medium grey, very fine grained stylolites mottled stromatolitic horizon, burrowed.				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
40.0	42.0	Limestone, med. grey, very fine grained, grading into thin bedding, shale			
		Dolostone, medium to light grey, very fine grained, shaly chertified layer (4"), mic. stromatol., burrowed upper sequence, last 6" irregular bedding.			
42.0	61.0	Limestone, med. grey, aphan., irregular bedding, styl. interbed of dolostone, buff with blk. mottling.			
61.0	65.0	Dolostone, buff-tan, slight green staining, dark mottling, pyrite, 6" vuggy dolostone, partially calcite filled, fine grained.			
65.0	76.0	Limestone, some beds dolomite, light grey (1' med. grey) variable bedded, bedding marked by glauconitic shale, aphanitic, very fine grained stylolites.			
76.0	87.0	Interbedded dolostone and limestone, dolostone lt.-med. grey, shaley thin interbedded vertical stylolites, medium grained limestone, dolomitic, med. grey, fine grained, same appearance as dolostone.			
87.0	100.0	<u>WHITE HILLS UNIT</u> Limestone, med. grey, weathers white aphanitic stylolites, abundant 6" bed of glauconitic claystone.			
					
		CORE MISSING.			

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
100.0	140.0	CORE MISSING				
		Limestone, medium grained, aphanitic, very fine grained int. glauc. shale towards bottom, stylolites abundant.				
140.0	160.0	- glauconitic				
160.0	200.0	CORE MISSING				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
160.0	200.0	CORE MISSING			
200.0	206.5	Limestone, light tan-grey. <u>PINETREE UNIT</u>			
206.5		Dolostone, light grey, medium grained, coarser towards bottom, sucrosic, vuggy, fenestral porosity, some fossils recog. pelecypods, gastropods, calcite infilling, porosity and fractures burrowed.			







D. D. HOLE No. DDH 8-73

LOCATION White Hills UTM Grid

5380500 NN, 349100 NE

HOLE STARTED \_\_\_\_\_

HOLE COMPLETED 0-30' at Allentown, Logged

CORE RECOVERY from drill log 100%

DRILLED BY Inspiration Drilling.

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

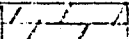
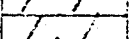
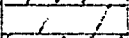
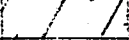
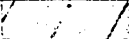
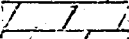
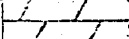
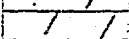
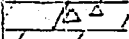
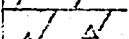
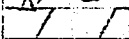

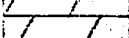
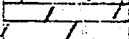
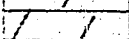
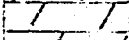

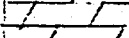
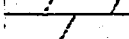
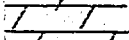
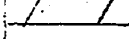
AZIMUTH \_\_\_\_\_

DIP. \_\_\_\_\_

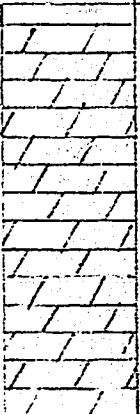
LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0'	42'9"	<p>WHITE HILLS: white lithographic to porcellaneous limy mudstone &amp; sandstone; mudstone (green) stylolites and bands sporadic throughout, sparse stylolites; locally finely laminated (algal) <sup>organic</sup></p> <p>Glauconitic mudstone and stylolites.</p> <p>Glauconitic mudstone &amp; stylolites with pyrite, also coarse grained sparry calcite vugs.</p> <p>As above but with patchy limestone stain, grey-tan colour.</p> <p>PINE TREE: light grey, mottled dolomitic mudstone; vuggy with porosity partly occluded by dolomite; sparry calcite; rare stylolites</p> <p>As above but med. grey with mottling more pronounced &amp; increased vugs which increase in number where mottling is greatest (preferential dolomitisation?), local texture like a pseudobreccia; vugs may be hematite stained - grey-pink.</p> <p>As above but less vuggy and generally lacking; hematite stain.</p>				
42'9"	52'					
52'	78'					
78'	120'					

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
						
						
						
						
120'	138'5"	 medium grey mottled dolomitic mudstone; vuggy porosity partly occluded by sparry calcite and dolomite crystals				
138'5"	159'5"	 pink bleached calcite in vug				
		 White chert.				
		 medium grey mottled dolomitic mudstone & scant vuggy porosity partly occluded by dolomite crystals, less often calcite or quartz; sucrosic, decreasing in grain size downward.				
		 White cherty cavity infill with quartz crystals at top.				
		 Very coarse calcite crystals up to 1" across in vug.				
		 Calcite, bitumen stained.				
159'5"	181'4"	 As above but with increased mottling and vugginess.				
						
						
						
181'4"	200'	 As above but with only scant vuggy porosity				
		 White quartz (sparry)				
		 White chert vug infill				
						
						
	200'					



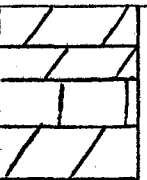

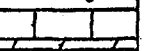
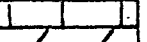



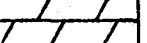
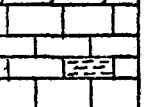
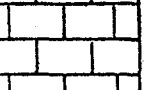
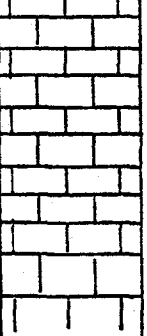
FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
(25.5)						
	68.0					
		BOTTOM				



PROPERTY PORT AU PORT

HOLE NO. 7-73

SHEET NO. -2-

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
91	113.2"	 <p>Med. grey to grey white (more locally grey tan to grey pink) dolomitic mudst., sucrosic, sporadic lim. stained stylolites, mottled. Limy packstone, med. grey.</p>				
113.2"	131.3"	 <p>Med. grey limy to dolom. mudst., lim. stained green arg. partings and stylolites. Dolomite, massive, mottled, sucrosic.</p>				
131.3"	139.4"	 <p>Limestone: mudst., local packstones &amp; wackestones, bioturbated to locally finely laminated. (algal?) oolite marker: white to pink, series of beds within packstone.</p>				
139.4"	142.0"	 <p>Med. to dk. grey, limy to dolom. mudst., sporadic greenshale partings sucrosic with fine calcite veinlets.</p>				
142.0"	152.6"	 <p>Galena - green mudst. - calcite in vein +ve Zn test. Lt. grey dolom. mudst., sucrosic, sparse green shale partings.</p>				
152.6"	160.0"	 <p>Med. grey dolom. mudst., sucrosic, green shaly partings. Py - galena - calcite - sph. (+ve Zn test) in vein.</p>				
160.0"	167.2"	 <p>Lt. grey laminated dolomitic mudst.; sporadic green argillite patches. Med-grey limy mudst. to wackestone, lithographic calcite veins up to 1/2" across Green argillite partings.</p>				
167.2"	179.4"	 <p>As above with numerous limonite stained argillite partings and stylolites giving grey-tan colour, very mottled, likely bioturbated. 163.5" - glauconitic argillite.</p>				
179.4"	192.2"	 <p>Med. grey, massive limy mudst., sucrosic, only very fine green argillite partings.</p>				
192.2"	201.0"	 <p>Med. grey limy mudst., to granst. with abundant Ht-stained green argillite partings lending local grey-pink colour.</p>				
201.0"	320.0"	 <p>WHITE HILLS: lt. grey to white limy mudst. to packest., fine Ht. or limonite stained green shaly partings throughout and fine sparry calcite blebs numerous throughout.; local areas with fine sparry calcite bands like algal laminae; sporadic local finely laminated mudstone - algal?</p>				







FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
	64.0	Limestone, cont.				
		Limestone, dolomitic, light grey, very fine grained, red stained burrowed pellets (transition into Pine Tree).				
		PT				
		<u>PINETREE UNIT</u> Dolostone, medium grained, light grey, calcite filled vugs, red stained.				





PROJECT

LEHIGH CEMENT

D. D. HOLE No. 10-73

LOCATION White Hills

UTM Grid 5380000MN 345600ME

HOLE STARTED August, 1973

HOLE COMPLETED August, 1973

CORE RECOVERY 100 %

DRILLED BY \_\_\_\_\_

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	2	OVERBURDEN				
2	7	Port au Port: grey - pink dol. mudstone, mottled with hem. & limestone stain, calcite vug infill.				
7	21	Interbedded med. grey, limy to dolomitic mudstone. limestone: mudstone to wackestone, lithographic to sucrosic, bioturbated with infill coarser & darker colour. dolomite: grey to grey-tan, hematite and limestone stained mottled, small vuggy porosity, occluded by dol. crystals. -fine grey argillite partings and stylolites & calcite vugs throughout.				
21	26	Med. grey-tan dol. mustone, laminated by limonite stained bands.				
26	39	Medium grey limy mudstone to packstone, green arg. partings, stylolites, veins with tr. of pyrite.				
39	46.3"	Med. grey(tan) limy mudstone to packstone, many limon. stained green shaly partings & stylolites, wavy bedding; also sporadic Ht. stains & local areas with sparry calcite resembling algal laminites.				
46.3"	61.8"	Med. grey-grey pink limy mudstone to packstone with abundant green argillite partings. Some Ht. stained and stylolites, veinlets.				
61.8"	66.8"	As above, but argillite partings Ht stained, closer spaced and forming wavy banding, leading to grey-pink color.				
66.8"	71.7"	Med. grey limy mudstone to wackestone; last 1" interval abundant, fine wavy green argillite partings.				
71.7"	181	White hills: white-1. grey limy mudstone to packstone; fine green (ht stained) argillite partings; locally layered sparry calcite to algal laminates, fine sparry calcite filled vugs.				





D. D. HOLE No. 12-73

LOCATION Victor Brook

NTN Grid 5384500 MN, 350100 ME

HOLE STARTED September 5, 1973

HOLE COMPLETED September 5, 1973

0-25' badly broken up

CORE RECOVERY 20-40 Allentown 100 %

DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0'	10'	OVERBURDEN				
10'	20'	HUMBER ARM; grey - brown to grey argillite, badly broken up.				
20'	40'					
40'	42.5'	<i>sampled</i> Dk. grey argillite, badly broken up.				
42'5"	52'6"	Dk. grey argillite, less broken up, many white to grey somewhat rounded lens clasts. rubbly fracture surface, complete size gradation from matrix up to 1 1/2" Ex in clast <u>Table Head</u> dk grey. lmy mudstone: 55-60': fine argillite partings & infill Ex-like texture unusual burrow infill?) prod. mottling.				

PROJECT \_\_\_\_\_

D. D. HOLE No. 13-73

LOCATION White Hills - UTM Grid  
5379200 MN, 344600 ME  
 HOLE STARTED August 16, 1973.  
 HOLE COMPLETED August 21, 1973.  
 CORE RECOVERY 100 %  
 DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_  
 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL NO.	FROM	TO	FEET
0'	7'	OVERBURDEN				
7'	23'	<u>PORT AU PORT</u> cycle: gry tan to gry pink dolomitic (rarely limy) mudst; finely sucrosic; locally laminated & mottled; goes to lt. gry limy mudst to packstone; bioturbated, sporadic stylolites & fine arg. prtngs. some lim. stained.				
23'	37'10"	Cycle: as above but freq. finely laminated alternating tan & pink stromatolitic (?) with indications of gas escape channels (?) at angle to core length.				
37'10"	63'	Cycle: grey tan dolomitic mudst. fnly. sucrosic; goes to lt. to med. gry. limy mudst. to grainstone; var. bioturb. to lamm. Infill coarser & darker, - grainstones - v. well-sorted, packstones- poorly so.				
63'	77'	lt. gray to gray pink dolomitic mudst. finely to coarsely sucrosic; laminated to bioturbated w. fossil frag. & sparry at infill.				



D. D. HOLE No. 15-73

LOCATION UM 5383300 NN  
550700 NE

HOLE STARTED \_\_\_\_\_

HOLE COMPLETED \_\_\_\_\_

CORE RECOVERY 100 %

DRILLED BY \_\_\_\_\_

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	4.0	OVERBURDEN				
4.0	175.5	<p><u>TABLE HEAD</u> Dark to med. grey limy wackstone and pockstone to mudstone; first two especially in lighter coloured areas (pellets, brachiopods, gastropods?, crinoids, <del>radiolites</del> pellet infilled shells, clasts, interclasts) bioturbated, infill again coarse grained and darker in colour; fine grained, brown stylolites and shaly partings interspersed throughout, irregularly producing variable mottling; 60-140' - rare. 20-60' - many, above 10.5' many limonite stained partings give yellow brown colour, white to pale green calcareous clay. 114'5"-114'9"; 132'2"-132'10"; 133'6"-133'11"; 155'10"-136'4"; calcite filled vugs less than 1/2" across, sporadic throughout, pyrite plus calcium plus shale plus calcite: 95'2"-95'8", 95'5"; 55'6"-56'1", 59'6"- 59'9" in veins up to 1/2" across.</p>				
175.5	197.0	<p><u>PORT AU PORT</u> Light grey dolomitic mudstone, homogeneous massive to mottles bioturbated to laminates with green shale bands throughout, fine green shaly partings, white to grey pelleted chert, 190'2"-190'4"; 190'7"-190'9", 189'6"-190"; 185'3"-185'9"; 179'8"-180'.</p>				

FOOTAGE		DESCRIPTION	SAMPLING							
FROM	TO		SPL. NO.	FROM	TO	FEET				
197.0	220.0	Grey to grey-brown dolomitic mudstone, bioturbated with different dolomite generations infilling burrows; stylolites often highly irregular, sparse throughout as they are sparry calcite up to 3" across, pyrite at 219'5", 219'7".								
220.0	350.0	<p>Light to medium grey, limy to dolomitic mudstone, dolomite: massive to finely laminated to bioturbated; generally almost sandy textures, darkens in colour upwards to 240', laminated: 315'2"-314'; 312'10"-314'6", 215'-252'; 342'2"-543'8", 257'2"-258'. Some with green shale bands, sparry calcite bands, then limestone beds, layers of biotite</p> <p>Bottled dolomite: 282'5"-315'4", 244'9"-246'5".</p> <p>Limestone: light brownish grey to grey mudstone to wackestone-pocketstone (pellets oolites, <i>b. valves</i>) locally almost lithographic, bioturbated with infill again, fine grey-brown to green shaly partings especially near 266'4"-267'6", 276'8", 269'6"-270', 305'2"-305'5", 306'5"-307'4", 315'5"-315'7", 317'2"-317'8", 326'6". Bitumen in stylolites: 293'5", 280'9" concentrically banded circular structure - stromatolites? Calcite, -brown coarse grained: 296'4", 296', pyrite <i>as stylolites</i>: 258'-251'2"-251'4", quartz in ovaloids in green shaly bands - 256'9"-257'4" similar structures but here with porosity only partly occluded. White chert bands 286'4", 254'1", 345'1"-346'3". Bluish quartz infill in 347'-347'5". Brown chert nodules at 224'3"-5", 263'11". Fossiliferous bluish chert at 320'5"-320'8".</p> <p>Limestone-dolostone contact: sharp texturally but generally gradational through limy dist phase.</p>								

D. D. HOLE No. P.D.H. 16

LOCATION South of Brinex Telegraph  
Tracts Boundary  
 HOLE STARTED Sept. 15, 1975  
 HOLE COMPLETED Sept. 17, 1975  
 CORE RECOVERY Full %  
 DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

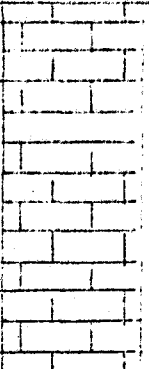
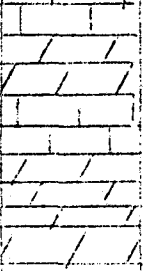
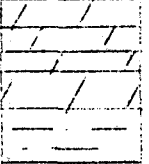
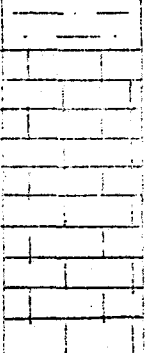
COLLAR LAT. \_\_\_\_\_  
 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

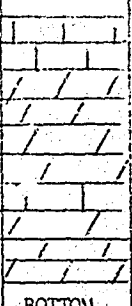
FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	3.0	OVERBURDEN				
3.0	27.0	<u>PIGEON HEAD</u> Limestone, dark grey, aphanitic, burrowed, filled with silt/clay or coarser material, Fe staining along veinlets which are usually darker than matrix.				
27.0	34.0	Limestone as above but infilling of burrows (?) is brown silt and greenish-grey calcite veins (2" thick).				
34.0	62.0	Limestone as described in first occurrence.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
54.0	62.0	See preceding page.				
62.0	65.0	Claystone, red-tan, calcite veins and interclasts.				
65.0	78.0	Limestone, dark grey, very fine grained, pellets and interclasts floating (biopel)micrite) in fine matrix irregular veinlets (Burrowed ?).				
78.0	92.0	Limestone, dark grey-brown, aphanitic, silty, mottled irregular shale partings (intersect).				
92.0	122.0	Limestone, medium gray with mottled brown dirty veinlets (1/8 to 1/2" thick), very fine grained, silty, red staining.				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
92.0	122.0				
122.0	125.0	Limestone; Medium-dark grey, coarse grained (grainstone) abundant pebbles, highly burrowed.			
125.0	137.0	Limestone, dark grey, aphanitic-silty, mottled, darker gray on weathered surface (Burrows) veinlets (1/2 to 1" thick)			
137.0	142.0	Limestone, dark grey, aphanitic, stylolites to shale stringers, irregular (1/2" to 2' apart).			
142.0	155.0	Limestone, silty, very fine grained, dark grey, brown veinlets, some coarser beds.			
155.0		Limestone, silty, dark gray with veinlets, irregular parallel lenses of coarse grainstone, 60inch bed of brown claystone.			
		Coarse Lens			
		Claystone			
		Coarse Lens			

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
	192.0	Coarse Lenses Coarse Lenses				
		Coarse Lenses				
195.0	211.0	Limestone, medium grey, light grey mottled with purple stain, fine grained with coarse interbeds, even bedding (distinguishing from rest) 6" of brown calc. siltstone towards bottom.				
211.0	221.0	Limestone, dark grey, aphanitic-silty, irregular veinlets, darker grey, coarser lenses.				
221.0	227.0	Limestone, and interbedded shale, variegated grey, gr. gry. purple-brown, fine grained, silty.				
227.0	251.0	Limestone, light grey-tan, irregular bedding.				
251.0	257.0	<u>LOWER COVE</u> Limestone, fine to medium grained, burrowed, bot. sc. stringers mark bedding, iron staining.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
251.0	277.5	 <p>Limestone, medium -dark grey, fine to medium grained, mottled brown, iron stained, interbedded dolostone, fine grained pelecypods.</p> <p>(gradation contact to lower core)</p>				
277.5	285.0	 <p>Interbedded dolostone and limestone-dolostone, fine grained light grey calcite veins-limestone; silty, dark grey, regular sh. layers, dolostone, medium, mottled tan, medium grained calcite veins, burrowed, filled in by clay claystone; tan, calcite veins, fossil fragments.</p>				
285.0	295.0					
295.0	300.0					
300.0	325.0	 <p>Limestone, very fine grained, medium grey, burrowed with coarse lenses, iron staining fossil fragments.</p>				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
525.0	340.0	 <p>Dolostone, medium grey, fine grained, regular bedded, interbeds of well burrowed silty limestone, chert layer.</p> <p>BOTTOM</p>				



D. D. HOLE No. 17

LOCATION South of Reid telegraph tracts boundary

HOLE STARTED Sept. 19, 1973

HOLE COMPLETED Sept. 20, 19-3

CORE RECOVERY \_\_\_\_\_ %

DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	0.4	OVERBURDEN				
		<u>PIGEON HEAD UNIT</u>				
4.0	18.0	Limestone, dark grey, fine grained, irregular shale stringers some burrowing.				
18.0	30.5	Limestone, medium grey, fine grained with veinlets of yellow-brown siltstone (burrows).				
30.5	69.0	Limestone, dark grey, fine grained with veinlets of darker sand (burrows) grades into very fine grained limestone with shaly bands.				

FOOTAGE		DESCRIPTION	SAMPLING						
FROM	TO		SPL. NO.	FROM	TO				
	69.0								
69.0	110.5	Limestone, dark grey, shaly, fine grained with wavy bands interbeds of coarse calc. grainstone.							

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL NO.	FROM	TO	FEET
111.5	112.0	* Claystone, yellow-brown, grades back into limestone.				
112.0	120.0	Limestone, medium to dark grey, fine grained irregular wave shale bands.				
120.0	125.0	Limestone, dark grey, shaly.				
125.0	129.0	Limestone, light grey, very fine grained, wavy shaly stringers.				
129.0	144.5	Limestone, dark grey, fine-medium grained, irregular veinlets, lenses of grainstone, burrowing throughout.				
144.5	145.5	* Claystone, tan with purple stain.				
145.5	180.0	Limestone, as above with shaly intervals.				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
180.0	186.0	Limestone, silty, very fine grained, stylolites, wavy shale stringers (1 inch).			
		<u>LOWER COVE UNIT</u>			
186.0	204.0	Dolostone, medium grey, variegate, yellow-brown-grey (reddish) and buff, wavy towards bottom, filled with crystalline dolomite, becoming argillaceous in lower 5 ft.			
		Silty, argillaceous (tan).			
204.0	222.0		Limestone, aphanitic, very fine grained, light to medium grey, shaley stringers with 6" bed of argillaceous dolomite.		
222.0	226.0	Dolostone, light grey, with 1/2" shale veins, fine grained.			
226.0	235.0	Limestone, aphanitic, dark grey, shale stringers.			
235.0	237.0	Dolostone, light grey, fine grained with calcite veins 1" of white chert.			
237.0	238.5	Limestone, dark grey, silty, fine grained interclasts burrowed.			
238.5	257.5	Dolostone, light grey-tan, silty, very fine grained chert banded brown, calcite veins.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
257.5	272.0	Limestone, dark grey, dolomitic, very fine grained burrowed chert, burrows filled with coarser material.			
272.0	284.0	Interbedded dolostone and dolomite limestone - dolostone, tan buff, fine grained, burrowed calcite filled vugs. Limestone - dark grey, dol., silty shale stringers.			
295.5		Dolostone, tan-buff, fine grained, isolated burrows, calcite veins, stylolites, brown bands.			
295.5	350.0	Petroliferous shale Interbedded dolostone and limestone, dolostone - fine grained, light grey, even black bands, calcite vugs. Limestone - dolomitic, dark grey, shaly, burrowed, silty, very fine grained with lenses of coarser sand. (304.0-305.0 - slightly petroliferous shale).			



PROJECT

LENIGH CEMENT

Page 1 of 3

D. D. HOLE No. 18-73 18-73

LOCATION S of Reid - Telegraph Tracts  
 UTM Grid 5378300 MN  
 353000 ME

HOLE STARTED

HOLE COMPLETED

CORE RECOVERY 100 %

DRILLED BY Inspiration

SURVEY		
Depth	Dip	Azimuth

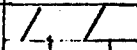
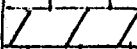
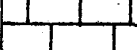
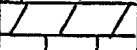
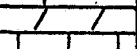

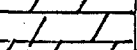

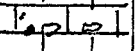
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 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP. \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0'	6'	OVERBURDEN				
6'	10'	PIGEON HEAD: dark gr. limy mudstone to packstone; biotubated U. infill darker, sucrosic; fine lim. stained argillite partings. grading into dark grey bioturbated limy mudstone to packstone; grey-brown argillite partings. abundant locally. Cycle as above				
10'	18'					
18	30.6"	Lower Cove Transitional: cycle med. grey to dk. gr. pink, limy to dol. mudstone, sucrosic, locally laminated w. limon. & ht. stained limy argillite layers. Going to med. grey limy mudst. to packs. bioturbated w. coarser & darker infill. Local ht. stained, wavy partings.				
30.6"	38.4"					
38.4"	60	cycle: med. grey to grey pink dolomit., rarely limy mudst., sucrosic, locally lam. w. ht. or limy bands; argillitic stylolites throughout, elsewhere mottled; goes to med. grey bioturb. limy mudst. to wackest. w. ht. stained partings and stylolites.				
60	74.3"					
74.3"	92.3"	Lower Cove: cycle: med. grey to dol. mudst, sucrosic, ht. stained, mottled, ht. stylolites, goes to med.-dk. grey limy mudst. to wackest.; bioturb. infill coarser and darker. Chert in laminated bands & nodules (sometimes pelleted). Cycle: med. grey dolom. mudst., sucrosic, commonly mottled, lim. & ht., stylolites, partings and local laminations. Going to med. grey, limy mudstone to wackest., bioturbated w. infill darker and coarser, sometimes lim. stained, abundant grey argillite partings - local wavy bands. Ht. stained fracture cut dolom. mudst.				

PROPERTY PORT AU PORT

HOLE NO. 18-73

SHEET NO. -2-

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
92.3"	99.10"	 cycle as above but dol. mudst grey-tan & non-mottled.				
99.10"	128	 cycle: med. grey-tan dolo. mudst., sucrosic; goes to med. grey mudst. to packst. var. bioturb., abundant lim. stained argillite partings to local wavy banding. 110-113'L infill- limy impure silt, non-lithified. heterog, fragments.				
		 <input type="checkbox"/> Pyrite as vug infill in packst .				
128	144	 cycle: grey tan-med. grey dol. mudst.: laminated & mottled, sucrosic; ht. and lim. stained, dark grey limy mudstone to packst., abundant fine grey-brown argillite, wavy banding, but also bioturbated.				
144	164	 cycle: dol. grey-med. grey, rest as above, some lim. stained partings. Lst. locally laminated without bioturbation.				
164	193	 cycle: grey-tan-white very fine rgained laminated, do. mudst, sucrosic, local pellets preserved, goes to med. grey limy mudstone-wackest., var. bioturb., fragments lim. stained, argillite partings-wavy banded nature, many pellets, interclasts etc. lim. stained.  Layer with limy sand fragments up to 8", angular, red-brown.				
193	234.4"	 cycle: l-med. grey, dolomit. mudst., well laminated grades to dk. grey limy mudst. to packst. var. bioturb. (mottled) to laminated (like dolom.) abund. grey-brown arg. partings - local wavy banding, local green arg. infill (across bands) sporadic stylolites. <i>across bands</i>				
		 Grainstone: clasts, pellets, interclasts, fossil frgments-Storm Layer.				



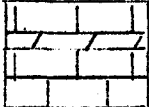
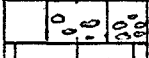
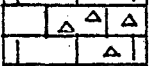
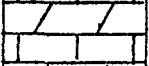
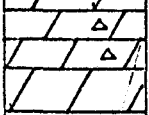
PROPERTY PORT AU PORT

HOLE NO. 18-73

18

SHEET NO. -3-

3

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
234.4"	247	 <p>cycle: 1. grey dolomitic to rarely limy mudst., sucrosic, local lim. stain, goes to med. grey limy mudst. to packst., var. bioturb, abundant argillite partings w. local lim. stain - local wavy bands and large infill areas. Qt. in vug. surrounding calcite.</p>				
247	270.5"		<p>cycle: med. grey limy mudst., mass; goes to med. grey to grey tan limy mudst. to packst., var. bioturb.; infill lim. stained. Abundant fine calcite veinlets - pseudobreccia.</p>			
270.5"	287.6"	 <p>Grainstone: clasts, interclasts, pellets &amp; fossil debris, often lim. stained or rimmed. Storm Layer.</p>				
287.6"	298	 <p>Cycle: red or limy mudst.; massice goes to med. grey limy mudst. to wackest., var. bioturb.; infill lim. stained, to locally laminated. Blue to grey chert. Red-brown chert.</p>				
298	316.4"		<p>Cycle: light grey dol. mudst. massive, sucrosic goes to med. to light grey limy mudst. grainstone, abundant green arg. partings, var. bioturb.</p>			
316.4"	332.4"	 <p>Cycle: as above but 1st. more abundant. Ht. stained argillite partings, inc. a number of grainstones.</p>				
332.4"	350	 <p>Light grey to grey pink to med. grey dolom. mudst., massive, sucrosic, -sporadic Ht. stained fractures, locally laminated</p> <p>Pelleted Chert.</p>				

LOCATION North of road between Sheaves Cove and Lower Cove.

HOLE STARTED Oct. 2, 1973

HOLE COMPLETED Oct. 4, 1973

CORE RECOVERY 100 %

DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

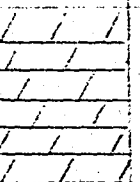
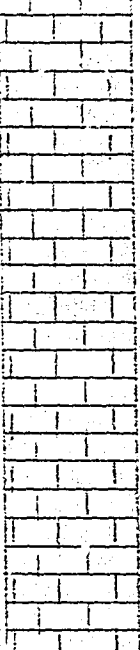
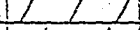
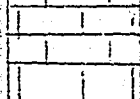
AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	6.0	OVERBURDEN				
6.0	20.0	* Dolostone, argillaceous, buff-tan calcite veins. <u>LOWER COVE</u> Limestone, medium-dark grey, fine to coarse grained, burrowed calcite veins (pink and white).				
20.0	29.0	Limestone, dark grey, silty, very fine grained, brown shale partings.				
29.0	33.0	Dolostone, buff to pink, fine grained.				
33.0	39.5	Limestone, dark grey, very fine grained, mottled red, tan very burrowed.				
39.5						

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	
	52.0	 Dolostone, calcic, pink, fine grained, calcite filled fractures.				
52.0	100.0		 Limestone, medium-dark grey, fine grained, burrowed, replaced by lighter coloured material, pellets, 1/2" cross cutting calcite veins, red staining.			
100.0	102.0	 Dolostone, tan-pinkish, silty; cross cutting the calcite veins.				
102.0	127.0	 Limestone, as described above, many more calcite veins, interclasts.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
127.0		- becoming light grey.				
127.0	147.0	Limestone, dolomitic, medium-dark grey, fine grained, burrowed crosscutting calcite veins, interbedded claystone, green, yellow, purple, brown.				
147.0	182.5	Limestone, light to medium grey, aphanitic, silty, intervals of pink argillaceous dolostone, calcite veins.				



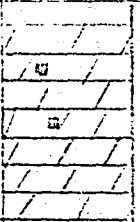
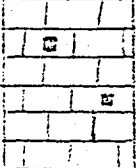
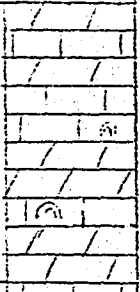
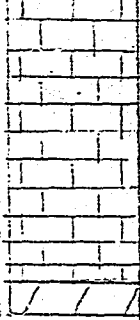
LOCATION Southeast of Victor Brook  
Headwaters.  
 HOLE STARTED Oct. 15, 1973  
 HOLE COMPLETED Oct. 17, 1973.  
 CORE RECOVERY 100 %  
 DRILLED BY Inspiration Drilling

SURVEY		
Depth	Dip	Azimuth

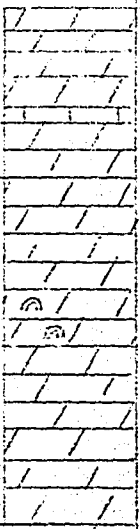
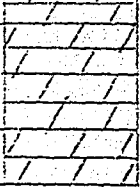
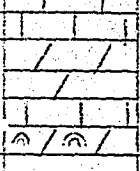
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 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP. \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	5.0	OVERBRIDEN				
5.0	37.0	Limestone, medium grey, aphanitic, stylolites, abundant dark shale stringers, isolated calcite veins.				
37.0	40.5	Limestone, dark grey, very fine grained, shale stringers breccia (2") layer lying on contact with calcite cement and clay infilling.				

FOOTAGE		DESCRIPTION	SAMPLING			Pb%	Zn%
FROM	TO		SPL. NO.	FROM	TO		
37.0	40.5	Sharp angular (in core) contact (disconformity)					
40.5	41.0	Dolostone, medium grey, fine grained, laminated layers probably stromatolitic in origin.					
41.0	51.0	Shale, green-grey, poorly consolidated.					
		Dolostone, light-medium grey, very fine grained, interbedded grey shale, laminated horizons (stromatolite) isolated calcite veins, yellow staining, chert layer.					
51.0	71.0	Dolostone, medium grey, fine grained, vuggy porosity, sometimes calcite filled, mottled stylolites, clay layers galena (61'3")					
71.0	100.5	Dolostone, light grey, slightly calcic, very fine grained, interbedded glauconitic shale, voids filled with calcite limy clay and galena, also traces of sphalerite, pyrite sometimes occurs with galena.	150	110	10	.005	.03
100.5	108.5	Dolostone, medium grey, irregular bedding, stromatolitic horizons, aphanitic, silty, burrowing, thin bedded calcite veins.					
108.5	125.0						

FOOTAGE		DESCRIPTION	SAMPLING			% Pb	% Zn	
FROM	TO		SPL. NO.	FROM	TO			FEET
108.5	125.0	 <p>Dolostone, light to medium grey, aphanitic, thin bedded (regular and irregular) crossbedding, burrowed vugs and cavities calcite filled with galena common.</p>	110	120	10	1.53	0.55	
125.0	137.0		 <p>Limestone, medium grey, very fine grained, burrowed, thin bedded, collapse breccia zone (131.0-135.0) galena, and traces of sphalerite, partings at shaly layers.</p>	120	130	10	4.00	0.53
137.0	157.0			 <p>Interbedded limestone, fine grained, medium grey, pyrite stromatolitic horizons, irregular lamination, and dolostone fine grained, medium grey, calcic, burrowed, calcite veins.</p>	130	140	10	0.15
157.0	177.5		 <p>Limestone, medium grey, fine grained, aphanitic shales stringers, irregular bedded interclasts.</p>					



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	
187.5	187.9	 <p>Dolostone, light grey, thin bedded, brown layers, stylolites, fine grained.</p>				
187.0	188.0		Limestone, aphanitic, medium grey, irregular bedding.			
188.0	216.5		Dolostone, buff-light grey, fine grained shale stringers, stromatolitic horizons, interbedded shale, glauconitic.			
216.5	225.0	Shale, medium grey.				
223.0	238.5	 <p>Dolostone, buff-light grey, fine grained, stylolites, mottled beds contain shell fragments.</p>				
238.5	260.0	 <p>Interbedded limestone, aphanitic, medium-dark grey, shaly partings and dolostone, medium grey, fine grained, stromatolitic horizons, pellets, burrowed.</p>				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
260.0	277.0	Limestone, dolomitic, fine grained, shales stringers, calcite veins containing <u>galena</u> and traces of <u>sphalerite</u>				
277.0	290.0	Dolostone, calcic, very fine grained, medium grey stylolites shale stringers, stromatolitic beds, grade into limestone.				
290.0	298.0	Limestone, aphanitic, fine grained, medium grey, weathers buff with coarse texture, stylolites, calcite veins.				
298.0	312.5	Dolostone, calcic, white-light grey, fine grained calcite veins with <u>galena</u> and <u>sphalerite</u> lining veins. PP WH				
312.5	550.0	Limestone, light to medium grey, aphanitic, fine grained shaly partings, glauconitic clay veins, fine grained with calcite veins.				





FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
	40'					
	56'					
56'	60'	MISSING				
60'	62'	Same as siltstone above Greywacke, dark grey, fine-grained, limy.				
	63'	Argillite (clay-silt shale) med.-dark grey, very thin bedded, interbedded claystone - siltstone.				
	101'					
101'	107'	Greywacke, dark grey, fine-grained.				
107'	120'	Greywacke, dark-grey, med. grey with larger (tectonic) pebbles. slickensides.				

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
120'	139'	Siltstone, dark grey (shale), thin bedded.				
139'	154'	*Breccia, claystone with large ( $\frac{1}{4}$ " - $\frac{1}{2}$ " ) angular limestone fragments, dark grey, fragments lt. grey.				
		Argillite. dark grey.				
154'	300'	Interbedded red, brown and grey (grn.) claystone fissile, vitreous luster.				







D. D. HOLE No. 21

LOCATION UTM Grid 5305200 NN,

350900 NE

HOLE STARTED June 24/74

HOLE COMPLETED June 26/74

CORE RECOVERY 100 %

DRILLED BY Eastern Exploration Ltd.

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP. \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0'	35'	No core; assume most of top 35' too soft to core.				
35'	88'6"	EMBER ARM: Dk. grey to green argillite with interbeds of shiny lustrous siltstone; graptolites throughout, local Pyr. but hard to locate core so broken up - sporadic dark grey (br) limy mudstone interbeds (max 3").				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
88'6"	105'	Dark green argillite with interbeds lustrous black to green argillite. Intermixed with lithic greywackes: frag. ang. argillites; matrix dk. grey, granular to locally fine slightly dolomitic to limy, wave banded - long axes of clasts sub-parallel, complete size variation; local clast-free bands; clasts up to 3".			
105'	213'4"	Interbedded green & red siltstones (less indurated than before) abund. lustrous patches, green to 117', 126'-128' Green			
213'4"	277'6"	Dark grey lst. Bx. ang. limy clasts (med. grey) in drk gry matrix; max. size 1" down to matrix size; interbedded argillites. Sometimes finely lam. max. contain sporadic clasts.			



PROJECT LEHIGH CEMENT

D. D. HOLE No. 23

LOCATION UTM Grid 5385000 MN  
350300 ME  
 HOLE STARTED July 3/74  
 HOLE COMPLETED July 3/74  
 CORE RECOVERY 100 %  
 DRILLED BY: Eastern Exploration Ltd.

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_  
 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP. \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	14	OVERBURDEN				
14	40	<u>Humber Arm</u> dark grey argillite with graptolites on bedding surface. Brecciated with angular limy clasts in argillite matrix, heterog., complete size gradation from 1/4" across to matrix size. Interbeds up to 6" wide, dark grey limy mudstone. Both cut by calcite veinlets - local pseudobreccia patches (less than 1/2")				
40	48.2"	<u>Table Head</u> Transitional unit: dark grey limy argillite, becoming coarser bedded, more limy and lighter coloured downward.				
48.2"	56.6"	Med. grey limy mudstone to packstone; mottled, likely bioturbated - abundant fossil fragment, bivalves, gastropods; pisolites, pellets; interclasts; many dark grey-brown arg. partings.				
56.6"	66	Light grey to white limy mudstone to packstone bioturn. - lensoid appear. 57' and 62' -pyr. gal. sphal. - bitumen in vug with calcite (py. exterior - calcite-sphal.-calcite) entire core contains many fossil fragments., abundant grey arg. partings				
66	120	Med. grey limy mudst. to packstone, sprodic grey-br. arg. partings and calcite veinlets and fine fossil fragments, bioturbated throughout, macro gastro. (2) local pseudo Bx where biot. intense.				



LOCATION UTM 5585600 AN  
550500 MF

HOLE STARTED July 5, 1974

HOLE COMPLETED July 5, 1974

CORE RECOVERY 100 %

DRILLED BY Eastern Exploration Services

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH. \_\_\_\_\_

DIP. \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

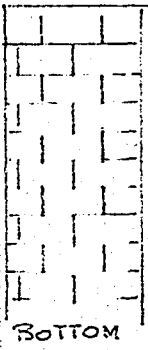
FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	6.0	OVERBRUDEN				
6.0	60.0	<p><u>TABLE HEAD</u> Limestone, medium grey, silty, fine grained, anastomising darker veins (hackly) calcite veins.</p> <p>(Lower Tabel Head)</p>				

PROPERTY \_\_\_\_\_

HOLE NO. \_\_\_\_\_

SHEET NO. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET



D. D. HOLE No. \_\_\_\_\_

LOCATION UTM Grid 5386200 M North

350300 M East

HOLE STARTED July 7, 1974

HOLE COMPLETED July 7, 1974

CORE RECOVERY Incomplete %

DRILLED BY Eastern Exploration Services

SURVEY		
Depth	Dip	Asimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	45'	Shale Initial shale was too soft to core.				
	45'	45' very close to HA boundary.				
45'	56'	<u>TABLE HEAD</u> Clay-shale (massive uncompactd) grn-gy.				
56'	79'	Siltstone (shale); dk. gry. intercalation 1/8' off sandy limestone ostracbds, uniserial & biserial grapholites.				
79'		Limestone (debris bed) see next page.				



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
	81'	Limestone; breccia, dk. gry. in the clay (limey) matrix fragments angular - subangular - heterogenous				
81'	91'6"		Limestone; dk. gry. silty, fine-irregular bedding, vein filled with coarse sand, some <u>pyrite</u> .			
91'6"	129'	Limestone; med. gry. silty with anastomosing darker veins, calcite veins with <u>pyrite</u> , orthoconic cephalopod, crude oil in fracture.  Newfie crude oil				
	129'					
		BOTTOM				

D. D. HOLE No. 26

LOCATION UTM Grid 5384400 MN

350300 ME

HOLE STARTED July 9, 1974

HOLE COMPLETED July 9, 1974

CORE RECOVERY 100 %

DRILLED BY Eastern Exploration Ltd.

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TC	FEET
0'	6'	OVERBURDEN				
6'	60'	TABLE HEAD med-gry. limey mudst to packstone; var. bioturb. with frag. lensoid develop.; gast. bivalves, rare pisolites, speradic stylolites - siltst. prtngs; several e.g., shelter porosity occluded by sparry ct. <i>(lower Table Head.)</i>				
		Py in matrix.				

D. D. HOLE No. DMI- 74-27

LOCATION UTM Grid 5385600 North  
350900 East

HOLE STARTED July 11, 1974

HOLE COMPLETED July 16, 1974

CORE RECOVERY %

DRILLED BY

SURVEY		
Depth	Dip	Azimuth

COLLAR. LAT. \_\_\_\_\_  
 DEP. \_\_\_\_\_  
 ELEV. \_\_\_\_\_  
 AZIMUTH \_\_\_\_\_  
 DIP \_\_\_\_\_  
 LENGTH \_\_\_\_\_  
 HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	30.0	Overburden				
30.0	59.0	<u>HUMBER ARM</u> Clay, uncompacted - light grey to dark grey, (mottled)				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	40.0				
59.0	93.0	claystone, interbedded, dark grey and reddish (shale) brown, grey shale, often not compacted.			
		HA			
93.0	95.0	Core missing.			
95.0	97.0	(TH) <u>TABLE HEAD</u> Siltstone, Dk.gr. w/limestone, lt med. grey clasts.			
97.0		Siltstone, (shale), dk. gr. (shale), interbeds of limestone, dk gr, fn grained; shale is graptolitic towards the middle, grading to more limy at base, calcite veins with pyrite.			

FOOTAGE		DESCRIPTION	SPL. NO.	SAMPLING		
FROM	TO			FROM	TO	FEET
	110.0					
149.0						
149.0	151.0	limestone, dk gr, silty, v.f.gr thin bedded calcite veins with pyrite.				
151.0	200.0	limestone, med grey, f gr anastomising dk. veins, pellets calcite veins continue for 30' with lining of pyrite.				



D. D. HOLE No. DDH-71-28

LOCATION UTM GRID 5385300 North  
350900 East

HOLE STARTED July 20, 1974

HOLE COMPLETED July 20, 1974

CORE RECOVERY 100 %

DRILLED BY Eastern Exploration Services

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP. \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	15.0	Overbruden				
15.0	115.5	<u>HUMBER ARM</u> Interbedded, brown and green to dark grey claystone (shale) some of grey shale is only unlithified clay, brown claystone tends to be carbonaceous.				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO

as described on previous sheet

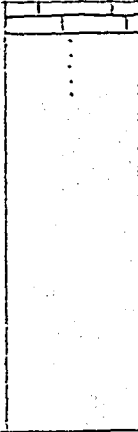


FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	115.5				
115.5	120.5	limestone, dark grey, high terrigenous content, fine grained with lenses of breccia material.			
120.5	148.0	claystone (shale), dark grey, carbonaceous very fissile.			
148.0	171.0	limestone, medium grey, fine grained, cross bedded intercalations of claystone			
171.0	174.0	claystone (shale), dark grey to black, carbonaceous, fissile			
174.0	184.0	as above with no visible bedding.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	184.0				
184.0	205.0	claystone (shale), black with interbeds of limestone, medium grey, fine grained and limestone breccia is in clay matrix. Cavity 6" interbed of limestone is filled with same as breccia-clay material.			
208.0	208.5	HA: limestone medium grey, coarse grained.			
205.0	208.0	clay, dark grey and light grey, unconsolidated. <u>TABLE HEAD</u>			
208.5	241.0	siltstone, dark grey (shale), graptolitic, ostracods becoming limy in last 20 feet, calcite veins, interbedded fine grained limestone (6')			
241.0	280.0	limestone, medium grey, silty, anastomosing veins.			

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET

250.0



BOTTOM

D. D. HOLE No. 26

LOCATION UTM Grid 3384700 MN

350900 MF

HOLE STARTED \_\_\_\_\_

HOLE COMPLETED \_\_\_\_\_

CORE RECOVERY 94 %

DRILLED BY Eastern Exploration Ltd.

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_


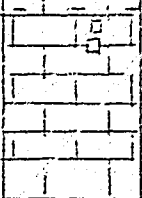
DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

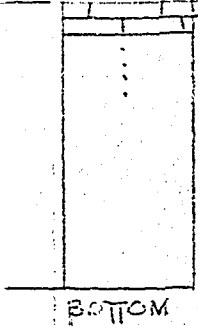
FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	15	OVERBURDEN				
15	55	HUMBER ARM interbedded dark grey to green siltstones & lesser argillites; abundance lustrous patches; graptolites, Py finely disseminated to nodular throughout.				
		Py				
35'	65'	LOST CORE				
65'	75'	Dk. green siltstone with abundant lustrous patches.				
75'	85'					

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
85'	136'	<p>LOST CORE</p> <p>Dark grey to dark green siltstone; badly broken up.</p>				
136'	136'10"	<p>Dark grey argillites &amp; fine-grained greywackes.</p> <p>Dark grey argillites with lesser siltstones, abundant finely-disseminated Py, lustrous patches still abundant.</p>				
138'10"	186'					
186'	187'	<p>Lithic greywacke: clasts - very ang. green argillite to grey argillite, lustrous &amp; not; matrix dk. gry. argillite, may show patches of wavy banding; some frag. attenuated.</p> <p>Dk. gry to green siltstones with lesser argillites; again fine Py throughout.</p>				
187'	221'					

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
231'	237'	 <p>Dark gray limy argillite, finely laminated, many grapholites, some ostracods.</p>			
		TRANSITIONAL			
237'	240'	 <p>TABLE HEAD: abrupt change to coarse-grained apparently partly limy mudstone to packstone, med. gray with fine argillite (limy) interbeds. med. gry. limy mudstone to packstone with typical lensoid development created by infill; fine shaly partings &amp; stylolites; much fossil debris - gast, bivalves, pellets.</p>			



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET



BOTTOM







D. D. HOLE No. ddh-55-74

LOCATION UTM Grid 5583200 N

513400 E

HOLE STARTED

HOLE COMPLETED

CORE RECOVERY Partial %

DRILLED BY Eastern Exploration Services

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT.

DEP.

ELEV.

AZIMUTH

DIP

LENGTH

HOR. PROJ. VERT. PROJ.

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
		Overburden				
		<u>HUMBER ARM</u>				
12.0	13.0	-Limestone, tan-lt. grey, aphanitic with brown clay stringers				
13.0	15.5	-Greywache; medium to dark grey, med. grained, silt & pepper				
15.5	17.0	to homogenous siltstone, dark grey, thin bedded (shale)				
17.0	19.5	-Core missing.				
19.5	28.0	-Interbedded siltstone and mudstone (shale), dark grey, some interbeds of very fine greywache.				
28.0	32.5	-Greywache, dark grey, limy (calcite cement), coarse grained				
32.5	37.0	- Greywache, dark grey, fine grained grading to medium grained.				
37.0	53.0					

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	40.0				
	57.0	Mudstone, dark grey (shale) with one-foot interbeds of fine grained greywache.			
57.0	61.0	Greywache, dark grey ( ) fine grained.			
61.0	63.0	<del>Core missing.</del>			
63.0	69.0	Mudstone, dark grey (shale).			
63.0	100.5	Greywache, medium grained ( ), coarse grained calcite veins.			
100.5	117.5	Siltstone, dark grey with interbeds of medium grained greywache.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	110.0				
117.5					
117.5	137.0	Greywache, medium grained, calcite veins, coarse grained with interbedded claystone and siltstone, dark grey.			
137.0	194.0	Greywache, medium grey, coarse cement grading to medium and fine grained, limy with thin interbeds of claystone.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	180.0				
	194.0				
194.0	218.0	Claystone (shale); dark grey and interbedded siltstone			
218.0	278.0	Greywacke, dark grey, limy cement, fine to medium grained with interbeds of siltstone.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	250.0				
		Core missing.			
278.0		Core missing.			
		(Greywacke getting coarser).			
278.0	500.0	Claystone (shale), dark grey interbedded siltstone.			
		(ALL HUNTER ARM).			
300.0					
		BOTTOM			

D. D. HOLE No. 34

LOCATION UTM Grid 538400 MN

346200 ME

HOLE STARTED AUGUST 27/74

HOLE COMPLETED AUGUST 30/74

CORE RECOVERY Badly broken up 97%

DRILLED BY Eastern Exploration Ltd.

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_

DEP. \_\_\_\_\_

ELEV. \_\_\_\_\_

AZIMUTH \_\_\_\_\_

DIP \_\_\_\_\_

LENGTH \_\_\_\_\_

HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0	14'	Overbruden				
14	15'	<u>HUMBER ARM</u>				
15	20'	Med. grey limy mudst. to wackestone, fossil fragments				
		Dark grey argillite with lesser siltstone, limy mudstone interbeds up to 2" wide.				
21	25'	Lost Core.				
25	35'	Dark grey argillite; limy beds to 4" wide, comp. limy cement clasts heterog. from limy mudstone to siltstones & argillites poorly sorted, sub-angular.				
35	39'	Lost Core.				
39	85'	Dark grey limy argillite with limy mudstone to limy lithic greywacke interbeds up to 8" wide. Sporadic throughout; med. grained, dark pink clasts heterog. from arg. (green to gray) to mudstone; grades to fine grained limy greywacke in which clasts mostly limy.				
85	153'	Dark grey limy arg. with good blocky fractures grading sporadically to dk. grey. greywacke, finely lam., sporadic fin. diss. py.				



FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO FEET
		apparent cross beds in some greywacke			
155	212'5"	Dark grey siltstone with lustrous patches.			
155	212'5"	Dark grey greywacke, fine grained, interbedded with dark grey argillites. Again apparent cross beds in greywacke; argillite decreases in importance downwards; fine, sparry calcite veins cut greywacke - a local "vein Bx".			
212'5"	240'7"	Dk. grey greywacke, fn.-cr. grained, homog in general but dark grey arg. locally larger & may be concentrated locally/diffus. laminated appearance; sporadic dk grey arg. interbeds to 1" wide. Fine calcite veins cut greywacke - local "vein Bx".			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
240'7"	261'	Dark grey argillite interbedded (& grading into) dark grey greywacke, fine grained.			
261'	290'	Dark grey argillite with grapt interbedded with med. grey greywackes (coarse grained, angular, subangular clasts : lithic with large limy mudstone clasts, limy matrix) and dark grey to green wavy banded argillite often with abundant to sparse angular fragments, sparse, grey brn. limy mudstone to dark grey to green siltstone bands.			
290'	300'	Dark grey argillite with sporadic interbeds up to 6" wide. Grey-brown limy mudstone.			



FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
	40.0	Claystone (shale); dark grey interbeds (6-8'), fine grained greywache, medium grey, calcite veins.				
		Missing core.				
82.0	117.0	Greywache; medium to dark grey, very fine grained regular bedding, intercalactions of dark claystone.				

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	110.0				
112.0	117.5	greywache; medium grey, coarse grained, limestone fragments			
117.5	150.5	Siltstone, (shale); medium to dark grey with very fine grained greywache intercalations.			
130.5	148.0	Greywache; medium grey, fine grained grading to coarse limestone fragments, last 5' contains intercalated claystone, dark grey.			
148.0	171.0	Greywache; medium grey, fine grained, limy intercalated claystone (5"), thin bedding.			
		Greywache; light grey, coarse grained, limy			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL NO.	FROM	TO
	180.0				
	192.6				
192.5	204.0	interbedded mudstone (shale) dark grey and greywacke; medium grey fine grained, limy, thin bedded			
204.0	251.0	Mudstone, dark grey with interbedded (6-8") greywacke, medium grey, coarse grained in last 30'.			

FOOTAGE		DESCRIPTION	SAMPLING		
FROM	TO		SPL. NO.	FROM	TO
	250.0				
250.0	258.0	Greywacke, medium grey (salt and pepper), very coarse grained limestone fragments, veins of calcite lined with pyrite.			
258.0	284.0	Claystone - siltstone (shale) dark grey.			
284.0	2' 0.0	Greywacke; medium to dark grey, fine grained with interbedded dark claystone.			
		BOTTOM			

PROJECT LEHIGH CEMENT

D. D. HOLE No. DDH-36-74

LOCATION UTM GRID 53P72200 MN  
340600 ME

HOLE STARTED Sept. 8, 1974



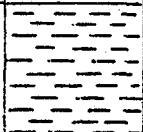
HOLE COMPLETED Sept. 10, 1974

CORE RECOVERY 100 %

DRILLED BY Eastern Exploration Services

SURVEY		
Depth	Dip	Azimuth

COLLAR LAT. \_\_\_\_\_  
DEP. \_\_\_\_\_  
ELEV. \_\_\_\_\_  
AZIMUTH \_\_\_\_\_  
DIP. \_\_\_\_\_  
LENGTH \_\_\_\_\_  
HOR. PROJ. \_\_\_\_\_ VERT. PROJ. \_\_\_\_\_

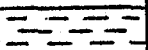
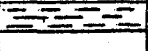
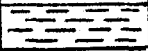
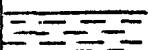
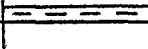
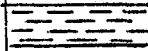
FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
0.0	10.0	 Overbruden				
10.0	13.0	 <u>Humber Arm.</u>				
13.0	67.0	Dark grey greywacke, clasts, Qtz limy mudstone, argillite, fine grain size, homogenous matrix frequently limy, local elongate black argillaceous clast up to 1/4" long, salt and pepper colour, sporadic black argillite lenses or beds up to 8" wide.				
67.0	85.0	 Dark grey argillite; graptolites, ostracods sporadic throughout.				
85.0	99.2"	Dark grey greywacke as before but has a laminated appearance due to slight colour diff. local conc. white clasts - speckled appearance.				



HOLE NO. 36-74

SHEET NO. -2-

PROPERTY PORT AU PORT

FOOTAGE		DESCRIPTION	SAMPLING			
FROM	TO		SPL. NO.	FROM	TO	FEET
99.2"	105.3"	 Dk. grey argillite with graptolites sporadic.				
105.3"	115.8"	Dk. grey greywacke, med. grained, clasts most often quartz or argillite also feldspar plus limy mudst.; interbedded with dark grey argillite; locally diffuse lamination due to bands of inc. argillite fragments in greywacke; sporadic calcite veins.				
115.8"	118.0"	 Dark grey argillite with graptolites; finely laminated.				
118.0	146.4"	Dark grey greywacke; med. grained clasts; quartz plus argillite with lesser feldspar and limy mudstone Homog. in general but locally larger argillites and higher argillite diffuse lamination, matrix limy, calcite veins sporadic.				
146.4"	152.3"	Dark grey argillite interbedded with dk. gr. greywacke, med. grained.				
152.3"	165.0"	 Dark grey greywacke, med. grained, diffusely laminated.				
165.0"	171.9"	Dk. grey argillite with rare graptolites and finely diss. pyrite (+ calcite) in veins.				
171.9"	184.2"	 Dk. grey greywacke as above, med. grained with dark grey argillite interbeds up to 4" wide, calcite veining.				
184.2"	186.2"	Dark grey argillite.				
186.2"	208.3"	 Dark grey greywacke, med. grained as above with dark grey argillite interbeds up to 5" across, locally fine calcite veining.				
208.3"	213.9"	Dark grey argillite locally coarsening to fine grey greywacke.				
213.9"	234.6"	 Dark grey greywacke, grain size from fine to coarse, grading into dark grey argillite interbeds; fine calcite veins in true greywacke.				

