JCS 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: NAS SONDAGE No.: W 117 Profondeur: 505' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 45° Commencé le 13-4-70 Machine: Décrit par: S. ESSOI

CLAIM: Coord. locales: X=7600E Y=1720 Z= Terminé le 18-4-70 Diam. Forage: AXT.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	18	Overburden				
18	49	sericite chlorite amphibolite schist?	Rock green with dark green phenocrysts fine grain with scattered medium grains Grains schistosed to random. rock schistosed passibly strat. Min. comp. sericite chlorite amphibole feldspar calcite fracture fillings chilled contact section grades into sericite chlorite schist.	py po tr	45°	1
49	61	quartzite alternating with biotite sericite schist	a) Rock grey with shades of brown fine grain to crystalline rock interbedded Rock interbedded min. comp. quartz feldspar sericite	py po tr	45°	2
			b) Rock greyish green fine grain to flaky Rock schistosed min. comp. biotite sericite pyrophyllite carbonate py po tr.			3
61	64	graphite shale with interbedded py po streak cond.	rock black with metalic bronze streak fine grain rock strat. with regular evenly spaced lamination Min. comp. graphite fine silicdous matrix py po carbonate fracture fillings.	1858 py po 8-10%	40	4

JEB. 50087

W 117-2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
64	176			feldspar biotite chlorite schist.	rock has alternating dark with light green bands with white streaks fine to medium grain and flaky grains schistosed rock schistosed rock strat. possibly with schistosed plane. schistosity appears to be irregular and wavy at places. quartz veinlet at places min. comp. chlorite biotite feldspar sericite quartz py po tr.	py po tr	45-55 40°	537
176	186			impure quartzite	rock grey with shades at brown fine grain to crystalline rock partly schistose. min. comp. quartz feldspar biotite sericite.	py po tr	45	8
186	195			lost core	lost core due to grinding possible faultzone			
195	213			crushed and micro brecciated chlorite sericite schist.	core broken and crushed. poor recovery 30-40% faultzone.	py po tr		9
213	236			micro brecciated impure siliceous siltstone or cataclasite./	Rock dark grey fine grain with medium subangular fragments and recrystallized vitreous quartz rock poorly strat. recovery 60-70% faultzone min. comp. quartz feldspar chlorite biotite carbonate.	py po tr	45	10-11

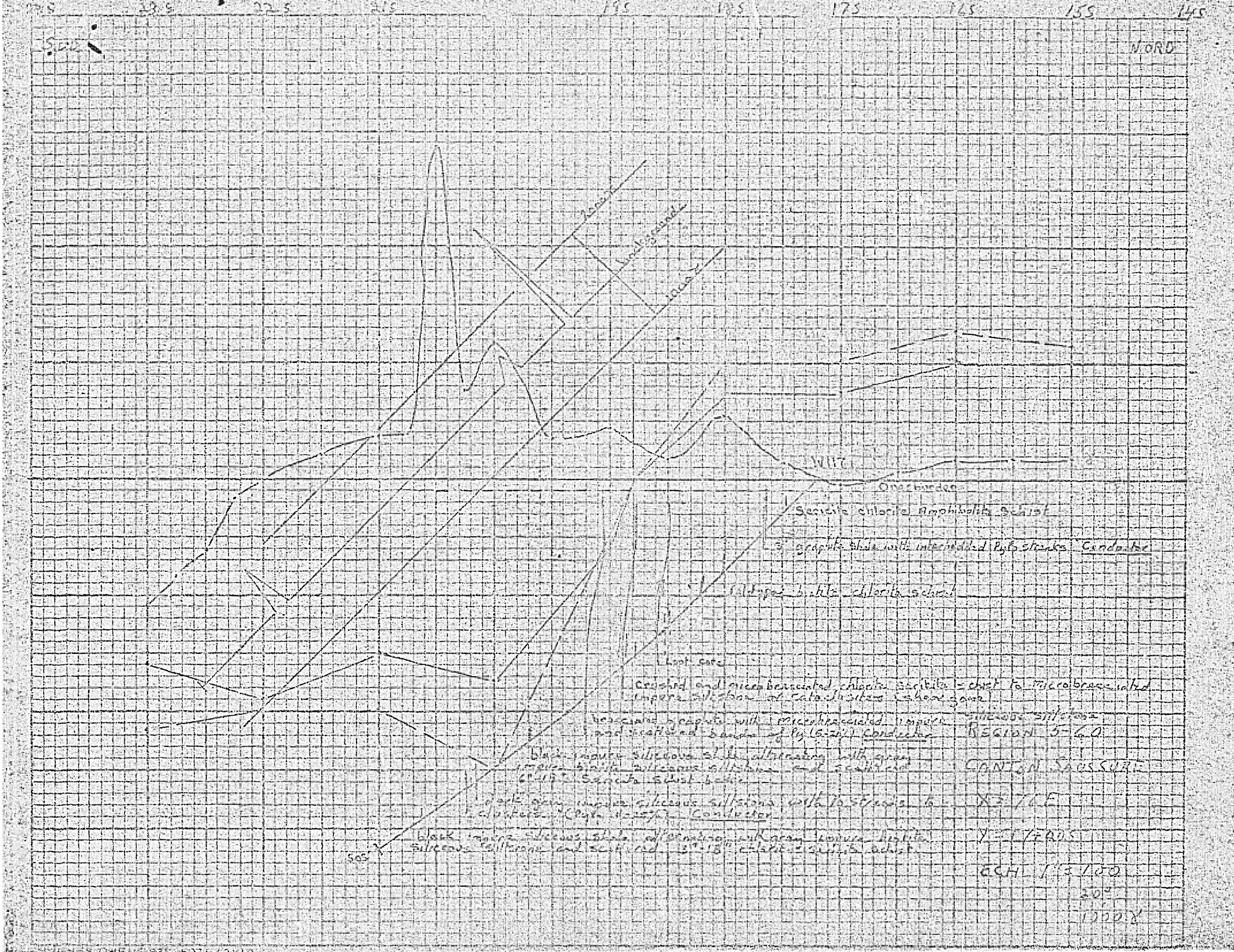
W 117-3

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
236	250			brecciated graphite	Rock black with white to grey	py 3-4%	12-13	
				with micro brecciated	fragments fine grain matrix with medium			
				impure siliceous siltstone	and coarse subangular fragments rock			
				cond.	poorly strat. Min. comp. graphite			
					feldspar quartz minor carbonate			
					biotite py po.			
250	265			micro brecciated impu-	same as 213-235 except beds grade	py po tr 1%	40	14-15
				re siliceous siltstone to	into calcareous chlorite sericite schist.			
				calcareous chlorite sericite				
				schist.				
265	276			graphite shale with micro	same as 236-250 there are 4' lost			
				brecciated impure siliceous	[illegible] section	py po 4-5%	40-45	16
				siltstone cond.				
276	277			py with micro brecciated		1859 py		
				impure siliceous siltstone		30-20%		
				cond.				
277	280			brecciated graphite shale	same as 265-276	py 3-2%		17
				cond.				
280	393			black impure siliceous	rock had alternating black and gray	py po 1-2%	35	18à20
				shale alternating with	bands. fine grain to crystalline. Rock			
				gray impure biotite	strat. with evenly alternating beds.			
				siliceous siltst ne and	min. comp. siliceous matrix quartz feldspar			
				scattered 6-18"	sericite with impure graphite pigmentation biotite local			
				schist beds.	garnet scatter py po streaks.			

JES. 50087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
393	403			dark grey impure siliceous siltstone with po streaks to clusters	rock dark grey to black with metalic bronze streaks to bands fine grain cond. to crystalline rock poorly strat. min. quartz feldspar py po	py po 10-12%		21
403	410			" py po 20-30% cond	min. py po increases local sl tr	1860 py po 20-30%	35%	22
410	505			black impure siliceous shale alternating with gray impure biotite siliceous siltstone and scattered 3-18" chlorite sericite schist.	same as 280- 393' except there is more garnet present in the section rock becomes more cherty near the end of the section.	py po 1-3%	30-35	23à26

Estimated core recovery 85%
Dip test at 490'=30°30'.
Scintillometer check : No radio active minerals.



SUD
NORD
background
Overburden
Sericite chlorite Amphibolite Schist
graphite shale with interbedded Py. streaks Conductor
Lost core
Conductor
Conductor
REGION 5-60
CANTON SAUSSURE
X 2+75E
ECH 1" = 100'
1000 Y

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 120 Profondeur: 513' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 45° Commencé le 21-4-70 Machine: Décrit par: S. ESS

CLAIM: Coord. locales: X= 7600S Y= 2380S Z= Terminé le 24-4-70 Diam. Forage: BL.

Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	Déviations à	Déviations Angle
0	12			Overburden					
12	26			quartz feldspar biotite chlorite schist alter-nating with 2-3" sili-ceous biotite schist bands.	Rock dark green with white specks and alternating brown bands. fine grains to medium grain. Grains schistosed and crystalline at places. Rock strat. with schistosity . Alteration metamorphosed sedimentary rock Min. comp. quartz feldspar biotite chlorite garnet tr. minor sericite py po tr.	py po tr	1-2	45-50	
26	28			black siliceous slate with py po streaks cond.	Rock black with metalic bronze streaks fine grain to crystalline rock regularly and evenly to vary strat. bedsé Min. comp. fine siliceous matrix feldspar quartz and graphite pigmentation py po.	py po 8-10%	3	50-55	
28	44			fine biotite chlorite schist.	Rock dark green fine grain rock schistosed Min. comp. biotite chlorite sericite py po tr minor siliceous matrix.	py po tr	4	55-45-	
44	55			graphite slate alterna-ting with dark grey im-pure siliceous slate cond.	rock black with dark grey bands. fine grain to crystalline at the beginning of the [illegible]	py po 2-5%	5-6	45-50	

JEB., 59087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		W 120-2 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					breccíated graphite fragments rock strat. with regular to wavy beds Min. comp. graphite fine quartz feldspar matrix py po biotite sericite.			
55	80			biotite sericite schist	Rock greyish green with silvery sheen fine grain to flaky grain schistosed hardness 2 4. rock strat. with schistosity plane. Min. comp. sericite biotite minor quartz feldspar chlorite.	py po tr no min.	55	7
80	95			black siliceous slate to fine chesty biotite impûre quartzite.	Rock grey with brownish shades fine to medium grain to crystalline and cherty Rock strat. min. comp. quartz feldspar biotite sericite py po tr.	py po tr	55-60	8
95	97			fine cherty biotite impure quartzite with po 8-15% streaks to clusters cond.	"	1865 py po 8-15%		9
97	140			fine cherty biotite impure quartzite.	"	py po tr 1%		10
140	148			biotite impure quartzite with streaks to clusters of py po (1s -20%) cond.	Rock strat. with regular to wavy lamination possible suming of beds.	1866 15-20% py po	55-65	11

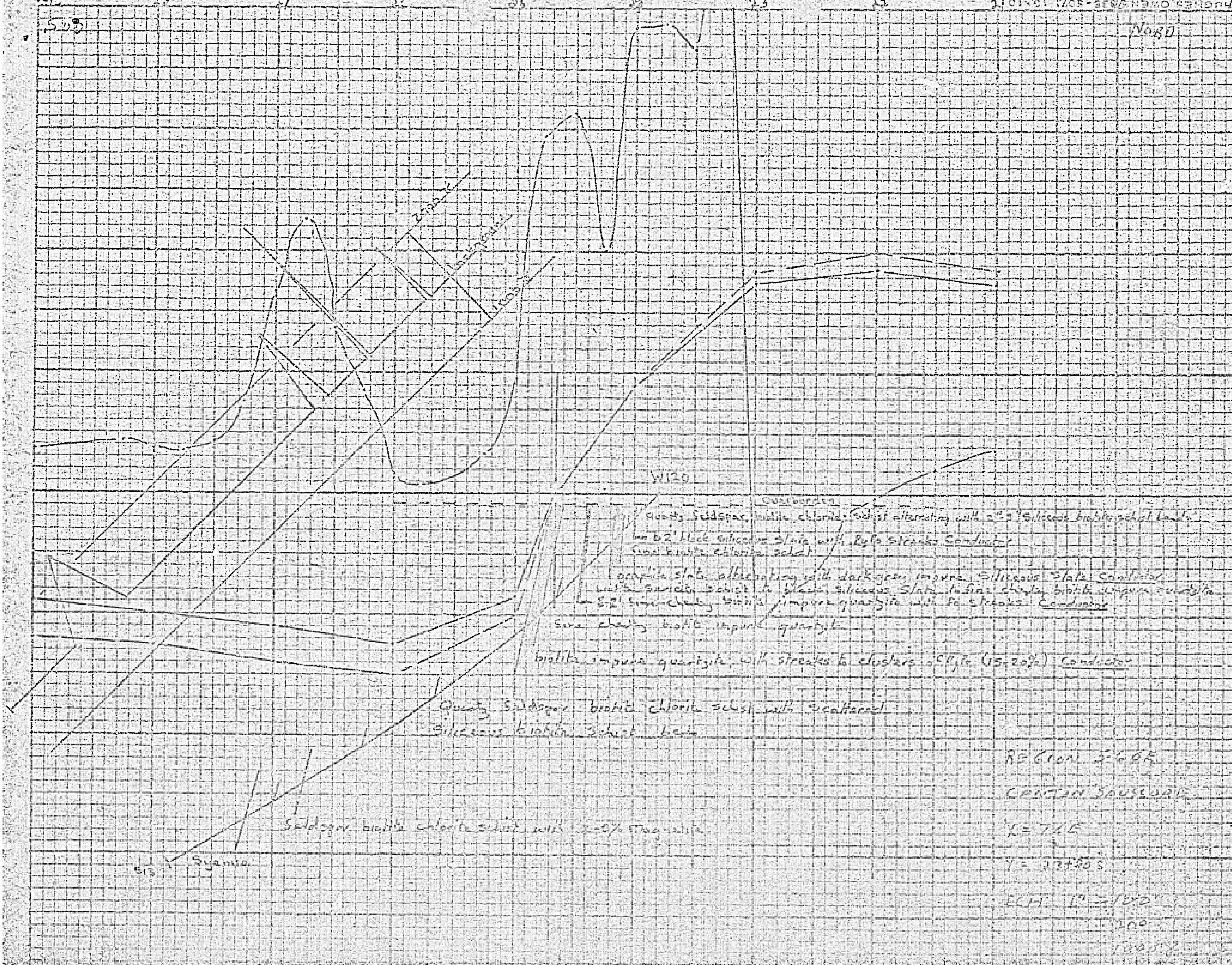
W 120-3

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
148	155			" cond	"	py po 8-10%	"	12
155	334			quartz feldspar biotite chlorite schist with scatter d siliceous biotite sc ist.	same as 12-26 except grains are finer	py po tr%	30-45 35	13à15
334	384			alternating quartz felds-par biotite chlorite schist with coarse to fine siliceous sandstone or poragneiss?	Same as 155-334 except there are alternating fine to coarse siliceous sandstone beds or paragneiss.	py po tr	40-45	16
284	384			feldspar biotite chlorite schist with scattered sili-ceous biotite schist and 1-3' porphyroblastic hornfeldes	same as 155-334 except there are 1-3' porphyroblastic hornfelses	py po tr		17à19
384	439			feldspar biotite chlorite schist with mag 2-5%	same as 155-334 except magnetite increases in the section and near the end of section or the ortho-clase feldspar and amphibole increases there is a progressive contact to sharp chilled contact with syenite.	py po 1-2% mag 2-5%	45-55	20
439	513			syenite	rock pink with white and green specks medium to medium coarse grain rock massive chilled contact at 40° min. comp.	py tr no min.		21à23

JEB. 50087

W 120-4

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					orthoclase and plagioclase feldspar			
					amphibole biotite sericite tr of			
					garnet quartz py and epidote.			
				Estimated core recovery 96%				
				dip test at 300'- 33°				
				Scintillometer check No radio active minerals.				


Sud
Nord
29
28
27
26
25
23
22
W120
Overburden
Quartz feldspar biotite chlorite schist alternating with 2"-3' siliceous biotite schist bands
6-2' black siliceous slate with pyrite streaks Conductor
fine biotite chlorite schist
graphite slate alternating with dark grey impure siliceous slate Conductor
6-2' fine cherty biotite impure quartzite with Po streaks Conductor
fine cherty biotite impure quartzite
biotite impure quartzite with streaks & clusters of pyrite (15-20%) Conductor
Quartz feldspar biotite chlorite schist with scattered
siliceous biotite schist beds
feldspar biotite chlorite schist with 2-5% magnetite
Syenite
513
REGION 5-60K
CANTON SAUSSURE
X = 746
Y = 33+40 S
ECH 1" = 100'

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: SAUSSURE
was

REGION: .... SONDAGE No.: W 124 Profondeur: 302' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45° south. Commencé le 27-4-70 Machine: .... Décrit par: S. OSSOP

CLAIM: .... Coord. locales: X= 7200E Y= 4200N Z= .... Terminé le 30-4-70 Diam. Forage: AX.

Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	Déviations à	Déviations Angle
0	35			Overburden					
35	84			alternating calcite streak with chlorite argillite.	Rock green with streaks to bands Fine grain Rock strat. with regular to wavy laminated beds. min. comp. calcite chlorite biotite mag tr. py po tr feldspar quartz minor.	py po tr	40-55		1-2
84	152			calcareous chlorite phyllite.	rock green with gellowish green streaks fine grain Grains schistosed Rock strat. with schistosity plane min. comp. chlorite calcite sericite biotite minor py po mag tr.	py po tr mag	55-50		3-4
152	225			calcareous chlorite sericite schist to phyllite.	Rock yellowish green with green specks fine grain to fibrous at places hardness 2.3 soapy at places. Rock strat. with schistosed plane. Min. comp. chlorite sericite calcite pyrophyllite py po mag tr.	py po tr	50-45		5-6
225	249⁵			feldspar dolomitic limestone?	Rock yellowish brown with white and green specks fine grain to medium fine grain to medium fine grain.	py tr	50		7-8

JEB. 50087

W 128-2

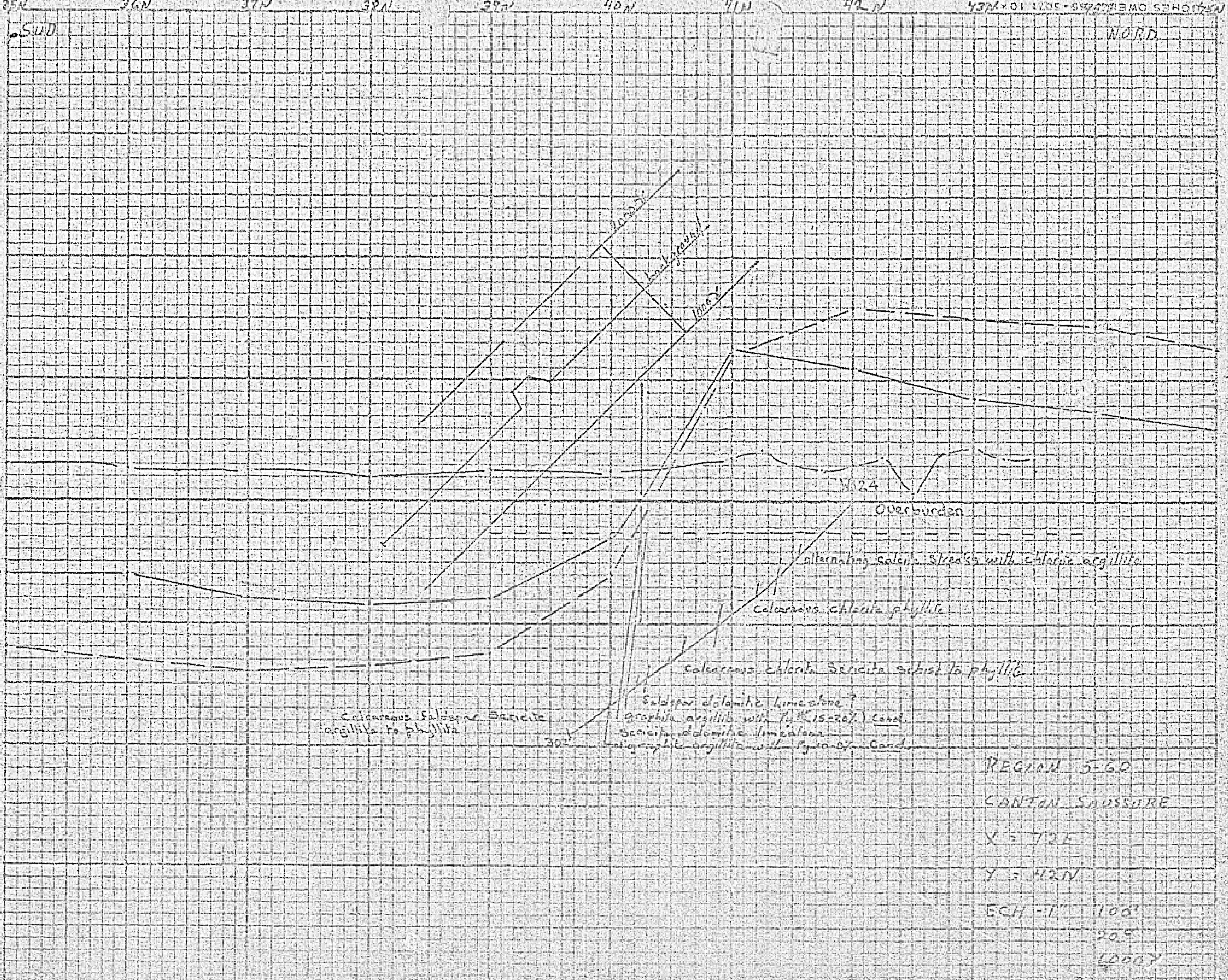
Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					rock strat. rock appears to be foliated			
					Min. comp. calcite dolomite talc			
					feldspar py tr sericite.			
249	252			graphite argillite with py 15-20% cond.	rock black with bronze metalic luster fine grain rock irregularly strat. min. comp. graphite py calcite feldspar	1872 py 15-20%	45-50	9
252	265			sericite dolomitic limestone.	same as 226- 249^5 except sericite increases	py 1-2%	45-50	1[illegible]
265	266			graphite argillite with py 10-8% cond.	Same as 249^5-252	py 8-10%		1[illegible]
266	302			calcareous feldspar sericite argillite to phyllite.	rock greyish yeloow fine grain rock strat. to schistosed min. comp. calcite feldspar sericite chlorite minor quartz py tr.	py tr	45-50	131

remark: cond. explained by intersections 249^5-252 graphite argillite with py 15-20%
265-266 " " " 10-8%

Estimated core recovery 97%

diptest at 300'-34^o

Scintollometer check : No radio active minerals.


35N
36N
37N
38N
39N
40N
41N
42N
43N
SUD
NORD
1000'
background
1000'
Overburden
alternating calcite streaks with chlorite argillite
Calcareous chlorite phyllite
Calcareous chlorite sericite schist to phyllite
feldspar dolomite limestone ?
graphite argillite with (15-20%) Cond.
sericite dolomite limestone
graphite argillite with Cond.
Calcareous feldspar sericite
argillite to phyllite
REGION 5-G.D
CANTON SAUSSURE
X = 72E
Y = 42N
ECH - 1" : 100'

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: Saussure

REGION: WAS. SONDAGE No.: W 125 Profondeur: 411' Foré par: BENOIT.

ANOMALIE: 54S02 DIR. et INCL.: South 45° Commencé le 29-4-70 Machine: Décrit par: S. SSSOI

CLAIM: Coord. locales: X=100002=1200S Z= Terminé le 2-5-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	Déviations à	Déviations Angle
0	15			Overburden					
15	18			chlorite schist	Rock green with dark greenspots Fine grain grains are schistosed. Rock strapy with schistosity Min. comp . chlorite sericite amphibole mag tr. 1%	mag tr 1% py po tr.	35-40		1
18	37			calcareous biotite schist.	Rock grey with borwnish sheen Fine gfain to flaky Rock schistosed Min. comp. carbonate biotite sericite feldspar py po tr.	py po tr no min.	35		2
37	67			micro chlorite amphibole.	rock green with dark green specks fine fine to medium fine grain grain random to schistosed rock partly massive min. comp. amphiboles chlorite carbonate minor feldspar.	no min			3
67	84			pyrophyllite sericite schist.	rock greyish green with silvery sheen fine grain. soapy and greasy to touch hardness 2 3. Rock schistosed min. comp. sericite pyrophyllite carbonate.	no min	35-40		4
84	132			calcareous sericite	same as 18-[illegible] and rock green with white	mag tr 1%	35-60		5-5

JEB. 50007

W 125-2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
chlorite schist				to calcareous biotite schist.	streak fine grain grains schistosed min. comp. carbonate sericite chlorite mag py po tr.	py po	45°	
132	158			chlorite amphibolite	rock green with dark green phenocryst of amphiboles fine to medium grain rock massive. min. comp. chlorite amphiboles biotite carbonate.	py po tr		7
138	148			"	"	1873 "		
148	158			"	"	"		
158	271			carbonate biotite am- phibolite chlorite schist to siliceous calcareous biotite schist	a) Rock green with brown specks fine to to medium fine grain rock schistosed min. comp. chlorite biotite amphi- bole sericite b) Rock greyish brown fine grain to crystalline rock schistosed min. comp. feldspar quartz carbonate biotite chlorite py po quartz veins.	py po	60-65	8à 10
271	364			chlorite schist to calcareous sericite biotite schist.	a) rock green fine grain grains schistosed min. comp. chlorite sericite minor carbonate	py po 1-2%	55-45	11
					b) rock greyish brown fine to flaky grain rock schistosed Min. comp. sericite biotite carbonate.	py po 1-2%	55-45	12-13

JEB. 53087

W 125-3

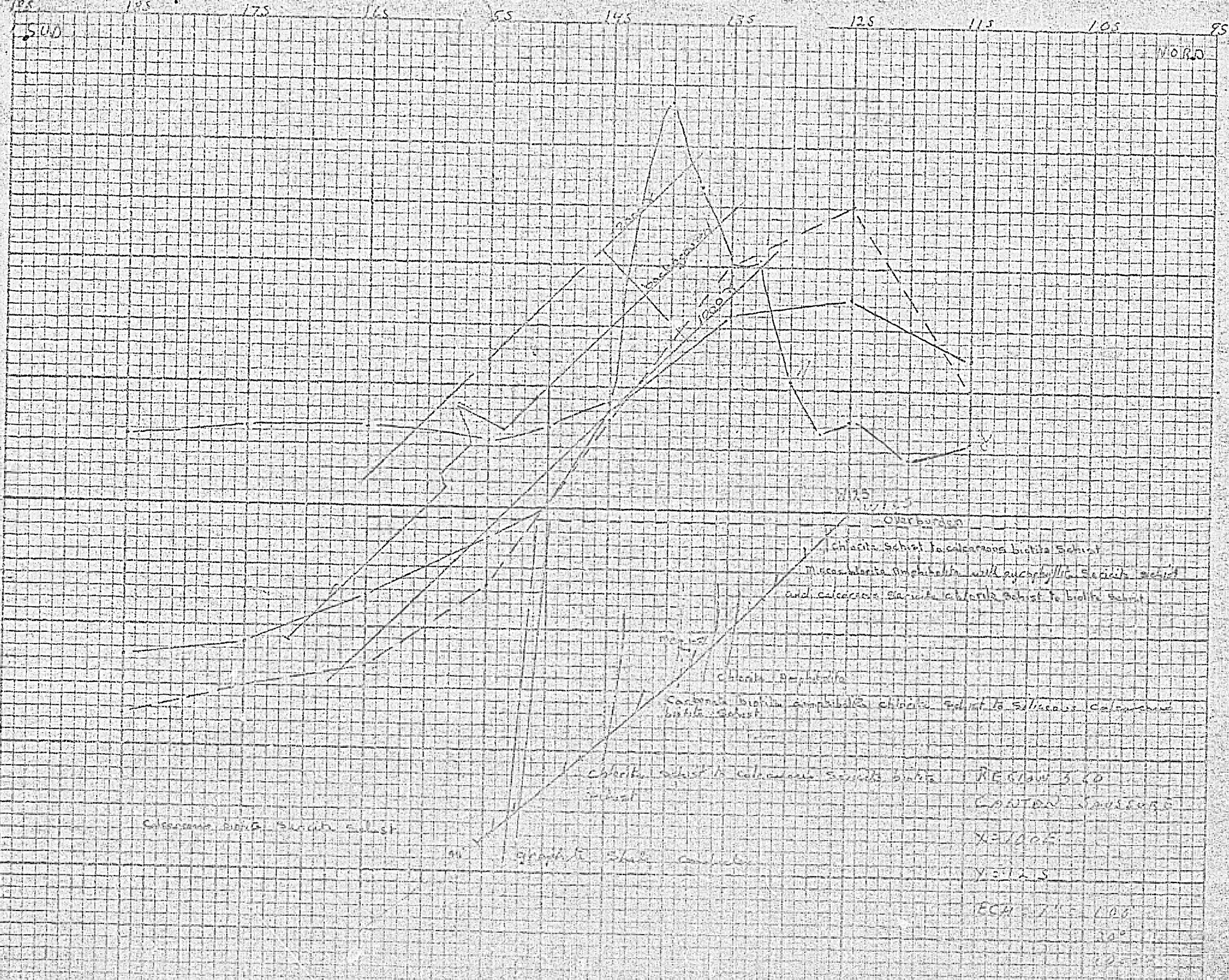
Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillion Témoin
364	380			graphite shale cond.	rock black fine grain rock strat. beds irregular to wavy Min. graphite minor quartz carbonate.	py po ½-1%	45-50	14
380	411			calcareous biotite sericite schist.	rock greyish green fine grain grains schistosed min. comp. sericite carbonate chlorite biotite feldspar py po trl	py po tr	45-35	15=16

Remark: cond. explained by intersection 364-380 graphite shale
magn. association coused by magn. in the sections 161-124

Estimated core recovery 95%

Dip test at 411'= 38°

Scintillometer check no radio active minerals.


SUD
NORD
Overburden
Chlorite Schist to calcareous biotite Schist
Chlorite Amphibolite
REGION 5 CO
CANTON
Y = 12 S

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: SAUSSURE.

REGION: WAS SONDAGE No.: W 130 Profondeur: 374' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45°South. Commencé le 4-5-80 Machine: Décrit par: S.ESSO

CLAIM: Coord. locales: X=9600E Y=200S Z= Terminé le 7-5-70 Diam. Forage: WL.

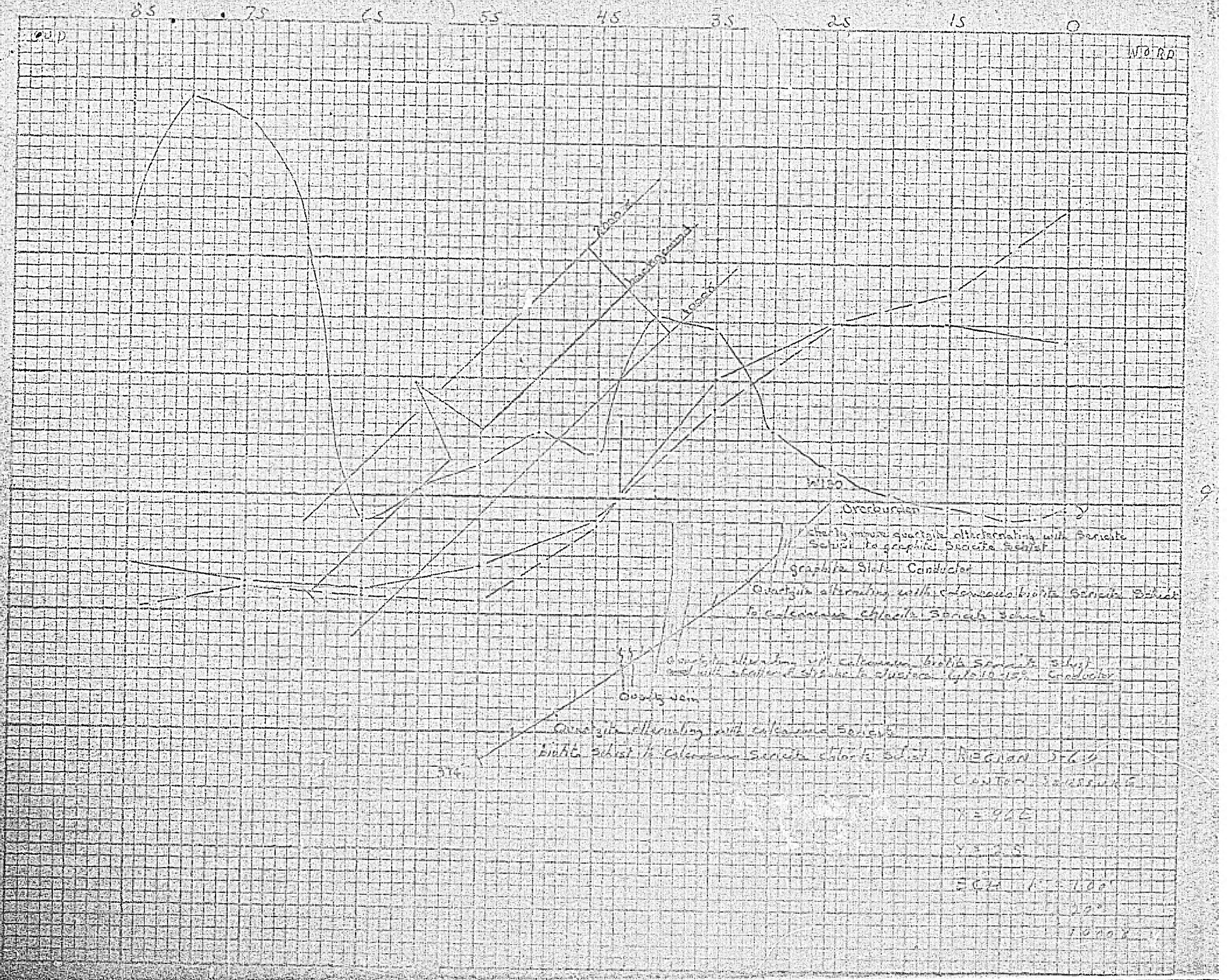
Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	Déviations à	Déviations Angle
0	30			overburden.				
30	50			cherty impure quartzity alternating with sericite schist to graphite sericite schist. rock, greyish green with white bands to black fine grain to flaky and cherty. rock strat. to partly schistosed min. comp. quartz feldspar sericite biotite chlorite py po tr. carbonate.	py po tr	60-45		1;3
50	64			graphite slate cond rock black fine grain rock strat. min. comp. graphite py tr carbonate fracture filling.	py tr	60		4
64	146			cherty quartzite alternating with sericite schist. same as 30-50 except graphite sericite schist beds are absent.	py po tr 1%	60		5-6
146	171			calcareous chlorite sericite schist. rock green fine grain to flaky hardness 3 4. rock schistosed min. comp. sericite chlorite carbonate pyrrophyllite.	py po tr	55-60		7
171	172^5			quartzite alternating with calcareous sericite biotite schist Rock brownish green fine grain to cherty and flacy at places rock strat. with schistosity plane min. comp. biotite	1073 py po py po 15-25% cpy tr. sl tr.	45-55		8

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				with scattered streak to clusters py po 15-25% cond.	biotite sericite carbonate py po quartz feldspar.			
172^5	191			" py po 8-10% cond.	min. decreases and becomes scattered and clusterlike local cpy and sl tr.	py po 8-10%	45-5	9-1
191	219			quartzite alternating with calcareous sericite biotite schist.	rock same as $171-172^5$ except biotite increases and py po min. decreases	py po tr 2%	40-45	11-1
219	227			quartz vein	Min. comp. biotite seric te py po tr	py po tr%		13
227_5	228^5			"	" local cpy fracture filling.	1879py po 2-3%cpy tr.		
228	231			"	"	py po tr 1%		
231	236			quartzite alternating with calcareous sericite biotite schist.	same as 191-219	py po 3-4%	40	14
236	374			calcareous sericite chlorite schist.	rock green with brown specks fine grain to flaky rock strat. with schistosity plane min. comp. chlorite sericite carbonate biotite carbonate quartz stringer pyrophyllite py po tr.	py po tr	30-40	15à 18.

remark: cond. explained by intersection 50-64: graphite slate
171 191: scattered streaks to clusters of
10-15 py po.

Estimated core recovery: 96%
Dip test at: 325' 24°

Scintillometer check: No radio active minerals.


85
75
65
55
45
35
25
15
0
background
W130
Overburden
graphite Slate Conductor
Quartz vein
Region 5/6
Y = 9+2S

JEB. 50086

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: W.S. SONDAGE No.: W 134 Profondeur: 350' Foré par: BENOIT.

ANOMALIE: 5.60S DIR. et INCL.: S 45° Commencé le 11-5-70 Machine: Décrit par: S. BSS

CLAIM: Coord. locales: X= 9200E Y= 400N Z= Terminé le 13-5-70 Diam. Forage: AX.

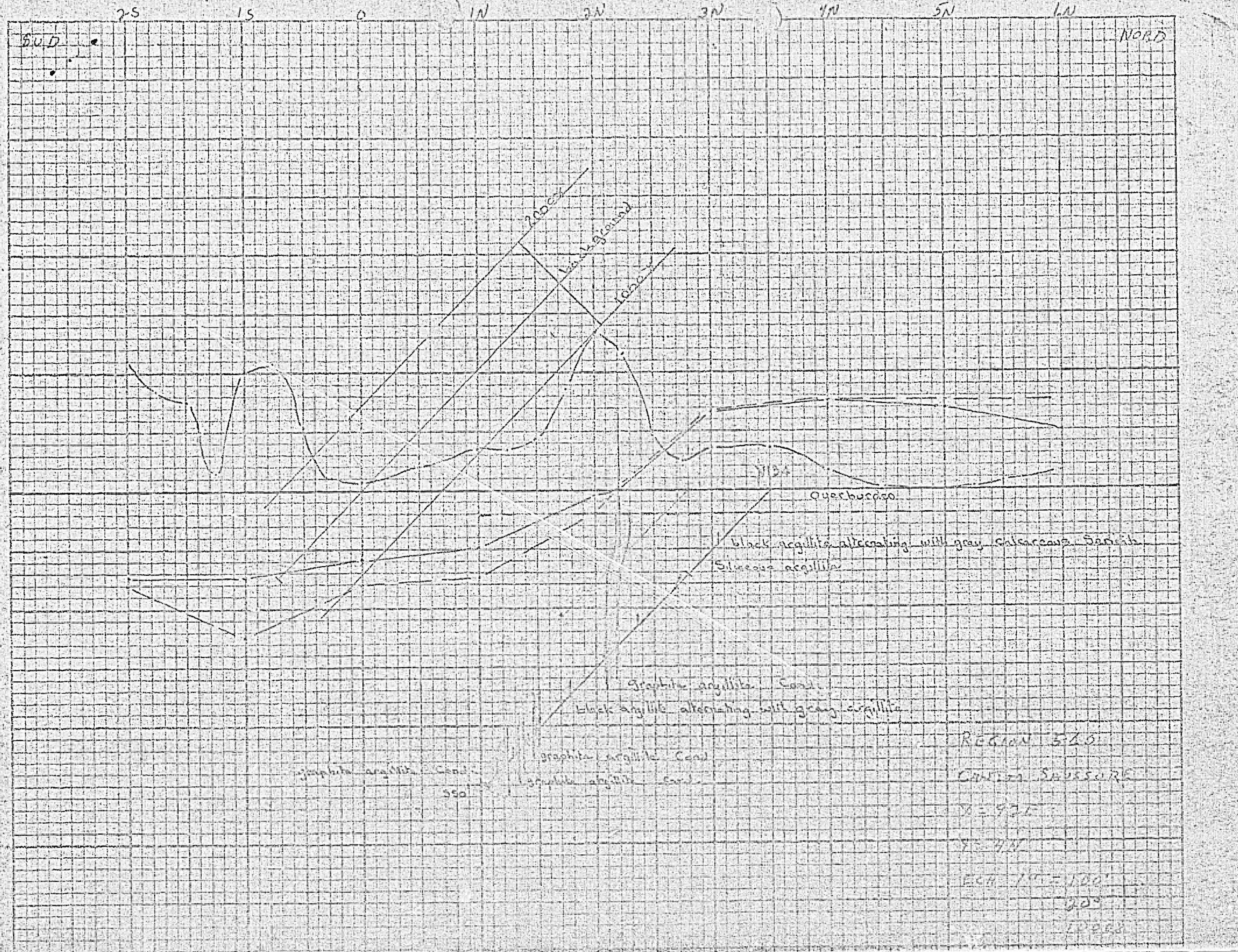
Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	25	overburden.				
25	27	black argillite	Rock black with white streaks fine grain Rock strat. min. comp. impure grap i e sericite carbonate siliceous clay minerals py tr.	py tr	45050	1
27	31	calcareous sericite siliceous argillite.	Rock grey fine grain grains appear to be schistosed at places rock strat. min. comp. carbonate sericite quartz feldspar and clay matrix py tr.	py tr	55-65	2
31	65	black argillite	same as 25-27	py tr ½%	50-60	3-4
65	148	black argillite alternating with gray calcareous sericite siliceous argillite.	same as 25-27 and 27-31	py po tr	60-75 45	5à7
148	153	graphite argillite alternating with gray impure argillite weak cond.	rock black and alternating gray bands. fine grain rock strat. min. comp. graphite siliceous clay matrix.	py ½%	45-50	8
153	163	black argillite alternating with gray argillite.	same as 25-27 & 27-31	py 1%	50-60	9

QUEB. 53087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	W 134-2- Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
163	169	graphite gray		argillite alternating with argillite weak cond.	same as 148-153	py tr ½%	55-60	10
169	190			black argillite alternating with gray argillite.	same as 25-27 27-31	py po tr	"	11
190	199			graphite argillite alternating with grey argillite cond.	same as 148-153	py pp 2-3%	"	12
199	223			black argillite alternating with gray argillite.	same as 25-27 27-31	py 1%	50-55	14
223	224			graphite argil ite cond	same as 190-199	py 1%	45-50	15
224	285			black argillite alternating with gray argillite and sparsely scattered 6-12" graphite argillite.	same as 25-27 27-31	py tr	45-50	16-17
285	290			graphite argillite cond.	same as 190-199	py po 3-4%	45-50	18
290	303			black argillite alternating with gray argillite.	same as 25-27 27-31	py tr po	45-50	19
303	311			graphite argil ite cond	same as 190- 199	"	"	20
311	322			gray argillite with scattered black argillite.	same as 25-27 27 31	"	"	21
322	350			graphite argillite cond.	same as 25-27 27-31	"	"	22

JEB. 50087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	W 134-3 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				REMARK:			
				cond. explain d by intersections.			
190	199			grap ite argillite.			
285	290			"			
303	311			"			
322	350			"			
				Estimated core recovery 92%			
				dip test at 340'= 49°			
				Scintillometer check : No radio active minerals.			


SUD
NORD
2S
1S
0
1N
2N
3N
4N
5N
6N
background
Overburden
black argillite alternating with gray calcareous
Siliceous argillite
graphite argillite Cond
black argillite alternating with gray argillite
graphite argillite Cond
graphite argillite Cond
graphite argillite Cond

JEB 45681

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SUASSURE.

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 037.6 Profondeur: 332' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45° South. Commencé le 15-5-70 Machine: Décrit par: S. ESSOP

CLAIM: Coord. locales: X= 8800E Y= 800N Z= Terminé le 17-5-70 Diam. Forage: WL.

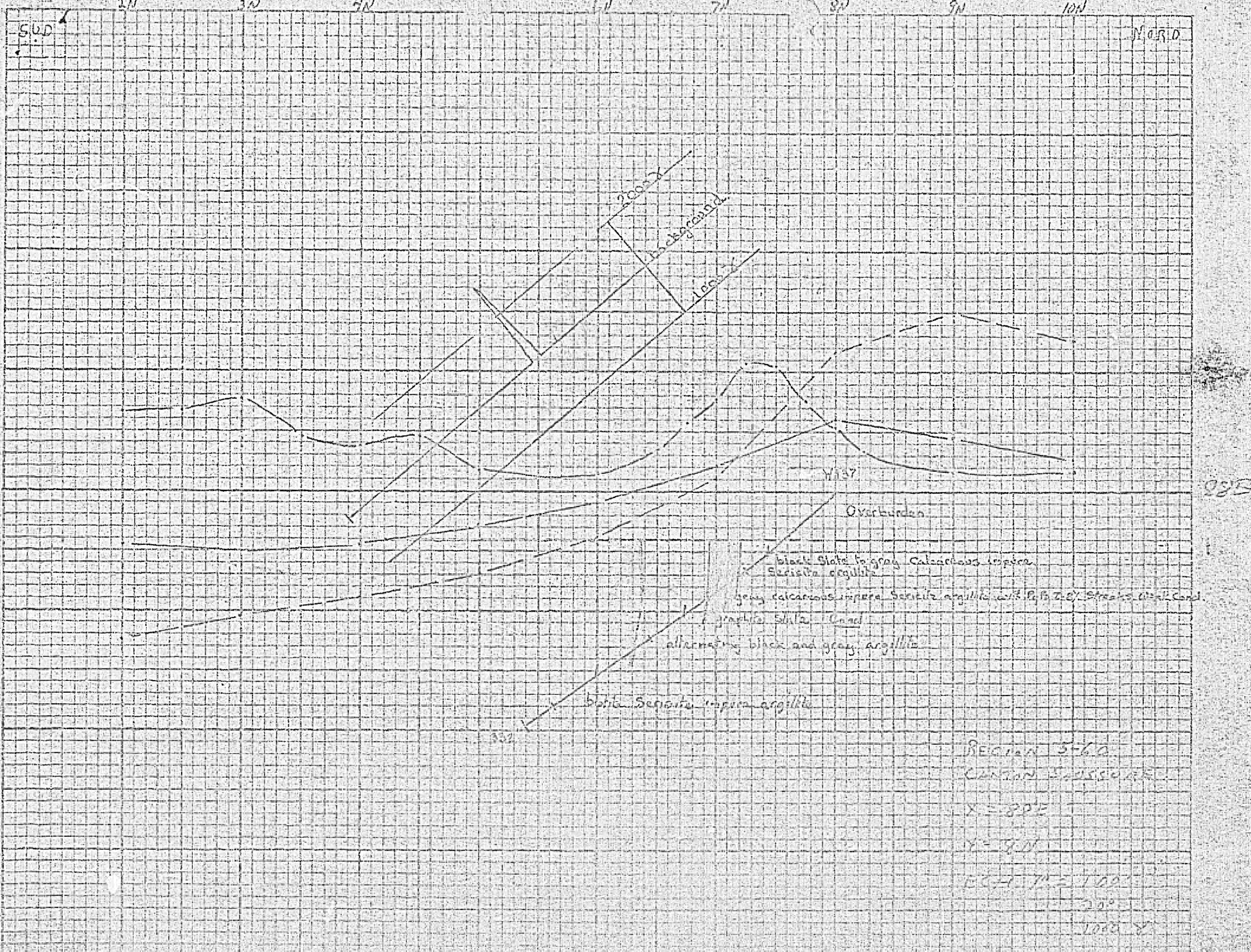
Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	Déviations à	Déviations Angle
0	56			Overburden.				
56	104			black slate to argillite 'Rock black fine grain Rock regularly stratified min. comp. impure graphite sericite fine clay matrix carbonate fracture fillings.	py po tr no min	45-50		1-2
104	110			gray calcareous impure sericite argillite. rock greyish green fine grain to soapy at places 3 4. rock partly strat. with schistosity Min. comp. carbonate sericite siliceous clay matrix.	py potr	45-50		3
110	119			" with streaks of " py po weak cond.	py po 7-8%	45-50		4
119	123			gray calcareous " impure sericite argillite.	py po 1-2%	45-50		5
123	141			graphite slate cond rock black fine grain rock strat. beds at slaty min. comp. graphite py po tr.	py po 1-2%	50-55		6
141	218			alternating black rock alternating black and gray bands.	py po tr	45-50		7-8

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				and gray argillite	fine grain quartly schistosed rock strat. with regular rythmic beddings. min. comp. biotite fine siliceous clay matrix sericite py po tr.			
218	332			biotite sericite impure argillite.	rock grayish brown to greenish gray fine gray to partly foliated rock strat. min. comp. biotite sericite chlorite siliceous matrix py po tr.	py potr	45-50	9à
332								

Remark: cond. explained by intersections.
110-119 intercalated py po streaks 7-8% weak cond.
123-141 graphite slate.

Estimated core recovery 98%
dip test at 56' - 43^{o} 332' = 30^{o}

Scintillometer check : no radio active minerals.


SUD
2N
3N
NORD
1000 Y
Overburden
black Slate to gray Calcareous ...
Sericite argillite
alternating black and gray argillite
REGION 5-60
X = 89E
Y = 8N
1000 Y

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS. SONDAGE No.: W 141 Profondeur: 106' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 45° Commencé le 19-5-70 Machine: Décrit par: S. ESSO

CLAIM: Coord. locales: X= 8400E Y= 1750N Z= Terminé le 21-5-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	Déviations à	Déviations Angle
0	106			Overburden Hole abandoned in overburden.				

JEB. 50086

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: Saussure

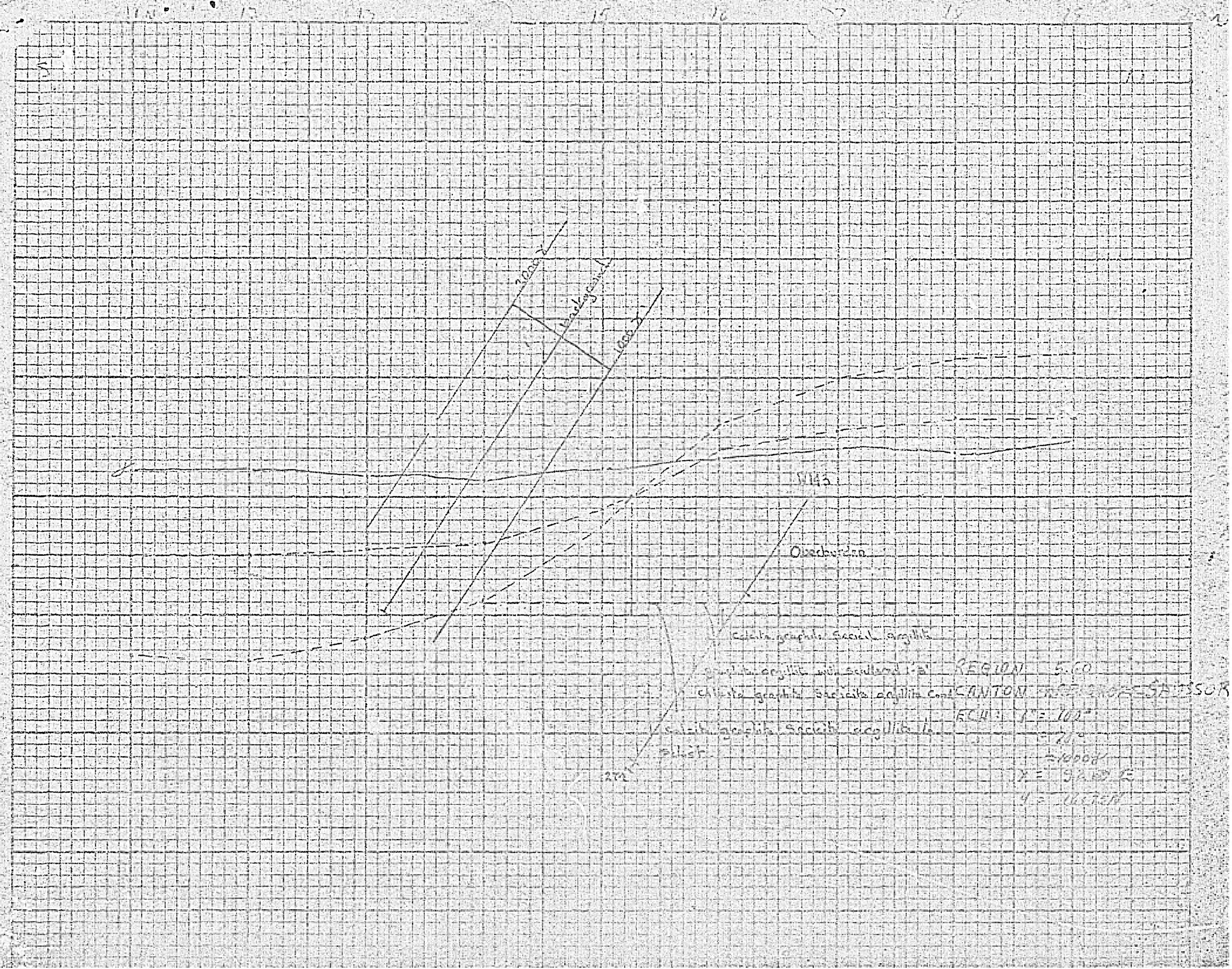
DESCRIPTION SONDAGE

REGION: EAC SONDAGE No.: W 143 Profondeur: 274' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 55° Commencé le 26-5-70 Machine: Décrit par: S. ESSOP

CLAIM: Coord. locales: X= 92E Y= 16+75N= Terminé le 31-5-70 Diam. Forage: EX.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	110	Overburden				
110	150	calcite graphite sericite argillite.	Rock dark grey fine grain to flaky and schistosed at places soapy at places Rock str t. Min. comp calcite graphite sericite siliceous claymatrix py po tr.	py po tr	60°	1-2-3-
150	221	graphite argillite with scattered 1-3' calcite graphite sericite argillite cond.	rock black fine grain rock strat. beds regular to wavy laminated min. comp. graphite calcite py po laminated min. comp. graphite calcite py po sericite clay matrix	py po 2-3%	60	4-5
211	274	calcite graphite sericite argillite to schist.	same as 110-150 except graphite impurities are decreasing and section becomes more schistosed	py po tr	45-50	6-7-8
		REMARK: cond explained by intersection				
150	211	graphite argillite.				
		Estimated core recovery 92%				
		dip test at : nil				
		Scintillometer check No radio active minerals.				


W145
Overburden
REGION
CANTON

JEB. 59006

UNION MINIERE EXPLORATIONS AND MINING COR. .RATION LIMITED

DESCRIPTION SONDAGE

Canton: SAUSSURE

REGION: MAS SONDAGE No.: N 149 Profondeur: 113' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45 South Commencé le 2-6-70 Machine: Décrit par: S. ESSO

CLAIM: Coord. locales: X=96E Y=21N Z= Terminé le 4-6-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0		Hole abandoned	in overburden.			

JED. 50086

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: S-153 Profondeur: 492' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 45° Commencé le 8-6-70 Machine: Décrit par: S. [illegible]

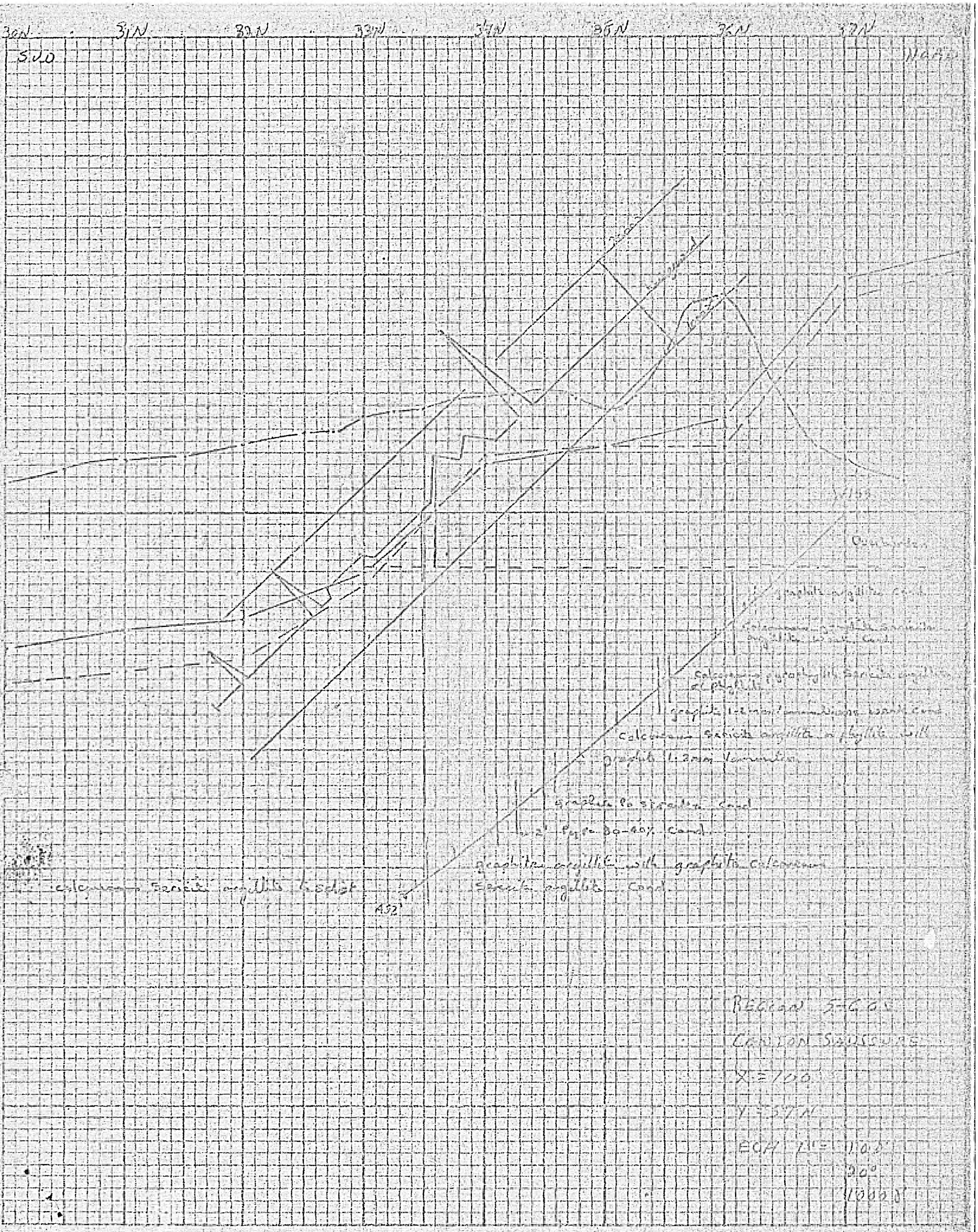
CLAIM: Coord. locales: X= 100E. Y= 37N Z= Terminé le 13-6-70 Diam. Forage: BX.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	67	overburden.				
67	104	graphite argillite cond.	rock black with scattered white streaks fine grain rock strat. beds regular to wavy laminated min. comp. graphite calcite py.	py tr 1%	45	1-2
104	134	calcareous sericite argillite phyllite with graphite 1-5mm lamination weak cond.	rock grey with black streaks fine grain grains scistosed rock strat. min. comp. graphite sericite pyrophyllite carbonate py po	py po 2-3%	40-45	3-4
134	203	calcareous pyrophyllite sericite argillite or phyllite.	rock light greyish green fine grain rock soapy at place. rock strat. and partly schistosed min. comp. pyrophyllite carbonate carbonate sericite minor chlorite local scattered py po bands.	py po 1-7%	40-50	5
203	213	calcareous sericite argillite or phyllite with graphite 1-2mm lamination weak cond.	same as 104- 134	py po 1-2%	"	6
213	339	calcareous chlorite sericite argillite to phyllite with 1-2mm scattered graphite streaks.	same as 104- 134	py po tr 1%	40-45	7-8

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
339	336			calcareous chlorite sericite argillite to phyllite with graphite po streaks cond.	" with increase of graphite and py po	py po 10-2%	40-45	9
3365	339			"	"	1925py po 15-20% cp tr		
339	343			"	"	py po 5-10%	"	10
343	370			calcareous sericite argillite or phyllite with 1-2mm graphite streaks.	same as 104- 134 local scattered po streaks and clusters	py po 3-4%	35	11
370	372							
370	372			" with py po 30-40%cond.	"	1926 py po 30-40%		
372	393			same as 343-370	"	py po 3-4%	30-35	12
393	401			"	"	1927 py po 30%		"
401	413			"	"	py po 1-10%	"	
413	423			graphite argillite with calcareous sericite argillite cond.	rock black alternating with grey bands fine grain rock strat. min. comp. graphite carbonate sericite py po tr	py po tr	"	15-16
423	432			impure graphite calcareous sericite argillite.	rock dark grey fine grain to flaky at places rock strat. min. comp. graphite sericite carbonate py po tr	py po tr	35	17
432	462			graphite argillite cond	same as 67-104	py po tr	35	18
462	466			graphite calcareous sericite argillite with py po streaks to clusters cond.		py po 10-12	35	19
466	492			calcareous sericite argillite to schist	same as 134- 203	py po tr	"	20-23

JEG. 50087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				estimated core recovery 98%			
				dip test at 70=45°			
				Scintéllometer check : No radio active minerals.			


30N
31N
32N
33N
34N
35N
36N
37N
500
graphite argillite cond.
calcareous sericite argillite in phyllite with
graphite 1-2mm laminations
graphite to sericite cond
30-40% cond.
graphite argillite with graphite calcareous
sericite argillite cond.
calcareous sericite argillite schist
A52'
REGION 5-G0S
CANYON SAUSSURE
X=100
Y 537N
EOH

UNION MINIERE EXPLORATIONS AND MINING CORPOR...ION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

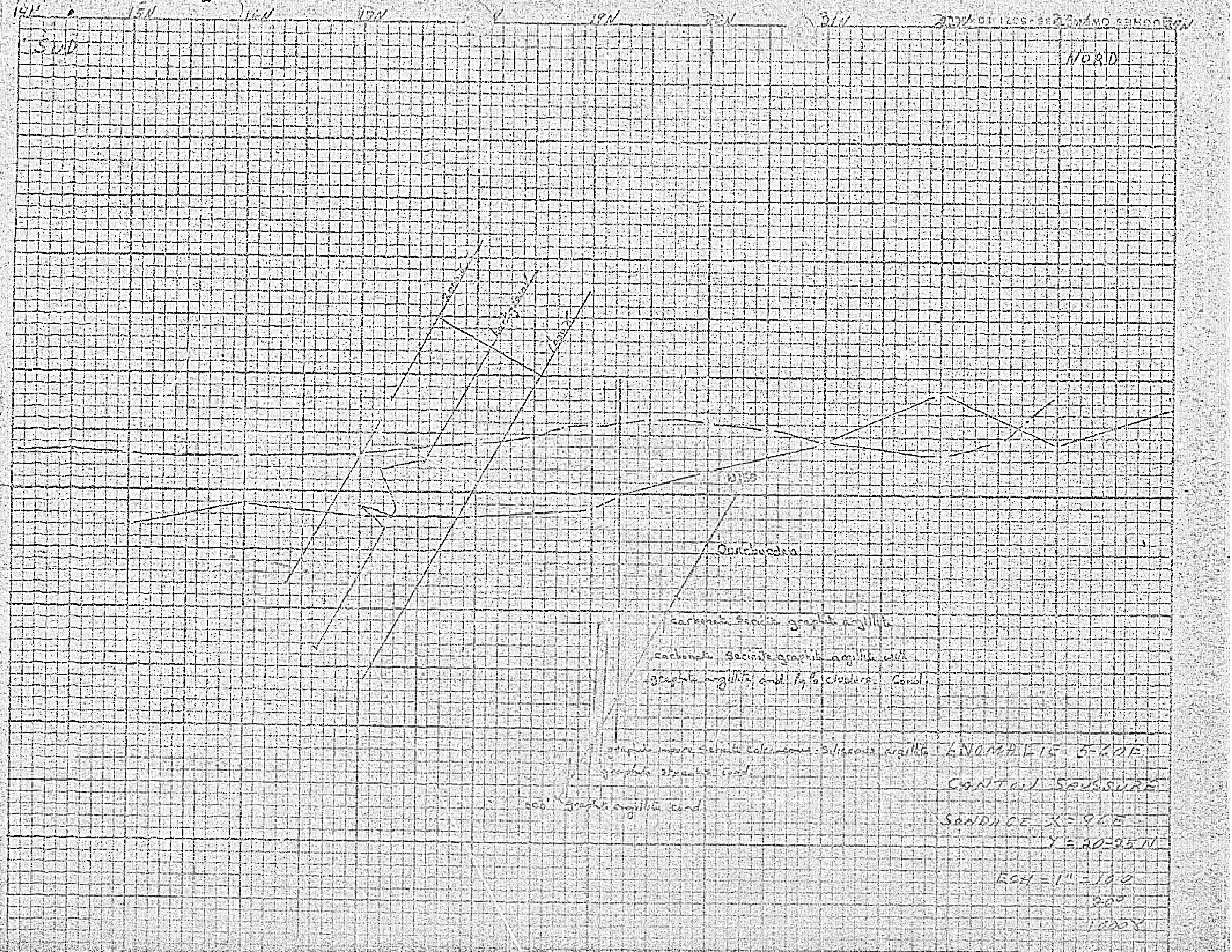
REGION: WAS SONDAGE No.: W 158 Profondeur: 300' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: south 60 Commencé le 15-6-70 Machine: Décrit par: S.ESSOI

CLAIM: Coord. locales: X=96E Y=20+25N Z= Terminé le 22-6-70 Diam. Forage: EX.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	114	overburden				
114	120	carbonate sericite graphite argillite	rock dark grey fine grain rock strat min. comp sericite carbonate graphite claymatrix py po tr.	py po tr	60-65	1
120	128	carbonate sericite argillite with py streak cond.	rock green fine grain rock strat. to partly schistosed min. comp. sericite carbonate chlorite py	1944 py 16-20%	60-65%	2
128	133	carbonate sericite argillite to carbonate sericite graphite argillite	same as 114- 120 and 120- 128	py po tr 1%	60-65	3-4
133	156	carbonate sericite graphite argillite with graphite and py po clusters to streaks cond.	rock dark grey with black streaks to bands fine grain rock strat. beds irregular to wavy min. comp. sericite graphite carbonate clay matrix py po.	py po 10-15%	65-80 65	5-6
156	158	" cond	" 1945	py po20-25		
158	180	"	"	py po 10-12%	45-70	7-8
180	182	"	" 1946	py po 20%	"	
182	197	" cond	"	py po 10-12%	"	9
197	230	graphite impure sericite calcareous siliceous argillite.	rock dark grey fine grain rock strat. rock schistosed mi . comp. sericite graphite carbonate.	py po 1-2%	55-60	10-11

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
230	240	" wit graphite streak to bands cond. "			py po 6-7%	65-70	12-1
240	286			graphite impure sericite same as 197-230	py po 3-2%	50-65	14-15
				calcareous siliceous			
				argillite.			
286	300			" with graphite argillite " except that graphite is increasing	py po 1-2%	55-60	16-
				beds cond.			
300							
				Remark: cond. explained by intersections.			
	120	197		carbonate sericite graphite argillite with graphite argillite			
				py po clusters cond 10-15%			
230	240			graphite argillite			
240	300			graphite argillite			
				Estimated core recovery 90%			
				dip test nil.			
				Scintillometer check : No radio active minerals.			


15N
17N
19N
21N
SUD
NORD
Overburden
carbonate sericite graphite argillite
carbonate sericite graphite argillite with
graphite argillite and Py Po clusters. Cond.
graphite argillite cond.
ANOMALIE 5-ZOE
CANTON SAUSSURE
SONDAGE X=96E
Y=20-25N

Qué. 47793

126P+4C

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: Laribourde

DESCRIPTION SONDAGE

REGION: WAS. SONDAGE No.: W 33 Profondeur: 672' Foré par: B. NOIT.

ANOMALIE: 5.60 DIR. et INCL.: 800NW Nord 45° Commencé le 24-9-69 Machine: Décrit par: R. Vandenhirtz.

CLAIM: 281302-1 Coord. locales: X= 800W Y= 450S Z= Terminé le 30-9-69 Diam. Forage:

Profondeur de	Profondeur à	Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
0	82	Recouvrement	N.B. 78-82 BOLDERS.			
82	99^{6}	Schiste calcogrèseux micacé sédiments.	Schiste gris clair à grain fin très régulièrement et fin't stràtifié fin't grèseux quartz feldspath abondants calcite éléments sombres (amphiboles?) mica (biotite).	rares tr py	35°	1
99^{6}	100^{9}	calcschiste chloriteux	schiste rubané vert et blanc, à stratification fluidale alternances lits 3 mm/ calcite et chlorite. Un peu de biotite.	stérile		2
100^{9}	103	calcschiste sériciteux	schiste gris vert et blanc stratification légèrement fluidale alternances lits 1 m/m calcite et séricite (points un peu talqueux)	stérile	40°	3
103	139^{6}	schiste calco-grèseux	schiste id. 82- 99^{6} tr py oxydée	tr py	45°	4
139^{6}	142	schiste siliceux	schiste gris à gris foncé très fin très fin't et régul't stratifié quartz un peu de calcite et biotite	stérile		5
142	206^{8}	schiste calco-grèseux biotite.	id. 82-99^{6} N.B. à partir de172 biotite plus abondante	rares tr py	45°	
206^{8}	208	calcschiste chloriteux	schiste vert et blanc stratifié régul't mais lenticulaire alternance lits 2 mm calcite et chlorite	stérile	50°	6
208	212	calcschiste grèseux	schiste très fin très fin't et régul't stratifié gris blanc à grès foncé rubanage dû à la biotite calcite quartz biotite.	stérile		7

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
212	228	calcschiste micacé	schiste blanc et brun vert à grain moyen mal stratifié lenticulaire alternance lits calcite séricite et biotite M.B. à 227 1" fracture quartz	stérile		8
228	235^{8}	Roche métamorphique	roche verte et brune massive ou local't mal stratifiée à grain moyen phénocristaux abondants de pyroxène (augite?) partiellement altérés en biotite dans pâte calcite chlorite quartz.	stérile		9
235^{8}	249^{6}	calcschiste à biotite	schiste blanc et brun mal stratifié à lenticulaire à grain moyen calcite biotite et qq. cristaux feldspaths	stérile	25°	10
249^{6}	250	roche métamorphique	Roche verte assez dure fin't grenue mal feuilletée calcite chlorite amphiboles grenats abondants	tr py oxydé		11
250	298	schiste calco-grèseux à biotite	id. $142\text{-}206^{8}$ 8	tr	35°	
298	301^{5}	calcschiste à biotite	id. $235^{8}\text{-}249^{6}$ en fin de passes fracture 2" quartz et 2" biotite pratiquement massive.			
301^{5}	307	schiste siliceux	schiste gris clair très fin't et régul't stratifié à points plats à grain très fin très siliceux peu de calcite rubanage qq. lits à biotite.	stérile		12
307	307^{2}	quartz				
307^{2}	307^{3}	chlorit massive.				
307^{2}	316	schiste calco grèseux à biotite.	id. $142\text{-}206^{8}$	stérile.		
316	319	schiste grèseux et noir	schiste id. $142\text{-}206^{8}$ avec bancs 2-3 cm schiste très fin noir très fin't et régul't stratifié un peu cond. (tuf? schiste cH-graphiteux ?) Sulfures en fins lits et imprégnations.	tr po py cp bl.	35°	13

JEC. 47754

W 33-3

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
319	338	schiste calco-grèseux				
		à biotite	id. 142- 206^{8} avec qqé passes à biotite +abondante	stérile		
338	339^{2}	calcschiste à biotite	id. 298-301^{5}			
339^{2}	427	schiste calco-grèseux à	id. 142-206^{8} avec qq. passes 10cm calcschiste			
		biotite	chloriteux et calcschiste à biotite vers 370			
			petits bancs chlorite à phénocristaux de biotite	stérile	30°	14-
						15-16
427	427^{5}	calcschiste chloriteux	id. 206^{8}-208			
427^{5}	428^{5}	veine quartz calcite				
428^{5}	429^{2}	calcschiste chloriteux	"			
429^{2}	439^{7}	schiste calco-grèseux				
		à biotite	id. 319-338	stérile		
439^{7}	443^{8}	calcschiste chloriteux	altérnances bancs à prédominance chlorite ou			
		à biotite	biotite type 206^{8}-208 298 à 301^{5}			
443^{8}	462	schiste calcö grèseux	id. 142-206^{8}	stérile	30	17
462	481	à biotite				
462	481	calcschiste à biotite	id. 298-301^{5}	stérile		18
481	483	calcschiste grèseux	id. 208- 212- lits et imprégnations po	2% po	25°	19
483	484	calcschiste à biotite	id. 298-301^{5}			
484	487	calcschiste grèseux	id. 208-212 "	2% po		
487	502	schiste graphiteux	schiste rubané gris clair et noir très fin très			
		cond.	fin't et régul't strat. (rarement onduleux ou			
			entrecroisé)alternance lits graphite calcite et			
			passes calcogrèseuses Imprégnations et lits sulfures.	1258	20°	20
			490-492^{5}	2%po trpy cp bl.		
			502	3% py po .		
			micacé (séricite-biotite).			

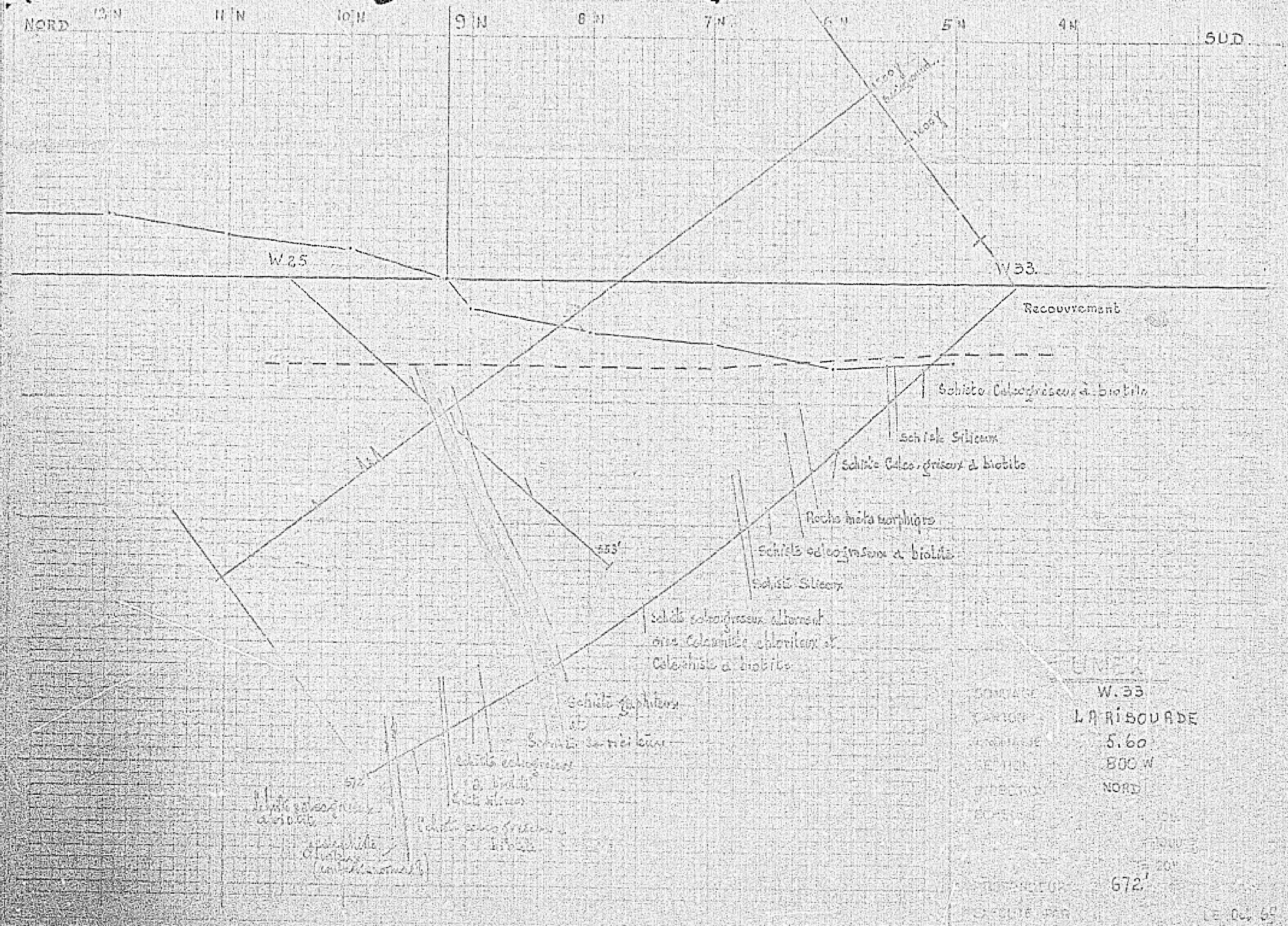
Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
502-506		Schiste séririciteux	schiste assez mal stratifié gris clair verdâtre	1259 4% py po		21
			onduleux à grain fin séricite calcite quartz			
			sulfures en lits et imprégnations.			
506	507	" " avec sulfures	id. 502-506	1260 2% py po tr		22
		massifs conducteur.		cp bl.		
507	508^5	schiste séririciteux	id. 502-506	1261 1% py		
508^5	509^5	" sulfures massifs	id. 506-507	1262 20% py po tr		
		conducteur.		cp bl.		
509^5	511^5	schiste séririciteux	id. 502-506	1263 2% py po		
511^5	512^4	" sulfures	id. 506-507	1264 10% py po		
		cond. faible		cpbl .		
512^4	514^6	schiste séririciteux	id. 502-506-	1265 2% py po		
514^6	515^5	schiste graphiteux cond.	id. 487-502	1266 2% py po		
515^5	512^4	" +sulfures cond faible)				
515^5	516^8	schiste séririciteux	id. 502-506- avec lits bl	1267 bl tr py po	cp	
516^8	518^2	schiste graphiteux	id. 487-502	1268 2% py po tr	bl cp	
518^2	519^2	sulfures massifs cond.		1269 50%py po bl	cp	23
519^2	563^2	schiste graph. cond faible	id. 487-502	1270 1% py po		
563^2	567	schiste grèseux	bancs de schiste siliceux id.139^6-142 alternant	3% py po	30°	24
			avec passes schiste séririciteux et schiste chlo-	rares tr bl.		
			ritogrèseux py po en fins imprégnations peu			
			calcareux.			
567	572	schiste grèseux à calcite	roche id. 502-506 imprégnations et rares			
		et séricite	lits assez calcareux sulfures	2% py po		25
572	590	calcschiste à biotite	id. 235-249			
590	590^5	quartz.				
590^5	594	calcschiste à biotite	id. 235^8 249^6			

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
594	596^8	schiste siliceux	id. 301^5 à 307 strat. parfois entrecroisée		35°	26
596^8	598^4	quartz	avec débris chloriteux			
598^4	612	calcschiste à biotite	id. 235^8-249^6			
612	647	schiste calcogrèseux				
		micacé	id. 82- 99^6 biotite + abondante cristaux de			
			feldspath (albitisation)en fin de passes			27
647	653^7	calcschiste chloriteux	id. 206^8 208 contacts anormaux			
653	661^3	schiste calco grèseux				
		micacé id.	id. 82-99^6 mais biotite + abondante(séritite?)		20°	28
661^3	666	calcschiste chloriteux	id. 206^8-208 biotite			
666	672	schiste calcogrèseux				
		micacé	id. 82-99^6			
		Examen scintillomètre	néant			
		mesures de déviation	100' 42° 200' = 42° 300' = 40°			
			400' = 37° 30' 500' = 34° 600' = 32°			
			660' = 28°			
		RESUME:				
		sédiments,				
0	82	Recouvrement				
82	139^6	schiste calco grèseux à biotite			45°	
	142	schiste siliceux				
	228	schiste calcogrèseux à biotite			50°	
	250	roche métamorphique phenocristaux augite (?) altéré au biotite				
	250	301^5	schiste calco grèseux à biotite		35°	
	307	schiste siliceux				
	487	schiste calco grèseux alternant avec calcschiste chloriteux et à biotite			30°	
	563^2	Schiste graphiteux et sériciteux cond		2-50% py po	tr bl cp.	

4EB. 47793

N 53-8

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			sulfures massifs de 506 à 507			
			508 609^{5}			
			518 519^{2}			
	594	schiste calcogrèseux à biotite			30°	
	596^{4}	schiste siliceux			35°	
	598^{4}	quartz				
	647	schiste calcogrèseux à biotite				
	653^{7}	calcschiste chloriteux en contact anormal				
	672	schiste calco grèseux à biotite			20°	


NORD
12 N
11 N
10 N
9 N
8 N
7 N
6 N
5 N
4 N
SUD
W.25
W.33
Recouvrement
Schiste Calcogréseux à biotite
Schiste Siliceux
Schiste Calco-gréseux à biotite
Roche méta morphique
Schiste calcogréseux à biotite
Schiste Siliceux
553'
672'
W.33
LA RIBOURDE
5.60
800 W
NORD
672'

JEB 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: La Ribourde

DESCRIPTION SONDAGE

REGION: W.S. SONDAGE No.: W 36 Profondeur: 353' Foré par: BENOIT

ANOMALIE: 5.60 DIR. et INCL.: North 45° Commencé le 29-9-69 Machine: Décrit par: S. Essop

CLAIM: ~~287420-4~~ 194-3 Coord. locales: X=2600W Y=1555 Z= Terminé le 2-10-69 Diam. Forage: AXT.

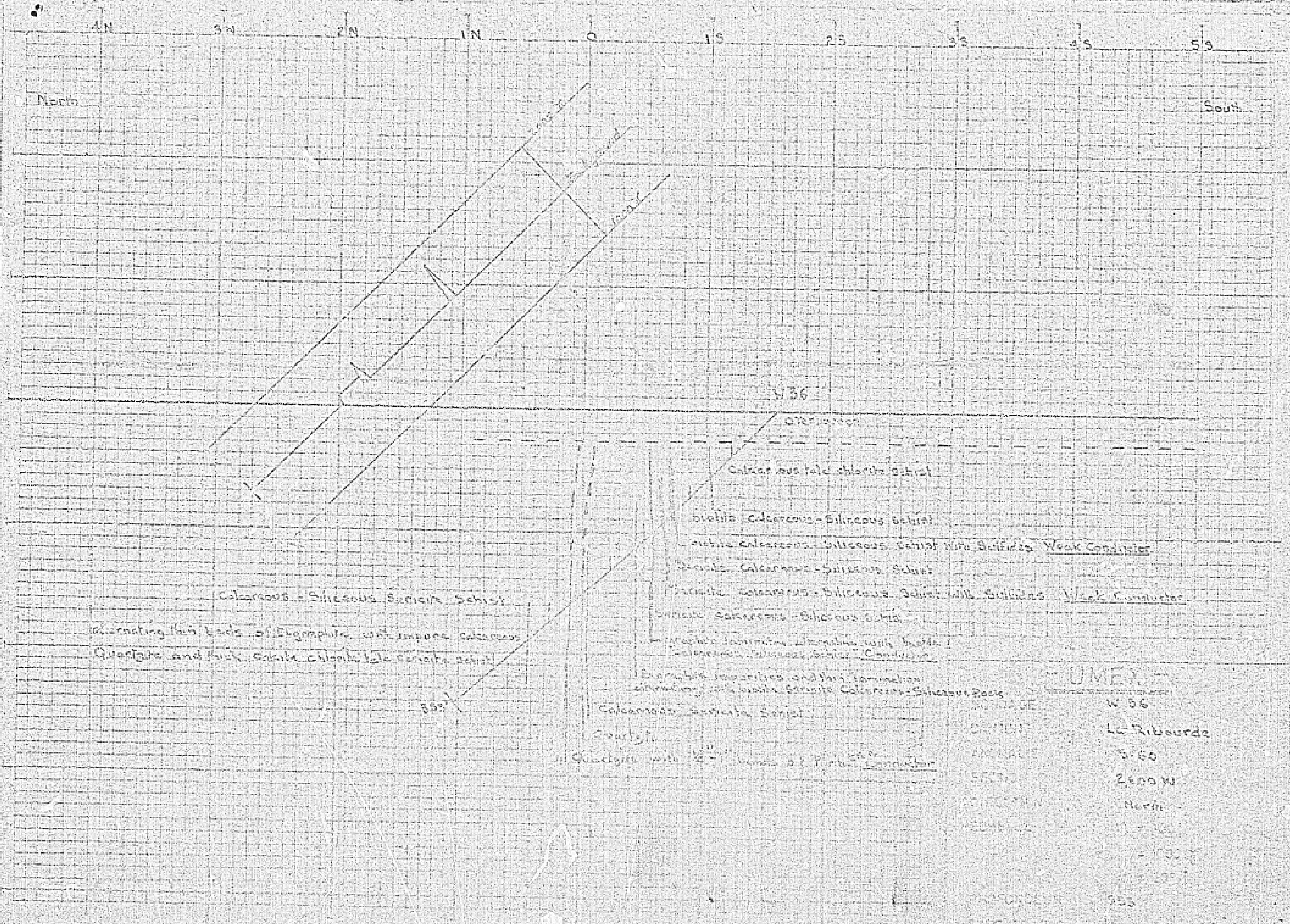
Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	30	Overburden				
30	45	calcareous talc chlorite schist.	Rock green with brown micaceous specks Fine grain. Grains schistosed hardness 2½ 5. Rock stratified with schistosed planes. Alteration Rock metamorphosed. Origin sedimentary. Mineral components chlorite calcite biotite talc tr of quartz feldspar and py tr 6°. Biotite schist bed at 36⁶-37.	tr py	45°	1
45	62	calcite biotite chlorite pelitic low grade schist.	Rock green with brown and white specks Fine to medium recrystalized grains and foliated biotite grains Rock appears to be poorly stratified. With calcite calcitic bands or fracture fillings. Rock metamorphosed .Chlorite calcite biotite quartz feldspar and talc tr. N.B. From 56-62 grains are better to a gradual contact.	no min	45°	2
62	73	Chlorite calcareous siliceous sandstone.	Rock greenish brown with shades of brown Fine to medium grain with many recrystallized crystalline phenocryst or porphyry blast? Rock appear at places Rock stratified with schistosed plane.Mineral components biotite calcite quartz feldspar chlorite.	no min	45	4

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
73	121 5	biotite calcareous siliceous schist.	Rock greyish brown greyish blue quartz bands at places. Fine to medium grain Grains schistosed and crystalline Rock stratified lamination wavy and irregular at places. Rock metamorphosed sedimentary origin. Mineral component quartz calcite biotite chlorite feldspar Quartz stringers and veinlets	py po tr ½%	35-40	5-6
121 5	122	" with sulfides weak conductor.	"	1331 py po 10-12%	"	7
122	128	sericite calcareous siliceous schist.	same as 73-121 5 biotite decreases and sericite increase in this section	py po tr ½%	35°	8
128	130	sericite calcareous siliceous schist with sulfides weak conductor.	min. pyrrhotite are interbedded ½ mm veinlets with chalcopyrite association	1332 py po 7-10% cp ½%	35°	9
130	138	sericite calcareous siliceous schist.	"	py po tr ½%	40°	10
138	139	graphite lamination alternating with biotite calcareous siliceous schist conductor	" except for graphite beds	py po 1-2%	40°	11
139	155	ex-graphite impurities and thin lamination alternating with biotite sericite calcareous siliceous schist.	"	py po tr ½%	35°	12
155	216	(ex-graphi)calcareous sericite schist	same as section 73-121 except biotite is generally absent and section is more calcareous and only becomes siliceous near the end.	py po tr ½%	40°	13-14

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
216	220[6]	quartzite	rock white grey with blackish grey and green streaks Rock crystalline hardness 5 7. Rock cherty rock stratified with regular evenly laminated beds. Rock metamorphosed sedimentary origin. Mineral components. Quartz tr of py talc chlorite and feldspar.	py po tr	50-55	15
220[6]	222[3]	quartzite with ½"-1" bands of py and po tr. Cond.	" py bands are interbedded and alternating at irregular sequence.	py po 10%	50-55	16
222[3]	224	"	"	1333 py po 10-12%	50-55	17
224	226	"	"	py 7-8	55	18
226	232	Quartzite	same as section 216-220[5]	py po tr	55	19
232	277	calcareous siliceous sericite schist.	same 155-216 except that there is more siliceous mineral	py po tr ½%	50	20
277	288 e	alternating thin bed of ex-graphite with impure calcareous quartzite and thick calcite chlorite talc sericite schist.	a) rock alternating black and grey green bands fine grain to crystalline Rock regular and evenly laminated Rock metamorphosed. Mineral components ex-graphite quartz feldspar calcite po tr.	py po tr	40-45	21
			b) Rock greyish green Rock fine grain to crystalline and partly fibrous Rock stratified with schistosed plane Mineral components quartz feldspar chlorite talc calcite.	py po tr	40-45	23
288	319	calcite chlorite talc sericite schist.	same as b) 277-288	py po tr .25%	40	24
319	325	alternating thin beds impure calcareous quartzite and calcite chlorite talc sericite schist.	same as 277-288 ex-graphite generally absent.	py po tr	40-35	25

JEB. 47794

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
325	353	calcite talcy sericite schist	same as 277-288 except that biotite	py po tr	30-40	26
		to biotite calcareous	increases and sericite decreases.			
		siliceous schist.				
		Estimated core recovery	96%			
		Dip test at	150' =43°			
			345' =40°			
		Scintillometer check	No radio active minerals.			
		SUMMARY:				
0	30	Overburden				
30	73	calcareous talc chlorite schist		tr py	45°	
73	121.5	biotite calcareous siliceous schist		py po tr ½%	35-40	
121.5	122	biotite calcareous siliceous schist with sulfides weak cond		py po 10-12%	"	
122	128	sericite calcareous siliceous schist		py po tr ½%	35°	
128	130	sericite calcareous siliceous schist with sulfides weak cond.		py po 7-10%	35°	
				cp ¼-½%		
130	138	sericite calcareous siliceous schist		po py tr ½%	40°	
138	139	graphite lamination alternating with biotite calcareous siliceous schist		py po 1%	40	
		conductor.				
139	155	ex-graphite impurities and thin lamination alternating with biotite sericite				
		calcareous siliceous rock.		py po tr ½%	35°	
155	216	calcareous sericite schist		py po tr ½%	40	
216	220	quartzite		py po tr	50-55	
220	232	quartzite with ½" bands -1" of py cond.		py po 10%	50-55	
232	277	calcareous siliceous sericite schist		py po tr ½%	40-45	
277	353	alternating thin beds of ex- graphite with impure calcareous quartzite				
		and thick calcite chlorite talc sericite schist beds.		py po tr	40-30	



4N
3N
2N
1N
0
1S
2S
3S
4S
5S
North
South
W36
Calcareous talc chlorite schist
Biotite Calcareous - Siliceous Schist
Calcareous - Siliceous Schist with Sulfides Weak Conductor
Calcareous - Siliceous Schist
Calcareous - Siliceous Schist with Sulfides Weak Conductor
Calcareous - Siliceous Schist
Conductor
Calcareous - Siliceous Rock
Calcareous Sericite Schist
Quartzite
Conductor
Calcareous - Siliceous Sericite Schist
Quartzite and thick calcite chlorite talc sericite schist
UMEX
W 36
La Ribourde
2600 W
North

JEB. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: La Ribourde

REGION: WAS SONDAGE No.: W 38 Profondeur: 641' Foré par: BENOIT

ANOMALIE: 5-60 DIR. et INCL.: 45° North Commencé le 4-10-69 Machine: Décrit par: S. Essa

CLAIM: 284394-4 Coord. locales: X=1600W Y=450S Z= Terminé le 9-10-69 Diam. Forage: AXT.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	100	Overburden				
100	119	biotite calcareous siliceous schist.	Rock grey with whitish specks Fine grain with medium recrystallized foliated grains Grains are schistosed. Rock appears to be stratified with schistosed plane. Rock metamorphosed Sedimentary Origin Mineral components quartz feldspar calcite biotite chlorite tr py .	tr py	35-40	1
119	133	biotite calcareous siliceous ~~Spotted~~ schist.	Same as section 100- 119 except ~~grains~~ there are larger and coarser recrystallized grains of quartz feldspar. These grains are eliptical and foliated.	py tr	35-40	2
133	138	calcareous quartzite	rock has alternating regular grey and dark grey bands Fine to crystalline Rock cherty ? Rock regular stratified Rock metamorphosed quartzite shale? Mineral compone ts calcite quartz mica feldspar chlorite.	py tr	40	3
138	182	biotite chlorite calcareous siliceous ~~Spotted~~ schist.	same as section 119-133 chlorite increases at places. Core brokenrecovery 60%	No min.	40°	4

JED. 47794

W 38-2-

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
182	217	metamorphosed intrusive pyroxenite dike?	Rock green with black phenocrystic specks medium fibrous grains. There are ~~cement~~ remanant metamorphosed grains. Rock is massive. Contact slightly chilled 3" wide Rock metamorphosed and greatly altered biotite calcite, amphibole. chlorite pyroxene	no min	40	5
217	229	metamorphosed sedimentary rock?	Rock green with brownish sheen with shades of black and white specks. Fine to medium crystalline to orphitic and fibrous. Rock schistosed poorly stratified. metamorphosed rock mineral component chlorite feldspar quartz calcite mica py tr.	no min	6-7	6-7
229	241^{3}	metamorphosed graywacke?	rock dark grey with white spots. Fine to medium grain with porphyritic texture, grains foliated Rock poorly stratified. Rock metamorphosed sedimentary origin. Quartz feldspar mica calcite.	no min	30-35	8
241^{3}	243^{3}	calcareous chlorite schist alternating with quartz veins.	Rock green with white bands. Fine to medium grain grains foliated Quartz crystalline Rock stratified Mineral component calcite chlorite sericite quartz.	no min	30-35	9
243^{3}	258	mica calcareous siliceous schist.	Rock grey with white specks Fine to medium grain. Rock poorly stratified in sections core broken recovery 65% Quartz feldspar mica calcite.	no min	30-35	10
258	261^{5}	261^{5} mica chlorite.	rock green with brownish sheen grains fine and fibrous rock appears to be massive Rock metamorphosed mineral components chlorite sericite calcite quartz stringers.	no min		11
261^{5}	280	biotite calcareous siliceous spotted schist, mica impure quartzite	Same as 119--133 with 2' of interbedded impure	no min	30-35	12

JEB.•47794

W-33-3-

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
280	287	alternating bands of ex-graphite mica calcareous siliceous schist with sulfide streaks. Possible weak cond.	Rock has alternating greyish black and greenish grey bands. Fine grain Rock stratified with regular even alternating beds. Quartz feldspar calcite mica ex-graphite py and po. min. scattered mm 1 mm bands of py pyrrhotite interbedded veinlets.	py po 5%	30	13
287	292	ex-graphite impurities with mica calcareous siliceous schist.	same as section 280-287 except ex-graphite and py po decreases.	py po tr ½%	30	14
~~292~~	~~[illegible]~~					
292	301	sericite calcite talc chlorite schist.	rock light green with white streaks fine to medium grain Grains foliated. Rock appears to be stratified with schistosed plane Rock metamorphosed. Calcite chlorite talc and sericite.	no min	20-35	15
301	364	scattered ex-graphite bands with alternating sericite calcareous siliceous schist and calcareous quartzite.	rock same as section 280-287 and 133-138	py tr	25-30	16-17
364	379^6	mica siliceous schist to chlorite schist.	Rock greenish grey with white specks fine to medium grain Flaky at places Rock schistosed Rock metamorphosed mineral components chlorite mica calcite section siliceous near the beginning and gradually becomes more chloritic near the end of the section.	no min	30	18
379^6	390	mical calcite feldspar amphibole chlorite dike?or sill?	Rock greyish green with white and green phenocryst medium to flaky and fibrous grain remanents of phenocryst of amphiboled Rock massive. Rock metamorphosed	no min	30	19

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			origin possible intrusive dike? mineral components feldspar chlofite calcite mica and quartz tr.			
390	397^5	mica chlorite to siliceous schist.	same as section $364-379^6$ chlorite decreases and siliceous mineral increases.	no min	25	20
397^5	401	impure calcareous quartzite.	same as section 133-138	py po tr	25	21
401	473^6	biotite sericite schist.	Rock greyish brown with shades of green fine to medium grain grains flaky rock schistosed rock metamorphosed origin sedimentary mineral components biotite sericite calcite chlorite feldspar tr.	no min	20-25	22-[illegible]
473^6	486	alternating thin beds of ex-graph. with impure calcareous quartzite and mica schist.	rock has alternating bands of black greyish black and greyish brown. Fine grain with flaky and crystalline grains at places. Core blacky poor recovery rock stratified. Mineral components calcite ex-graphite quartz mica feldspar sericite talc? chlorite py po tr.	py po tr ½%	20-25	24-2[illegible] 26-
486	486^7	graphitic slate cond.	rock black and cleavable fine grain rock stratified	no min	20	27
486^7	500	ex-graphite with impure calcareous quartzite.	same as section 473^6-486 except mica schist bands are absent and ex-graphite grades into the impure calcareous quartzite.	py po tr½%	20	28
500	517	massive sulfides py po with thin beds of calcareous quartzite and sericite conductor.	rock grey with metalic bronze luster Fine grain with massive metalic cubic grains. Rock strat. mineral components quarts calcite sericite feldspar py po cu zn ag.	cu.66% zn 2.85% ag o.81%		
			cu% zn% ag oz/Ton.			
			500 - 500^5 0.05 tr 0.02	1312		
			500^5 501 0.93 0.30 0.43	1313		
			501 502 0.10 0.45 0.38	1314		

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			503^{7} 0.08 nil 0.08	1315		
			504^{4} 0.87 0.45 0.36	1316		
			505^{4} 0.73 0.60 0.59	1317		
			506^{5} 0.20 0.60 0.56	1318		
			508 1.75 0.40 0.87	1319		
			508^{9} 0.43 3.80 1.18	1320		
			511^{7} 1.33 1.05 0.75	1321		
			513^{7} 0.23 9.40 1.56	1322		
			514^{5} 0.20 9.85 1.60	1323		
			515 0.95 1.05 0.48	1324		
			516 0.58 9.15 1.43	1325		
			517 0118 0.20 0.10	1326		
517	522	522 ex-graphite impurities with calcite impure quartzite.	same as 286-500 except calcite is decreasing	py po tr ½%	40-45	29
522	525	quadtzite to calcareous talc quartzite	same as 133- 138 except colour is a little greener more talc and ½mm veinlets py po scattered throughout the section.	py po 1-2% 1354	35-40	30
525	527	"	" 8	py po 3% sl tr .25% cp tr.	35040	31
527	535	"	"	py po 1-2%	30-35	32
535	547	mica schist with 12-18" beds of calcareous talc quartzite.	rock brownish grey fine grain to flaky rock schistosed mineral components biotite calcite feldspar quartz sericite chlerite.	py po tr ½%	35	33
547	574	biotite schist alternating with impure graphitic	a) rock grey green grains fibrous and schistosed. Rock metamorphosed chlorite sericite quartz. calcite.	py po tr.25%	35	34-35 36-

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
		pigmented calcareous siliceous sandstone.	b) same as 133-138 except more impurities			
574	621	metamorphosed biotite chlorite siliceous sandstone with thin chlorite beds.	rock same as section 119-133 except grains are not schistosed as well.	py po tr	35-40	38-37
621	641	calcite talc chlorite schist alternating with thin calcareous siliceous beds.	rock greyish green rock fine grain to fibrous doapy to touch. Rock metamorphosed. Mineral component talc chlorite quartz calcite albitized feldspar.	py po tr	35-40	39-40
		Estimated core recovery	95%			
		scintillometer check	No radio active minerals.			
		Dip test at	100' = 48°			
			200' = 39°			
			300' = 39°			
			400' = 32°			
			500' = 31°			
			600' = 30°			
		SUMMARY:				
0	100	10 Overburden				
100	182	biotite calcareous siliceous schist		py tr	35-40	
182	217	metamorphosed intrusive pyroxenite dike?		no min	40	
217	243^3	080amorphosed graywacke?		no min	30-35	
243^3	280	mica calcareous siliceous schist		no min	30-35	
280	287	alternating bands of ex-graphite mica calcareous siliceous schist with sulfide streaks possible weak conductor.		py po 5%	30	
287	364	ex-graphite impurities with biotite sericite calcareous(siliceous)schist and calcareous quartzite beds.		py po tr ½%	20-25	

JEB. 47794

W 30-?-

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
364	379[6]	mica siliceous schist to chlorite schist		no min	30	
379[6]	390	mica calcite feldspar amphibole chlorite dike or sill?		no min	30	
390	473[6]	biotite sericite schist with thin beds of impure quartzite		no min	25	
473[6]	485	alternating thin beds of ex-graphite with impure calcareous quartzite and mica schist		py po tr	20	
486	486[7]	graphitic slate conductor.		no min	20	
486[7]	500	ex-graphite with impure calcareous quartzite		py po tr ½%	20	
500	517	massive sulfides py po with thin beds of calcareous quartzite and sericite conductor	cu-.66% zn 2.85% ag-.81%			
517	547	ex-graphite impurities with calcareous talc quartzite and mica schist		py po tr 3%	35°	
547	641	biotite schist alternating with impure graphitic pigmented calcareous siliceous sandstone thin chlorite beds and calcite talc schist beds.		py po tr	35°	

NEB. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

C nton: La Eibourde.

DESCRIPTION SONDAGE

REGION: Waswanipi SONDAGE No.: W - 52 Profondeur: 805' Foré par: Benoit Diamond Drillin

ANOMALIE: 5.60 DIR. et INCL.: 70° - N50th. Commencé le 2/11/69 Machine: Décrit par: S. Essop

CLAIM: Coord. locales: X=1600 W Y=450S Z= Terminé le 11/11/69 Diam. Forage: Axt.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	90	Overburden.				
90	122	Biotite calcareous siliceous schist.	Rock grey with brownish specks. Fine grain Grains are schistosed rock stratified with schistosed plane. Core blocky recovery poor 50%. Lost core 10' 105-115. Mineral components Biotite, calcite, chlorite, quartz, feldspar.	No Min.	65-70	1
122	123	Quartzite with calcite filings.	Rock grey. Fine grain to crystalline. Rock stratified. Mineral components - biotite, calcite, chlorite, quartz, feldspar.	No Min.	65°	2
123	136	Biotite calcareous siliceous schist.	Rock grey with brownish foliated speck and shades of light green. Fine grain. Fine grain schistosed. Rock stratified. Mineral components - biotite, calcite, chlorite. Quartz, feldspar, scattered py traces.	No min.	65°	3
136	139	Quartzite with calcite fillings.	Rock grey with brown small specks. Fine grain to crystalline. Rock stratified with regular thin alternating beds. Mineral components - calcite, biotite, quartz, feldspar, sericite.	No Min	60-65	4

JEB. 46248

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
139	165			Feldspar porphyry biotite chlorite calcareous siliceous schist.	Rock grey withbrown and green shades. Fine grain. Matrix grain are schistosed with albitised feldspar, porphyry. Rock stratified beds appear to be graded. Mineral components. Quartz chlorite biotite feldspar, calcite and sericite.	No Min Py tr.	65°	5
165	172			Chlorite schist to biotite chlorite schist.	Rock green with brown speck. Fine grain to flaky. Grains schistosed rock stratified. Mineral components chlorite quartz biotite calcite sericite quartz stringers.	No Min	65°	6 7
172	178			Fine biotite schist.	Rock grey with brownish sheen. Fine grain. Rock schistosed quartz, chlorite biotite and calcite.	No Min	65°	8
178	182			Calcite flaky biotite schist.	Rock green with white calcite spots and specks. Fine grain to flaky. Rock schistosed Mineral components calcite biotite chlorite sericite quartz feldspar.	No Min	65°	9
182	188			Biotite quartzite with calcite fracture fillings	Rock grey with brownish shades. Fine grain to crystalline biotite grains are foliated. Rock stratified regular alternating beds. quartz, feldspar, biotite, calcite.	No Min	65°	10

ER. 46248

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
188	192			Calcite chlorite biotite schist.	Rock green with brownish sheen with white specks. Fine grain to flaky. Rock schistosed calcite biotite chlorite talc? quartz.	Py tr.	65°	11
192	204			Calcite biotite chlorite schist.	Rock greenish grey with brownish streak and sheen. Fine grain. Rock schistosed. Chlorite, biotite, calcite sericite	No Min - Py tr.	60-65	12
204	218			Calcite biotite sericite schist.	Rock grey with brownish streaks and sheen. Fine grain. Rock schistosed. sericite calcite biotite chlorite quartz.	No Min. Py tr.	65°	13
218	229			Flaky calcite chlorite biotite sericite schist.	Rock light, green with white and brown foliated biotite streaks. Fine grains to flaky. Rock stratified with schistosed plane. Quartz veinlets at places. rock hardness 3 - 4 soapy at places quartz chlorite calcite sericite brotite talc.	No Min.	65°	14
229	231			Feldspar porphyry biotite chlorite calcareous siliceous schist.	Rock grey with albitized feldspar specks. Fine grain to flaky with phenocryst of feldspar. Grains schistosed. Rock stratified. Mineral components biotite chlorite feldspar quartz calcite.	No Min	65°	15

JEB. 46240

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
231	232			Quartz vein.	Quartz vein chloritic impureties.	No Min		16
~~232~~	~~235~~			~~Flaky calcite chlorite biotite sericite schist.~~	~~Rock light green to grey with white and brown foliated biotite streaks. Grain fine to flaky. Rock stratified with schistosed plane. Rock hardness 3 - 4 soapy at places. Quartz chlorite calcite sericite biotite talc.~~	No Min	65°	17
~~235~~	~~246~~			~~Biotite chlorite calcareous siliceous schist.~~	~~Rock grey with shades of green. Fine grain with schistosed grain. Rock stratified mineral components biotite chlorite feldspar quartz calcite.~~	~~No Min Py tr.~~	65°	18
~~246~~	~~250~~			~~Dark grey impure quartzite.~~	~~Rock dark grey fine grain. Rock stratified. Mineral components sericite biotite calcite quartz feldspar.~~	~~No Min~~	65°	~~19~~
~~250~~	~~252~~			~~Flaky calcareous biotite schist.~~	~~Rock brown with white streaks. Fine grain to flaky. Rock schistosed biotite calcite quartz.~~	~~No Min~~	60-65°	~~20~~
~~252~~	~~253⁵~~			~~Grey quartzite.~~	~~Rock grey fine grain to crystalline roch schistosed biotite calcite quartz.~~	~~No Min.~~	60-65	~~21~~

JEB. 46248

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
~~253⁵~~	~~288~~			~~Feldspar porphyry biotite chlorite calcareous siliceous schist~~	~~Rock grey with albitised feldspar specks. Fine grain with phenocryst of feldspar. Grain schistosed. Rock stratified. sedimentary origin. Mineral component biotite chlorite feldspar quartz calcite.~~	~~No Min.~~	~~60-65~~	~~22~~
~~288~~	~~300~~			~~Fine chlorite biotite schist alternating with thin impure quartzite beds.~~	~~Rock dark grey with brownish sheen bands. Fine grain. Grains schistosed. Rock stratified. biotite chlorite calcite feldspar quartz.~~	~~No Min.~~	~~60-65~~	~~23~~
~~300~~	~~332~~			~~Feldspar porphyry with biotite calcareous siliceous schist~~	~~Rock dark grey to green and brown with white albitized feldspar. Fine grain. Grains schistosed with white albitized feldspar phenocryst. Rock stratified biotite, feldspar, quartz chlorite, calcite, quartz veinlets at places.~~	~~No Min. Py tr.~~	~~60-65~~	~~24~~
~~332~~	~~337⁶~~			~~Calcite chlorite schist.~~	~~Rock green. Fine grain. Grains schistosed. Rock schistosed. Mineral components chlorite quartz stringers.~~	~~No Min~~	60°	~~25~~
337⁶	346			~~Chlorite calcite biotite schist.~~	Rock ~~brown~~ to green with white specks and ~~streaks. Fine grain to flaky.~~ Rock schistosed biotite, calcite, sericite, talc, chlorite.	No Min.	60°	26

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
346	356			Albitized feldspar, biotite, calcite, chlorite schist.	Rock green with brown speck and white specks and streaks. Fine grain to flaky at places. Grains are schistosed. Quartz stringers at places. Biotite, calcite chlorite sericite talc? feldspar.	No Min.	60°	27
356	361			Gradual contact calcite chlorite to biotite schist.	Rock green to brown. Fine grain. Grains grades from flaky to fine. Rock schistosed calcite chlorite biotite feldspar.	No Min.	60°	28
361	366			Pyroxenite?	Rock green. Fine to medium. Remanent phenocrystals pyroxene. Rock massive. Pyroxene, amphibole, chlorite, calcite N.B. Grains are finer than pyroxenite found in other holes.	NoMin.		29
366	381			Albitized feldspar flaky biotite calcite chlorite schist.	Rock green with browns specks and white specks and streak. Fine grain flaky. Rock schistosed. Calcite chlorite sericite talc? biotite feldspar .	No Min to Py tr.	60°	30
381	385			Thin albitized feldspar flaky biotite calcite chlorite schist alternating with albitized feldspar calcareous siliceous schist	Rock grey with greenish brown bands. Fine grain to flaky in greenish brown bands. Rock stratified feldspar, chlorite biotite sericite calcite quartz.	No Min.	60-65	31 32

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
385	386			Quartz vein.				
386	397			Biotite calcareous siliceous schist.	Rock grey with white foliated streaks at places. Fine grain with recrystallized phenocryst grains at places. Rock stratified quartz, feldspar, calcite, biotite, chlorite.	No Min.	60-65	33
397	402			Quartzite with calcite fracture fillings.	Rock grey. Fine grain to crystalline. Rock stratified. Beds regularly stratified quartz calcite biotite,	No Min.	60°	34
402	404			Talcy sericite schist.	Rock light green with yellowish brown sheen. Fine grain. Grains flaky and greasy to touch. Rock schistosed quartz calcite biotite, chlorite talc sericite.	No Min.	60°	35
404	410			Quartzite with calcite fracture fillings and thin laminated of biotite schist.	Rock grey. Fine grain to crystalline Rock stratified. Beds regularly stratified quartz calcite biotite.	No Min.	60°	36
410	421			Biotite chlorite calcareous siliceous schist.	Rock grey with white streaks and specks. Fine grain with albitised feldspar, phenocryst and foliated calcite streak Rock stratified with schistosed plane. Quartz, chlorite, biotite, calcite, feldspar.	No Min.	55-60	37

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
421	423			Talcy sericite schist.	Same as 402 - 404	No Min.	55-60	38
423	442			Calcite biotite chlorite sericite schist.	Rock grey with white streaks specks and slades of light green. Fine grain Grain schistosed and appears flaky to partly fibrous. Rock stratified with schistosed minerals. Calcite, biotite chlorite quartz feldspar sericite.	No Min.	60°	39
442	451			Alternating 1mm. -2mm. laminated graphitic streaks with siliceous calcareous sericite schist possible weak conductor.	Rock grey with black thin bands. Fine grain to flaky at places. Rock stratified biotite chlorite sericite graphite quartz and calcite. Mineralisation thin streaks of scattered sulfides pypo.	Pypo 1- 3%	50-55	40
451	465			Talcy sericite schist with scattered 6"-9" beds of sericite biotite calcareous siliceous schist.	Rock green with silky greasy sheen with scattered grey beds. Fine grain to flaky. Grains schistosed talc sericite quartz biotite calcite chlorite.	No Min. to Py. tr.	50-55	41
465	495			Feldspar biotite sericite calcareous siliceous schist.	Rock greyish brownish sheen and white specks. Fine grain with albitized white medium fine specks. Rock schistosed feldspar quartz calcite sericite biotite.	No Min.	50-55	42

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
495	510			Impure quartzite.	Rock dark grey with slades of green and brown at places. Fine grain to crystalline. Rock stratified. Quartz, feldspar, calcite, biotite, sericite, graphite, impuritees at places.	Pypo 1-2%	50°	43
510	516			Impure quartzite with graphite siliceous schist bed and irregular scattered sulfide streaks. Weak conductor.	Rock has alternating greyish green and black bands. Fine grain to crystalline. Rock stratified with regular laminated beds. Quartz feldspar, calcite, biotite, graphite and pypo.	Pypo 1-2%	45-50	44
516	528^5			Chlorite sericite calcareous siliceous schist with a sen scattered 10'-13' talcy sericite schist.	Rock dark grey with scattered green bands and white quartz band. Fine grain to crystalline. Grains are schistosed Rock stratified. Quartz, feldspar, calcite chlorite sericite py and po traces.	Pypo tr.	45-50	45 46
528^5	537			Quartzite alternating with thin chlorite sericite schist band.	Rock grey with thin green bands. Fine grain to crystalline. Rock stratified with regular alternating lamination. Quartz feldspar calcite sericite chlorite garnet.	Pypo tr.	45°	47

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
537	553			Feldspar porphyry with biotite calcareous siliceous schist bands.	Rock grey with lenticular spots and streaks. Fine grain to crystalline with foliated albitized feldspar are recrystallised quartz porphyry. Rock stratified, quartz, feldspar, biotite, calcite, chlorite, section near the end seems to alternicite with thin beds chlorite sericite.	No Min.	45°	48
553	560			Light grey cherty quartzite.	Rock light grey. Fine grain to crystalline. Rock stratified with regular laminated beds. Quartz, calcite. fracture fillings and mica tr.	No Min.	45°	49
560	566			Feldspar quartz porphyry biotite schist Sill or Dike?	Rock brown with white spots and streaks. Grains flacky with foliated feldspar quartz phenocryst. Rock schistosed biotite calcite quartz feldspar.	No min.	45-55	50
566	576.3			Sericite schist with thin impure quartzite beds.	Rock grey with brownish grey bands. Fine grain to flaky to crystalline at places. Rock stratified quartz feldspar calcite biotite sericite!	No Min.	50°	51
576.3	576.8			Calcite sericite schist.	Rock brownish grey. Fine grain to flaky. Rock soft 2 - 4. Rock schistosed. calcite, biotite, sericite talc? pypo	(1407) Pypo 2% -3%		

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
576 8	590			Calcite sericite schist.	" " "	No Min. Pypo tr.	50°	52
590	603			Feldspar porphyry with biotite calcareous siliceous schist.	Rock grey with spots. Fine grain Grains schistosed. Grains with feldspar. quartz, feldspar, calcite chlorite sericite.	No Min.	45°	53
603	612			Biotite sericite calcareous siliceous schist.	Rock grey with green slages. Fine grain. Grains schistosed. Quartz, feldspar, calcite, pypo, streaks sericite.	Pypo tr. 2%	45°	54
612	649			Biotite sericite schist.	Rock brown. Fine grain to flaky and fibrous. Rock schistosed. Sericite calcite biotite quartz feldspar.	No Min. Py tr.	45°	55 56
649	660 5			Biotite sericite schist alternating with graphitic siliceous state and impure quartzite.	Rock grey alternating with greenish brown and black bands, Fine grain to crystalline. Rock stratified quartz feldspar graphite sericite biotite calcite.	Py tr.	40-45	57 58
660 5	661 5			Graphitic slate conductor.	Rock black. Fine grain. Rock stratified with regular beds (thin). Graphite, calcite.	No Min.	40°	59

JCB. 46248

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
661^{5}	664			Biotite sericite schist with graphitic siliceous slate.	Rock brown alternating with black and greyish black bands. Fine grain to crystalline. Quartz, calcite, biotite, sericite, graphite.	No Min.	40°	60
664	667^{5}			Calcite, biotite, sericite schist,	Rock brown. Fine grain to flaky. Rock schistosed. calcite biotite sericite.	No Min.	35°	61
667^{5}	675^{5}			Black grey impure quartzite with graphitic bands.	Rock blackish grey with black bands and streaks. Fine grain to crystalline. Rock stratified quartz, calcite sericite graphite.	No Min.	35°	62
675^{5}	678^{5}			Calcite biotite quartzite sericite schist.	Same as 664 - 667^{5}	No Min.	35°	63
678^{5}	68[illegible]^{5}			Black graphite siliceous sericite schist.	Rock black with blackish grey band and white streaks. Rock fine grain. Rock stratified. Graphite, sericite quartz calcite.	Pypo tr.	35°	64
6[illegible]^{5}	689^{5}			Graphitic slate with graphite siliceous sericite schistm Conductor.	Rock black white irregular streaks. Rock stratified. Beds wavy irregular. quartz calcite chlorite. graphite sericite.	Pypo tr.	35°	65
689^{5}	70[illegible]^{5}			Sericite schist with sulfides weak conductors	Rock greyish brown. Fine grain stratified sericite calcite chlorite.			

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					CU. ZN. AG.			
					690^{5}-691 0.02 Tr. .06	(1409)		
					691--691^{5} 0.03 0r80 .06.	(1409)		
					692^{5}--692^{6} 0.07 Tr. .24	(1410)		
					692^{6}-695 0.07 0r35 .06	(1411)		
					695--696^{2} 0.07 0r10 .07	(1412)		
					696^{2}-696^{6} 0.17 0r25 .03	(1413)		
					696^{6}-698^{6} 0.08 Tr. .10	(1414)		
					698^{6}-700^{6} 0.25 0r25 .09	(1415)		
					700^{6}-701^{4} 0.17 Tr. .13	(1416)		
					701^{4}-703 0.05 Tr. .03	(1417)		
					703--704^{6} 0.23 0r10 .01	(1418)		
704^{6}	707^{9}			Massive sulfides conductor.	704^{6}-705^{6} 0.20 0.85 .11	(1419)		
					705^{6}-706^{6} 0.95 0.65 017	(1420)		
					706^{6}-707^{9} 0.65 0.60 .45	(1421)		
707^{9}	712^{5}			Sericite schist with sulfides weak conductor.	707^{9}-709 0.25 Tr. .36	(1422)		
					709--710 0.30 0.10 .14	(1423)		
					710--711 0.02 Tr. .02	(1424)		
					711--712^{5} 0.03 Tr. .02	(1425)		
712^{5}	748			Calcite sericite schist to biotite sericite schist.	Rock brown to greyish brown at places. Fine grain flaky and fibrous at places. Hardness 2½ - 4. Rock schistosed calcite sericite biotite quartz feldspar mineralization pyrite ½mm. bands at places.	Pypo tr. 1	35-45	66 67

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
748	750			Grey cherty quartzite.	Rock grey. Fine grain to crystalline Rock stratified. Quartz calcite, chlorite.	Py tr. - Cptr.	35–40	68
750	768			Sericite schist.	Rock brown. Fine grain to flaky. Rock schistosed. sericite biotite calcite.	~~Pypo tr.~~ ~~1%~~	35°	~~69~~
768	772.5			Impure quartzite.	Rock dark grey. Fine grain to crystalline. Rock regularly stratified. Quartz feldspar calcite sericite and graphite impureties.	Pypo tr.	40–45	70
772.5	777.5			Calcite sericite chlorite schist.	Rock green. Fine grain. grains are schistosed and fibrous at places. calcite, sericite, chlorite quartz, biotite.	No Min.	40°	71
777.5	784.5			Metamorphosed biotite siliceous and stone.	Rock grey, fine grain with recrystallised grains. Rock appear to be stratified. Quartz feldspar biotite chlorite.	No Min.	35°	72
784.5	805			Calcite talc chlorite siliceous schist (metamorphosed sandstone.	Rock greyish green. Fine grain to fibrous at places. Rock schistosed at places and stratified poorly. Hardness 3 - 4 at places quartz feldspar chlorite sericite talc?	No Min.	35°	73 ~~74~~ ~~75~~

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				Estimated core recovery 95%			
				Dip test at 90' = 69°			
				" " 200' = 68°45°			
				" " 300' = 68°45°			
				" " 400' = 64°30°			
				" " 500' = 61°30°			
				" " 600' = 48°			
				" " 700' = 43°30°			
				" " 790' = 24°			
				Scintillometer check no radio active minerals.			
				Summary.			
0	90			Overburden.			
90	139			Biotite calcareous siliceous schist.	No Min	65-70	
						65°	
139	165			Feldspar porphyry biotite chlorite calcereous siliceous schist	No Min	65°	
165	204			Biotite schist with calcite biotite, chlorite, schist.	No Min	65-70	
204	250			Calcite biotite sericite schist and dark impure quartzite.	No Min	65°	
250	361			Feldspar porphyry with biotite calcareous siliceous schist with impure quartzite and calcite chlorite schist.	No Min Py tr.	60-65	

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
361	366			Pyroxenite?	No Min.		
366	404			Albitized feldspar flaky biotite calcite chlorite schist and biotite calcareous siliceous schist.	No Min.	60°	
404	510			Talcy sericite schist with feldspar biotite sericite sili-ceous schist.	No Min.	50-55	
510	516			Impure quartzite with graphite siliceous schist bed and irre-gular scattered sulfide steaks. weak conductor.	Pypo 1-2%	45-50	
516	560			Feldspar porphyry with biotite calcareous siliceous schist and quartzite beds.	No Min.	45°	
560	566			Feldspar quartz porphyry biotite schist sill or dike?	No Min	45-55	
566	660.5			Calcite biotite sericite schist with feldspar porphyry with biotite calcareous siliceous schist	No Min Pypo tr.	45°	
660.5	661.5			Graphitic slate conductor.	No Min.	40°	
661.5	688.5			Calcite biotite sericite schist with black grey impure quartzite.	No Min.	35°	
688.5	712			Sericite schist with 3% of massive sulfides conductor.	Pypo 10-15%	35°	

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
712	777			Calcite sericite schist with biotite schist and grey cherty quartzite.	Pypo tr 1%	35°	
777	805			Calcite talc chlorite siliceous schist (metamorphosed sand-tone)	No Min.	35°	

[illegible]

Canton: [illegible]BOURDE

DESCRIPTION SONDAGE

REGION: [illegible] SONDAGE No.: [illegible] 41 Profondeur: [illegible] Foré par: [illegible]

ANOMALIE: 5-60 DIR. et INCL.: North 45° Commencé le 10-10-69 Machine: Décrit par: S.[illegible]

CLAIM: 2-4394-4 Coord. locales: X= [illegible] Y= [illegible] Z= Terminé le 18-10-69 Diam. Forage: AXT.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	127	Overburden				
127	141^6	Biotite schist	Rock greyish brown fine grain Grains schistosed with recrystallised quartz, feldspar foliated Rock schistosed. Rock stratified with schistosed plane alteration Rock metamorphosed. Mineral components quartz feldspar biotite calcite chlorite.	no min.	35°	[illegible]
141^6	142	talc chlorite schist	Rock green. Fine grain Grains chistosed hardness>2½<5. Rock schistosed. Mineral components talc, chlorite calcite and sericite. Contact zone.	no min	35°	[illegible]
142	170	Biotite schist with porphyritic feldspars.	Rock greenish grey with white spots. Fine grain with white phenocryst of albitized feldspar grains schistosed. Rock poorly stratified at places. Bed appears to be graded. Rock metamorphosed feldspar albitized Mineral component Biotite chlorite-feldspar quartz calcite.	no min	35°	[illegible]
170	176	metamorphosed feldspar biotite augen schist? to biotite schist.	Rock greyish green and brown. Rock fine grain and schistosed with spots of feldspar. There is a [illegible] in grain size. Gradual contact. Mineral component: Biotite chlorite feldspar, calcite.	No min	"	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	

JEB. 47794

U 41-2

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			~~Mineral components quartz calcite biotite chlorite talc feldspar ex-graphite.~~			
~~181[6]~~	~~208~~	~~biotite calcareous siliceous augen schist~~	~~Rock grey with white streaks and specks. Fine grain with medium to coarse eliptical foliated. feldspar grains. Grains schistosed. Rock appears to be stratified with schistosed planes Mineral components calcite quartz feldspar biotite chlorite.~~	~~no min.~~	35°	~~6-7~~
~~208~~	~~209[6]~~	~~calcareous chlorite impure quartzite~~	~~Rock greyish green. Rock fine grain to crystalline. 3" Quartz vein. Mineral components calcite quartz feldspar chlorite biotite.~~	~~py tr~~	35°	~~8~~
~~209[6]~~	~~216~~	~~biotite calcareous siliceous augen schist?~~	~~Rock a dark grey grains become finer and less specks of foliated grains There is a gradual contact. Mineral components biotite calcite quartz feldspar chlorite.~~	~~no min~~	35°	~~9~~
~~216~~	~~230~~	~~Biotite calcareous siliceous schist~~	~~Rock greysih brown with shades of brown colour fine grain Grains schistosed. Rock stratified with schistosed plane. Mineral com. quartzz, feldspar biotite calcite chlorite.~~	~~no min~~	35°	~~10~~
~~230~~	~~235[8]~~	~~impure quartzite~~	~~Rock light to dark Grey fine grain to crystalline Mineral components quartz feldspar calcite Ex-graphitic pigmentation.~~	~~no min~~		~~11~~
~~235[8]~~	~~247~~	~~pyroxénite?~~	~~rock greyish green with white and green phenocryst medium grain to flaky and fibrous Rock massive. Alteration metamorphosed intrusive rock mineral c mponent mica calcife feldspar amphibole chlorite talc quartz py and po.~~	~~po py tr~~		~~12~~

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
247	256	Biotite calcareous siliceous augen schist?	Rock greyish green with white spots fine grain with medium albitized feldspar grains. Rock stratified with schistosed plane .Mineral component biotite calcite quartz feldspar chlorite.	no min	25-30	13
256	278	calcareous chlorite impure quartzite	Rock greyish green with shades of light green Rock fine grain to crystalline core broken and crushed at places. Rock poorly stratified beds irregular and wavy. Mineral components quartz feldspar chlorite calcite talc and py garnet. N.B.There are irregualr thin scattered beds of chloritic schist.	py tr		14
278	279^6	Alternating impure quartzite with graphitic shale.	Rock alternating black and grey bands Fine grain to crystalline. Rock stratified with regular thin alternating even beds. Mineral components quartz feldspar calcite Ex-graphite.	py po tr	30°	15
279^6	286	Graphitic impurities with calcareous impure quartzite	Rock dark grey with scattered thin black bands. Fine grain to crystalline grains are foliated and schistosed at places. Rock poorly stratified Min. com. Ex-graphite quartz feldspar calcite chlorite and py po tr.	py po tr		16
285	288^5	biotite schist	rock greyish brown. Fine grain to flaky. Rock schistosed. Mineral comp. biotite quartz feldspar calcite.	no min	30°	17
288^4	299	biotite chlorite calcareous with thin bed of quartzite	Rock greyish green with shades of brown Fine grain grains crystalline and schistosed at places. Rock stratified beds appears to be thin and alternating at places. Min. comp. chlorite biotite calcite quartz feldspar.	py tr	30°	18

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
299	306	Quartzite with calcite fracture filling possible weak cond.	Rock light grey fine grain to crystalline Rock stratified with regular thin alternating beds. Quartz calcite feldspar mica py po Mineralization .05mm. thin streaks of interbedded py po.	py po 1-3%	25°	19
306	321	alternating mica schist with 3-6" beds of chlorite schist.	Rock has alternating bands of greyish brown with green) Fine grain to flaky. Rock schistosed Mineral components chlorite mica quartz feldspar.	py po tr	30°	20
321	327	Mica amphibole chlorite dike or sill?	Rock green with dark green phenocryst Fine grain with fine medium phenocryst Rock massive. Mineral components chlorite mica amphibole calcite feldspar At 325-327 there are 2" quartz veinlets and grains are schistosed near the contact.	no min		21
327	332	biotite schist alternating with 1-3" biotite chloritic schist.	Rock alternating bands of green and grey with brownish sheen. Fine grain to flaky grains schistosed. Rock stratified beds coincides with schistosed plane. Mineral components biotite chlorite calcite feldspar and quartz.	no min	30°	22
332	339	½-3" biotite schist beds alternating with quartzite	Rock grey with light grey. Fine grain to crystalline with biotite flakes Rock stratified with regular alternating beds. quartz feldspar calcite biotite chlorite and py po tr.	py po tr	20-30	23
339	346	biotite schist	Rock has brownish sheen with whitish grey streaks fine grain to flaky rock schistosed Mineral components biotite quartz feldspar.	no min		24
346	348	Feldspar chlorite biotite	Rock greenish with white spots. Fine grain	no min	30°	25

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			min. comp. feldspar chlorite biotitequartz.			
348	365	biotite schist	Rock has brownish sheen with whitish grey streaks fine grain to flaky. Rock schistosed biotite quartz feldspar.	no min	30°	26
365	366^{8}	fine biotite schist	same as above except grains are finer feldspar is absent and grains are closley foliated.	no min	30°	27
366	370	biotite augen schist?	same as 348-365 except more phenocryst of feldspar and grains are ~~[illegible]~~ coarser and flaky .	no min	30°	28
370	372^{5}	porphyry feldspar sericite biotite chlorite schist?	Rock greenish grey with white spots. Fine grain to crystalline and flaky with porphyritic Albitized feldspars Rock appears to be poorly stratified fracture fillings with calcite. Mineral components chlorite sericite biotite quartz feldspar.	no min	30°	29
372	400	biotite schist	same as 348-365	no min.	30°	30
400	403	siliceous graphitic slate	rock black with white streaks fine grain. Rock stratified lamination wavy to irregular. Mineral components quartz feldspar graphite calcite.	py po tr	15-20	31
403	411	biotire sericite schist	Rock has brownish sheen fine grain. Grains schistosed Mineral components biotite sericite quartz feldspar. Roc	no min	35°	32
411	417^{3}	Black quartzite and sericite biotite schist.	Rock dark grey with brownish sheen Fine grain to flaky at places Rock stratified Beds. coincides with schistosed planes, Ex-granite impurities biotite sericite calcite quartz feldspar	no min	"	33

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
417	418	417 Siliceous graphitic slate	Same as 400-403 lamination wavy appears to be drag folded.	no min		
418	421	black quartzite and sericite biotite schist.	Same as 411-417 except ex-graphite impurities decreasing.	no min	35	34
421	422	siliceous graphitic slate alternating with impure quartzite	Rock has alternating black and grey bands. Fine grain to crystalline. Rock evenly stratified. Core recovery 70% and blocky . Min. comp. quartz feldspar graphitic calcite.	py po tr	35°	35
422	432	black quartzite and sericite biotite schist.	same as 411-417 rock dark grey with brownish sheen fine grain to flaky at places graphite biotite sericite calcite quartz feldspar.	no min	35	36
432	433	biotite schist	rock has brownish grey sheen fine to flaky grains grains schistosed biotite quartz feldspar.	no min	30	37
433	434	siliceous graphitic slate	rock black fine grain graphite quartz feldspar calcite	py po tr	30°	38
434	442 6	sericite talc calcareous quartzite streaks of sulfides with weak conductor.	Rock greyish yellow with light green shades Fine grain. Hardness >3 <5. Rock stratified. Mineral components quartz feldspar calcite talc sericite biotite.		35°	

	cu	zn	ag	
431-436	0.02	nil	0.04	1335
-438	0.03	nil	0.14	1336
-440	0.02	nil	0.03	1337
-442	0.03	nil	0.07	1338

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			cu zn ag			
447^6	447^9	massive sulfides with siliceous graphitic slate cond.	442^6-444 0.30 nil 0.13 1339			
			-445 0.50 1.10 0.62 1340			
			-446^2 0.28 5.25 0.83 1341			
			-447^2 0.07 tr 0.05 1342			
			-447^9 0.08 7.70 0.22 1343			
447^9	449^9	siliceous graphitic slate with streaks of sulfides weak cond.	447^9-449^9 0.05 tr 0.04 1344			
449^9	464	talc calcareous quartzite with streaks of sulfides weak cond.	449^9-451^6 0.03 tr 0.03 1345			
			-453 0.05 nil 0.10 1346			
			-456 0.03 tr 0.14 1347			
			-457^5 0.03 nil 0.05 1348			
			-462^9 0.05 nil 0.08 1349			
			-468 0.02 nil 0.03 1350			
464	472^5	Biotite talc calcareous sericite schist.	rock yellowish grey with green shades Fine grain to wavy fibrous at places. Rock schistosed rock stratified Mineral component biotite calcite talc sericite quartz.	py po tr 2%	35°	39
472^5	474	quartzite	rock grey rock stratified and fine grained.	py po 1%	25-30	40
474	474^8	biotite schist	rock brown schistosed biotite quartz feldspar [illegible]	no min		41
474	485^5	quartz talc calcareous sericite schist with 3-6" biotite schist beds.	Rock yellowish grey with green shades. fine to fibrous grain with recrystallised quartz Rock schistosed along the stratified plane. Mineral component quartz talc calcite sericite. N.B. scattered 3-6" biotite schist beds.	py po tr	30	42

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
485.5	490.5	Quartzite	rock grey with thin green and brown streaks fine grain to crystalline. Quartz calcite feldspar mica.	py po tr 2%	30°	43
490.5	500	quartz biotite calcareous sericite schist.	Same as 474-485 except colour darker grey and an increase of biotite.	py po tr	25-30	44
500	505	ex-graphitic impurities with impure quartz alternating with thin 2-4" biotite talc sericite schist.	Rock has alternating bands of black grey and greenish brown. Fine grain to crystalline Rock stratified Quartz feldspar calcite talc biotite sericite N.B. 2-4" beds of biotite talc sericite schist.	py po tr	30	45
505	512	talc calcareous sericite schist.	Rock dark grey to green with off yellowish brown shades. Fine grain to fibrous Rock stratified. Min. comp. quartz sericite talc chlorite calcite.	no min	35-40	46
512	536	chlorite sericite calcite impure quartzite	rock dark grey fine to crystalline at places with recrystallized quartz. Rock appears to be poorly stratified. Mineral components quartz feldspar chlorite sericite calcite.	py po tr	30	47
536	541	ex-graphite impurities with calcite impure quartzite	Rock has alternating bands of black and gray fine grain to crystalline. Rock stratified regular evenly laminated beds. Min. comp. quartz feldspar calcite mica.	py tr	35°	48
541	545	biotite sericite schist with 3-4" beds of impure quartzite.	Rock brownish gray. Grains fine and schistosed min. comp. calcite quartz feldspar biotite sericite.	no min	35-40	49
545	558	metamorphosed biotite chlorite calcite siliceous sandstone.	Rock dark greyish green with brown specks fine grain with recrystallized grains Rock stratified. Min comp. biotite calcite quartz [illegible] chlorite.	py tr	35	50

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W41-9

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillor Témoin
558	579^6	Porphyry feldspar biotite chlorite sandstone	Rock dark greyish green with brown specks and white albitized spots. Fine grain albitized spots. Fine grain with albitized porphyritic texture Rock poorly stratified beds show graded bedding quartz, feldspar, chlorite, mica, calcite.	py po tr		51
579^6	584^6	Impure quartz vein with 3-6" metamorphosed feldspar biotite chlorite Augen schist?	Rock whitish grey with greenish grey fracture fillings and beds C Rock crystalline quartz chlorite calcite feldspar.	py tr		52
584^6	590	contact metamorphosed chlorite siliceous sedimentary rock.	Rock grey green and various shades of brown. Fine grain to crystalline and flaky at places. Core blocky recovery 60% chlorite quartz feldspar mica.	no min		53
590	592	fine biotite schist	rock brown fine grain rock schistosed mineral components feldspar quartz biotite calcite.	no min		54
592	597	fine biotite schist alternating with quartzite	Rock brownish grey alternating with grey fine grain crystalline at places hardness <6. Rock stratified quartz feldspar biotite chlorite.	no min	35°	55
597	605	metamorphosed biotite chlorite quartz feldspar sandstone.	rock greenish grey with white and brown specks. fine grain with feldspar spots. Rock poorly stratified show graded bedding mineral component chlorite biotite quartz feldspar calcite.	no min.	35°	56

Estimated core recovery 95%

Scintillometer check No radio active minerals.

Dip test at 100' = 37° 200' = 40° 300' = 37° 400' = 31°

500' = 2[illegible] 600' = [illegible]

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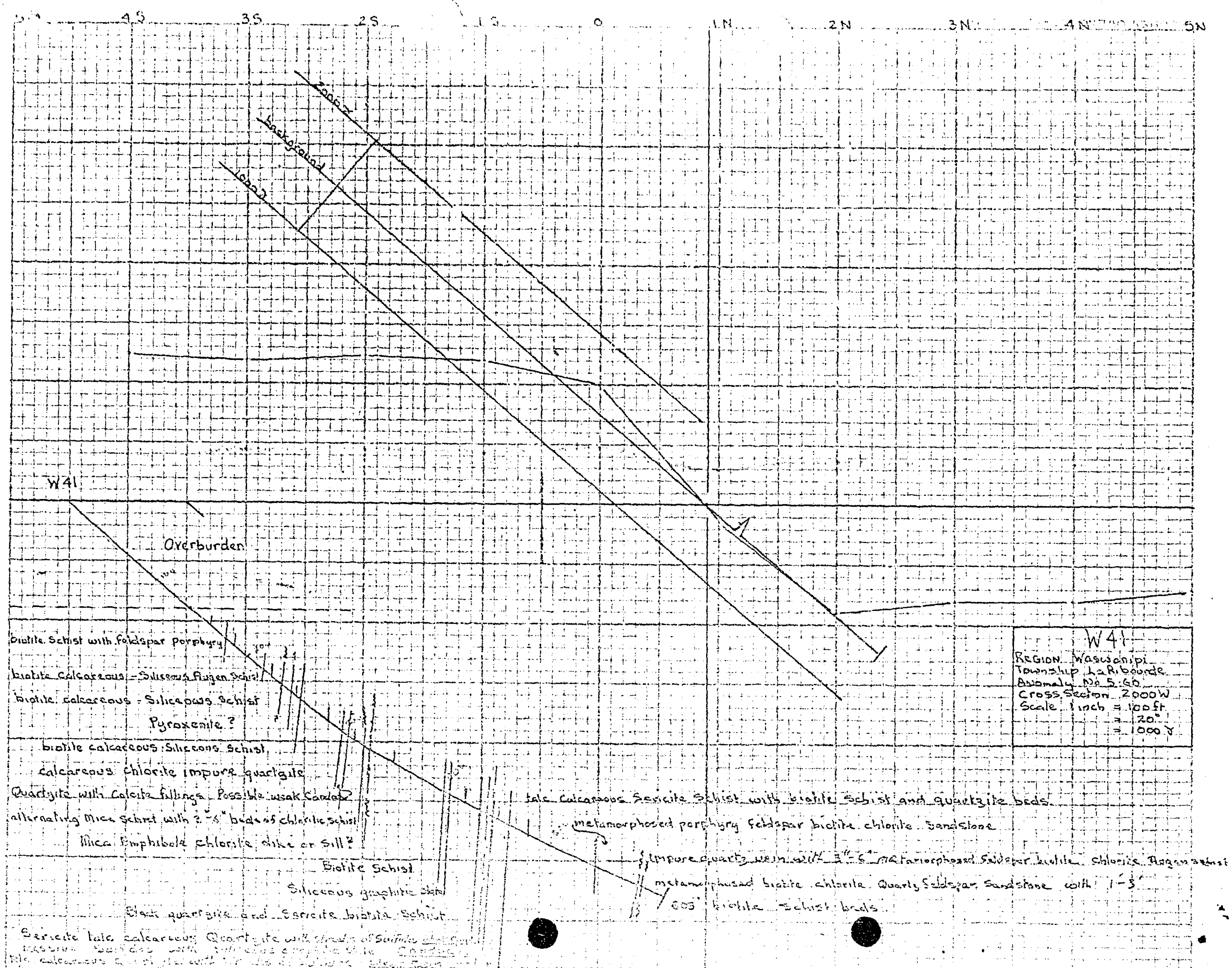
W 41-10

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
		SUMMARY:				
0	137	Overburden				
137	176	biotite schist with feldspar porphyry		no min	35°	
176	216	biotite calcareous siliceous augen schist?		"	"	
216	225[8]	biotite calcareous siliceous schist		"	"	
225[8]	247	pyroxenite?		py po tr.		
247	256	biotite calcareous siliceous schist.		no min	25-30	
256	299	calcareous chlorite impure quartzite		py po tr	30°	
299	306	quartzite with calcite fillings possible weak cond.		py po 1-3%	25°	
306	321	alternating mica schist with 3-6" beds of chloritic schist		py po tr	30	
321	327	mica amphibole chlorite dike or sill?		no min		
327	400	biotite schist		no min	30	
400	403	siliceous gra hitic slate		py po tr	15-20	
403	434	black quartzite and sericite biotite schist		no min	35	
434	442	sericite talc calcareous quartzite with streak of sulfides weak cond.		cu .05%		
				ag .09%	30	
442	447[3]	massive sulfides with siliceous graphitic slate cond. cu.30%		zn20%		
447	464	talc calcareous quartzite with streaks of sulfides weak cond. ag .43%		cu ..03%		
464	545	talc calcareous sericite schist with biotite schist and quartzite beds		ag.04% py.. tr	25-30°	
545	579	metamorphosed porphyry feldspar biotite chlorite sandstone		py po tr.		
579	584	impure quartz vein with 3-6" metamorphosed feldspar biotite chlorite				
			augen schist?	py tr.		
584	605	metamorphosed biotite chlorite quartz feldspar sandstone with 1-3"				
		biotite schist beds.		no min	35°	



4S
3S
2S
1S
0
1N
2N
3N
4N
5N
2000 γ
background
1000
W41
Overburden
biotite Schist with feldspar porphyry
biotite calcareous - Siliceous Augen Schist
biotite calcareous - Siliceous Schist
Pyroxenite ?
biotite calcareous Siliceous Schist
calcareous chlorite impure quartzite
Quartzite with Calcite fillings Possible weak Conductor
alternating Mica Schist with 3"-6" beds of chloritic schist
Mica Amphibole chlorite dike or Sill?
Biotite Schist
Siliceous graphitic Schist
Black quartzite and Sericite biotite Schist
Sericite talc calcareous Quartzite with streaks of Sulfides
talc calcareous Sericite Schist with biotite Schist and quartzite beds.
metamorphosed porphyry feldspar biotite chlorite Sandstone
impure quartz vein with 3"-6" metamorphosed feldspar biotite chlorite Augen schist
metamorphosed biotite chlorite Quartz feldspar Sandstone with 1-3' biotite Schist beds
605'
W41
REGION Waswanipi
Township La Riboorde
Anomaly No 5.60
Cross Section 2000W
Scale 1 inch = 100 ft.
= 20°
= 1000 γ

LG. 47793

Canton La Ribourde

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

REGION: [illegible] SONDAGE No.: W.45. Profondeur: 625' Foré par: BENOIT.

ANOMALIE: 5.60 DIR. et INCL.: North 45° Commencé le 21-10-69 Machine: Décrit par: S. Essop

CLAIM: 284384-3 Coord. locales: X= 2400W Y=450S Z= Terminé le 31-10-69 Diam. Forage: AXT.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	90	Overburden				
90	93	biotite schist with	Rock greenish grey with shades of brown and white	no min	40-45°	1
	p	porphyritic feldspar.	spots. Fine grain with white phenocryst of albitized f			
			feldspar ,grains schistosed! Alteration			
		8	metamorphosed feldspath graywacke.			
			Rock stratified Beds appears to be graded.			
			Mineral components biotite chlorite feldspar			
			quartz and calcite.			
93	95	Fine biotite schist	Rock greenish grey with brownish sheen.	no min	40-45°	2
			Fine grain. Grains schistosed			
			Rock stratified with schistosed plane .			
			Mineral components biotite, chlorite, feldspar			
			quartz and calcite.			
95	96	Fine biotite schist	Rock greenish grey with brownish alternating	no min	45°	3
		alternating with chlo-	with green bands. Fine grain to flaky at places.			
		rite schist.	Rock stratified. Biotite chlorite feldspar quartz			
			and calcite.			
96	99	Fine biotite schist	Rock greenish grey with brownish sheen	no min py	40-45°	4
			Fine grain. Grains appear to be crystalline at	py tr.		
			places. Rock stratified with regular alternating			
			beds which as still remanent after metamorphism,			
			biotite quartz calcite feldspar sericite py tr.			

JED. 47791

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
99	100	Flaky biotite schist with 3" quartz vein.	Rock has brownish sheen. Fine grain to flaky. Rock schistosed. Biotite feldspar quartzz	no min	45°	5
100	104 7	Sericite biotite schist alternating with biotite schist and calcite Fracture fillings.	Rock greyish green with brownish sheen bands. Fine grai . Grains schistosed. Rock stratified. Mineral components sericite, biotite calcite quartz.	no min	45°	6
104 7	112 6	Sericite chlorite schist with 6-9"beds of feldspar porphyry schist and sericite chlorite biotite schist.	Rock HAS alternating bands OF green with brownish greyish green beds. Fine grain to flaky and biotite fibrousat places. Grains schistosed. Quartz, stringers. Biotite feldspar chlorite sericite quartz calcite.	no min	45°	7-8-9
112 6	115	feldspar porphyry with biotiteschist and biotite sericite schist thin bands.	Rock greyish green with white spots. Fine grain and feldspar phenocrystals. Rock poorly stratified. Quartz stringer parallel fo core axis. Feldspar, quartz chlorite calcite sericite biotite	no min py po tr.	40-45°	10
115	119	Chlorite biotite siliceous schist.	Rock greenish grey with brownish sheen. Fine grain to crystalline at places. Rock stratified. bi tite chlorite quartz feldspar calcite.	no min	40-45°	11
119	127	Feldspar porphyry with biotite chlorite schist.	Rock greenish grey with white spots. Fine grain Grains recrystallized and foliated, at place. Rock stratified. Feldspar, chloritex biotite, sericire calcite.	no min	40-45°	12
127	135	Fine biotite schist to sericitic impure quartzite.	Rock greyish brown with irregular greyish green streaks Fine grain to crystalline near the end of section Rock stratified biotite quartz feldspar sericite chlorite.	no min	40-45	13-14

JEU. 47794

W 45-3

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
135	140[6]	Feldspar porphyry with chlorite biotite schist.	Rock greenish green with white spots. Fine grain Grains albitized and foliated. Rock stratified feldspar chlorite biotite calcite quartz.	no min	40-45	15
140[6]	159	biotite schist mica 6" calcite chlorite schist beds with quartz and calcite fracture fillings.	Rock greenish grey with brownish sheen beds, with white irregular streaks and bands. Fine grain Grains schistosed. Rock stratified Beds wavy to irregular at places. Quartz veinlet. Biotite chlorite calcite quartz feldspar sericite.	no min	40-45°	16-[illegible]
159	176	Feldspar porphyry with calcite chlorite biotite schist.	Rock greyish green with brownish sheen and white spots. Fine grain to flaky with albitized pheno-cryst. Rock stratified. Chlorite biotite calcite quartz feldspar N.B. Biotite increases near the end of section.	no min	40-45	18-[illegible]
176	179[3]	Biotite sericite impure siliceous schist.	Rock greyish green with shades of brown and irregular yellowish green streaks. Fine grain G to crystalline. Rock appears to BE poorly stratified contact zone. Quartz calcite sericite biotite chlorite.	no min	40-45	20
179[3]	191	Alternating bands of impure quartzite with biotite sericite schist and 1-2m. calcite fracture fillings.	Rock has alternating dark grey with brown and light grey bands. Fine grain Grains are schistosed in brown bands, and crystalline in light grey bands 6" Quartz veinlet and regular. Rock stratified with regular alternating beds. quartz, feldspar sericite calcite biotite.	no min	40-35°	21
191	196	Black quartzite with tr 1-2mm bands of calcite	Rock black with white streaks Fine grain to crystalline at places. Rock stratified Regular thin beds. Calcite fracture filling quartz graphite calcite sericite feldspar.	py po tr [illegible]	35-40°	22

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
196	197	grey impure quartzite	Rock grey with dark grey shades Fine grain to crystalline. Rock stratified. Quartz sericite calcite feldspath.	py tr	35°	23
197	210	Feldspar porphyry with biotite calcareous siliceous schist or (augen schist?).	Rock greyish brown with white spots and streaks Fine grain with medium coarse eliptical foliated . Feldspar grains. Rock schistosed and stratified Biotite feldspar calcite quartz.	no min	35°	24
213	214⁵	calcareous chlorite impure quartzite	Rock greyish green. Rock fine grain to crystalline no min al places. 3" Quartz vein. Mineral components calcite quartz feldspar chlorite biotite.	no min	35°	25
214⁵	235	Feldspar porphyry with biotite chlorite calcareous siliceous schist or (augenschist).	Rock greyish brown with green shades and white spots. Fine grain with medium eliptical foliated feldspar grains. Rock stratified with schistosed plane. N.B: Rock more crystalline than section 197-213 Biotite is also decreasing and chlorite increasing. Min. component feldspar chlorite biotite . Quartz, calcite sericite.	no min	35°7	26
235	237⁵	Contact calcite biotite chlorite schist.	Rock brownish green fine grain Grains schistosed. Biotite chlorite calcite feldspath.	no min	35°	27
237	240	Pyroxenite?	Rock greyish green with white and green phenocrysts medium grain to flaky and fibrous Rock massive Alteration metamorphosed intrusive rock Mineral components mica calcite feldspar amphiboles? chlorite talc quartz py and po.	py po tr		28

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W 45-5-

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
248	253	Feldspar porphyry	Rock greyish green with white spots. Fine grain	no min	25-30	29
		biotite chlorite cal-	Fine grain with medium albitised feldspar grains.			
		careous siliceous schist	Rock stratified with schistosed plane Mineral			
		(augen schist?)	component biotite chlorite calcite feldspar quartz.			
253	273	Feldspar impure	Rock dark grey with green shades and white	no min	35°	30
		calcareous siliceous	spots and streaks.			
		schist (augen schist?).	Fine grain Feldspar Grains are foliated and			
			eliptical at places Rock stratified. Mineral			
			components biotite chlorite feldspar calcite.			
273	276	Quartzite	Rock grey. Fine grain and cystalline.	py po tr	30°	31
			Rock regularly stratified. Quartz calcite sericite.			
276	277	calcite quartz serici-	Rock grey with metalic bronze streaks. Fine	py po k-1%		32
		te schist with py po	grain to crystalline Grains schistosed. Rock			
		streaks.	stratified sedimentary grain sericite calcite			
			quartz feldspar py po.	1360		
277	280	calcite quartz sericite	Please note that logged assay footage is 5'	py po 1-3%	30-35°	33
		schist with py po	more than assay result footage, because of	cu=.17%		
		possibée weak c nd.	drillers' error in footage. Same as above.	sl tr 1405		
280	280.5	"	" cu .2% sl tr 276'-277'	py po 1-3%	30°	
280.5	281	"	"	py po 1-2% 1406	30-35°	36
281	282	"	"	py po 1-3%	30-35°	
				cu=1-3% sl tr.		
282	287	calcite sericite	Rock grey with 1-2cm black bands. Fine grain to	py po tr 1%	35°	35
		quartzite with 1-2cm	crystalline. Grain schistosed at places. Rock			
		regular alternating	stratified. quartz, sericite calcite graphite py po.			
		graphite bands.				

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
287	288^{3}	sericite siliceous graphitic schist.	Rock black with white streaks Fine grains. to crystalline. Grain schistosed at places. Rock stratified. Quartz calcite sericite graphite py po.	py po tr	25 35°	35
288^{3}	297	[illegible] graphitic schist. calcite sericite quartzite with 1-2mm regular alternating graphite bands.	Rock grey with 1-2mm black bands. Fine grain to crystalline. Grains schistosed at places. Rock stratified. Graphite increases at places. Quartz, sericite calcite.	py po tr	35°30	37
297	308	graphite impurities with calcite chlorite impure quartzite.	Rock dark grey with shades of green and white specks and streaks at certain places. Fine grain with albitized feldspar phenocrysts at places Rock appears to be poorly stratified quartz graphite impurities calcite chlorite feldspar sericite and py po tr.	py po tr	30-35°	38
308	309	sericite chlorite schist.	Rock green Fine grain Rock schistosed Sericite chlorite biotite calcite	no min	30-35	39
309	318	Fine biotite schist with thin calcite lamination	Rock greyish brown with white streaks or bands fine grain. Grains schistosed Rock stratified biotite calcite quartz sericite chlorite.	py po no min tr.	30-35	40
318	351	calcite biotite chlorite schist with thin beds of calcite schist and biotite schist.	Rock greyish green with brown and green bands at places. Fine grain Grains schistosed quartz strings Rock stratified biotite calcite chlorite sericite quartz.	py po tr	35°	41-4
354	355	[illegible] quartzite	Rock grey. Fine grain crystalline at places. Rock stratified. quartz calcite [illegible] chlorite.	py po tr	30°	42

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
355	362^{5}	Biotite chlorite quartz schist	Rock grey with brownish sheen and greyish green shades. Fine grain to crystalline. Rock schistosed. calcite stringers Quartz calcite biotite chlorite sericite feldspar py po tr.	py po tr	30°	44
362^{5}	371^{5}	mica feldspar chlorite dike or sill?	Rock green with dark green and white phenocrystals fine grain to flaky and medium Fine phenocryst Texture prophyroblastic. Rock massive. Mineral components chlorite amphiboles? biotite calcite feldspar at 366^{4}-367 quartz vein.	py tr		45
371^{6}	387	biotite chlorite schist alternating with 1-2" chlorite schist beds.	Rock greenish brown with brown and green bands fine grain Grains schistosed Rock stratified with schistosed plane. Biotite chlorite calcite quartz sericite feldspath	no min	35°	46-47
387	892	Fine biotite schist	Rock has brownish sheen. Fine grain Gra n schistosed rock stratified. Biotite Quartz feldspar	no min	35°	48
392	411	Scattered graphite impurities with calcite biotite schist alternating with sericite schists.	Rock dark brown with black and white streaks fine grain grains schistosed and crystalline at places. Rock stratified beds regular to irregular and wavy. Biotite sericite calcite graphite impurities Quartz stringers.	py tr	30-35°	49-50
411	416	Sericite schist with thin beds of biotite schist.	Rock greyish green with brown bands fine grain Rock schistosed biotite sericite calcite quartz.	py po tr	35	51
[illegible]	[illegible]	biotite schist	Rock has black brown and grey band. Fine grain Rock bfown fine grain Rock schistosed calcite biotite sericite quartz feldspar.	py po tr	30-35	52

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
[illegible]	[illegible]	Graphite streaks with biotite schist and alternating with calcite impure quartzite.	Rock has black, brown and grey band. Fine grain to flaky and crystalline at places Rock stratified beds regular to wavy and irregular graphite biotite calcite quartz feldspar.	py po tr	30-35	53
[illegible]	472	calcite sericite biotite schist.	Rock brown Fine grain. Grains schistosed Rock stratified with schistosed place. Calcite biotite sericite quartz.	no min	30-35	54
472	475	sericite schist with quartzite.	Rock grey to light grey Fine grain to crystalline Rock stratified Quartz calcite sericite.	py po tr 2%	30-35	55-5
475	486	calcite sericite biotite schist.	Rock brown with 1-2mm scattered white bands fine grain Rock schistosed Calcite sericite biotite quartz py po tr.	py po tr	35	56
486	486^5	Impure quartz vein.		no min.		
486^5	[illegible]	calcite biotite sericite schist with sulfides conductor.	Rock greyish brown. Fine grain Rock schistosed Calcite biotite sericite quartz py po cu zn ag.	py po 3-5%	35	

	cu	zn	ag	
486^5-487^5	.03	.50	.06	1361
-488^5	.12	.40	.12	1362
-490^3	.20	.35	.14	1363
-492^3	.07	tr	.05	1364
-494^9	.10	tr	.08	1365
-496	.05	tr	.05	1366
-497^5	0.10	.40	.07	1367
-[illegible]^7	tr	tr	[illegible]	[illegible]
-[illegible]^5	tr	nil		[illegible]
-[illegible]^5	[illegible]	[illegible]		[illegible]
-[illegible]^5	[illegible]	nil		[illegible]

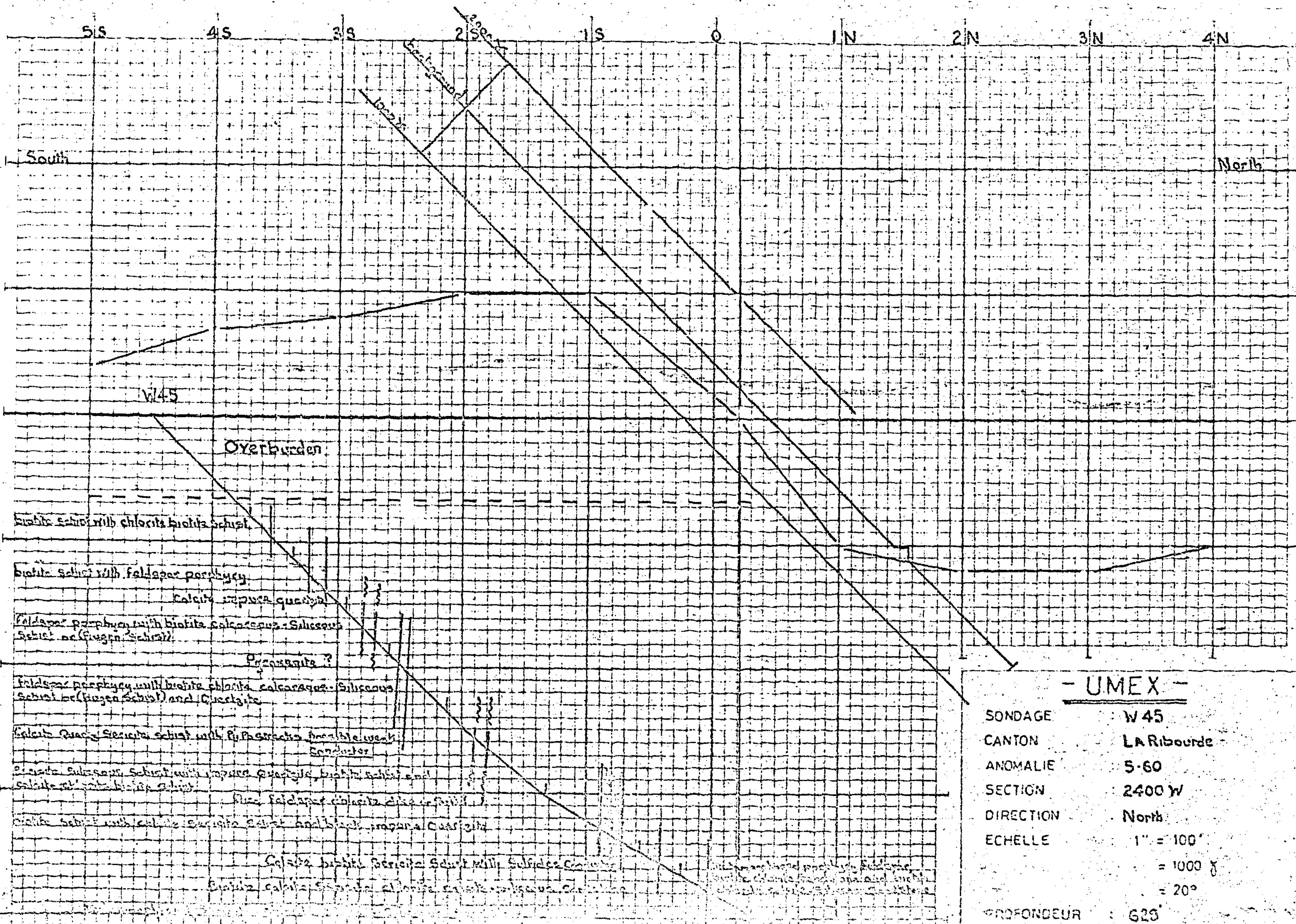
Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
			-502.5 tr nil .05 1372			
			-503.5 tr nil 1373			
			-505 tr nil 1374			
505	517.6	Calcite sericite schist with biotite sericite beds.	Rock greyish brown Fine grain Rock schistosed. Biotite calcite sericite quartz py po tr.	py po tr	35	58
517.6	519.6	quartzite	Rock grey with brownish grey bands Fine grain Grains crystalline Rock stratified Quartz feldspar calcite biotite.	py po tr	35	59
519.6	529	calcite biotite sericite schist	Rock brown. Fine grain. Rock schistosed Biotite calcite sericite quartz	py po tr	35°5	60
529	532	Thin graphite band with impure quartzite	Rock grey with black bands. Fine grain to crystalline. Rock stratified Quartz feldspar calcite graphite mica.	py po tr	35°	61
532 -	539	calcite quartzite with a 6" beds of sericite schist.	Rock grey with light green shades Fine grain with albitized feldspar Rock appears to be stratified quartz feldspar calcite chlorite sericite.	py po tr	35°	62-63
539	539.6	Thin graphitic bands with impure quartzite	Rock grey with black bands. Fine grain Rock stratified graphite quartz feldspar calcite sericite.	no min	35°	
539.6	560	metamorphosed sericite chlorite calcite siliceous sandstone	Rock grey with light green shades with white albitized specks at places. Fine grain Rock stratified. quartz feldspar calcite chlorite sericite quartz veinlets 1-2" in section.	no min	35	64
560	572	Gradual contact meta-[illegible] chlorite [illegible] calc [illegible] siliceous	Rock light green Fine grain Rock stratified quartz, chlorite sericite [illegible]	no min	35°	65

JEB. 47794

W-45-30

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
572	584	alternating thin bands	Rock ~~[illegible]~~ #45 alternating bands, grey with dark grey	py po tr	30-35	66
		of quartzite with calcite	and green. Fine grain to crystalline Rock			
		schist and biotite	stratified with regular alternating beds.			
		chlorite siliceous	Iuartz feldspar biotite sericite calcite			
		schist.	py po.			
584	601	metamorphosed biotite	Rock dark greyish green with brown specks.	no min	30-35	67
		chlorite calcite	Fine grain with recrystallized grains feldspar			
		siliceous sandstone.	chlorite quartz, biotite calcite			
601	625	Metamorphosed porphyry	Rock dark greyish green with brown specks.	no min		6[illegible]
		feldspar biotite	and white albitized spots. Fine grain with			
		chlorite sandstone.	albitized porphyritic texture Rock poorly			
			stratified beds show graded bedding alteration			
			metamorphosed graywakce. Quartz feldspar chlorite			
			mica calcite.			
-		Estimated core recovery	96%			
		Scintillometer check	No radioactive minerals.			
		Dip test at	90' -44°			
			200'-44°			
			300'-45°			
			400'-40°			
			500'-25°30'			
			600'-26°			
		SUMMARY:				
0	90.0	Overburden				
90	135	Biotite schist with chlorite biotite schist beds.		no min	40-45°	
135	176	biotite schist with feldspar porphyry		no min	[illegible]	
176	197	calcite impure quartzite		no min	35°	

Profondeur de	à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
197	237^{6}	Feldspar porphyry with biotite calcareous siliceous schist or (augen schist?)		no min	35°	
237^{6}	248	Pyroxenite?		no min		
248	277	feldspar porphyry with biotite chlorite calcareous siliceous schist (augen schist?)		py po tr	"	
277	287	calcite quartz sericite schist with py po streaks possible weak cond.		py po 2-4% cu .2% sl tr.	30-35	
287	362	sericite siliceous schist with impure quartzite biotite schist and calcite chlorite biotite schist.		py po tr.	"	
362	371^{5}	Mica feldspar chlorite dike or sill		py tr.		
371^{5}	486	biotite schist with calcite sericite schist and black impure quartzite beds		No min	30-35	
486	505	calcite biotite sericite schist with sulfides cond.		py po 3-8% cu .1-.2% zn tr .3% ag tr .1%	35°	
505	540	biotite calcite sericite schist with thin graphitic bands and impure queur quartzite.		no min.	35°	
540	584	(biotite calcite sericite schist with thin graphitic bands and impure) metamorphosed sericite chlorite calcite siliceous sandstone		no min	35°	
584	625	metamorphosed porphyry feldspar biotite chlorite sandstone and biotite chlorite calcite siliceous sandstone.		no min	"	



- UMEX -	
SONDAGE	W 45
CANTON	LA Ribourde
ANOMALIE	5-60
SECTION	2400 W
DIRECTION	North
ECHELLE	1" = 100'
	= 1000 γ
	= 20°
PROFONDEUR	623'

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

[illegible] : La Ribourde.

REGION: [illegible] SONDAGE No.: [illegible] 72 Profondeur: 819 Foré par: [illegible]

ANOMALIE: 5.60 DIR. et INCL.: North 70° Commencé le 8-1-70 Machine: Décrit par: S. [illegible]

CLAIM: 284294-4 Coord. locales: X= 2000W Y=450S Z= Terminé le 9-2-70 Diam. Forage: [illegible]

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
[illegible]	[illegible]	Overburden				
[illegible]	[illegible]	biotite schist	Rock grey brown fine grain Grains schistosed with recrystallized foliated quartz feldspar. Rock schistosed Rock stratified with schistosed place. Alteration metamorphosed sedimentary Rock Mineral components quartz feldspar biotite calcite chlorite.	no min	70°	1
[illegible]	37	biotite sericite schist	Rock grey green with bonwnish sheen Fine grain Grain schistosed Rock stratified with schistosed plane mineral components quartz feldspar biotite sericite calcite.	no min	80°	2
[illegible]	[illegible]	Fine biotite schist	Rock greyish brown. Fine grain Rock schistosed and stratified mineral compo nents quartz feldspar calcite chlorite.	no min	70°	3
[illegible]	[illegible]	biotite schist with porphyritic feldspar	rock greenish grey to brown with white spots Fine grain with white phanocryst of albitised feldspar. Grains schistosed. Rock poorly stratified at placesbeds appear to be graded Rock metamorphosed feldspar albitized Min comp. biotite chlorite calcite feldspar quartz 116 117 quartz veinlet.	no min	65-70	4

JEB 47046 5C-1-69

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
117	125			Biotite schist to calcite quartzite	Rock brown to grey fine grain to flaky Rock stratified. Quartz feldspar calcite biotite chlorite.	no min	65-70	5-6
125	133			biotite schist with porphyritic feldspar	Rock greenish grey with brown. Fine grain with white phenocryst of albitized feldspar rock stratified biotite chlorite calcite feldspar quartz.	no min	65-70	7
133	138			calcareous biotite sericite impure quartzite	Rock greyish green to brown Rock fine grain to crystalline quartz calcite feldspar biotite sericite	no min	65-70	8
138	139			flaky biotite schist.	Rock brown grains flaky rock schistose biotite quartz feldspar.	no min	65-70	9
139	143			impure quartzite with fracture calcite filling.	Rock greyish green to brown. Fine crystalline. Rock stratified with regular alternating beds quartz calcite feldspar mica.	no min	65-70°	10
143	143^5			talc sericite chlorite schist.	Rock green. Grains flaky Rock schistosed chlorite sericite chlorite biotite calcite.	no min	65-70	11
143^5	172			1-2 biotite schist with biotite calcareous siliceous schist.	Rock greyish green to brown Fine grain to crystalline and flaky biotite at places.	no min	58	12-[illegible]

JEB 47046 5C-1-69

72-3

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					Rock stratified with regular alternating beds quartz feldspar calcite biotite sericite gith 3-6" veinlet at 169.6.			
172	174			calcite sericite schist.	Rock green with silvery sheen. Fine grain to flaky at places. Rock schistosed sericite biotite calcite quartz.	no min	65	14
178	190			1-2'biotite schist with biotite calcareous siliceous schist.	Rock greyish green to brown Fine grain to crystalline and flaky biotite at places. Rock stratified with regular alternating beds. Quartz feldpsar calcite biotite sericite.	no min	60-65	15
190	193			impure quartzite with 1-2mm of calcite bands.	Rock greyish brown. Fine grain to crystalline. Rock stratified with regular thin laminated beds quartz feldspar biotite calcite sericite.	no min	60-65	16
193	200			feldspar biotite calcareous siliceous augen schist to biotite calcareous siliceous schist.	Rock greyish brown with white spots. Rock fine grain and schistosed with spots of feldspar . There is decrease in grains a gradual contact. biotite calcite feldspar quartz.	no min	60°	17-18
200	205			Biotite calcareous schist to biotite sericite schist.	Rock greyish brown to green. Fine grain to flacky and soapy. Rock schistosed biotite calcite sericite chlorite feldspar.	no min	60°	19

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
205	212			sericite schist.	Rock green with silvery sheen. Fine grain to flaky and soapy. Rock schistosed sericite chlorite talc.	no min	60°	20-
212	231			biotite calcareous siliceous schist with alternating 1-2' beds of biotite schist and sericite schist.	Rock greyish reen to brown Fine grain to flaky and soapy at places. Rock schistosed and stratified along schistosed plane. Mineral components biotite sericite calcite quartz feldspar chlorite.	no min	60-65	21-2 23
231	242			biotite impure quartzite	Rock alternating bands of brownish grey to grey fine grain to crystalline. Rock stratified with regular alternating rhythmic lamination. Quartz feldspar biotite sericite calcite.	no min	55-60	24
242	260			biotite calcareous siliceous augen schist?	Rock greyish green with white spots Fine grain with medium albitised grains. Rock stratified with schistosed plane Min. compl feldspar chlorite biotite calcite sericite.	no min	55-60	25
260	272			biotite calcareous siliceous schist	Rock greyish green. Fine grain Grains schistosed albitized feldspar decreases. Rock regularly stratified with alternating laminated beds. Min. component feldspar quartz biotite sericite.	no min	55-60	26

Profondeur		No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
de	à							
272	300			biotite calcareous siliceous augen schist. g min	Rock greyish green with white spots fine grain with medium albitized feldspar grains Rock stratified with schi.tosed plane. mineral comp. biotite calcite quartz feldspar chlorite.	no min	45-50	27
304	320			biotite calcareous siliceous schist.	Rock greyish green to brown Fine grain grains schistosed albitized feldspar decreases Rock regularly stratified with alternating laminated beds. Min. comp. feldspar quartz calcite biotite sericite.	no min	45-50	28
320	323			impure quartzite	Rock grey. Fine grain and crystalline Rock strat. mineral Component quartz calcite sericite feldspar.	no min	40-45	29
323	328			impure quartzite with 1-2mm scattered streaks of pyrrhotite possible weak cond.	" except at 323 quartz veinlet a trace of cu at place.	po 3-4%	40-45	30
328	334			impure quartzite	"	py tr ½%	40-45	31
334	339			biotite calcareous siliceous siliceous schist with biotite sericite schist and quartz veinlets.	Rock reyish brown to green fine grain with recrystallized quartz rock poorly strat. progressive contact. min. comp. sericite biotite feldspar quartz calcite chlorite.	no min	40-45	32-3

~~W 72-6~~

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
~~339~~	~~364~~			~~pyroxenite?~~	~~Rock greyish green with white and green phenocrysts. Medium grain to flaky and fibrous. Rock massive. Alteration Metamorphosed intrusive Rock? Min. comp. mica calcite feldspar quartz. amphibole chlorite pyroxene talc? ;~~	~~py po tr~~		~~3[illegible]~~
~~364~~	~~400~~			~~feldspar calcite biotite pyroxenite?~~	~~Rock greyish green with brownish sheen and white and green phenocryst like spots . Medium to fine and flaky at places. Rock massive There is a decrease in grain size. near the end of the section. Alteration Rock appears to be finer grain near the end possibly due to rapid cooling by chilled borderncontact min. comp. feldspar calcite biotite amphibole pyroxene sericite chlorite .~~	~~py po tr~~		~~35-~~ ~~36-~~
~~400~~	~~405~~			~~calcite sericite impure quartzite.~~	~~Rock grey with greenish green shades fine grain. Grain at places appear to be crystalline. Rock stratified. Min. component sericite calcite quartz biotite.~~	~~py po tr~~	~~35-40~~	~~38~~
~~405~~	~~405~~^{9}			~~black graphite sericite calcite impure quartzite.~~	~~same as above except section has irregular bands of graphite impurities.~~	~~py po ½-1%~~	~~35-40~~	~~39~~

JED 47046 50-1-69

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
405[9]	427			Greyish green calcite impure quartzite.	Same as above with scattered graphitec streaks decreases in the section.	py po	35-40°	40
427	429			biotite calcite sericite schist.	Rock greenish brown fine grain to flaky Rock schistosed mineral component biotite calcite sericite quartz.	py po tr ni min	35-40	41
429	434			graphite calcite sericite schist.	Rock blackish green Fine grain to flaky. Rock schistosed graphite calcite quartz sericite.	py po tr	35-40	42
434	438			calcite sericite schist	Rock green fine grain to flaky Rock schistosed calcite quartz sericite.	py po tr		43
438	450			quartzite with calcite fracture filling possible weak cond.	Rock light grey fine grain to crystalline. Rock stratified with regular thin alternating beds. quartz, calcite, feldspar, mica, sericite py po mineralization 0.5 min, thin streaks of interbedded py po.	py po 1-3%	35°	44-45
450	468			alternating calcite mica schist with 3-6" beds of chloritic schist.	Rock has alternating bands of greyish brown with green. Fine grain to flaky Rock schistosed chloritic mica quartz feldspar calcite at 450[5]-451 quartz vein.	py po tr	35°	46

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
468	471[5]			mica amphibole chlorite dike or sill	Rock green fine grain with medium fine flaky phenocryst Rock massive to foliated Mineral component chlorite calcite mica amphibole feldspar	py po tr		47
471[5]	477			biotite chlorite schist to biotite schist.	Rock greenish grey with brownish shen to grey fine grain. Rock schistosed Mineral component biotite chlorite quartz feldspar calcite	no min	30-35°	48
477	500			calcite biotite schist	Rock grey wit bonwnish sheen fine grain to flaky rock schistosed mineral component biotite quartz feldspar calcite.	no min	30-35°	49
500	502			feldspar chlorite biotite spotted schist.	Rock green with white spot. Fine grain to crystalline with phenocryst albitized feldspar.	no min	30	50
502	512			biotite schist	schis same as 477-500	no min	30	51
502	516			sericite siliceous schist with 6" feldspar chlorite porphyry.	Rock greenish grey fine grain grains schistosed rock schistosed quartz calcite biotite sericite feldspar chlorite	no min	30	52
516	544			flaky biotite schist to fine biotite schist.	Rock grey with brownish sheen fine grain to flaky with fine medium albitized feldspar grains. Rock schistosed biotite quartz feldspar calcite.	no min	30	53-54

Profondeur		No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
de	à							
544	571			progressive contact. fine biotite schist with scattered alternating ½-3% black siliceous graphite slate.	Rock greyish brownish with scattered bands black Fine grain and crystalline in black bands. rock strat. with schistosed plane. Quartz biotite calcite graphite	no min	30°	55-5
571	578			black siliceous graphite slate wit scattered 3-5" biotite schist.	Rock black with brownish grey bands. fine grain to flaky rock strat. mineral compouent biotite quartz graphite calcite	no min	30°	57-5
578	580			biotite schist	same as 501-512[5]	no min	30-35°	
580	585			black siliceous graphite slate possible weak conductor.	same as 571-578	no min	30-32°	59
585	591			calcite sericite quartzite.	Rock grey green fine grain to crystalline Rock strat. with regular alternating beds. Quartz sericite calcite biotite.	py po ½-1%	30°	60
591	594			biotite sericite schist to sericite calcite quartzite with streaks of sulfides weak cond.	Rock grey green with shader of brown fine grain to flaky and slightly soapy Rock stratified with schistosed plane. Quarts calcite biotite sericite mineralization streaky py po.	1638 py po 2-3% sl tr. cp tr.	30°	

JEB 47046 50-1-69

Profondeur dé	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
594	595			"	"	1639 py po 3-4% cp tr2% sl tr 2%	30°	
595	597			"	"	1640 py po 3% cp tr 1% sl tr 1%	"	"
597	597^8			"	"	1641 py po 5% cp tr 2%		
597^8	598^5			"	"	1642 py po tr1%	"	
598^5	599			"	"	1643 py po sl 1-2% cp tr.		
599	605			"	"	py po 1-2%	30°	61
605	606^8			" cond.	"	1644 py po 5-8% cp 1-25% sl 1-2%	"	
606	608^3			"	"	1645 cp 4-7%		
607	608			"	"	1646 cp tr 1%	"	
608	609^5			"	"	1647 py po 10% cp 5-10% sl 2-3%	"	

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
609^{5}	612			"	"	1548 py 2% cp tr sl tr1%	"	
612	614			"	"	1649 sl 1-2% cp tr.	"	
614	615^{5}			"	"	1650 py po tr 1%	"	62
615	6165			"	"	1651 cp tr 1%	"	
617	618^{5}			"	"	1652 cp tr 1%	"	
618	620			"	"	1653 cp tr 1%	"	"
620	621			"	"	1654 cp tr sl tr.		
621	623^{5}			"	"	1655 sl tr	"	
623^{5}	647			sericite biotite schist to fine biotite schist.	Rock grey with brownish sheen fine grain rock schistosed quartz biotite feldspar sericite py po	py po tr	30°	63
647	650			quartzite	Rock grey with green shades fine grain to crystalline rock stratified	py po tr	30°	64
650	661			biotite schist	same as 502-512^{5}	py po tr no min.	30°	65
661	685			calcite biotite schist sericite.	Rock greyish green fine grain to flaky rock schistosed quartz calcite biotite sericite.	py po tr no min.	80°	66

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
685	720			chlorite biotite sericite calcite impure quartzite.	Rock greyish green fine grain to crystalline Rock strat. wit schistosed plane min. comp. chlorite biotite sericite calcite quartz feldspath py po tr.	no min	30°	67-69
720	723			dark grey impure quartzite.	Rock dark grain fine grain to crystalline	no min	30°	69
723	736			metamorphose biotite sericite calcite schist to biotite sericite calcite siliceous sandstone.	Rock greenish green to brown. Fine grain to flaky min. components calcite quartz sericite biotite.	no min	35	70-71
736	758			porphyry feldspar calcite biotite chlorite sandstone.	Rock dark greyish green with brown specks and white albitized spots. Fine grain with albitized porphyritic texture. Rock poorly strat. beds show graded bedding. Quartz feldspar calcite chlorite mica calcite.	py tr	35	72-73
758	804			metamorphosed biotite chlorite calcite siliceous sandstone with biotite sericite.calcite schist	Same as 723-736	py tr	35	74-75

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
804	807			fine biotite schist	same as 502-513	no min	30-35	76
807	819			metamorphosed biotite	Rock greenish grey with white specks	no min	30-35	77
				chlorite calcite	fine grain with feldspar spots.			
				feldspar quartz sandstone.	Rock poorly strat. show graded			
					bedding(Rock poorly strat.)			
					chlorite biotite quartz feldspar calcite.			
				Estimated core recovery	97%			
				Dip test at	200 à 800			
				Scintillometer check	No radio active Minerals.			

MEB 47046 50-1-69

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				SUMMARY:			
0	68			Overburden			
68	95			bi tite schist	no min	70°	
95	133			biotite sc ist with porphyritic feldspar	no min	65-70	
133	190			1-2" biotite schist with biotite calcareous siliceous schist	no min	60-65	
190	242			biotite calcareous siliceous schist with alternating 3-2" beds of			
				biotite schist and sericite scuist	no min	60°	
242	320			biotite calcareous siliceous schist with biotite calcareous siliceous			
				augen Schist?	no min	50-55	
320	339			impure quartzite	py po tr 1%	45-40	
339	364			pyroxenite?	py po tr.		
364	400			feldspar calcite biotite pyroxenite?	py po tr		
400	438			greyish green calcite sericite impure quartzite with calcite			
				sericite schist	py po tr	35-40	
438	450			quartzite with calcite fracture fillings possible weak cond	py po 1-3%	"	
450	468			alternating calcite mica scnist with 3-6" bed of chloritic			
				schist	py po tr	35	
468	471			mica amphibole chlorite dike or sill	py po tr		
471	544			calcite biotite sc ist with biotite chlorite schist	no min	30-35	
544	591			fine biotite schist with scattered alternating ½-3" beds			
				siliceous slate graphite	no min	30	
591	623			biotite sericite schist to sericite calcite quartzite			
				with streaks of sulfides cond	py po 3-6" cu tr sl tr.	30	
623	723			sericite biotite schist to biotite schist with impure quartzite			
				bed.	py po tr.		
723	819			metamorphosed biotite sericite calcite schist to biotite sericite			
				calcite siliceous sandstone with porphyry feldspar calcite biotite			

ISE. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: LA RIBOURDE

DESCRIPTION SONDAGE

REGION: MAS. SONDAGE No.: M 87 Profondeur: 759' Foré par: BENOIT.

ANOMALIE: 5.60 DIR. et INCL.: 70° North Commencé le 10-2-70 Machine: Décrit par: S. ESSOB

CLAIM: 284394 cl. 4 Coord. locales: X=1200 Y=450 Z= Terminé le 18-2-70 Diam. Forage: NL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	100	Overburden				
100	122	calcareous siliceous biotite schist.	Rock grey with brown and white, feldspar specks. Fine grain. Grains are schistosed. Rock stratified with schistocity. Alteration- sedimentary origin. Min. comp. biotite, calcite feldspar quartz.	no min	70°	1
122	167	calcite chlorite sericite schist.	Rock greyish green. Fine grain to flaky at places. Rock schistosed. Calcite chlorite sericite minor quartz and feldspar at 164- 164[8] quartz vein.	no min	70°	2
167	180	calcite chlorite sericite 1-8" with calcite biotite schist.	Rock grey with brown bands. Fine grain to flaky at places. Rock schistosed. Biotite chlorite sericite feldspar quartz progressive contact.	no min	65-70°	3
180	199	chlorite calcareous siliceous biotite schist with feldspar porphyry or augen schist.	Rock greyish brown with shades of green and white spot. Fine grain . Rock schistosed . Min. comp. feldspar biotite chlorite sericite calcite quartz.	no min	65-50°	4

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
199	213			calcite biotite sericite schist alternating with 1-6" biotite calcareous siliceous schist.	Rock greyish green to brown. Fine grain to flaky. Rock schistosed biotite calcite sericite chlorite mica quartz feldspar.	no min	55-60	5-6
213	222			alternating calcite sericite schist with dark grey impure quartzite.	Rock greyish green with dark grey bands Fine grain to crystalline and cherty at plates. Rock strat. Core blocky. Quartz feldspar calcite sericite biotite	no min	60	7-8
222	265			calcite biotite schist with porphyritic feldspar.	Rock greyish brown with white albitized spots. Fine grain with white phenocryst of albitized feldspar. Rock schistosed. Origin possible graywacke? Biotite calcite sericite minor quartz feldspar.	no min	55-60	9-10
265	284			1-2" black impure quartzite alternating with calcite biotite schist.	Rock alternating black and brown bands. Fine grain to crystalline. Rock strat. with regular alternating beds. Min. component. ex-graphite feldspar quartz biotite calcite sericite.	no min	55-60	11
284	298			calcite biotite schist to biotite calcite sericite schist.	Rock grey brown Fine grain to flaky. Rock schistosed. Biotite calcite sericite minor quartz feldspar.	no min	55	12-13

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
[illegible]	[illegible]			flaky ~~talc~~ pyrophyllite, calcite sericite schist.	Rock green with white specks, to streaks Fine grain to flaky. Rock soapy >2 <4. Rock schistosed. calcite sericite biotite ~~talc.~~ pyrophyllite.	no min	55	[illegible]
320	340			fine biotite schist with scattered 1-4" sericite schist beds.	Rock greyish brown. Fine grain. Rock schistosed. biotite calcite sericite feldspar quartz.	no min	55	1[illegible]
340	362			biotite schist with feldspar porphyry. or augen schist?	Rock brown with white spots. Fine grain with medium fine albitized. Feldspar. rock schistosed. Biotite calcite minor quartz feldspar sericite.	no min	45-50	[illegible]
340	360			Biotite calcareous siliceous schist and calcite biotite sericite alternating with regular 1-2" impure quartzite bed.	Rock alternating bands of grey to brown fine grain to crystalline. Rock regularly stratified. Quartz feldspar biotite sericite.	no min	55-50	[illegible]
[illegible]	372			Flaky calcite sericite schist to flaky biotite schist.	Rock brown to greyish green. Fine grain to flaky. Rock schistosed. Sericite calcite biotite.	no min	[illegible]-50	[illegible]
372	[illegible]			[illegible]	[illegible]	no min		[illegible]

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					Rock massive. Rock metamorphosed intrusive. Biotite sericite calcite chlorite amphibole.			
382	405			pyroxenite?	Rock greyish green with white and green phenocryst. Medium grain to flaky and fibrous at places. Rock massive alteration metamorphosed, basic intrusive Rock Min. comp. mica calcite. Feldspar amphibole chlorite pyroxene.	no min py po tr		23
405	434			feldspar calcite biotite pyroxenite?	Rock greyish green with brownish sheen and white and green phenocryst like spots. Medium to fine and flaky at places. Rock massive. These is a decrease in grain size near the end of the section. Quartz veinlet at 404-404[5]. Alteration. Rock appears to be finer grain near the end possibly due to raped cooling or chilled Border contact. Min. comp. feldspar calcite biotite amphibole pyroxene sericite chlorite.	no min py po tr.		24
434	486			sericite biotite chlorite (progressive contact).	same as 373-382	no min		25

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
446	482			calcite biotite schist with feldspar porphyry or augen schist.	Rock brown with white spots. Fine grai with medium fine albitized feldspar Rock schistosed. biotite calcite feldspar chlorite quartz.	no min	40-45	26-2?
482	503			progressive contact. fine calcite biotite schist.	Rock brown fine grain. Rock schistosed. biotite calcite minor quartz feldspar.	no min	40	28
503	537			1-2" to dark grey calcite alternating grey impure quartzite with calcite biotite schist to sericite biotite calcareous schist.	Rock green with brown and blackish grey band. Fine grain to crystalline Rock strat. with schistosity. Quartz feldspar calcite biotite sericite.	no min	35	29&30
537	544			calcite impure quartzite to calcite biotite siliceous sericite schist	Progressive contact.	no min	35	31-32
544	552			biotite amphibole chlorite chlorite Sill.	Rock green with brown shades Fine grain with medium fine flaky phenocrysts. Rockmassive to foliated. min comp. chlorite calcite biotite amphiboles feldspar?	no min		33
552	588[5]			calcite chlorite biotite	Rock greyish brown with green bands.	no min	35	34

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
s				sericite schisto with 3-4" calcite biotite schist.	fine grain to flaku. Rock schistosed calcite chlorite biotite sericite feldspar minot?.			
582	586			calcite sericite schist with 1 mm-2mm calcite quartzite and 1 mm py po streak. Possible weak cond.	Rock grey fine grain Rock regularly strat. quartz calcite sericite.	py po 1-3%	p 35	35
586	592			calcite biotite sericite schist.	Rock greyish green Fine grain Rock schistosed biotite calcite sericite.	py po 1-2%	30-35	36
592	593			" with quartz vein	"	1717 py po 3-4% cp 2-3%		
593	600			talcy sericite schist	Rock more greener and soapy to touch. scattered bands 1 mm 2 m of fulfides. local sctter sl. and cp. tr.	py po 1-3%	30	37
600	601[5]			sericite biotite schist talcy sericite schist with scattered irregular calcite quartz bands and streak py po weak cond.	Rock brownish green Fine grain to flaku. Rock schistosed. biotite sericite chlorite quartz calcite.	py po 3-4%	30	38-39

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
601^5	602			"	"	1719 py po sl 1-2% 5-7% cp.	30	
602	606			"	"	py po 3-6%	30	40
606	610			talcy sericite schist	same as 503-600	py po 1-3%	30	
610	611			" with streaks sulfides weak cond.		1719 py po 7-9% cp sl 1-2%	30	
611	613			"	"	py po 3-4%	30-25	41
613	617			talcy sericite schist	"	"	"	
617	618			"	"	1720 py po 5-6% cp 1-2%	"	
618	630			talcy sericite schist to biotite sericite schist.	" except biotite is increasing near the section	py po 1-2%	20-25	42-4
630	630^5			"	"	1721 py po 3-4% sl 4%		
630	630^5			"	"	1721 py po 3-4% sl 3%	"	
630^5	637			alternating calcite	Rock			

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
630[5]	637			alternating calcite quartzite with biotite sericite schist.	Rock banded. Brown to grey with quartz stringers. Rock strat.	py po tr1%	35-30	44-45
637	644			Flaky calcite biotite schist.	Rock brown flaky and schistosed. biotite calcite sericite quartz.	py po tr	30	46
644	663			scattered 1-4" black siliceous graphite slate with biotite to sericite schist and calcite seri- cite quartzite.	Rock has black with greyish brown to grey bands. Fine grain to crystalline and flaky at places. Rock regularly strat. quartz calcite sericite graphite biotite.	py po 1-2%	25-30	47a49
663	665			graphite slate cond	Rock black. fine grain and strat. graphite quartz sericite py po	py po 3-4%	25-30	50
665	679			alternating 1-6" black siliceous sericite graphite with fine biotite calcite siliceous schist.	Rock has black to grey bands. fine grain Rock strat. Quartz calcite sericite ex-graphite biotite py po.	py po tr 2%	25-30	51a53
679	682			fine biotite calcite siliceous schist to calcite siliceous sericite schist.	same as above except graphite decreases to absent.	py po tr 1%	40-45	54

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
682	682^{5}			Quartz vein with massive sulfides cond.	1677 py po 20-30% cu 3.0-[illegible].5% cu sl. 1%		
682^{5}	684			Massive sulfides	1678 po 80-90% cu 2-3% 1%		
684	685			"	1679 "		
685	686			calcite sericite schist with massive sulfides cond.	1680 py po 20-30%		
686	687^{2}			Massive sulfides.	1681 po 90-80% cu 2-3% sl 4%		
687	689			"	1682 "		
689	690			calcite sericite schist with brecciated sulfides mineralization cond.	1683 po 20-15% cu 1-2% sl 3%		
690	691^{4}			"	1684 cu 1-2% sl 1-2%		
691^{4}	692				1685 py po 10% cu 2- sl 3.		
692	693^{8}				1686 "		
693	695^{8}				1687 "		

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~~W 57-10~~

Profondeur		No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
de	à							
695^8	698			"	"	1838 py po 2-10% cu 4-2 sl 4-3	40-35	
698	700^5			Calcite sericite schist	Rock same as above except sulfide mineralization decreases and	1722 py po 1-3% cu tr sl tr.	40-35	
700^5	703^7			"	"	py po tr 1%	30-35	55
703^7	704^2			"	"	1723 py po 2-3% sl 5%	30°	
704^2	706^3			Alternating black siliceous sericite graphite slate with calcite sericite schist.	Rock black to green bands.	py po tr	15-20	56
706^3	709			calcite cherty impure quartzite	Rock grey fine grain rock stratified	py po tr	25-30	57
709	711			"	"	1724 py po 3-4% cu tr al 1-3		
711	713			alternating 1 mm 2 mm black siliceous	same as 704^2-706^2	py po tr	25-30	58

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
				sericite graphite slate with calcite sericite schist.				
713	721			calcite sericite schist to calcite sericite biotite schist.	Progressive contact.	no min py po	"	60-61
721	759			flaky calcite biotite schist with feldspar por- phyry alternating to green sericite schist and scattered impure quart- zite beds.	Rock grey brown with grey to green bands Fine grain to flaky with recrystal- lized Quartz or feldspar at places.? Rock schistosed. biotite calcite sericite quartz feldspar at 733-735 quartzite bed.	no min py po tr local sl tr.		60-61 62-63 64-

ESTIMATED CORE RECOVERY 96%

Dip test at 100= 73°

200= 68°

300=66°

400= 60°

500= 51°

600=43°

700= 33°

SCINTILLOMETER CHECK NO RADIO ACTIVE MINERALS.

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
0	100			Overburden			
100	122			calcareous siliceous biotite schist	no min	70°	
122	180			calcite chlorite sericite schist with 1-3" calcite biotite schist.	no min	70°	
180	199			chlorite calcareous siliceous biotite schist with feldspar			
				porphyry or augen schist?	no min	65-70°	
199	222			calcite biotite sericite schist alternating with 1-6" biotite			
				calcareous siliceous schist	no min	60	
222	265			calcite biotite schist with feldspar porphyry	no min	55-60	
265	284			1-2" black impure quartzite alternating with calcite biotite			
				schist.	no min	55-60	
284	373			calcite biotite schist with calcite sericite schist and biotite			
				schist with feldspar porphyry or augen schist.	no min	55-40	
373	382			sericite biotite chlorite progressive contact	no min.		
382	405			pyroxenite?	no min py tr.		
405	446			feldspar calcite biotite pyroxenite	no min		
446	482			calcite biotite schist with feldspar porphyry or augen schist	no min	40-45	
482	537			calcite biotite schist sericite biotite calcareous schist			
				alternating with 1-2" grey to dark grey impure calcite quartzite no min.			
537	544			calcite impure quartzite to calcite biotite siliceous sericite			
				schist	no min	35°	
544	552			biotite amphibole chlorite sill	no min		
552	582.5			calcite chlorite biotite sericite schist with 3-4"			
				calcite biotite schist	"	35°	
582.5	586			calcite sericite schist with 1 mm 2 mm calcite quartzite and 1 mm			
				py po streak possible weak cond.	py po 1-3%	30-35°	
585	600			talcy sericite schist to calcite biotite sericite schist	py po 1-3% cu		
600	613.5			sericite biotite schist talcy sericite schist with scattered	irregular		
					py po 3-4%	30°	

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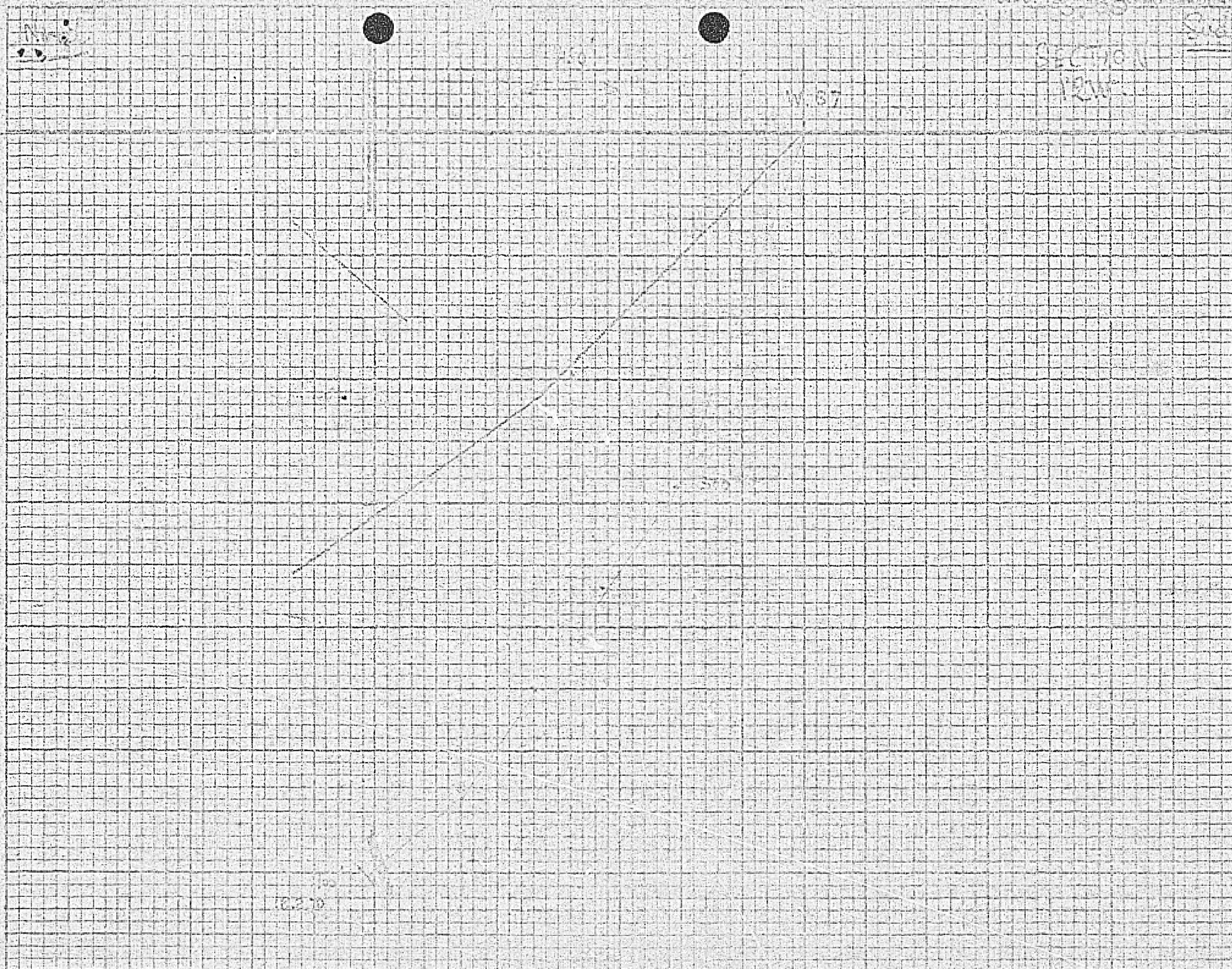
Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				calcite quartz bands and py po streak weak cond.			
613.5	644			talcy sericite schist to biotite sericite schist	py po 1-2%	20-25	
644	663			scattered 1-4" black siliceous graphite slate with biotite to sericite schist and calcite sericite quartzite.	py po 2-3%	25-30	
663	665			graphite slate cond	py po 3-4%	"	
665	682			alternating 4-6" black siliceous sericite graphite with fine biotite calcite siliceous schist	py po 1-2%	25-30	
682	698			calcite sericite schist with massive sulfides cond. cu-2%	py po 50-70% zn 1-2%	40-45°	
698	713			alternating 1 mm 2 mm black siliceous sericite graphite slate with calcite sericite schist and calcite cherty impure quartzite	py po 2-3% sl tr 1.	25-30	
713	759			calcite sericite schist to calcite biotite schist with feldspar porphyry and 6-12" scattered impure quartzite beds ~~to calcite biotite schist with feldspar porphyry~~	no min	25-30	



SECTION
VIEW
W.67

LO. 47791

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: LA RIBOURDE

DESCRIPTION SONDAGE

REGION: MAS SONDAGE No.: U 91 Profondeur: 770' Foré par: BENOIT

ANOMALIE: 5.60 DIR. et INCL.: 70° North Commencé le 25-2-70 Machine: Décrit par: S. ESSOP

CLAIM: 231302 1 Coord. locales: X=800 W Y=450 S Z= Terminé le 3-3-70 Diam. Forage: XL

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	76	Overburden				
76	109	calcite biotite se-	Rock greyish green with white spots. Fine grain	no min	70	1-2
		ricite siliceous schist	to flaky at places with white albitized spots.			
		with fine albitized	Rock strat. with schistosed plane. Alteration			
		feldspar porphyry	possible metamorphosed lithic graywack?			
			sedimentary origin. Quartz calcite albitized			
			feldspar chlorite sericite biotite.			
109	121½	biotite schist with	Rock brown with alternating grey with greyish	no min	65-70	3-
		thin 1-2" regular al-	brown bands. Fine grain to crystalline at places.			
		ternating thin calcite	Rock strat. with schistosed plane quartz			
		biotite sericite schist	biotite sericite calcite.			
		and fine impure quartzite				
		beds.				
121	168	sericite biotite cal-	Rock greyish green with white spots. fine grain	no min	60	5
		cite siliceous schist	with with white albitized fine spots. Rock			
		fine albitized felds-	strat. with schistosed plane. alteration meta-			
		par porphyry.	morphosed greywacke. Min comp. quartz feldspar			
			biotite sericite calcite.			
168	183	biotite siliceous	Rock greyish brown with grey bands. fine grain	no min	55-60	6-7

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				schist with thin 1-3" regular alternating thin biotite sericite schist and calcite impure quartzite.	to crystalline. Rock strat. calcite quartz biotite sericite.			
183	188^5			quartz vein with irregular biotite schist and calcite quartz sericite schist.	Rock white with brown irregular bands. and streaks. Fine grain to flaky and crystalline Rock poorly strat. with lenticular quartz carbonate. Local shear zone? quartz calcite flaky biotite sericite.	?no min		8
188^5	192^5			biotite schist with alternating quartzite beds.	Rock brown with grey bands fine grain to crystalline. Rock strat. quartz calcite biotite sericite.	no min	60-65	9
192^5	198			impure quartzite with calcite sericite fracture fill?ng?.	Rock grey fine grain to crystalline Rock slighly cherty. Rock strat. quartz calcite feldspar sericite mica.	no min py tr	55-60	10
198	224			calcite biotite siliceous schist.	Rock greyish brown. Fine grain to partially crystalline. Rock strat. with schistosity. alteration metamorphosed sediment. Min. comp. quartz feldspar biotite calcite sericite.	no min	55-60	11
224	225			flaky talcy sericite schist.	Rock greyish green Fine grain	no min	55-	12

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendago	No Echantillon Témoin
					to flaky. Rock . Rock schistosed sericite calcite chlorite talc.			
225	287			calcite bitotôte siliceous schist with calcite biotite siliceous schist white feldspar porphyry.	Rock greyish brown with white spots at places. Fine grain to ~~pently~~ partially crystalline at places. with white fine albitized porphyry and quartz. fine Rock strat. with schistosity. quartz feldspar calcite sericite biotite.	no min	50-55	13à15
287	311			biotite sericite siliceus schist with calcite sericite biotite siliceous schist with fine feldspar porphyry	Rock greyish green with brown foliated speck and white spots at places. Fine grain with fine albitized feldspar spots. Rock appears to be like crystalline sericite. hardness ≥3 < 5. Rock strat. with regular thin beds. finer material to medium calcareous rock schistosed with stratification. min. comp. quartz quartz sericite calcite biotite feldspar chlorite at 306^{5}-307 quartz vein.	no min	45-50	16-17
311	312			flaky talcy sericite schist.	same as 224-225	no min	40-45	18
312	330			biotite sericite siliceous schist with calcite	Rock grey green with white spots specks specks and brown. Fine grain to crystalline.	no min	40	19-2[illegible]

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
				sericite siliceous schist with feldspar porphyry.	Rock schistosed with regular strat. beds. min. compl quartz feldspar sericite calcite biotite.			
330	333			calcite biotite sericite siliceous schist with thin impure quartzite beds.	Rock greyish green with grey bands. fine grain to crystalline. Rock strat. quartz feldspar calcite sericite.	no min	40	21
333	336			flaky calcite sericite schist to flaky calcite biotite schist progressive contact.	Rock green to greenish brown with white calcite streaks. fine grain to flaky and soapy Rock schistosed calcite sericite biotite quartz feldspar	no min	40-35	22
336	353			flaky calcite sericite biotite schist.	Rock greyish brown with white streaks fine grain to flaky with recrystallized grains. Rock schistosed. quartz feldspar calcite sericite biotite.	no min	40-45	23-24
353	355			pyroxénite?	Rock green fine to medium remanent pyroxene? also flaky at places. Rock massive. chlorite amphibole pyroxene biotite quartz calcite.	no min		25
355	358^{5}			flaky calcite biotite schist.	same as 336-533	no min	40	26

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
358^{5}	359^{3}			pyroxenite?	Same as 353- 355 possible intertonguing bed in a facie change.	no min		27
359^{3}	361^{5}			flaky calcite biotite schist.	same as $355-358^{5}$	no min	40	28
361^{5}	410			biotite cherty siliceous schist with feldspar porphyry (graywacke)	Rock greyish brown with white spot. fine grain to crystalline hardness 5 6 with feldspar porphyry sorting of grain poor to fair. Rock strat. with schistosity. quartz feldspar calcite sericite biotite.	no min	40	29-3
410	412			talcy sericite schist	same 224-225	no min	40	31
412	424			biotite cherty siliceous schist with fine feldspar porphyry to biotite schist progress contact.	Rock brown with grey streaks. rock crystalline to flaky. There is a graded in grain size in section Rock strat. quartz biotite calcite feldspar sericite.	no min		32
424	428			flaky biotite schist	Rock brown fine grain to flaky Rock schistosed biotite calcite sericite.	no min	35-40	33
428	478			alternating thin beds of biotite schist with biotite sericite schist and 1-4" black to grey impure quartzite slate.	Rock has regular alternating black dark grey brown and brownish green bands. Fine grain to crystalline. The dark grey bands are usually crystalline. green bands flaky. Rock strat. with regular	no min	35-40	34-3

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					thin alternating beds. Min.comp. quartz feldspar ex-graphitepigmentation sericite calcite biotite.			
478	490			sericite biotite schist to flaky biotite schist progressive contact.	Rock grey green to brown fine grain to flaky rock schistosed biotite calcite sericite quartz feldspar.	no min.	35	34
490	506			biotite schist	Rock brown. fine grain to flaky with speckof recrystallized quartz Rock schistosed. biotite calcite quartz sericite.			
506	541			calcite biotite sericite schist.	Rock greyish green with brown specks fine grain to flaky and soapy at places. Rock schistosed. calcite sericite biotite talc? chlorite.	no min	35	38
541	547			biotite schist alternating with impure quartzitic slate.	Rock alternating grey with brown bands. Rock strat. quartz calcite biotite.	no min	30-35	39
547	551			talcy chlorite sericite sill? (metamorphosed amphibolite sill).	Rock green Grain flaky to fibrous soapy to touch. Rock massive sericite chlorite talc calcite.	no min		40
551	561			calcite biotite sericite schist to biotite schist.	progressive contact	no min	30	41-42

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Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
561	577			flaky biotite schist	424-428	no min	30	43
577	579			sericite schist	Rock light green fine grain grains compacted Rock strat. calcite sericite biotite py po tr ½%.	py po tr ½%	25-30	44
579	596			flaky biotite schist	561-577	no min	25-30	45
596	597			black graphite sericite siliceous slate.	Rock black fine grain to crystalline Rock strat. regular thin beds. quartz sericite graphite calcite fracture filling.	no min		46
597	599			black graphite sericite siliceous slate with graphite slate cond.	" 2 except there are more graphite and laminations.	no min	20-25	47
599	603			black graphite sericite siliceous slate.	same as 596-597	no min	"	48
603	604.5			black graphite slate cond.	Same as 597-599	no min	20-25	49
604	611			black graphite sericite siliceous slate with sericite schist.	same as 596-597 except sericite schist beds are interbedded.	"	"	50
611	625			sericite schist	Rock grayish green fine grain to soapy grains schistosed rock strat. with schistosity sericite calcite biotite talc py po	py po 1-½%	20-25	51

Profondeur de	à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
625	627			sericite schist with 1"		1728 py po	"	
				m 2 mm py po streaks		3-4%cp tr sl	tr.	
				weak cond.				
627	628			"	"	1729 "	"	
628	635			sericite schist	"	py po 1-½% sl tr		
							2	52
635	641			black graphite sericite	506-597	py po tr		
				siliceous slate.		no min	25-30	53
641	659			sericite schist to	Rock greyish green fine grain to flaky and			
				biotite sericite schist	soapy Rock schistosed sericite calcite			
					chlorite talc biotite quartz py po			
					scattered ½ mm streaks.	py po 1-½%	30	54-55
659	661			black graphite sericite	596 597	no min	30	56
				siliceous schist.				
661	681			sericite schist	same as 611- 625 except biotite increasing			
						py po tr 1%	30	57-58
681	701			biotite schist	same 561-577 biotite calcite sericite	no min	30	59
701	712			biotite schist alterna-	" except the scattered grey siliceous	no min	30	60-6
				ting with thin impure	bands are presen t.			
				quartzite beds.				

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantilion Témoin
~~712~~	~~730~~			~~biotite sericite siliceous schist impure siliceous sandstone.~~	~~Rock grey green to grey. Fine grain to crystalline. Rock schistosed and stratified. quartz, feldspar, calcite, sericite, biotite.~~	~~no min~~	30	~~62-6~~
~~730~~	~~738~~			~~black graphite sericite siliceous schist to impure sericite siliceous schist.~~	~~Rock same as 596-597 except graphite decreases near the end of the section.~~	~~py po tr~~	20	64
~~738~~	~~747~~			~~flaky sericite schist.~~	~~Rock greened thin section 611-625 due to chlorite or talc.~~	~~no min~~	20	~~65-6~~
~~747~~	~~770~~			~~biotite sericite siliceous schist .~~	~~Rock greyish. green with brown speck fine grain to flaky at places. Rock strat. with schistosed plane. quartz calcite biotite sericite feldspar chlorite? .~~	~~no min~~	20-25	~~67-6~~

~~Estimated core recovery~~ 97%

~~Scintillometer check~~ ~~No radio active minerals.~~

~~Dip test at 100=70°~~

~~200=68°~~

~~300=60°~~

~~400=55°~~

~~500=48°~~

~~600=35°~~

~~700=30°~~

~~SUMMARY:~~

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
0	76			Overburden			
76	188			calcite biotite sericite siliceous schist with fine albitized feldspar porphyry biotite schist with thin 1-2" alternating thin calcite biotite sericite schist and fine impure quartzite bed.	no min	70-60	
188	198			biotite schist with alternating impure quartzite bed	no min	55-60	
198	353			calcite biotite siliceous schist calcite biotite siliceous schist with white fine feldspar porphyry and flaky talcy sericite schist to flaky calcite sericite biotite schist	no min	55-40	
353	355			pyroxenite?	no min		
355	358			flaky calcite biotite schist	no min	40	
358	359			pyroxenite	no min		
359	428			biotite cherty siliceous schist with feldspar porphyry graywacke to biotite schist			
428	478			alternating thin beds of biotite schist with biotite sericite schist and 1-4" black to gray impure quartzite slate	no min	35-40	
478	547			sericite biotite schist to flaky biotite schist	no min	30-35	
547	551			talcy chlorite sericite sill? metamorphosed amphibolite sill			
551	596			flaky biotite schist with sericite schist		25-30	
596	604			black graphite sericite siliceous slate with raphite slate cond	py po tr	20-25	
604	611			black graphite sericite siliceous slate with sericite schitt	py po 1-1½%	"	
611	625			sericite schist	"	"	
625	627			sericite schist with 1mm 2 mm py po streaks weak cond	py po 3-4% cp sl tr.	25	
627	661			sericite schist to biotite sericite schist and scattered black graphite sericite siliceous schist	py po tr 1%	30	
661	730			sericite schist to biotite schist and scattered impure quartzite beds	no min		25°
703	770			black graphite sericite siliceus schist with flaky sericite schist to biotite sericite siliceous schist.	no min	20-25	

DIV. 47045 20-1-69

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: LA RIBOURDE

REGION: WAS SONDAGE No.: W 98 Profondeur: 924' Foré par: BENOIT.

ANOMALIE: 5.60 DIR. et INCL.: 70° North Commencé le 4-3-70 Machine: Décrit par: S. ESSOP

CLAIM: 284394-3 Coord. locales: X= 2400W Y= 450S Z= Terminé le 13-3-70 Diam. Forage: WL.

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
0	62			Overburden				
62	68			sericite biotite calcite silicdous schist	Rock greyish green fine grain to flaky rock schistosed, rocks strat. with schistosed plane. alteration Rock metamorphosed mi. comp. sericite biotite calcite quartz feldspar chlorite.	no min	70	1
68	72			flaky calc8te biotite schist.	Rock brownish grey fine grain to flaky rock schistosed min. comp. sericite biotite calcite quartz.	no min	70	2
72	75			biotite calcite siliceous schist with porphyritic feldspar	Rock greenish grey with shades of brown and white spots. fine grain with white medium fine phenocryst of albitized feldspar. rock strat. with schistosed plane. alteration metamorphosed graywacke. min. comp. quartz feldspar calcite chlorite biotite sericite.	no min	70	3
76	97			flaky calcite biotite schist with sericite schist alternating with	same as 62-67 and 72-76- and green sericite schist beds.	no min	70	5à6

JIT 47040 50-1-69

W 98-2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
				biotite calcite calcareous schist with porphyritic feldspar.				
97	156			biotite calcite siliceous schist with porphyritic feldspar and scattered 1-3' calcite sericite schist and flaky biotite schist.	same as 68-72' 76-94	no min60-65		7à9
156	227			fine siliceous biotite schist alternating with thin 1-2mm fine impure quartzite. flaky biotite schist calcite sericite schist and scattered 3-6' biotite calcite siliceous schist with porphyritic feldspar.	same as 69-72 76-96 except there are regular thin alternating fine impure quartzite beds with siliceous biotite schist in sections.	no min	55-60	10à1
227	232			chlorite sericite schist.	rock green fine grain to flaky hardness 2 4 soapy rock schistosed min. chlorite sericite talc minor calcite.	no min	55	13
232	247			fine biotite schist with scattered 1-10" sericite [illegible]	rock brown with grey streaks and green scattered bands, rock schistosed biotite [illegible] calcite sericite.	no min	50-55	14

JEB 47046 50-1-69

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		98-3 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
247	274			sericite biotite calcite siliceous schist with feldspar porphyry.	Rock greyish green with white spots. fine grain with medium phenocryst of albitized feldspar and recrystallized quartz Rock strat. with schistosed plane quartz feldspar chlorite sericite calcite biotite. at 264-264- quartz vein.	no min	45-50	16=1
274	298			flaky calcite biotite schist to fine siliceous biotite schist.	Rock brown with grey streaks fine grain to flaky rock schistosed min. comp. biotite calcite quartz sericite minor garnet.	no min	45-50	18à2
306	312			fine biotite schist alternating with ¼-½" grey calcite quartzite and fine black quartzite beds.	same as above except there are fine black quartzite beds with fine grey quartzite beds.	no min	50-55	22
298	306			fine biotite schist alternating with ¼-½" grey calcite quartzite beds.	Rock has brown and gray bands. fine grain to crystalline quartzite beds. rock strat. quartz calcite biotite sericite.	no min	46-50	21
312	316			fine black impure quartzite or slate	rock black fine grain rock strat. min. comp. quartz feldspar ex-graphite. calcite sericite.	no min	50-55	23
316	317			fine biotite schist alternating with ¼-½" grey calcite quartzite.	same as 298-306	no min	50-55	24

JED 47036 50-1-69

W 98-4

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
317	349			biotite calcite siliceous schist with feldspath porphyry	rock greyish brown with white spots fine grain with fine medium albitized feldspar and recrystallized quartz rock strat. metamorphosed graywacke. min. comp. biotite calcite sericite quartz feldspar.	no min	50	25
349	357			progressive contact flaky biotite chlorite schist.	rock greyish brown to green find grain to flaky rock schistosed progressive contact min. comp. biotite chlorite calcite.	no min	45	26
357	373^{3}			pyroxenite?	rock green with dark green phenocryst of amphiboles and pyroxene. fine grain chllrite matrix with pyroxene and amphibole phenocrysts. rock massive metamorphosed ultra basic intrusive rock to amphibolite? min. comp. chlorite calcite amphiboles pyroxene	no min		27
373^{3}	383			flaky biotite schist to chlorite biotite schist.	rock brown with greenish brown beds fine grain to flaky rock schistosed calcite biotite chlorite calcite.	no min	45-50	28
383	402			biotite chlorite calcite siliceous schist with feldspar porphyry.	Rock greyish green with white spots. fine grain with medium white albitized feldspar rock strat. with schistosity. alteration migration metamorphosed graywacke min. comp. biotite calcite quartz feldspar chlorite and sericite.	no min	40-45	29

JEB 47046 50-1-69

W 98-5

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
402	408			impure quartsite with calcite fracture filling to calcite quartz seri- cite schist.	rock grey			
408	409			calcite quartz sericite schist with py po streaks possible weak cond.	Rock greyish green fine grain to flaky at places. Rock schistosed calcite sericite py po quartz cp sl tr 1%	1736 py po 1-4% sl tr 1% xp 1-.2%	45	
409	409[5]			"	"	1737 "	"	
409[5]	411			"	"	1738 py po tr 1% sl tr.		
411	412[3]			"	"	1739py po 3-2% cp tr. sl tr.		
412	413			"	"	"	40	
413	420			calcite sericite impure quartzite with 1-2mm regular alternating black gra- phite beds.	rock grey with 1-2mm black bands fine grain to crystalline grains schistosed at places. rock strat. quartz sericite calcite ex-graphite py po tr.	py po tr	40-45	30
420	421			graphite slate cond	rock black fine grain rock strat. gra- phite quartz calcite.	no min	40-45	31
421	425			calcite sericite impure quartzite with 2-3mm alternating graphite beds.	same as 413-420	py po tr 1%	40-45	32

JEB 47046 50-1-69

W 98-6

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
425	429			graphite slate cond same as 420-421	py po tr 1%	40-45	33
429	431			chlorite calcite sericite schist with scattered 1-2mm of black graphite and impure quartzite clusters. progressive contact rock changes from graphite to chlorite calcite sericite schist.	py po tr 1%	40-45	34
431	431[8]			impure quartzite	1740 py po 1-2% sl tr. cp.		
431[8]	435			chlorite calcite sericite schist with scattered cluster of impure quartzite rock same as 429-431 graphite is decreasing	py po tr 1%	40-45	35
435	470			biotite calcite chlorite siliceous schist with feldspeds porphyry same as 383-402	py po tr	45	36
470	487			calcite biotite sericite schist with thin beds of chlorite sericite and impure fine quartzite. rock has greyish green gray and brownish bands. fine grain to crystalline and soapy at places. Rock strat. min calcite feldspar quartz sericite pyrophyllite py po tr quartz vein at 455-456' and 455-459'.	py po tr	40	37
487	492			mica feldspar calcite chlorite sil ? rock green with brown shades and white streaks. fine grain to flaky	no min		38

JEB-47046 50-1-69

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		W 98-7 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					rock schistosed alteration rock basic			
					intrusive rock metamorphosed min comp			
					chlorite sericite calcite feldspar biotite.			
492	542			biotite sericite schist	rock greenish brown with brown and	no min	40	39-40
				alternating with 1-3"	green bands to greyish green fine grain			
				chlorite sericite schist	to flaky with fine medium feldspar			
				and thick beds of biotite	spots. rock strat. with schistosed			
				sericite siliceous	plane beds show rhythmic bedding calcite			
				schist with fine feldspar por-	biotite sericite chlorite			
				phyry.	pyrophyllite? feldspar quartz.			
542	560			fine to flaky biotite	rock brown with brownish grey beds fine	no min	30-35	41-42
				schist with calcite	grain to flaky rock schistosed min. sericite			
				biotite sericite schist	calcite biotite minor to tr. quartz.			
				beds.				
560	564			" with graphite streaks	" except section has graphite	no min	35	43
564	645			fine to flaky biotite	same as 542-560	no min	30-35	44-45
				schist with calcite biotite				
				sericite schist beds.				
645	666			biotite schist with fine	Rock brown with white spots. fine	no min	30-25	46
				feldspar porphyry to biotite	to flaky grain rock schistosed			
				sericite schist bed.	biotite calcite sericite feldspar quartz.			

JEB 47046 5C-1-69

W 98-8

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
666	670			fine cherty impure quartzite	rock brownish grey fine grain to crystalline rock poorly strat. calcite fracture filling quartz sericite py po trl	py po tr	25	47
670	673			impure quartzite to carbonate siliceous sericite schist.	Rock same as above except it grades into calcite biotite sericite schist.	py po tr.	20	48
673	675			calcite sericite biotite schist.	rock brown fine grain to flaky rock schistosed biotite calcite sericite	py po tr	20	49
675	676^5			calcite sericite biotite schist to calcite sericite schist with streaks of sulfudes weak cond.	Rock same as above except it grades into calcite sericite schist min. scattered 1-2mm pyrite streaks. core blocky.	1741py po 1-3% sl tr cp tr.	20	
676^5	678			"	"	1742 "	20	
678	680			"	"	1743 "	"	
680	683			"	"	py po tr 1%	20	
683	685			"	"	1744 py po 2-3% sl tr cp tr.		
685	687^5			calcite sericite schist with 1-2" quartzite bands on py po streak weak cond.	rock grey fine grain to crystalline rock strat. calcite sericite quartzite.	1745py po 2-3%	20	
687^5	690			"	"	1746 py po 2-3%		

W 98-9

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
690	691^5			"	"	1747		
691^5	693			"	"			
693	694			calcite sericite biotite schist with sulfide streak.	same as 673-675	1748 py po 3-4%		
694	705			calcite sericite biotite schist to biotite calcite sericite schist.	rock brown to greyish brown fine grain to flaky rock schistosed calcite biotite sericite py po tr quartz.	py po tr	20	50
705	756			calcite sericite biotite schist alternating with b biotite schist beds.	rock greyish green with brown specks Fine grain. Grains schistosed sericite biotite carbonate chlorite.	py po tr no min	20	51à5
756	794			metamorphosed biotite calcite chlorite sandstone with feldspar porphyry.	rock greyish green with white spots fine grain with albitized feldspar rock strat. with schistosed plane.	no min	20	54
					chlorite sericite carbonate biotite feldspar	no min	20	54
794	795^5			thin graphite bands with sericite calcite impure quartzite.	rock grey with black bands fine grain rock strat. impure graphite quartz feldspar calcite sericite.	no min	20	55
795	882			calcite sericite biotite schist alternating with 3-4' calcite biotite schist beds.	same as 756-794 with scattered 1-4" quartz veinlets.	no min	[illegible]0	56à58

W 98-10

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
882	924			metamorphosed biotite rock greyish green with white spots	no min	20	59[illegible]
				chlorite calcite siliceous fine grain with white albitized			
				sandstone to feldspar feldspar rock strat. with schistosed			
				porphyry calcite biotite plane. feldspar calcite biotite quartz			
				siliceoussandstonel. sericite chlorite.			
				Estimated core recovery 96%			
				Dip test at 100 70°			
				200 67			
				300 65°			
				400 63			
				500 50°			
				600 42			
				700 38°			
				800 21			
				Scintillometer check No radio active minerals.			
				SUMMARY:			
0	62			Overburden			
62	97			flaky calcite biotite schist sericite schist alternating with	no min	70	
				biotite calcite siliceous schist with porphyritic feldspar.			
97	247			fine siliceous biotite schist alternating with thin 1-2mm fine			
				impure quartzite flaky biotite schist calcite sericite schist			
				and scattered 3-6' biotite calcite siliceous schist with			
				porphyritic feldspar	no min	55-60	
247	274			(sericite biotite quartz) Sericite biotite [illegible] porphyry	no min	[illegible]	

JEB 47096 50-1-69

W 98-11

Profondeur de	à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
274	298			flaku calcite biotite schist to fine siliceous biotite schist	no min	45-50	
298	318			fine biotite schist alternating with ¼-½" black to gray calcite quartzite beds.	no min	50-55	
318	357			biotite calcite siliceous schist with feldspar porphyry	no min	40-50	
357	373			pyroxdnite?	"		
373	383			flaky biotite schist to chlorite biotite schist9	no min	40-45	
383	408			biotite chlorite calcite siliceous schist with feldspar porphyry	"	"	
408	413			calcite quartz sericite schist with py po streaks possible weak cond cp sl tr.	py po 1-4%	45	
413	435	c		calcite sericite impure quartzite with pl-2mm regular black graphite beds and scattered 1-5' graphite slate cond.			
435	470			biotite calcite chlorite siliceous schist with feldspar porphyry	py po tr	45	
470	487			calcite biotite sericite schist with thin beds of chlorite sericite and impure fine quartzite	py po tr	40	
487	492			mica feldspar calcite chlorite sill?			
492	665			fine to flaky biotite schist with calcite biotite sericite schist		no min	20
665	673			fine cherty impure quartzite			
673	694			calcite sericite biotite schist to calcite sericite schist with 1-2" quartzite bands and scattered py po streak weak cond	py po 3-4% sl tr 1% cp tr. 1%	20	
694	756			calcite sericite biotite schist alternating with biotite calcite sericite schist to biotite schist	no min	20	
756	924			metamorphosed biotite calcite chlorite sandstone with feldspar porphyry calcite sericite biotite schist to feldspar porphyry calcite biotite siliceous sandstone.	no min	20°	

JEB. 4779?

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton LA RIBOURDE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 104 Profondeur: 353' Foré par: BENOIT.

ANOMALIE: S.60EST ext. DIR. et INCL.: 45° North Commencé le 21-3-70 Machine: Décrit par: S. ESS

CLAIM: Coord. locales: X= 2800E Y= 680S Z= Terminé le 23-3-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillo Témoin
0	16	Overburden				
16	39	albitized feldspar biotite chlorite schist.	Rock green with white foliated albitized specks no min fine to médium grain and flaky Rock schistosed rock strat. with schistosity plane. alteration metamorphosed sedimentary rock min. comp. carbonate albitized feldspar chlorite biotite sericite quartz vein at 19-20[5]	no min	40	1
39	50	calcareous sericite chlorite schist.	Rock green with white carbonate specks fine to medium grain and flaky rock schistosed Min comp. chlorite sericite carbonate biotite tr po tr. magn. tr 1% albitized feldspar tr.	po tr magn tr. 1%	40	2
50	58	calcareous biotite schist	Rock brown with White carbonate specks fine grain to flaky rock schistosed min. comp. biotite carbonate sericite	py po tr	40	3
58	76	albitized feldspar chlorite schist to amphibolite.	Rock green with white albitized specks Fine to medium grain. Rock poorly schistosed Min. comp. chlorite amphibole albitized sericite feldspar py po tr.	py po tr magn. no.	30-40	4
76	99	albitized feldspar	same as 16-39 and 58-76	py po tr	30-40	5-6

JEB. 50087

W104=2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
	99			biotite chlorite schist to albitized feldspar chlorite schist				
99	113			amphibolite	rock green with dark green laths fine grain to medium with phenocrysts amphibole laths Rock appears to be massive Min. comp. amphibole chlorite minor feldspar and carbonate	py po tr		7
113	117			calcareous biotite schist with sericite chlorite schist bed.	same as 50-58' except there is a sericite chlorite schist bed	no min	35	8-9
117	140			amphibolite	same as 99-113 except texture slightly coarser at places	py po tr		10
140	154			sericite chlorite schist with sparsly scattered 6-1' calcareous biotite schist.	same as 113-117 progressive contact zone.	py po tr no min	35-40	11-12
154	155			sericite schist with py streaks possible weak cond.	Rock greyish green fine grain grains schistosed min. comp. sericite chlorite carbonate minor siliceous matrix	1826 py po 1-3%	35°	
155	170⁵			calcareous sericite schist. with 6-2' calcareous biotite schist.	same as 113- 117	py po tr	35	13-14

JEB. 50087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		W 104-3 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
170 5	171			massive py cond.	min. 6" interbedded granular py	1827 py 70-80%		
171	236			alternating calcareous sericite schist with calcareous biotite schist and biotite sericite chlorite schist	Rock same as 155-170 5 except there is another biotite sericite chlorite schist bed with sequence.	py potr	35	15-17
236	237			graphite shale cond	Rock black fine grain Rock poorly strat. beds irregular to wavy min. comp. graphite py po tr carbonate stringer.s	py po tr	1%	18
237	238			"	"	1828 py po 6-7% cp tr.		
238	252			graphite shale cond	" core broken and black recovery 80%	py po tr		29
252	262			Graphiteous sericite schist with 1mm-2mm impure quartzite beds and scattered .5-1mm intercalated py po bands. weak cond.	Rock greyish green fine grain rock strat. with schistosed plane min. comp. sericite carbonate biotite fine siliceous mineral py po	py po 3-5%	25-20	20-21
262	268			calcareous sericite schist.	"	py po tr 1%	25	22
268	291			medium flaky calcareous	Rock brown with white mottlings	py po tr	25	23

W 104-4

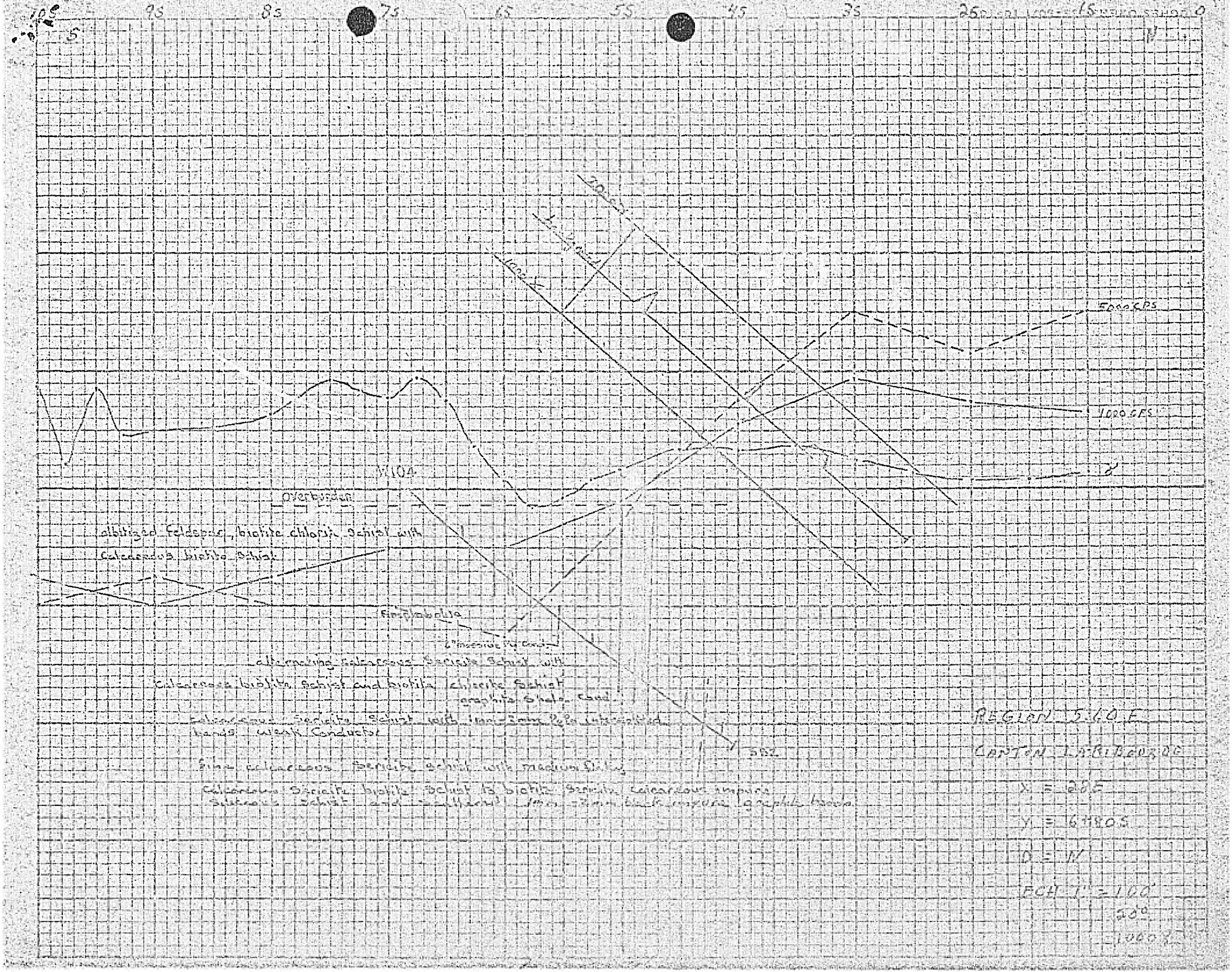
Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
	291			sericite biotite schist.	Medium grain grains schistosed Min. comp. biotite carbonate sericite chlorite.			
291	324			fine calcareous biotite sericite schist with biotite sericite calcareous impure siliceous schist.	Rock greyish green to green fine grain Rock strat. with schistosity plane Min. comp. biotite sericite carbonate fine feldspar quartz py po tr. core blocky recovery 80-90%	py po tr	25-20	25-26
324	353			" with 1mm-2mm scattered black impure graphite bands.	" core blocky	py po tr	20-25	26-27

Estimated core recovery 90%

Dip test at 100'- 40°

250'- 35°

Scintillometer chack No radio active minerals.


9S
8S
7S
6S
5S
4S
3S
2S
1S
0
N
2000 X
1000 X
5000 CPS
1000 CPS
W104
Overburden
albitized feldspar, biotite chlorite schist with
Calcareous biotite schist
alternating calcareous sericite schist with
Calcareous biotite schist and biotite chlorite schist
graphite shale band
hands weak conductor
REGION 5.10 E
CANTON LABIBOURDE
X = 285
Y = 6+80 S
D = N
ECH 1" = 100'
50°
1000 X

No. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

REGION: [illegible] SONDAGE No.: W 111 Profondeur: 370' Foré par: BENOIT

ANOMALIE: 5.60E DIR. et INCL.: South 50° Commencé le 2-4-70 Machine: Décrit par: S. ESSOP

CLAIM: Coord. locales: X= 4000E Y= 200S Z= Terminé le 5-4-70 Diam. Forage: AXT.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	49	Overburden				
49	64	1-2mm impure graphite streak with impure calcareous sericite siliceous schist (shear zone).	Rock dark grey with black bands. Fine grain Grains appear to be schistosed. Rock strat. with beds. alteration metamorphosed sandy shale. Min. comp. impure graphite carbonate sericite chlorite siliceous matrix. core broken local shear zone Poor recovery 70-80%	py tr	70	1
64	66.6	micro breccia feldspar quartz carbonate graphite cond. (shear zone).	Rock black and irregular white fragments Fine grains matrix with subangular fragments. Rock poorly strat. min. comp. graphite quartz carbonate feldspar py tr.	py tr		2
66.6	68	brecciated quartz carbonate with graphite impurities (shear zone).	Rock grey with black streak. Rock crystalline and subangular. Rock poorly strat. shear zone. min. comp. quartz carbonate feldspar graphite and sericite matrix at places py magnetite tr.	py 1-2% sl tr.		3
68	69.5	"	" sl. associated with the fractures.	1830 py 3-4% sl 3%		
69.5	70	"	"	1831 sl 4-5% py 1-2%		

JEB. 50007

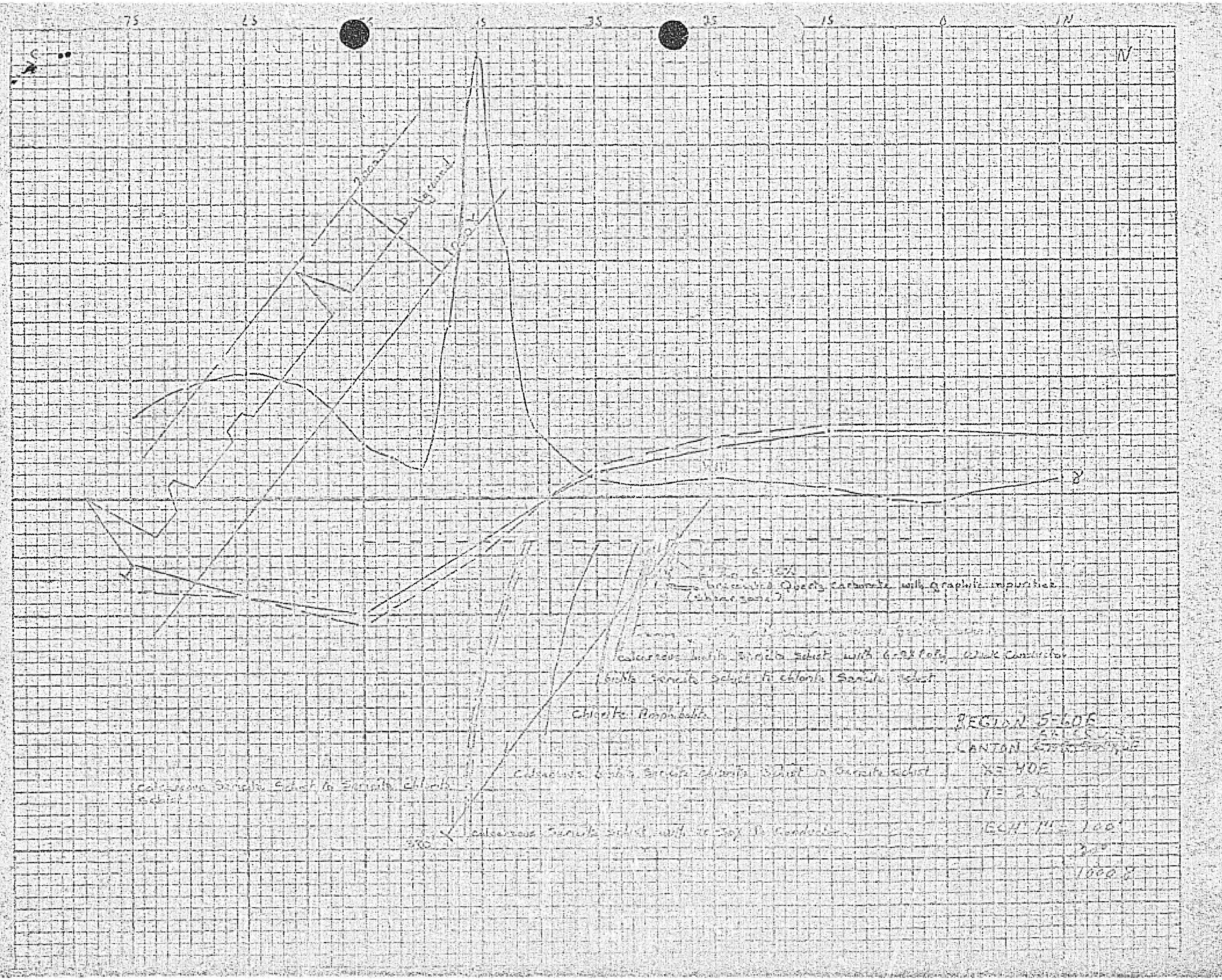
W 111 -2

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
70	73	"		"	"	1832 py 1-2% S .3-.4%		
73	75	"		"	"	sl tr py 1-2%		4
75	77	"		"	"	1833	sl 1-3%	
77	78	"		"	"	"		
78	80	"		"	"	1834 sl 3-4%		
80	91	1-2mm		graphite with calcareous biotite sericite schist.	Rock brownish grey with black streaks Rock fine grain to flaky at places. Rock poorly strat. beds are irregular to wavy Beds show slumplike structure due to local movement. min . sericite biotite biotite graphite carbonate py po cpy sl tr at places quartz.	py po 1-2% po 3% cpy tr	55-90° sl tr.	5
91 -	92[5]			calcareous biotite sericite schist with streaks of sulfides weak cond.	rock greyish brown fine grain to flaky Rock schistosed and flaky min. biotite carbonate sericite py po cpy and sl tr. 10%	1835 py po cpy 6-7% sl tr 10%	70-80	
92[5]	94			"	"	py po 3-4% "		6
94	97			"	"	1836 py po 4-5%	"	
97	98			"	"	py po 3% "		
98	100			"	"	1837py po 3-4%	70° sl tr.	
100	132			biotite sericite schist	Rock greyish brown fine grain to flaky	py po tr	60-70	7&9

B. 50087

W 100-3

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
132				to chlorite sericite schist.	Rock schistosed min. comp. sericite biotite chlorite carbonate quartz stringers.			
132	226			chlorite amphibolite	Rock green with dark green laths and white mattings. fine to medium grain Grains random to schistosed at places. min. comp. chlorite amphibole biotite feldspar py po tr quartz veinlets at places.	py po tr		10-11
226	295			calcareous biotite seri-cite chlorite schist. 9	Rock greyish green fine grain to flaky at placds Rock schistosed with the stratification min comp. sericite chlorite carbonate biotite minor blue quartz py po tr magnetite magnetic association due to magnetite.	py po tr magn. tr 2 %	60-65	12-13
295	323			" with scattered 6-5" quartz vein.	" except strat. becomes subvertical and show possible drag folding or local movement.	py po tr ½%	65-85	14-15
323	335			calcareous biotite sericite chlorite schist to sericite schist.	same as 226-295	py po tr	50-55	16
335	339			calcareous sericite schist with 20-30% po	Rock greyish green with apple green sheen 1838 cond. fine grain to flaky rock strat. with cond. with schistosed place.	po 20-30% py 1-2%	50-55	17



75
25
15
35
35
15
0
IN
N
Chlorite Amphibolite
REGION 5-60E
CANTON
X = 40E
Y = 25
100
1000

JEB. 56607

W 111-4

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
339	363			calcareous sericite schist. "	py po 1-2%	45-50	18
363	370			sericite chlorite schist rock apple green fine grain rock schistosed min. comp. sericite chlorite carbonate minor blue quartz	py po tr 1%	"	19

Estimated test at 350'- 53°

Scintillometer check no radio active mineral

Estimated core recovery 92°

Job. 47/93

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

DESCRIPTION SONDAGE

Canton: SAUSSURE

REGION: NAS SONDAGE No.: M 116 Profondeur: 451' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: North. 45° Commencé le 7-4-70 Machine: Décrit par: S. ..SSOP

CLAIM: Coord. locales: X= 3200E Y= 1000S Z= Terminé le 10-4-70 Diam. Forage: EL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	17	Overburden				
17	33	sericite chlorite schist	Rock green fine grain Grains schistosed ans well compacted hardness 4 5. rock strat. with schistosity alteration metamorphosed sedimentary rock Min. comp. chlorite sericite biotite po tr. mag. tr minor feldspar quartz scattered quartz vein 6-9"	py po tr mag. tr.	35-40	1
33	36	chlorite sericite biotite schist.	Rock greyish brown with green shades fine grain shades fine grain to flaky Rock schistosed. Min. comp. chlorite sericite biotite carbonate py po tr.	py po tr	35-40	2
36	73	sericite chlorite schist	same as 17-33	py po tr 1% mag. tr.	25-30	3-4
73	154	calcareous chlorite sericite schist with sericite chlorite schist to chlorite schist.	Rock green with brownish shades fine grain to flaky grains are schistosed beds schistosed to irregular at places. min. comp. chlorite biotite sericite carbonate py po mag. tr.	py po tr mag	25-30	5-6 7-8
154	194	sericite chlorite schist to chlorite amphibolite?	Rock green with white specks fine grain to medium fine grain and fibrous at places. Rock massive to schistose Min. comp. chlorite sericite biotite	py po tr	20-25	9-10

PED. 50007

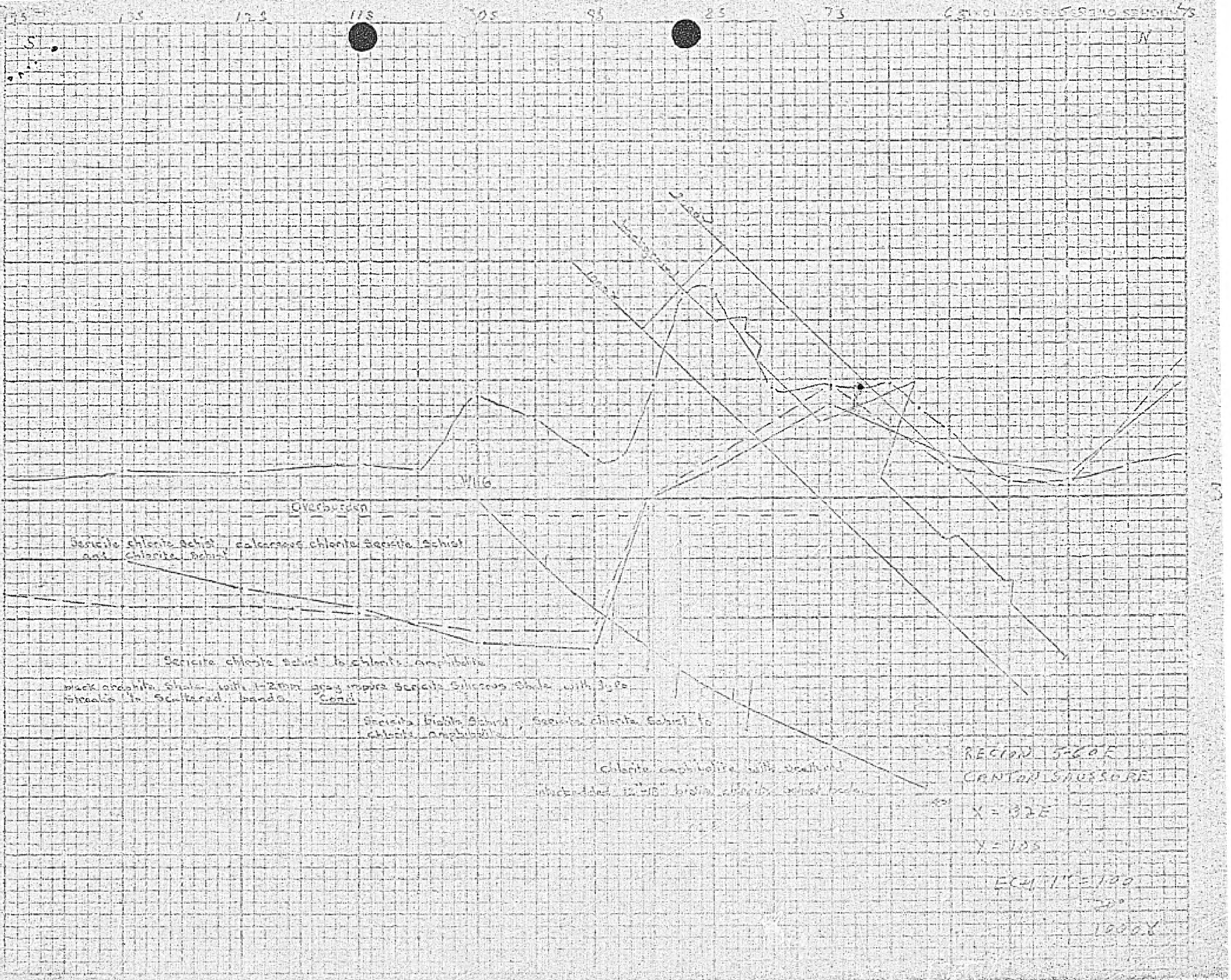
W 116-2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
					amphibolite carbonate py po streaks.			
184	193			calcareous sericite schist with calcareous sericite biotite schist beds.	Rock greyish green fine grain Grains schistosed min. comp. sericite carbonate biotite chlorite py po tr quarts fracture fillings.	py po tr ½%	20-25	11-12
193	196^{5}			black graphite shale with 1-2mm gray impure siliceous shale and py po streaks cond.	rock alternating black and gray bands fine grain Rock strat. beds regular to wavy laminated min. comp. graphite carbonate fine siliceous minerals.	py po 2-4%	20-25	13
196^{5}	200			gray impure sericite siliceous shale.	same as 133- 196	py po tr	20	14
200	215			black graphite shale with 2-3mm gray impure siliceous sericite shale and py po streaks cond.	same as $193\text{-}196^{5}$	py po 7-8%	20	15
215	217			"	"	1857 py po cp tr sl tr.	20-15%	
217	288			sericite biotite schist sericite chlorite schist to chlorite amphibole.	same as 154-184 ans 184-193	py po tr ½%	20	16à19

UEB. 50087

W 116-3

Profondeur de	à	No Carotte	Renci. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
288	450			~~chlorite amphibolite with scattered interbedded biotite 11-18" biotite chlorite schist beds.~~	~~rock green with white specks fine to medium grain and fibrous at places. grains random to schistosed at places. Min. comp. chlorite amphibole feldspar biotite sericite py po tr. and mag tr quartz veins carbonate fracture fillings.~~	~~py po mag tr~~		20824
				~~Estimated core recovery~~	~~95%~~			
				~~Dip test at 451' = 19°~~				
				~~Scintillometer check~~	~~No radio active minerals.~~			


S
N
WIG
Overburden
Sericite chlorite schist and chlorite schist
calcareous chlorite sericite schist
Sericite chlorite schist to chlorite amphibolite
black graphite shale with 1-2mm gray impure sericite siliceous shale with pyrite streaks in scattered bands. Cond.
Sericite biotite schist, sericite chlorite schist to chlorite amphibolite
Chlorite amphibolite with scattered interbedded 12"-18" biotite chlorite schist beds
REGION 5-60F
CANTON SAUSSURE
X = 32E
Y = 105
ECH. 1" = 100
1000.8

.ER. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 118 Profondeur: 373' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: South 45° Commencé le 15-4-70 Machine: Décrit par: S. ESSOP

CLAIM: Coord. locales: X= 4000E Y= 2850N Z= Terminé le 17-4-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	32	overburden				
32	35	porphyritic feldspar graywacke.	Rock greyish green .Fine grain matrix with medium to coarse feldspar porphyritic grains. Rock strat. with schistosed plane. alteration rock metamorphosed min. comp. feldspar quartz clay matrix sericite chlorite and minor carbonate.	no min	55-60	1
35	43	calcareous sericite biotite schist.	rock greyish brown fine grain to flaky grains grains schistosed rock schistosed. min. biotite sericite chlorite carbonate feldspar quartz.	no min	45-50	2
43	193	fine calcareous biotite sericite siliceous schist to calcareous biotite sericite schist and scattered 6-12" impure siliceous shale.	a) Rock gray with shades of green and brown streaks fine grain grains schistosed at places. grains appear soapy hardness>3<4. rock strat. with schistosed plane. min. comp. biotite sericite carbonate silicéous matrix pyrophyllite and scattered quartz pyrochlore veins.	no min	45-50	3à5
			b) Rock dark grey fine grain to crystalline rokk straté min. comp. quartz feldspar impure graphite pigmentation.	no min	45-50	6

JCB. 50087

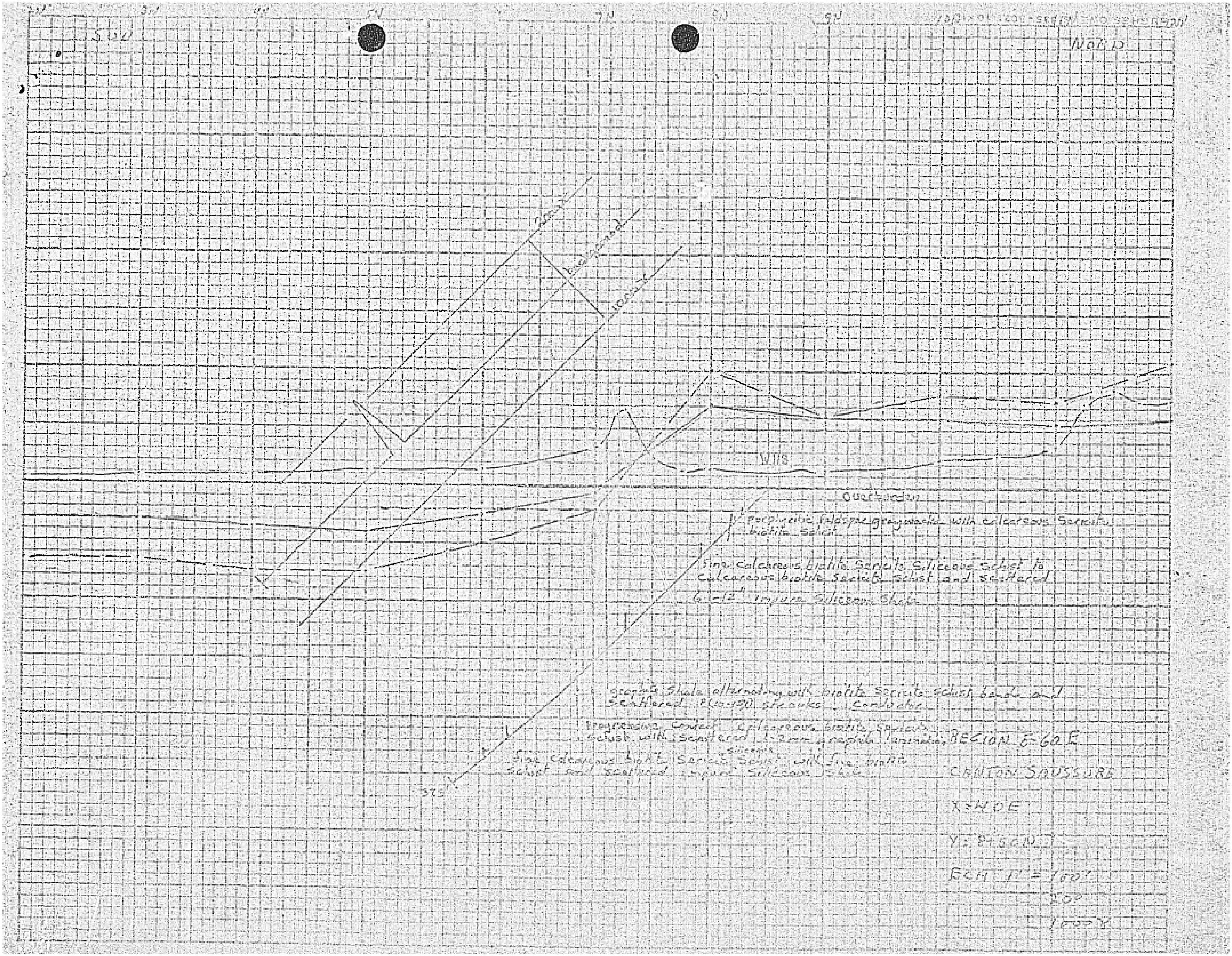
W 118-2

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
193	204			progressive contact calcareous biotite sericite schist with scattered 1-2mm graphite lamination.	same as 43-193' except that these graphite 1-2mm lamination.	no min	45-50	7
204	205			graphite shale with po 20-30% cond.	Rock black with metalic bronze luster fine grain Rock strat. beds irregular to wavy min. comp. graphite claymatrix po local sl tr.	1861 po 20-30% sp tr	40	
205	213			graphite shale alternating with biotite sericite schist bands ans scattered po streaks cond.	" except section has biotite sericite schist bands strat. appears to be dragfolded.	po 3-5%		8-9
213	232			progressive contact. calcareous biotite sericite schist. with scattered 1-2mm graphite lamination.	same as 193- 204	po py tr no min.	40-45	10
232	373			fine calcareous biotite sericite siliceous schist with fine biotite schist and scattered impure siliceous shale.	same as 43-193 except biotite schist beds increases in the section.	no min	30-35	11à1

Estimated core recovery 95%

Dip test at : nil

scintillometer check No radio active minerals.


SUD
NORD
VMS
Overburden
porphyritic feldspar greywacke with calcareous sericite biotite schist
fine calcareous biotite sericite siliceous schist to calcareous biotite sericite schist and scattered 6-12" impure siliceous shale
graphite shale alternating with biotite sericite schist bands and scattered streaks conductor
progressive contact calcareous biotite sericite schist with scattered 1-2mm graphite laminations
fine calcareous biotite sericite schist with fine biotite schist and scattered impure siliceous shale
375'
SECTION E-60E
CANTON SAUSSURE
X=40E
Y=84+50N
ECH 1" = 100'
100'

JEB. 47793

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 119 Profondeur: 309' Foré par: BENOIT.

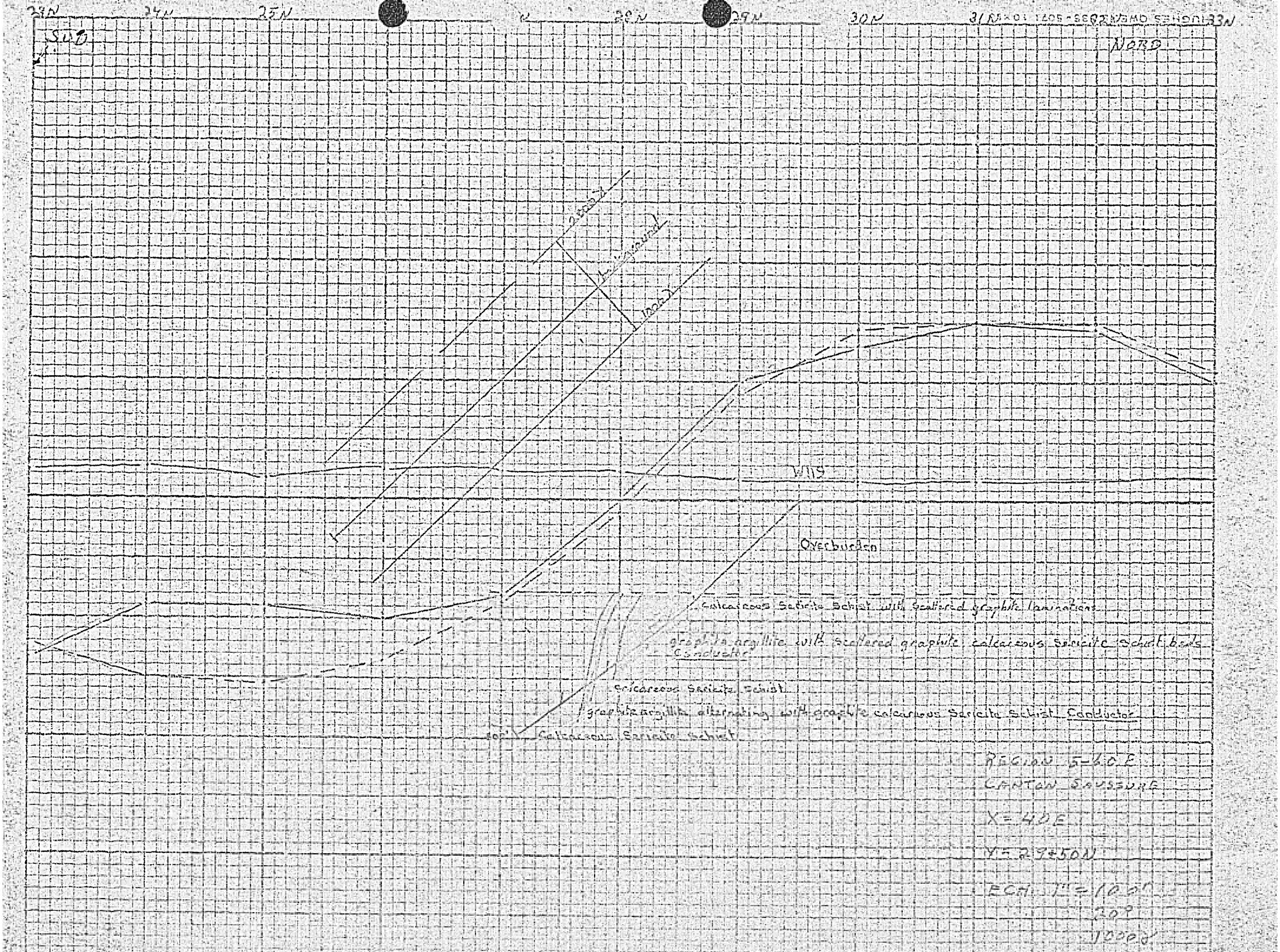
ANOMALIE: 5.60E DIR. et INCL.: 45° South Commencé le 20-4-70 Machine: Décrit par: S. ESS.

CLAIM: Coord. locales: X=4000E Y=2950 Nz= 9 Terminé le 22-4-70 Diam. Forage: WL.

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	116	overburden				
116	130	calcareous sericite schist with scattered graphite laminations.	Rock grey to dark grey fine grain to flaky grains schistosed rock strat. with schistosity plane. graphite laminations are irregular to wavy. min. comp. sericite carbonate graphite py feldspar progressive contact.	py tr	45	1
130	152	graphite argillite cond	Rock black with white streaks fine grain with calcareous subangular fragments rock strat. with irregular to subvertical beds. possible slumping or drag folding min. comp. graphite carbonate py sericite .	py 3-4%	45-85	2
152	172	graphite carbonate sericite schist weak cond.	Rock dark grey to black fine grain Rock strat. beds irregular to wavy min comp. graphite sericite fine feldspar matrix carbonate py tr.	py tr 1%	50-60	3-4
172	183	graphite argillite cond	same 152-172	py tr 3%	85-50	5-6
183	194	calcareous sericite schist to graphite calcareous sericite schist.	same as 116-130' and 152-172 progressive contact	py tr	45-50	7-8

JEB. 50087

Profondeur de	à	No Carotte	Rend. Carotte	W 119-2 Descriptions et Diagnostics		Minéralisation	Pendage	No Echantillon Témoin
194	202			graphite argillite alternating with graphite calcareous sericite schist cond.	same as 152-172 and 132-152	py 1-2%	55-50	9
202	232			calcareous sericite schist	same as 116-130 except graphite laminations are absent.	py tr py tr	45-50 45-50	10 10
232	237			graphite argillite alternating with graphite calcareous sericite schist cond.	same as 194-202	py 4-5%	45	11-12
237	309			calcareous sericite schist.	same as 202-232	py tr	45	13à15
				Estimated core recovery	96%			
				dip test at 123'-42°				
				309'-31°				
				Scintillometer check	No radio active minerals.			



23N
24N
25N
28N
29N
30N
31N
33N
SUD
NORD
background
100 γ
W119
Overburden
Calcareous Sericite Schist with Scattered graphite laminations
graphite argillite with Scattered graphite calcareous Sericite Schist beds
Conductor
calcareous Sericite Schist
graphite argillite alternating with graphite calcareous Sericite Schist Conductor
Calcareous Sericite Schist
REGION 5-40E
CANTON SAUSSURE
X = 40E
Y = 29+50N
ECH. 1" = 100'

JEB 45081

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SAUSSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 127 Profondeur: 340' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45° S. Commencé le 1-5-70 Machine: Décrit par: S. ESSOR.

CLAIM: Coord. locales: X=4000E Y=0 Z= Terminé le 4-5-70 Diam. Forage: AL.

Profondeur de	Profondeur à	Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	Déviations à	Déviations Angle
0	30			overburden					
30	143			dark grey cherty impure siliceous argillite alternating with scattered biotite calcareous sericite schist.	Rock dark Fine grain to crystalline rock strat. with regularly strat. beds. Min. component. fime quartz feldspar matrix wit biotite sericite carbonate graphite impurities py po tr.	py po tr	45-55		1 à 4
143	151			partially brecciated feldspar quartz carbonate shear zone.	rock greyish white fine grain to crystalline with subangular fragment possible shear zone Rock poorly strat. rock black poor recovery 80% min. comp. quartz feldspar carbonate sericite py po tr.	py pb tr	"		5-6
151	181			1-2mm scattered impure graphite streaks with impure biotite sericite schist shear zone.	Rock dark grey with black streaks fine grain rock stratl with schistosityplane. min. comp.biotite sericite carbonate impure claymatrix, graphite py po. Poor recovery core blocky 80% possible shear zone.	py po tr	45-50		7-8

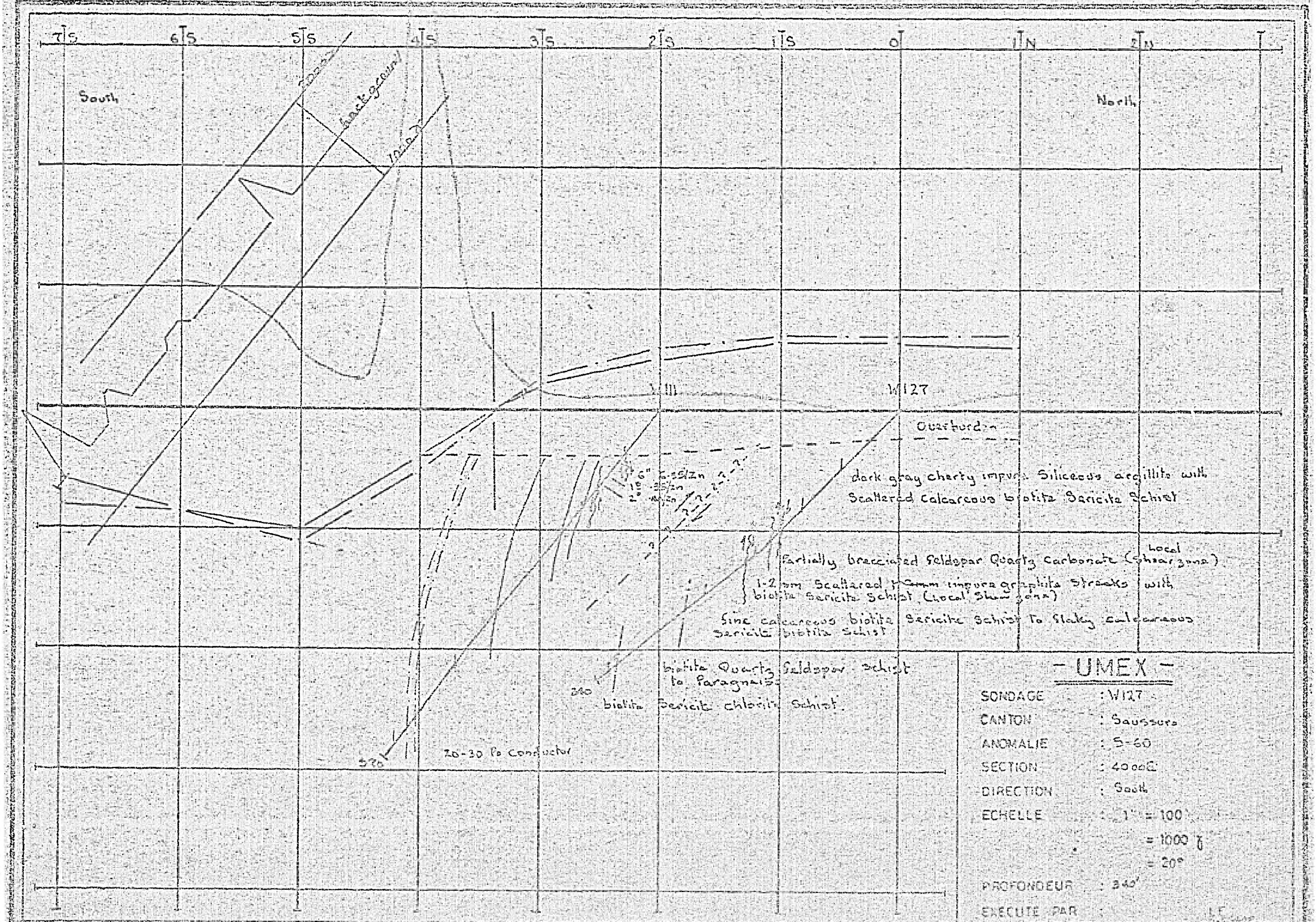
JEB. 50087

W 127-2-

Profondeur de	Profondeur à	No Carotte	Rend. Carotte	Descriptions et Diagnostics		Minéralisation	Pendage	No. Echantillon Témoin
181	212			fine calcareous biotite seridite schist.	rock greyish green fine grain rock schistosed min. comp. carbonate biotite sericite fine siliceous matrix at places.	py po tr no min.	45-50	9-10
212	246			flaky calcareous sericite biotite schist.	rock greyish brown. fine grain to flaky rock schistosed min. comp. sericite biotite carbonate quartz feldspar minor.	No min	45-50	11-12
246	319			biotite quartz feldspar schist to paragneiss?	rock grey with brown irregular streaks medium grain Rock appears to be poørtly schistosed min. comp. quartz feldspar biotite minor carbonate.	py tr	13-14	
319 -	340			biotite sericite chlorite schist.	rock green fine grain to partly fibrous Rock appears to be stratified with the schistosity of the rock Min comp. chlorite sericite amphibole biotite minor carbonate feldspar.	py po tr	40	15-16

REMARK: No conductor hole drilled to check W 111 zn mineralization.
Estimated core recovery 87%
dip test at 340'=34°
Scintillometer check No radio active minerals.

JES FORM 380



- UMEX -

SONDAGE	: W127
CANTON	: Saussure
ANOMALIE	: 5-60
SECTION	: 4000E
DIRECTION	: South
ECHELLE	: 1" = 100'
	= 1000 γ
	= 20°
PROFONDEUR	: 340'
EXECUTE PAR	: L.F.

TKB 45001

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: SUASSURE

DESCRIPTION SONDAGE

REGION: WAS SONDAGE No.: W 131 Profondeur: 451' Foré par: BENOIT.

ANOMALIE: 5.60E DIR. et INCL.: 45° South Commencé le 5-5-70 Machine: Décrit par: S.ESS.

CLAIM: Coord. locales: X= 4400E Y= 15S Z= Terminé le 13-5-70 Diam. Forage: ML.

Profondeur		Longueur Carotte	Rend. Carotte	Descriptions et Diagnostics	Minéralisation	Pendage	Déviations	
de	à						à	Angle
0	50			Overburden				
50	314			dark grey cherty impure siliceous argillite alternating with calcareous biotite sericite-argillite to schist. — rock dark grey fine grain to cherty at places. Rock strat. with regular evenly laminated beds quartz veinlets min. comp. quartz feldpar biotite sericite carbonate py po tr core blocky recovery 90% b) Rock greyish brown fine grain to flaky rock strat. with schistosity plane and partly schistosed min. comp. sericite biotite carbonate quartz pyrophyllite py po tr.	py po tr	55-45		1-2
314	337			" with black impure graphite siliceous argillite progressive contact. — same as 50-314except there is a progressive contact and increase of impure graphite siliceous argillite beds.	py po tr	45-50		9-10
337	358			graphite slate cond — rock black fine grain rock strat min. comp. graphite py.	py 1-3%	45		11
358	382			calcareous sericite schist rock greyish brown fine grain to	py po tr	45-50		12

JEB. 50087

W 131-2

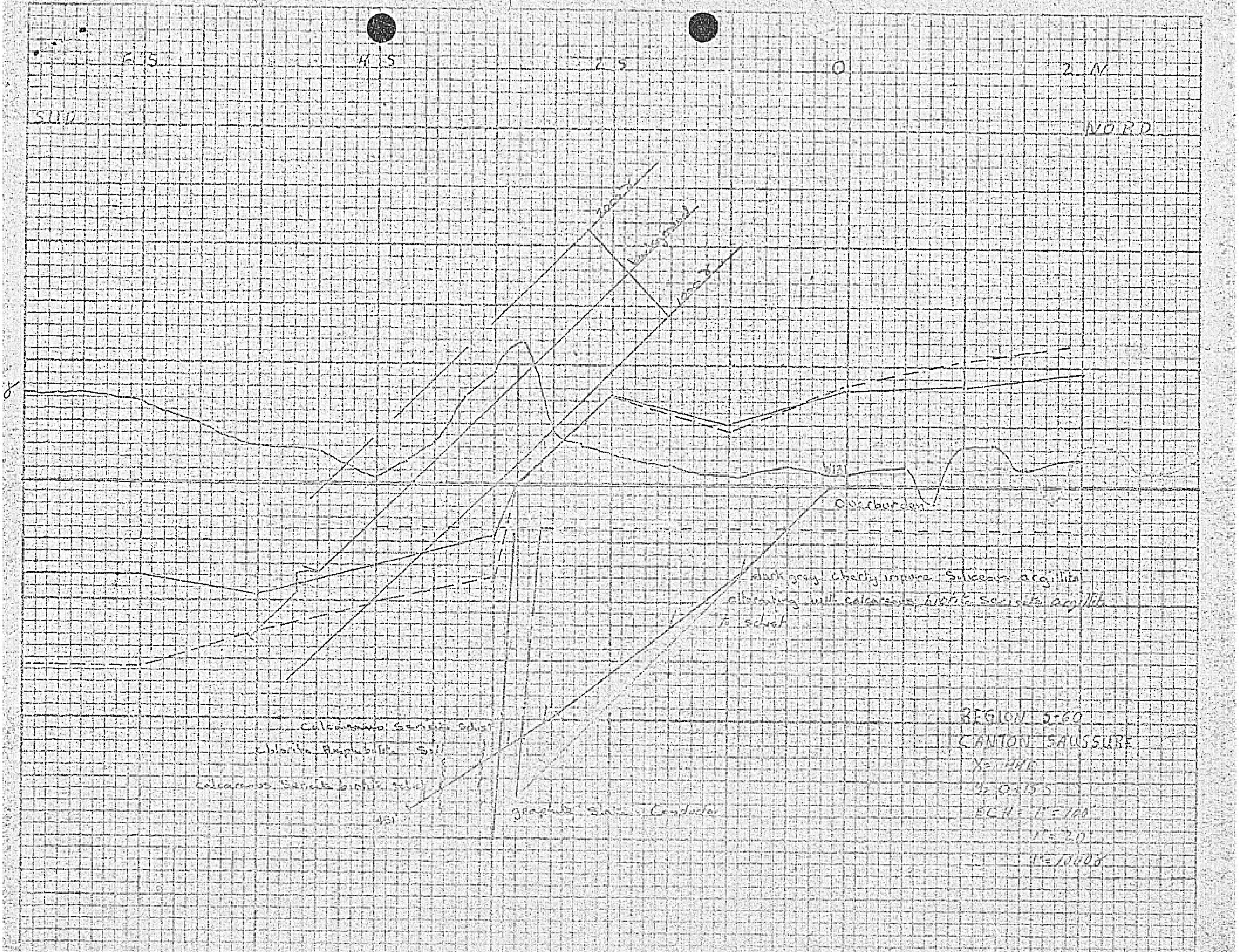
Profondeur de	Profondeur à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantil. Témoin
					schistosed rock strat. with schistosity min. comp. sericite carbonate biotite impure siliceous matriz.	py po tr	45-50	12
382	391.5			chlorite amphibolite sill.	rock green with dark green phenocryst medium grain to fibrous at places. rock massive. min, comp. amphib le chlorite talc. b otite minor carbonate chilled contact at 65°	py po tr		13
391.5	400			chlorite	rock green fine grain talcy at places rock massive to slightly schistosed at places. min. comp. chlorite talc biotite py po tr.	py po tr		14
400	422			chlorite amphibolite sill	same as 382-391.5	py po tr		16
422	451			calcareous sericite biotite schist.	rock brown and white sc istosed streak fine to flaky rock schistosed min. comp. sericite biotite calcite minor quartz feldspar py po tr.	py po tr	40	17

remark: cond. explained by intersection 337-353 graphite slate.

estimated core recovery 90%

dip test at 50'-45° 451- 32° 322-35°

Scintillometer check: No radio active minerals.



6 S
4 S
2 S
0
2 N
SUD
NORD
overburden
dark grey cherty impure siliceous argillite
alternating with calcareous biotite sericite argillite
to schist
graphite
REGION 5-60
CANTON SAUSSURE
ECH: H=100
V=20

No. 50086

UNION MINIERE EXPLORATIONS AND MINING CORPORATION LIMITED

Canton: LA RIBOURDE

DESCRIPTION SONDAGE

REGION: MAS SONDAGE No.: M 139 Profondeur: 571' Foré par: BENOIT.

ANOMALIE: 5-60 DIR. et INCL.: 45° south Commencé le 15-5-70 Machine: Décrit par: S.ESSOF

CLAIM: Coord. locales: X= 1200W Y= 660S Z= Terminé le 22-5-70 Diam. Forage: AX

Profondeur de	Profondeur à	Diagnostics	Descriptions	Minéralisation	Pendage	No Echantillon Témoin
0	51	overburden				
51	76	1-3" graphite bands with dark grey cherty impure siliceous argillite possible weak cond.	rock has alternating block and gray bands. fine grain rock strat. beds are regular and evenly spaced min. comp. graphite impure siliceous matrix quartz feldspar biotite py po tr.	py po tr 2 %	40-45	1-2
76	90	alternating cherty siliceous argillite with sericite biotite schist to biotite sericite chlorite argillite.	rock grey to brownish grey to greenish brown fine grain to medium flaky grains rock strat. with alternating evenly laminated beds. 168-190 core becomes every blacky recovery 80% min. comp. biotite sericite chlorite clay matrix quartz feldspar impure graphite py po tr.	py po tr	"	3-5
90	217	gray impure argillite alternating with graphite argillite cond.	same as 51-76 except rock is less cherty and graphite beds are 7-12" wide rock blocky	py po tr	40	6-7
217	239	gray impure argilled	same as 51-76 scattered graphite beds	py po tr	40	8
239	257	graphite argillite alternating with gray impure argillite cond.	same as 190-217	py po tr	45	9

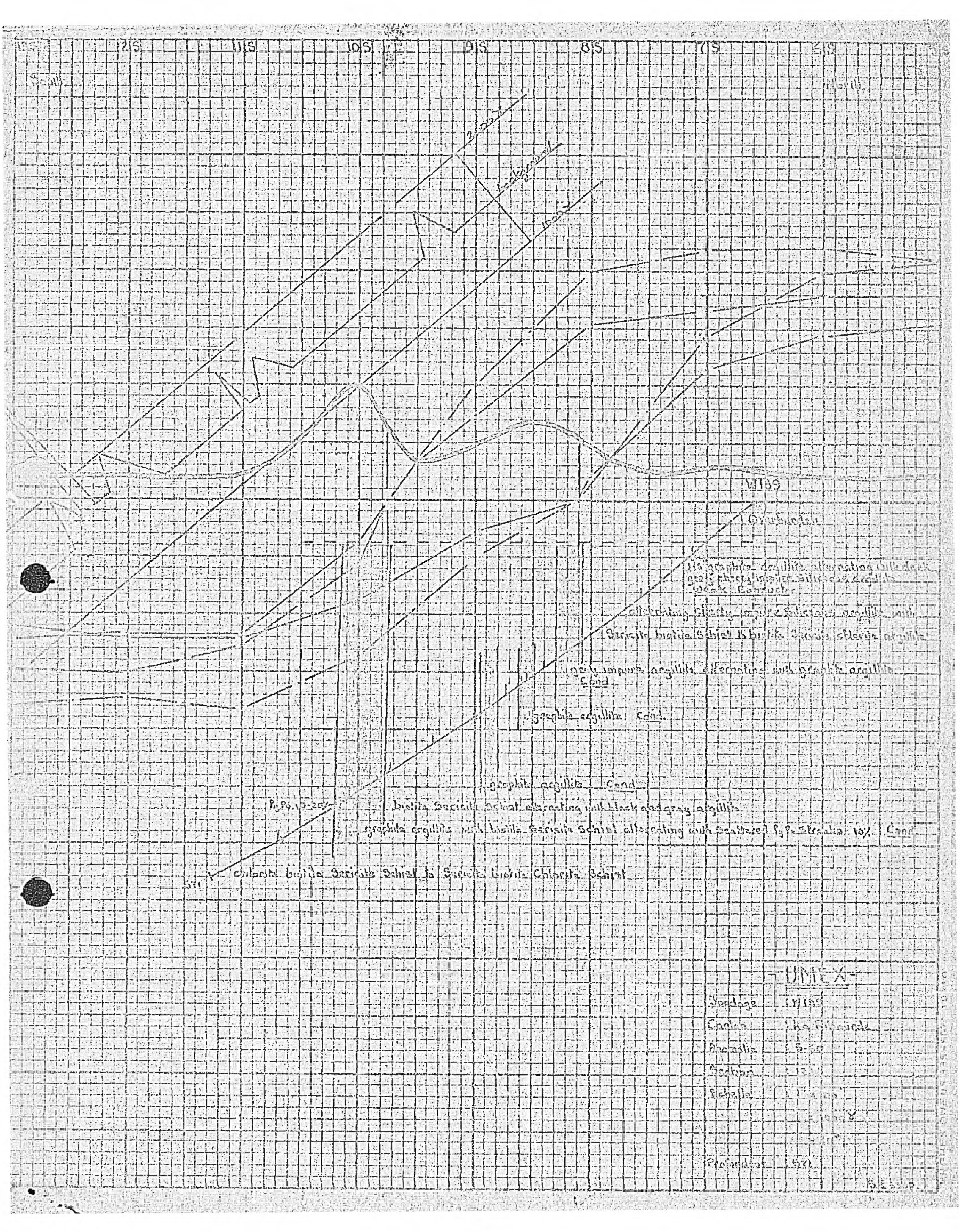
JEB. 50007

W 139-2

Profondeur de	à	No Carotte	Rend. Carotte		Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
257	275	gray impure argillite			same as 217-239	py po tr	45	10
275	292			graphite argillite alternating with gray impure argillite cond.	same as 190- 217	py po tr2%		11
292	399			biotite sericite schist alternating with black and gray argillite.	same as 51-75 except pure graphite decreas s. Core blocky and crushed lost core at 345-353	py po tr	40-45	12à14
399	415			graphitic argillite with biotite sericite schist cond.	same as 292-399 except graphite increases	py po 2-3%	40-45	15-16
415	417			" with py po 7-8% cond. cp tr zn tr 1%		1891 py po 7-8%	"	[illegible]
417	426			graphite argillite with biotite sericite schist and scattered py po streak 6-5% weak cond.		py po 6-5%	35-40	17
426	428			"	"	1892 py po 6-5% zn tr.	"	
428	437			sericite biotite schist to argillite.	" except beds are wavy and irregular	py po 1-2%	"	18
437	439			" with py po 15-20% cond.	" cp 1- 0.2%	1893 py po 15-20%		

JEG. 50087

Profondeur de	Profondeur à	No Carotte	Rend. Carotte		W 139-3 Descriptions et Diagnostics	Minéralisation	Pendage	No Echantillon Témoin
439	441			"	" cp 2-3%	1894 py po 10%		
441	442			"	"	py po 3-4%		
442	443			"	" 1-2%	1895 py po 10%		
443	465			chlorite biotite seri	rock greyish green fine grain. Grains	py po tr	35-48	19-20
				cite schist.	schistosed rock strat. with schistosity plane			
					min. comp. sericite biotite chlorite py			
					po carbonate quartz lences progressive			
					contact.			
465	571			sericite biotite chlorite	rock green fine grain to flaky rock	py po tr1%	35	21à24
				schist.	schistosed min. comp. sericite chlorite biotite			
					minor quartz carbonate garnet.			
				REMARK:				
				cond. explained by intersections.				
190	217			graphite argillite alternating with gray impure argillite				
239	258			"				
75	292			"				
399	428			graphite argillite with biotite sericite schist py po 5-6%				
437	443			biotite sericite schist with intercalated py po bands 10-15%				
				Estimated core recovery 90%				
				dip test at 50'=42°				
				540'=35				
				Scintillometer check: No radio active Minerals.				



125
115
105
95
85
75
background
V1189
graphite argillite alternating with dark
weak Conductor
alternating with
grey impure argillite alternating with graphite argillite
Cond.
graphite argillite Cond.
graphite argillite Cond
biotite Sericite Schist alternating with black and gray argillite
graphite argillite with biotite Sericite Schist alternating with scattered 10% Cond
chlorite biotite Sericite Schist to Sericite biotite Chlorite Schist
UMEX
Profundidad