

**LEGEND**

- Overburden drill hole location
- ⊕ Greater than 1000ppb gold
- ⊕ Greater than 10 similar gold grains
- ⊕ Greater than 50 percent delicate gold
- ⊕ Pathfinder metal association
- 14 □ 1985 reverse circulation drill hole CW-85-14; till not intersected

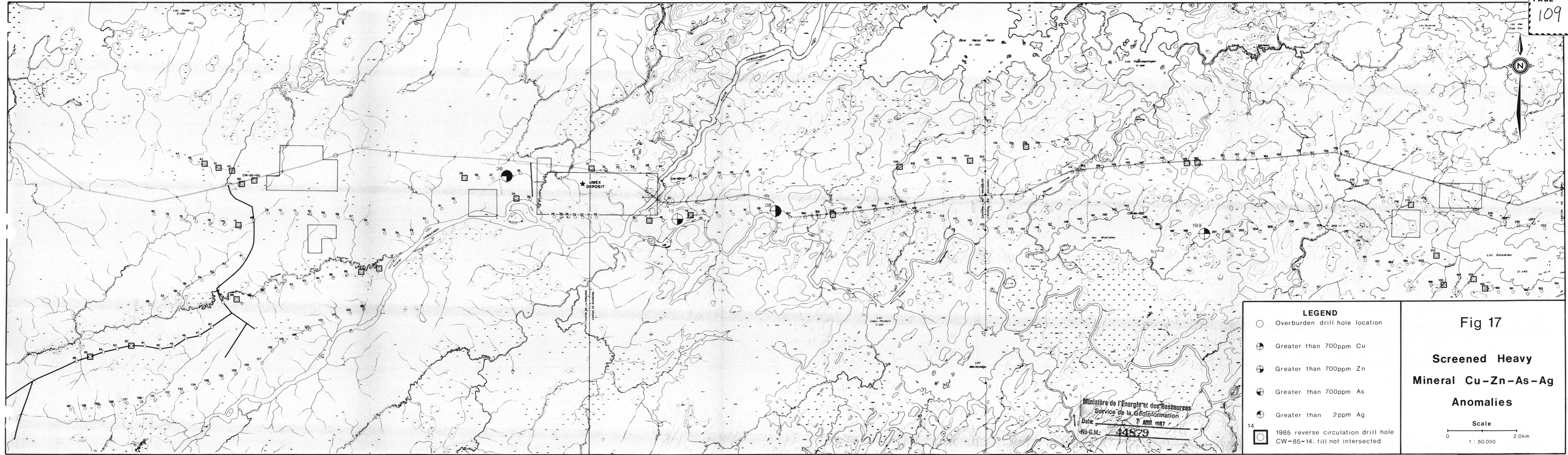
**Fig 15**

**Overburden Heavy Mineral Gold Anomalies**

Scale  
0 1 : 50,000 2.0km

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Service de la Géoinformation  
Date: 7 AOUT 1987  
No G.M.: 44879





**LEGEND**

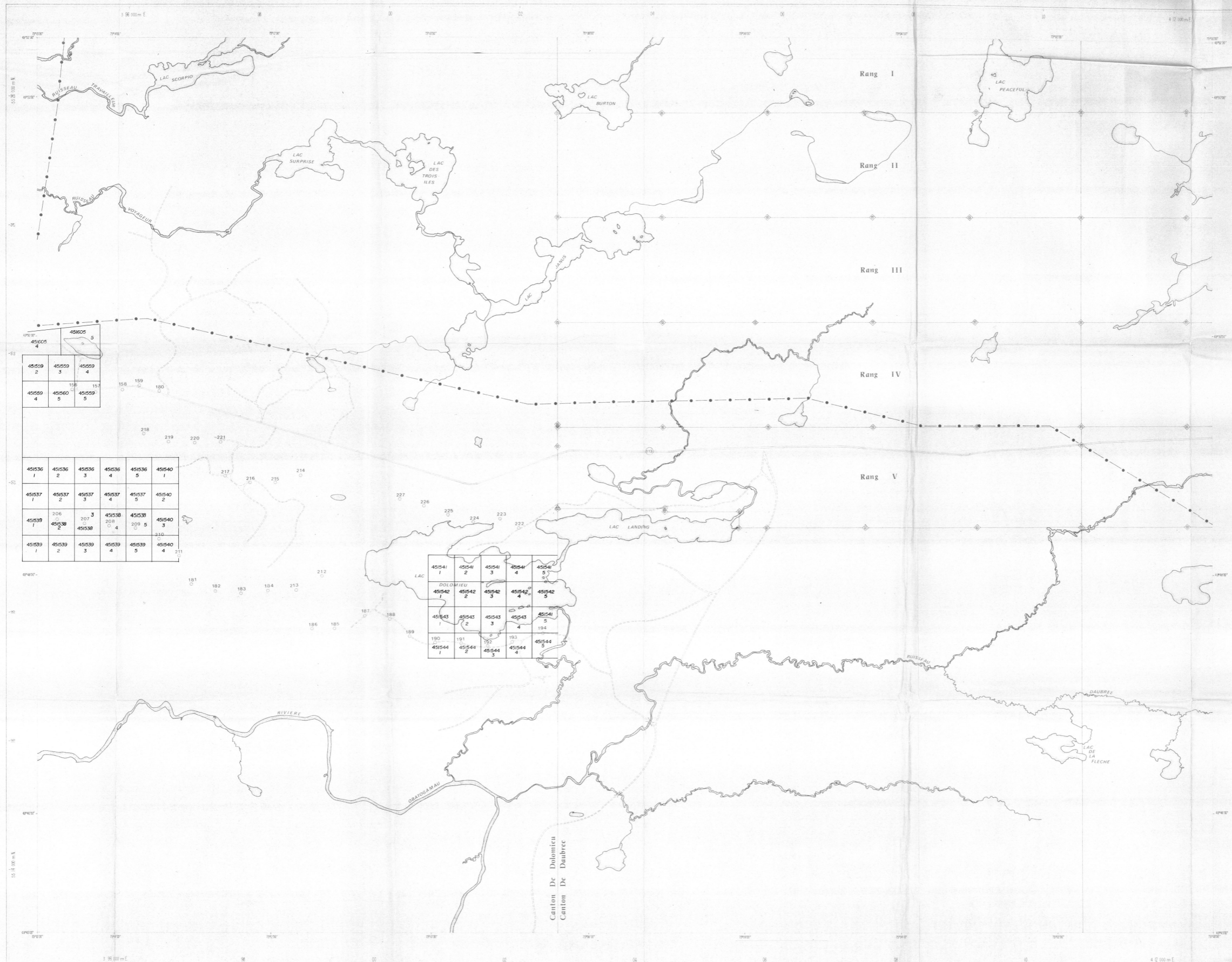
- Overburden drill hole location
- ⊕ Greater than 700ppm Cu
- ⊕ Greater than 700ppm Zn
- ⊕ Greater than 700ppm As
- ⊕ Greater than 2ppm Ag
- ⊕ 1985 reverse circulation drill hole CW-85-14; till not intersected

Fig 17

**Screened Heavy Mineral Cu-Zn-As-Ag Anomalies**

Scale  
0 1: 50,000 2.0km

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No. G.M.: 44879



32G14-200-001	32G14-200-002	32G15-200-001
32G14-200-003	32G14-200-004	32G15-200-002
32G14-200-005	32G14-200-006	32G15-200-003

LAC DOLOMIEU  
32G 14-200-0102

451605	451605	451605
4	4	5
451559	451559	451559
2	3	4
451559	451560	451559
4	5	5

451536	451536	451536	451536	451536	451540
1	2	3	4	5	1
451537	451537	451537	451537	451537	451540
1	2	3	4	5	2
451538	451538	451538	451538	451538	451540
1	2	3	4	5	3
451539	451539	451539	451539	451539	451540
1	2	3	4	5	4

451541	451541	451541	451541	451541
1	2	3	4	5
451542	451542	451542	451542	451542
1	2	3	4	5
451543	451543	451543	451543	451543
1	2	3	4	5
451544	451544	451544	451544	451544
1	2	3	4	5

Canton De Dolomieu  
Canton De Daubre

LAC DOLOMIEU



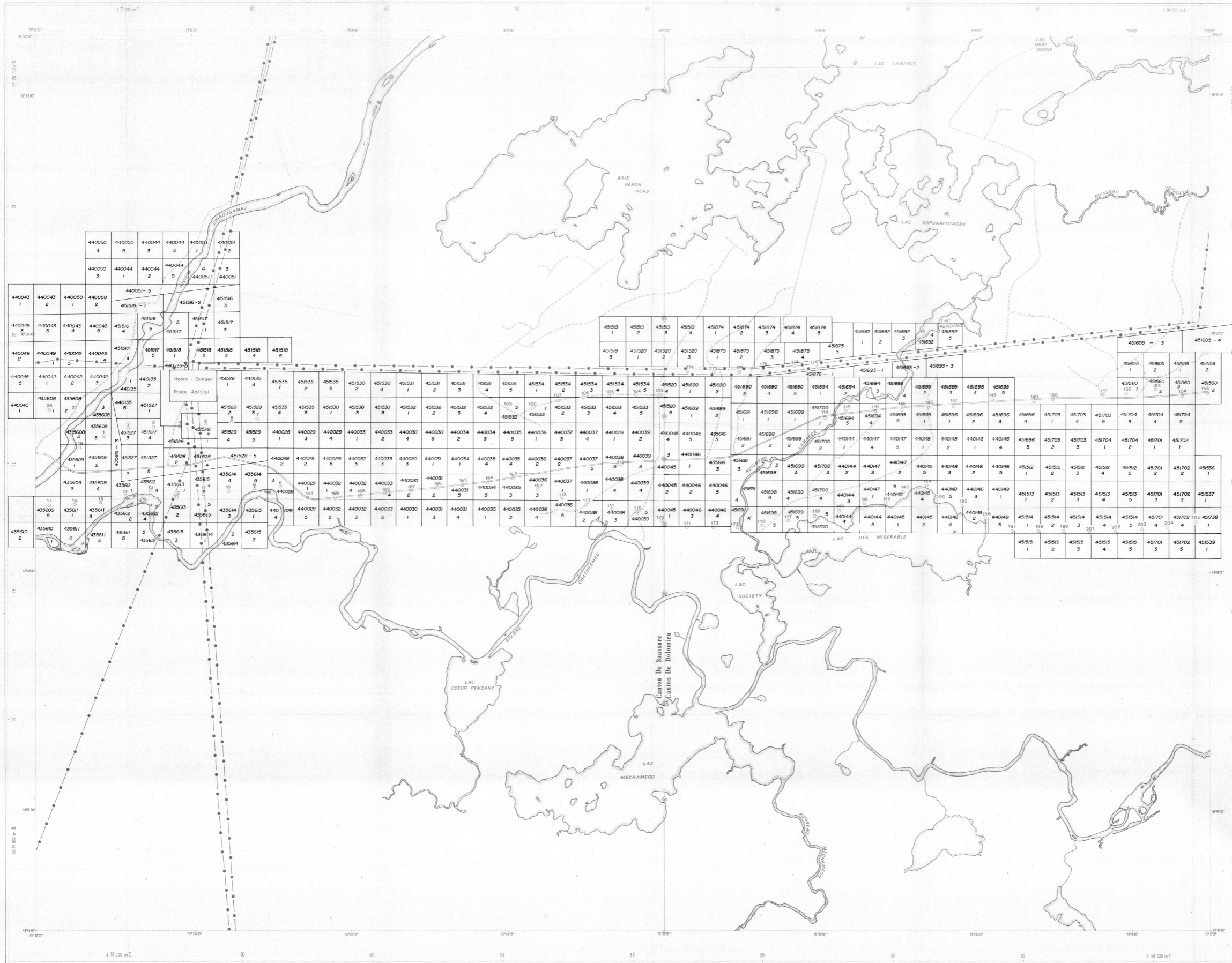
Ministère de l'Énergie et des Ressources  
Service de la Géoinformation  
Date: 7 mai 1987  
No GM: 44879

○ FORAGE DE MORT-TERRAIN

CORPORATION FAUCONBRIDGE COPPER  
- Exploration -

CARTE DE CLAIMS "CHAPAS WEST"  
PARTIE EST

Responsable: Gerard Dizon  
Revisé Par: [Signature]  
Date: [Signature] 1988 NOV 25



3213-200-0001	3214-200-0001	3215-200-0001
3213-200-0002	3214-200-0002	3215-200-0002
3213-200-0003	3214-200-0003	3215-200-0003

LAC MECHAMEGO  
32G 14-200-0101

LAC MECHAMEGO

ECHELLE 1:20000  
0 0.5 1.0 1.5 2.0 2.5 3.0

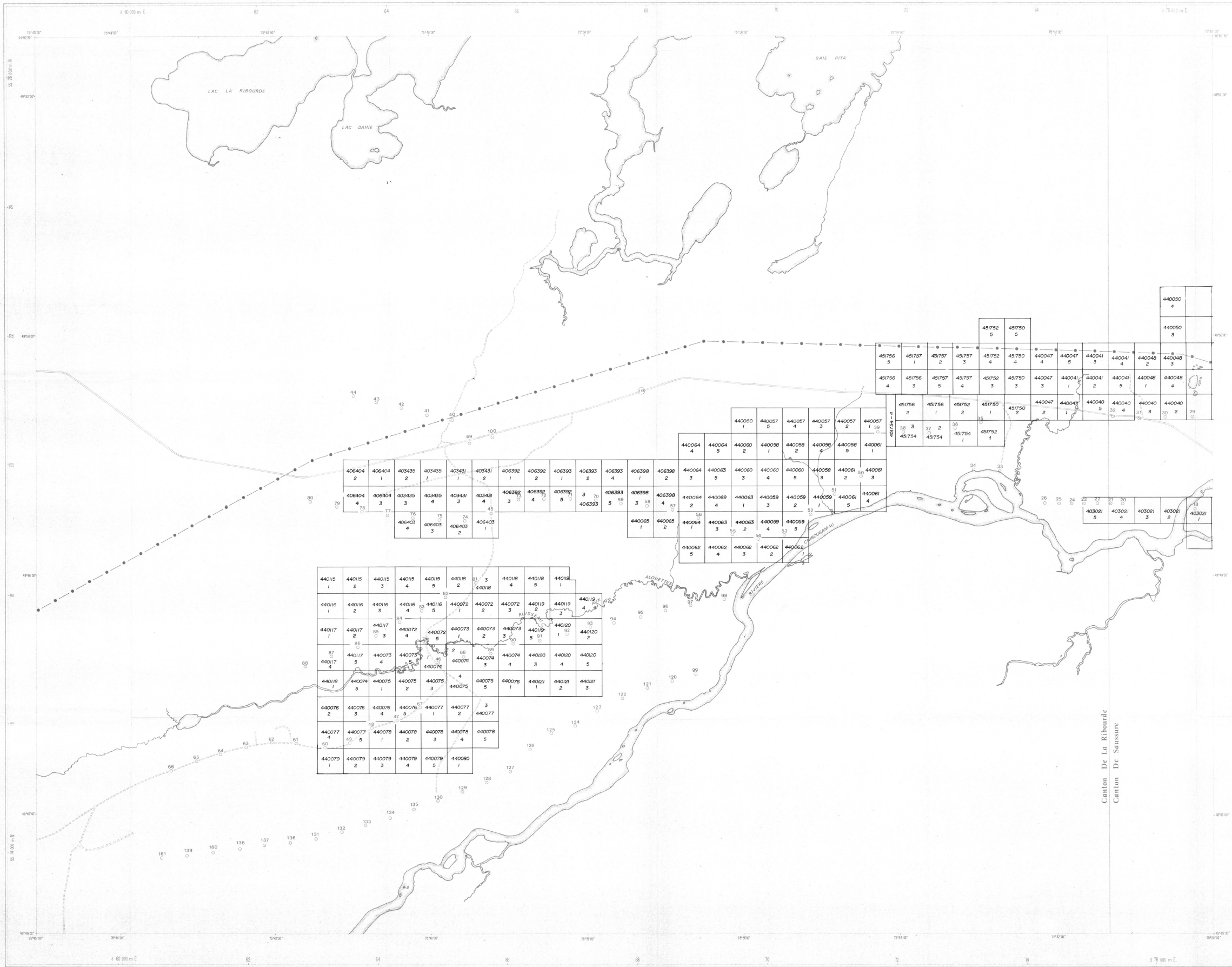
Ministère de l'Énergie et des Ressources  
Service de la Géoinformation  
Date: 7 Mars 1997  
No. G.M.: 14575

CORPORATION FALCONBRIDGE COPPER  
- Exploration -

CARTE DE CLAIMS "CHAPAI WEST"  
PARTIE CENTRALE

Geomatics: Gérard Durois      Dessiné Par:      Révisé Par:      Date:      Scale:      1:20000

○ FORAGE DE MORT-TERRAIN



32 613-200-0201	32 613-200-0202	32 614-200-0201
32 613-200-0101	32 613-200-0102	32 614-200-0101
32 612-200-0201	32 612-200-0202	32 613-200-0201

LAC LA RIBOURDE  
32G13-200-0102

Canton De La Ribourde  
Canton De Saussure

○ FORAGE DE MORT-TERRAIN

CORPORATION FALCONBRIDGE COPPER  
- Exploration -

CARTE DE CLAIMS "CHAPAS WEST"  
PARTIE OUEST

Ministère de l'Énergie et des Ressources  
Service de la Géoinformation  
Date: 7 MAR 88  
No G.M.: 44579



Projet: Général Québec  
Échelle: 1:20,000  
Date: Mars 1988  
ROY 88



**LEGEND**

**Bedrock Lithology**

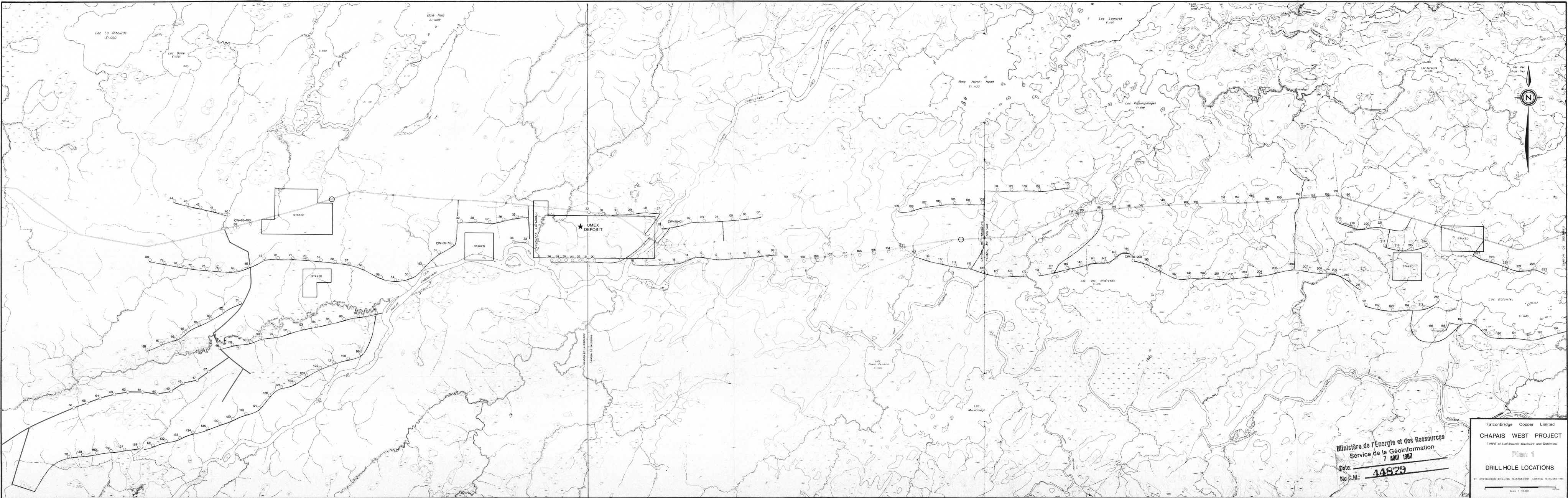
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
- 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsic (6c)
- 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
- 4 Graywacke (4a), siltstone (4b), mudstone (4c)
- 3 Fragmental intermediate - felsic volcanics
- 2 Felsic volcanics
- 1 Intermediate (1a) to mafic (1b) volcanics

**Symbols**

- 100 195 reverse circulation drill hole No. C-85-100 with bedrock intersection of Unit 1a
- 28 Bedrock not intersected
- Lithologic boundary (approximate)
- ? Lithologic boundary (inferred)
- Fault
- p Porphyritic
- s Sheared
- ◻ Area of bedrock exposure

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 Date: 7 AOUT 1987  
 No G.M. 44879

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 CHAPAIS WEST PROJECT  
 TWS of LaRiboisère, Saussure and Dolomieu  
 Plan 2  
 BEDROCK GEOLOGY  
 BY OVERSEAS DRILLING MANAGEMENT LIMITED MAY/JUNE 1985  
 Scale: 1:50,000

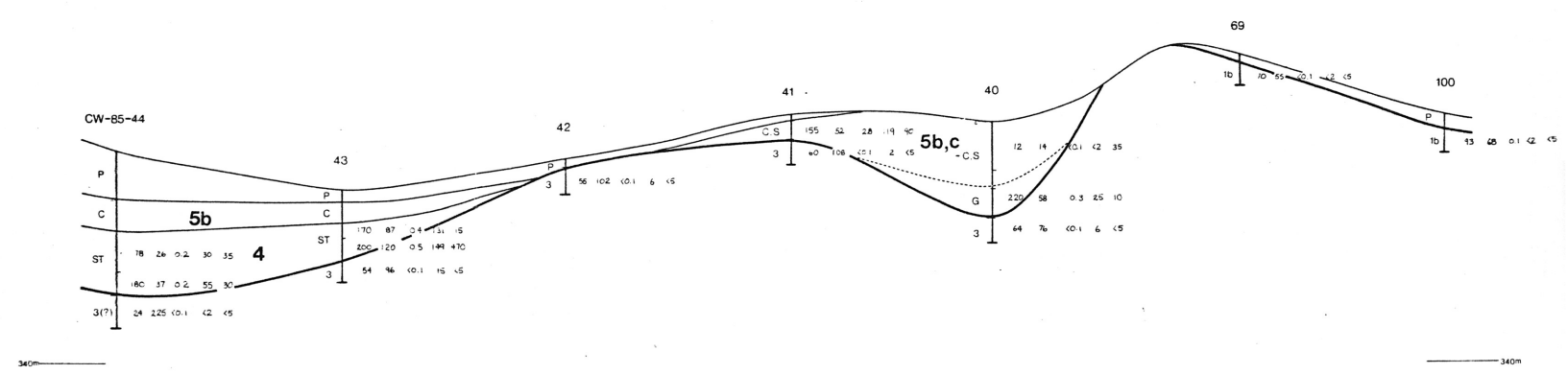


★ JIMEX DEPOSIT

Ministère de l'Énergie et des Ressources  
 Service de la Géoinformation  
 Date: 7 AOUT 1987  
 No G.M.: 44879

Falconbridge Copper Limited  
 CHAPAIS WEST PROJECT  
 TWPS of LaRivourde, Sausure and Dolomieu  
 Plan 1  
 DRILL HOLE LOCATIONS  
 BY OVERBURDEN DRILLING MANAGEMENT LIMITED MAY/JUNE 1986  
 Scale 1:50,000





**LEGEND**  
Quaternary Stratigraphy

- LATE WISCONSINAN**
  - 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
  - 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
  - 3 Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
  - 2 Lower Till
- KANSAN (?)**
  - 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7d)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intertrachyte - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

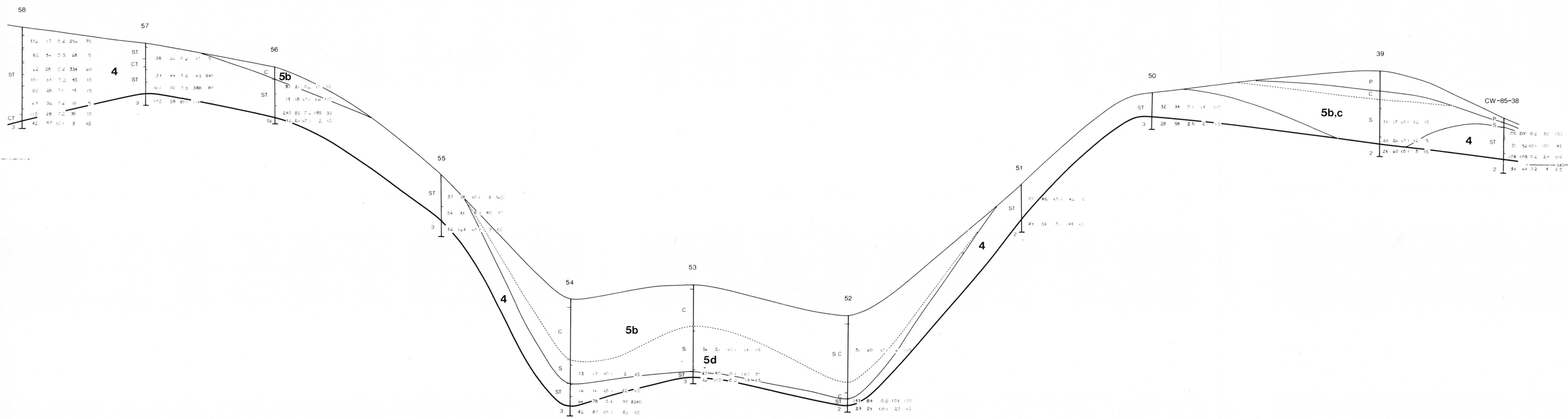
**Scale**  
HOR. 1:10,000 VERT. 1:400

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Service de la Géoinformation  
Date: 7 AOÛT 1987  
No G.M.: 44879

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CHAPAIS WEST PROJECT

TWPS of La Ribourde Saussure and Dolomieu

Section  
A-A'



LEGEND  
Quaternary Stratigraphy

- LATE WISCONSINAN**
- 7 Corlaire Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Corlaire Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member

- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 6.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7a)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

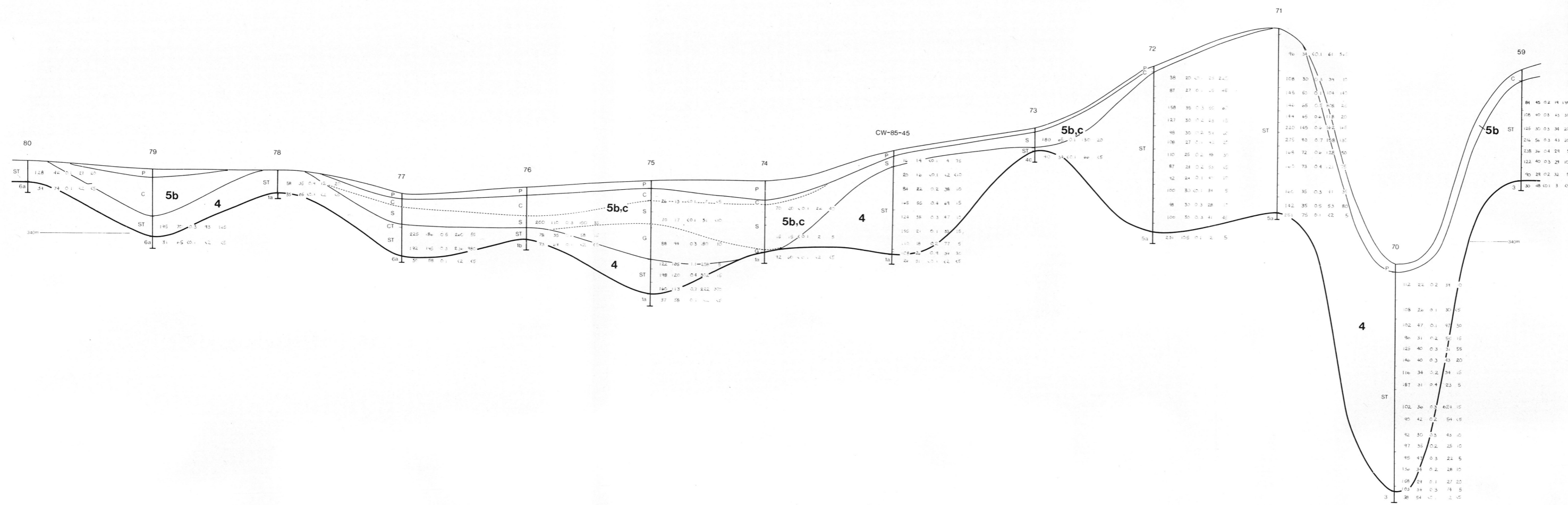
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CHAPAIS WEST PROJECT

TWPS of La Ribourde, Saussure and Dolomieu

Section  
B'-B''



LEGEND  
Quaternary Stratigraphy

- LATE WISCONSINAN**
  - 7 Coriarae Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Coriarae Till
- WISCONSINAN AND LATE WISCONSINAN**
  - 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
  - 3 Mississipi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
  - 2 Lower Till
- KANSAN (?)**
  - 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 6.3 ppm Ag, 113 ppm As and 330 ppb Sr in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

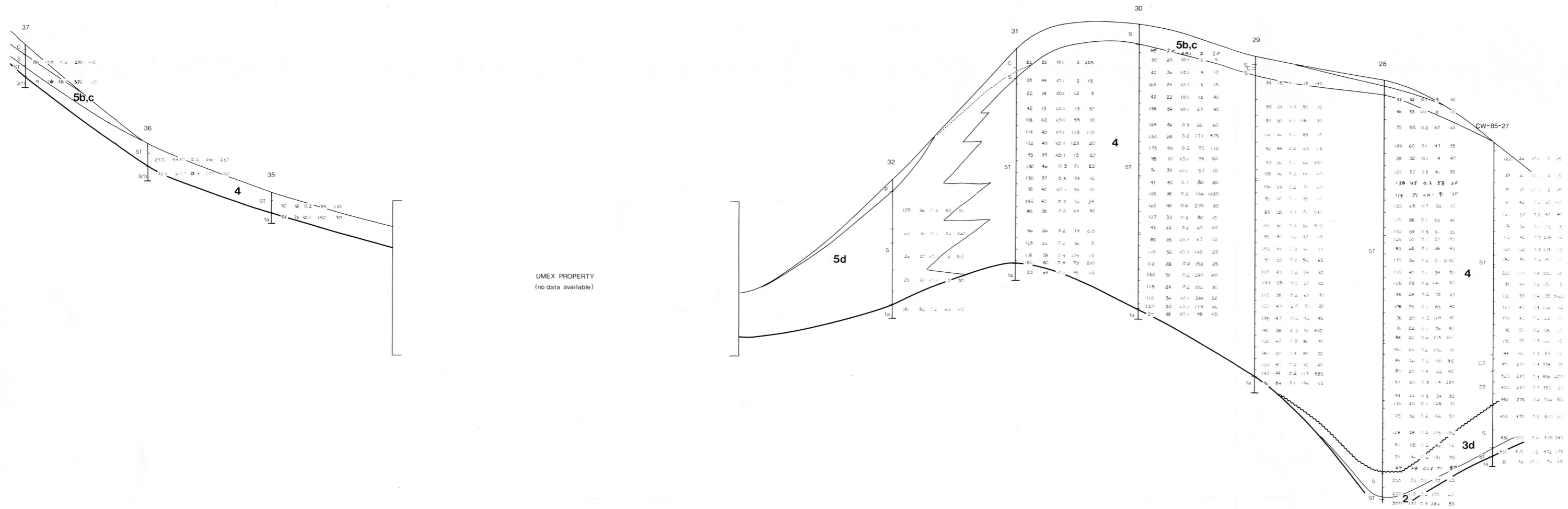
Scale  
HOR. 1:10,000 VERT. 1:500

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No G.M.: **44879**

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TWPS of La Ribourde, Saussure and Dolomieu

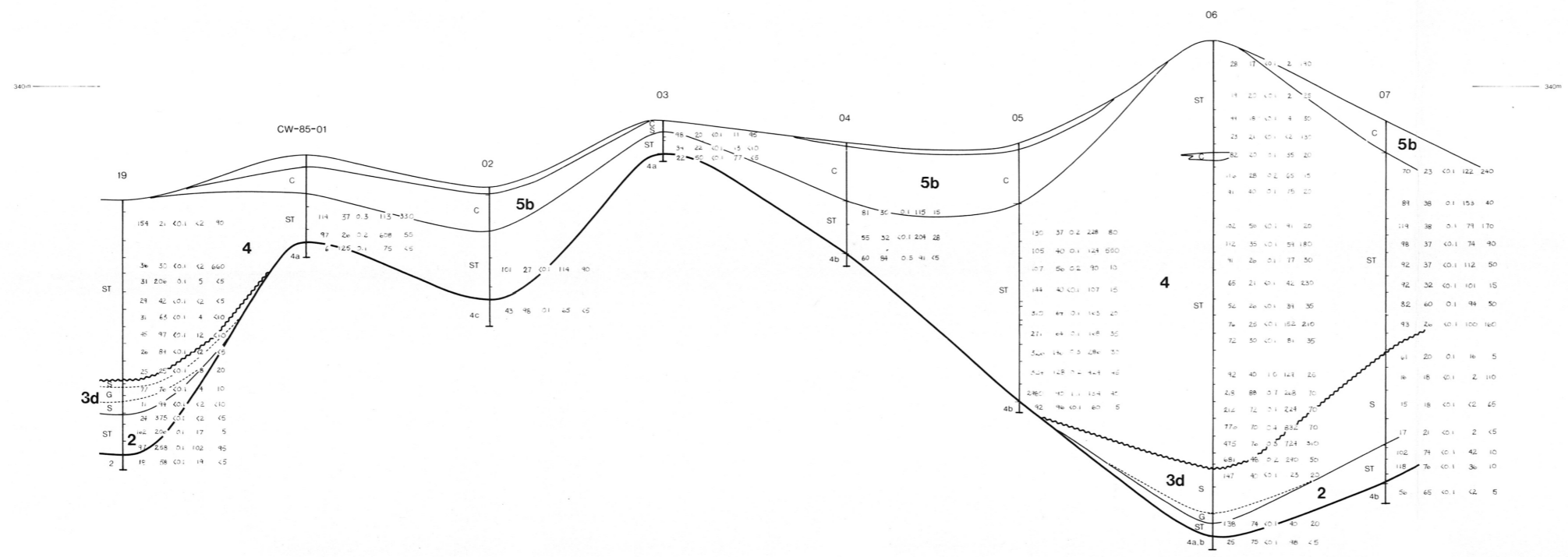
**B-B'**



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments
- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till
- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary
- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Felspar porphyry (6a), quartz-felspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics
- Scale**  
HOR. 1:15,000 VERT. 1:400

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CHAPAIS WEST PROJECT  
TWPS of La Bourde, Saussure and Dolomieu  
B-C



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
    - 7 Cochrane Sediments
      - 7a - glaciofluvial/morainal member
      - 7b - glaciolacustrine member
    - 6 Cochrane Till
  - WISCONSINAN AND LATE WISCONSINAN**
    - 5 Ojibway Sediments
      - 5a - glaciolacustrine member
      - 5b - glaciolacustrine clay member
      - 5c - glaciolacustrine sand member
      - 5d - fluvial member
    - 4 Chibougamau/Matheson Till
  - SANGAMONIAN**
    - 3 Missinabi Sediments
      - 3a - Illinoian glaciofluvial member
      - 3b - Illinoian glaciolacustrine member
      - 3c - Sangamonian interglacial member
      - 3d - Wisconsinan proglacial member
  - ILLINOIAN**
    - 2 Lower Till
  - KANSAN (?)**
    - 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - - - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary

**Geochemistry**

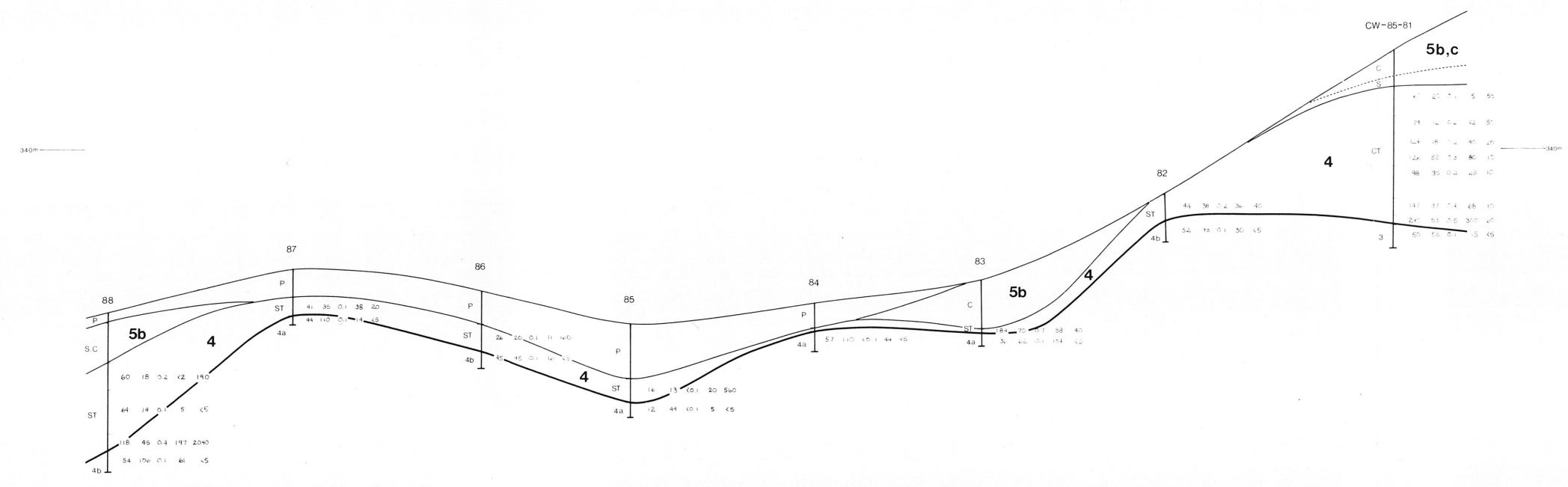
Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 6.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (6c)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:400

Ministère de l'Énergie et des Ressources  
Service de la Géoinformation  
Date: 7 AMT 1997  
No G.M.: 44879

Falconbridge Copper Limited  
CHAPAIS WEST PROJECT  
TWPS of La Ribourde, Saussure and Dolomieu  
Section  
C'-C'



- LEGEND**
- Quaternary Stratigraphy
- LATE WISCONSINAN**
- 7** Corlaine Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6** Corlaine Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5** Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4** Chibougamau/Matheson Till
- SANGAMONIAN**
- 3** Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2** Lower Till
- KANSAN (?)**
- 1** Older Till and Sediments
- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till
- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary
- Geochemistry**
- Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 6.3 ppm Ag, 113 ppm As and 135 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)
- Bedrock Lithology**
- 7** Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6** Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5** Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4** Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3** Fragmental intermediate - felsic volcanics
  - 2** Felsic volcanics
  - 1** Intermediate (1a) to mafic (1b) volcanics
- Scale**
- HOR. 1:10,000 VERT. 1:400

Ministère de l'Énergie et des Ressources  
 Service de la Géoinformation  
 Date: 7 AOÛT 1987  
 No G.M.: 44879

Falconbridge Copper Limited  
 CHAPAIS WEST PROJECT  
 TWPS of La Ribourde, Saussure and Dolomieu  
 Section  
 D-D'

- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matleson Till
- SANGAMONIAN**
- 3 Missinabi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member

- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

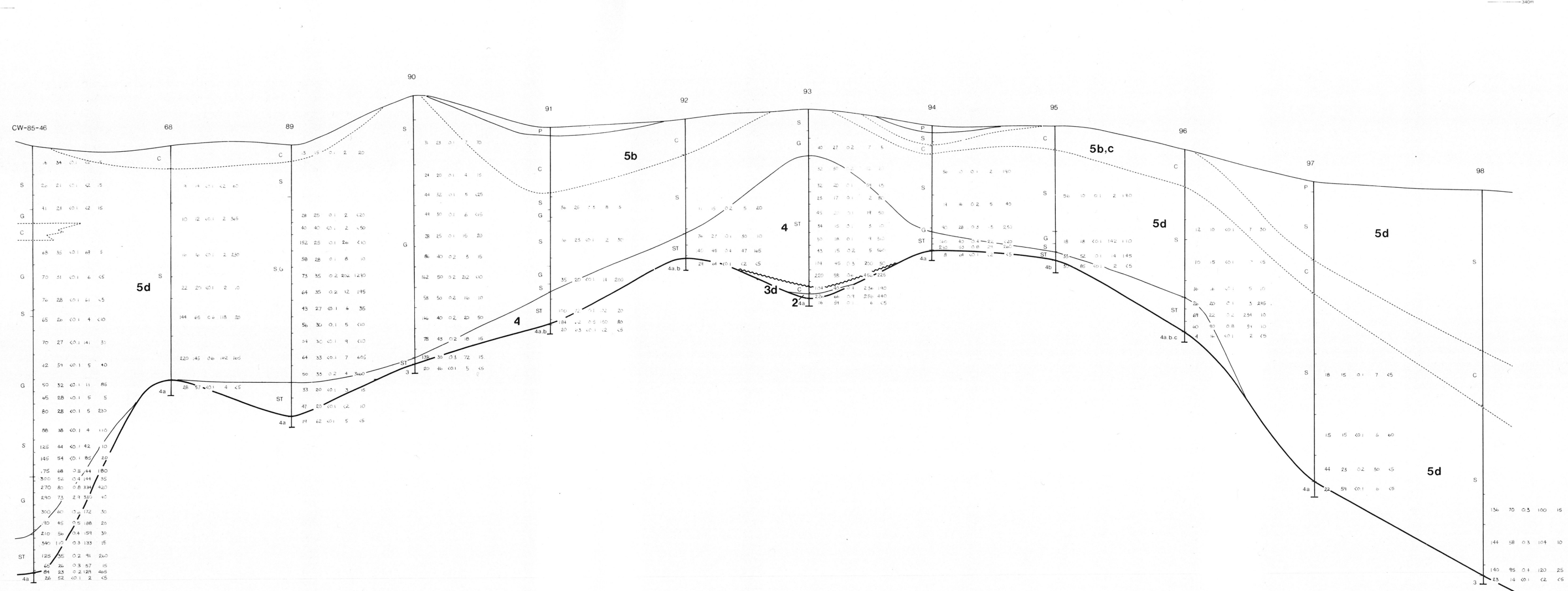
- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Felspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:500

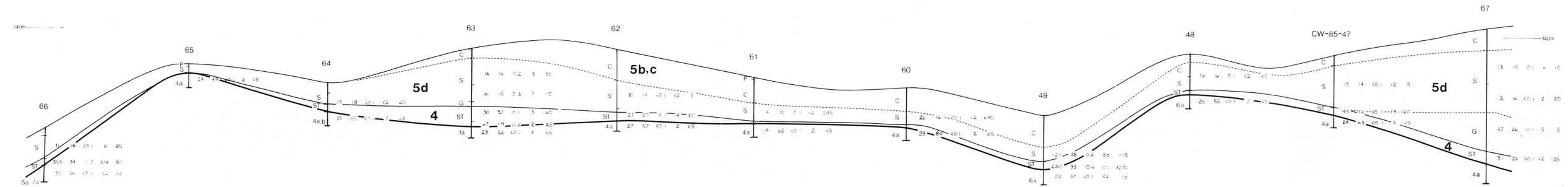


Ministère de l'Énergie et des Ressources  
Service de la Géoinformation  
Date: 7 AOÛT 1987  
No G.M.: 44879

Falconbridge Copper Limited  
CHAPAIS WEST PROJECT

TWPS of La Ribourde, Saussure and Dolomieu

Section  
E-E'



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinabi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 6.3 ppm Ag, 113 ppm As and 930 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Svanite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**

HOR. 1:10,000 VERT. 1:400

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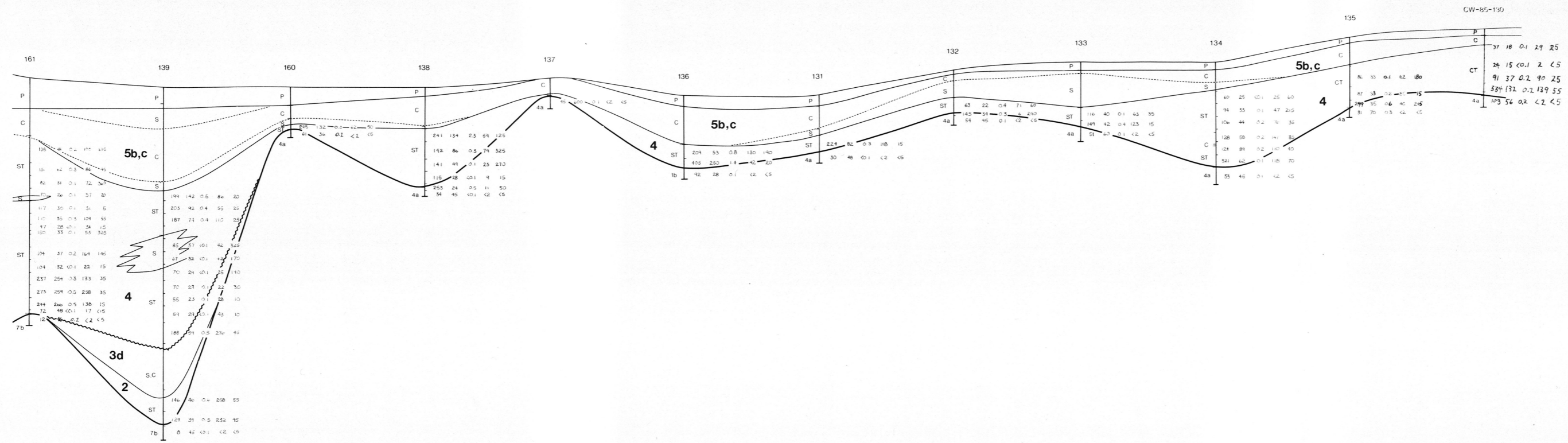
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Section  
 E-E'





340m 340m



LEGEND

Quaternary Stratigraphy

- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till

- SANGAMONIAN**
- 3 Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member

- ILLINOIAN**
- 2 Lower Till

- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 336 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**

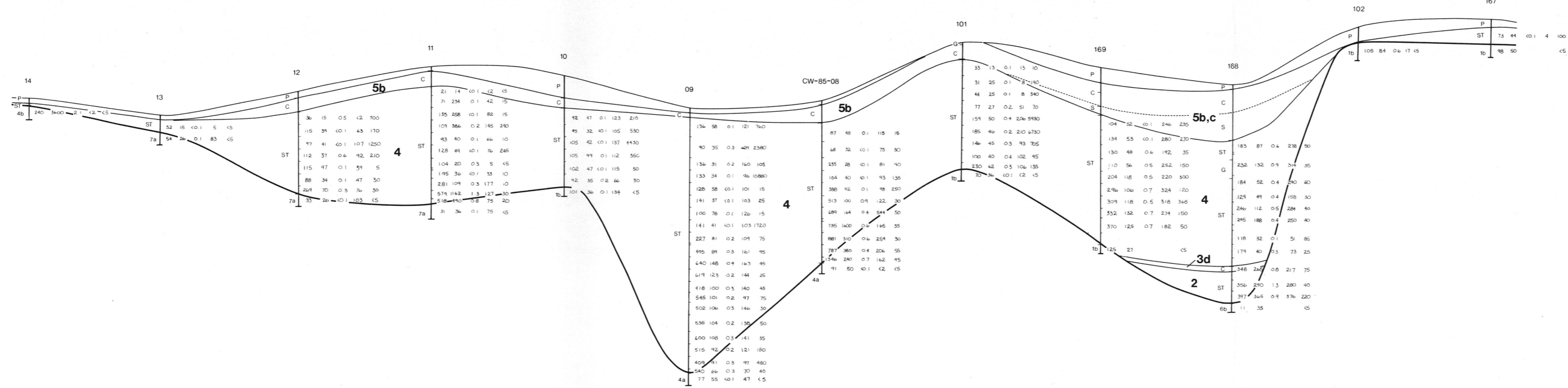
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 Section  
 F-F'

340m

340m



LEGEND

66

LATE WISCONSINAN

- 7 Cochrane Sediments
  - 7a - glaciofluvial/morainal member
  - 7b - glaciolacustrine member
- 6 Cochrane Till

WISCONSINAN AND LATE WISCONSINAN

- 5 Ojibway Sediments
  - 5a - glaciofluvial member
  - 5b - glaciolacustrine clay member
  - 5c - glaciolacustrine sand member
  - 5d - fluvial member
- 4 Chibougamau/Matheson Till

SANGAMONIAN

- 3 Missinabi Sediments
  - 3a - Illinoian glaciofluvial member
  - 3b - Illinoian glaciolacustrine member
  - 3c - Sangamonian interglacial member
  - 3d - Wisconsinan proglacial member

ILLINOIAN

- 2 Lower Till

KANSAN (?)

- 1 Older Till and Sediments

Sediment Varieties

- P Peat
- C Clay, silt
- S Sand
- G Gravel
- ST Sand-silt till; clay subordinate
- CT Clay till

Symbols

- Quaternary/bedrock unconformity
- Interglacial unconformity
- Quaternary unit boundary
- Quaternary sub-unit boundary

Geochemistry

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

Bedrock Lithology

- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
- 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
- 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
- 4 Graywacke (4a), siltstone (4b), mudstone (4c)
- 3 Fragmental intermediate - felsic volcanics
- 2 Felsic volcanics
- 1 Intermediate (1a) to mafic (1b) volcanics

Scale

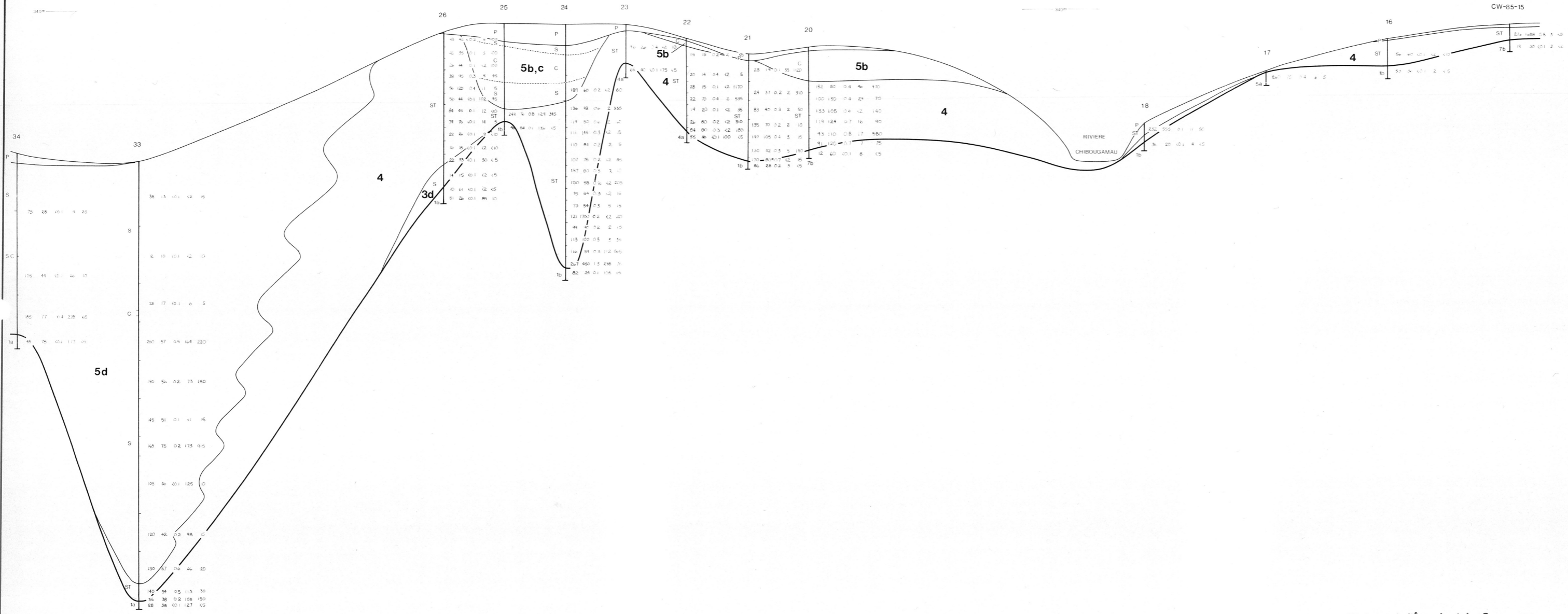
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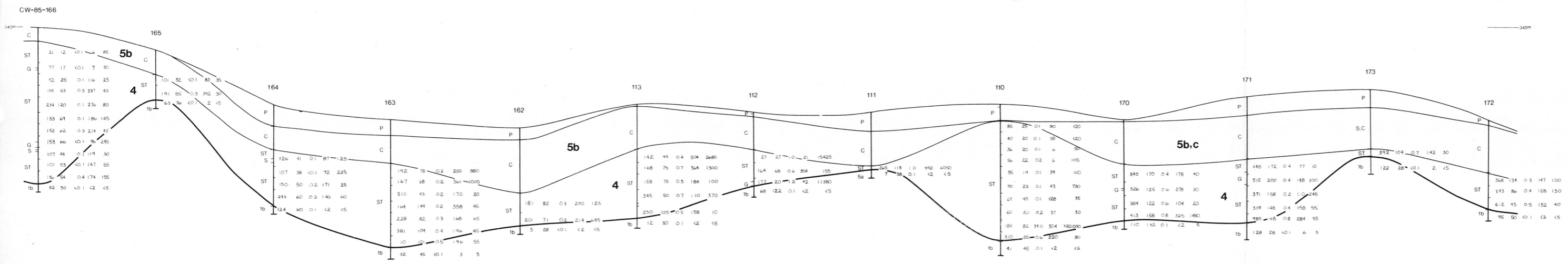
Section  
 G'-G''



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missisquoi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments
- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till
- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary
- Geochemistry**
- Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)
- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics
- Scale**
- HOR. 1:10,000 VERT. 1:400

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 Section  
 G-G'



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
    - 7 Cochrane Sediments
      - 7a - glaciofluvial/morainal member
      - 7b - glaciolacustrine member
    - 6 Cochrane Till
  - WISCONSINAN AND LATE WISCONSINAN**
    - 5 Ojibway Sediments
      - 5a - glaciofluvial member
      - 5b - glaciolacustrine clay member
      - 5c - glaciolacustrine sand member
      - 5d - fluvial member
    - 4 Chibougamau/Matheson Till
  - SANGAMONIAN**
    - 3 Missinaibi Sediments
      - 3a - Illinoian glaciofluvial member
      - 3b - Illinoian glaciolacustrine member
      - 3c - Sangamonian interglacial member
      - 3d - Wisconsinan proglacial member
  - ILLINOIAN**
    - 2 Lower Till
  - KANSAN (?)**
    - 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

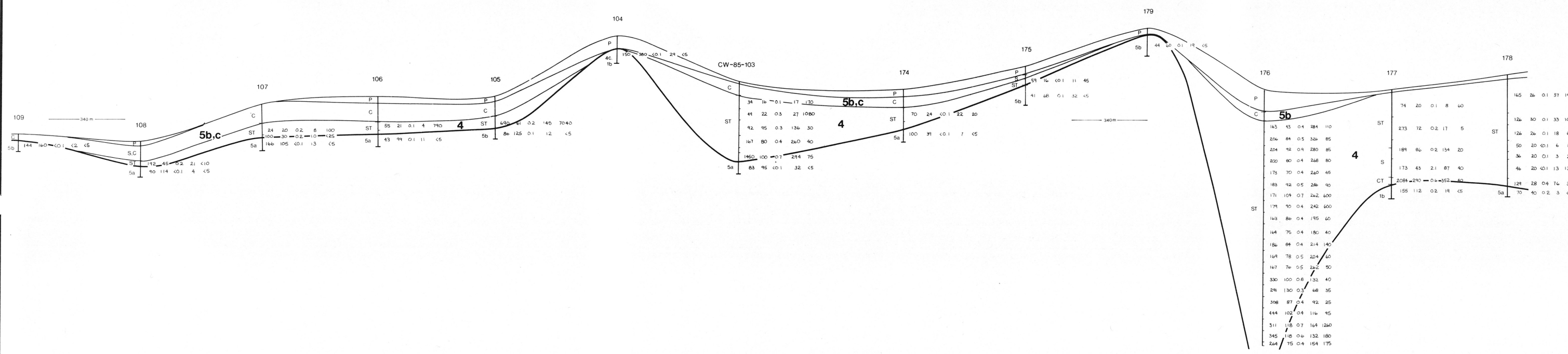
- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:400

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TWPS of La Ribourde, Saussure and Dolomieu

G'-J



- LEGEND**  
Quaternary Stratigraphy
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinaibi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till
- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary

**Geochemistry**

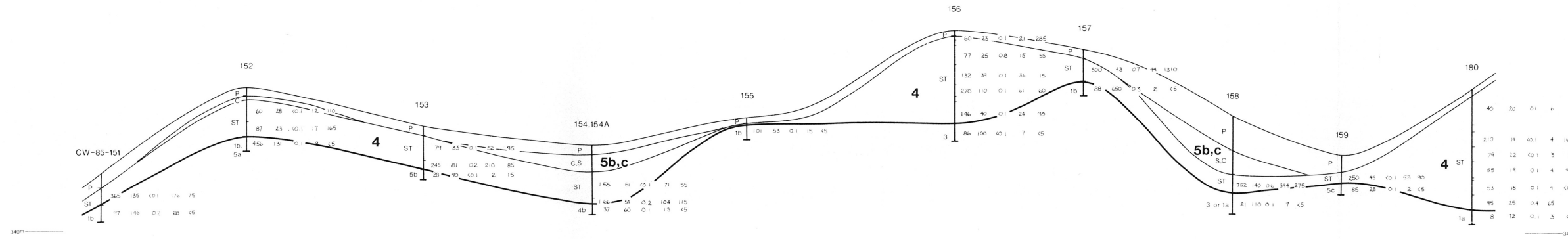
Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:40

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**Section H-H'**



**LEGEND**  
Quaternary Stratigraphy

- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinaibi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay + ...

- Symbols**
- Quaternary/bedrock unconformity
  - ~ Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

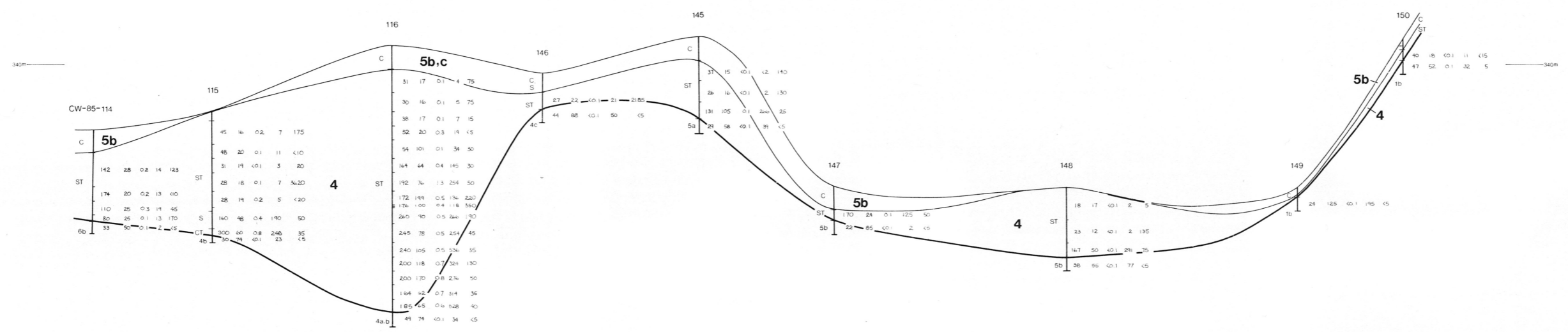
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TWPS of La Ribourde, Saussure and Dolomieu

Section  
1'-1"



- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinaibi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114, 137, 0.3, 113, 330 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 11.3 ppm As and 330 ppb Sr in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**

HOR. 1:10,000 VERT. 1:400

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TWPS of La Rivière, Saussure and Dolomieu

1-1'



- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinabi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member

- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

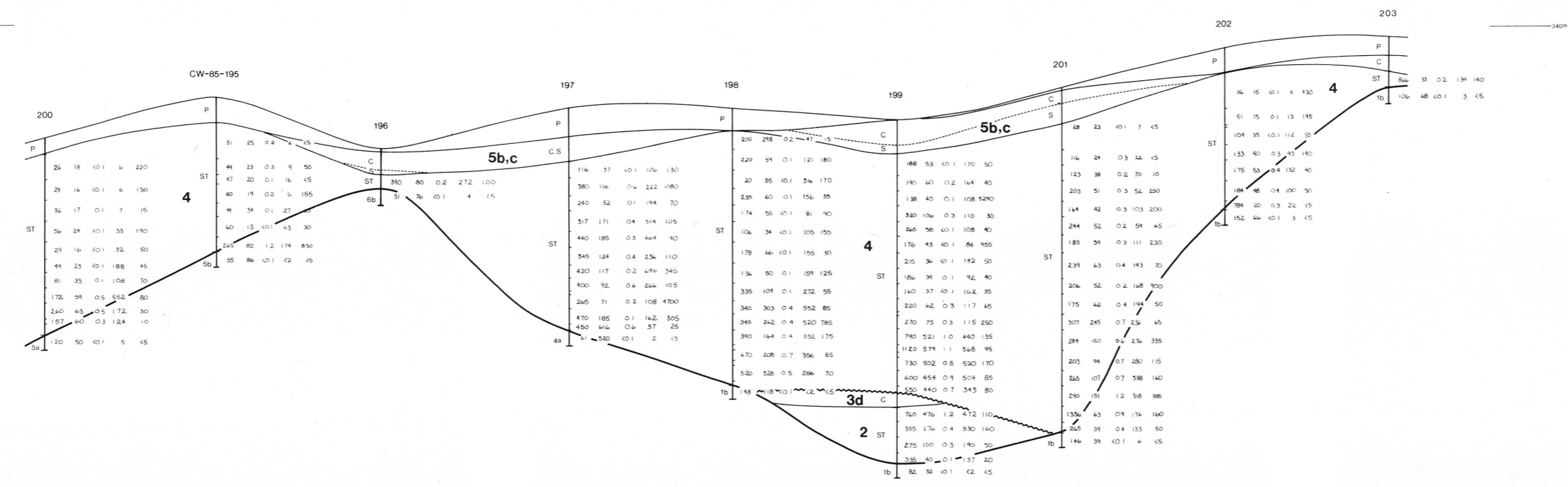
- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:400



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TWPS of La Rivourde, Saussure and Dolomieu  
Section  
**J'-J''**

LEGEND  
Quaternary Stratigraphy

- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinaibi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
    - 3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

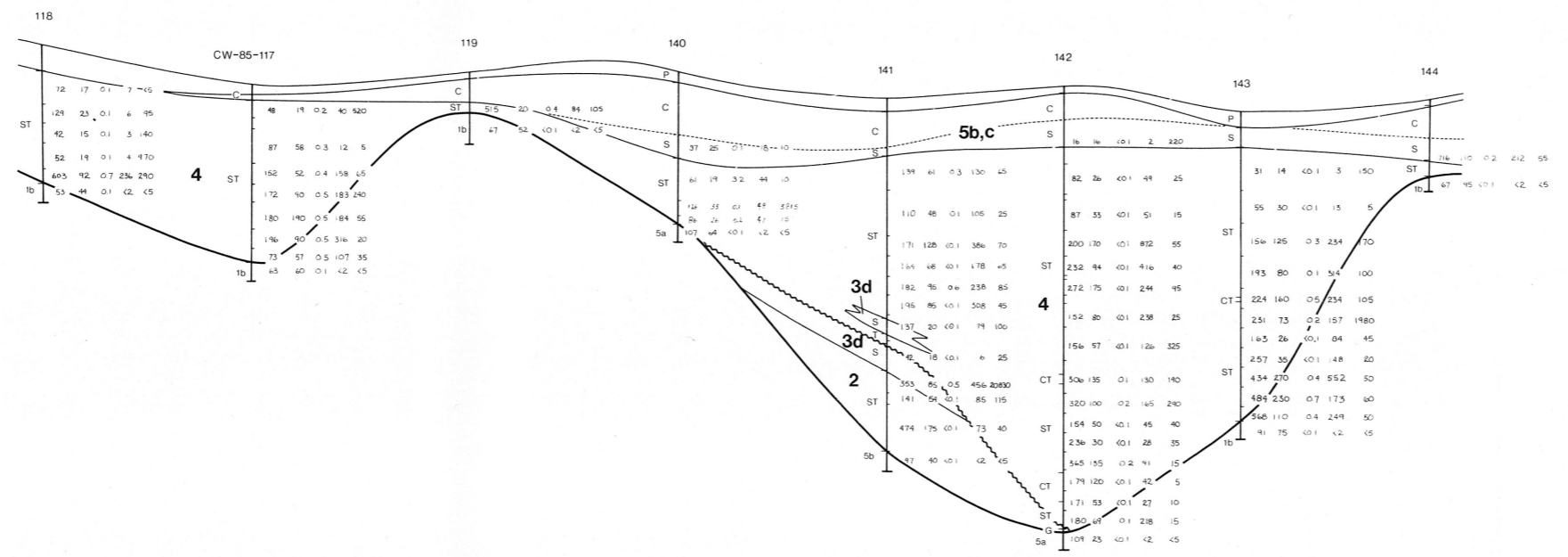
- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - ..... Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

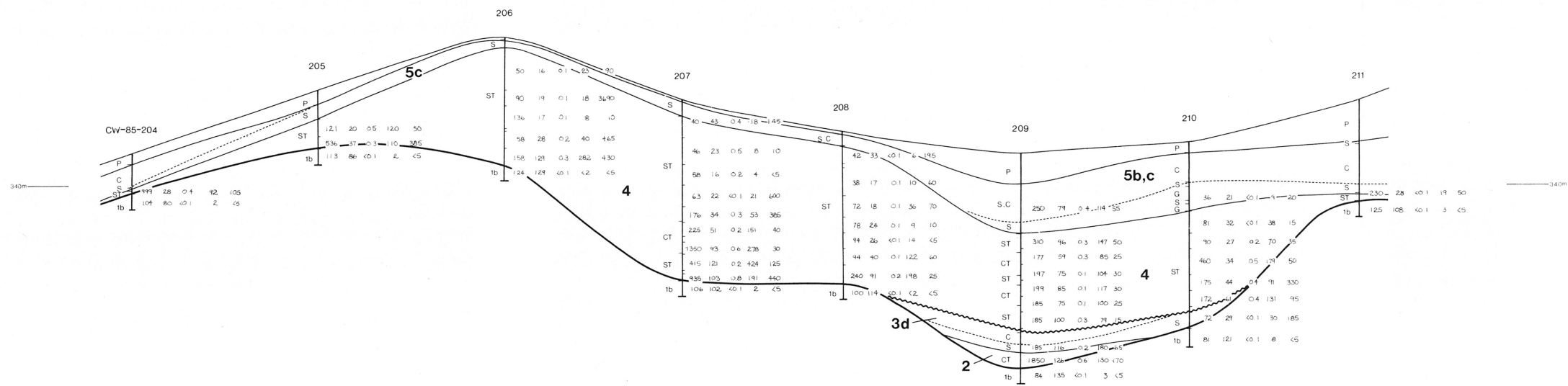
- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:400



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CHAPAIS WEST PROJECT  
TWPS of La Ribourde, Saussure and Dolomieu  
Section J-J'



- LEGEND**  
Quaternary Stratigraphy
- LATE WISCONSINAN**
- 7 Cochrane Sediments  
7a - glaciofluvial/morainal member  
7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments  
5a - glaciofluvial member  
5b - glaciolacustrine clay member  
5c - glaciolacustrine sand member  
5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinaibi Sediments  
3a - Illinoian glaciofluvial member  
3b - Illinoian glaciolacustrine member  
3c - Sangamonian interglacial member  
3d - Wisconsinan proglacial member
- ILLINOIAN**
- 2 Lower Till
- KANSAN (?)**
- 1 Older Till and Sediments

- Sediment Varieties**
- P Peat
  - C Clay, silt
  - S Sand
  - G Gravel
  - ST Sand-silt till; clay subordinate
  - CT Clay till

- Symbols**
- Quaternary/bedrock unconformity
  - Interglacial unconformity
  - Quaternary unit boundary
  - Quaternary sub-unit boundary

**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

- Bedrock Lithology**
- 7 Syenite (7a), granodiorite (7b), quartz diorite (7c)
  - 6 Feldspar porphyry (6a), quartz-feldspar porphyry (6b), felsite (7b)
  - 5 Gabbro (5a), quartz gabbro (5b), pyroxenite (5c)
  - 4 Graywacke (4a), siltstone (4b), mudstone (4c)
  - 3 Fragmental intermediate - felsic volcanics
  - 2 Felsic volcanics
  - 1 Intermediate (1a) to mafic (1b) volcanics

**Scale**  
HOR. 1:10,000 VERT. 1:400

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No G.M.: 44879

Falconbridge Copper Limited  
**CHAPAIS WEST PROJECT**  
TWPS of La Ribourde, Saussure and Dolomieu  
Section  
**J"-M**

LEGEND  
Quaternary Stratigraphy

- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glaciofluvial/morainal member
    - 7b - glaciolacustrine member
  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
    - 5a - glaciofluvial member
    - 5b - glaciolacustrine clay member
    - 5c - glaciolacustrine sand member
    - 5d - fluvial member
  - 4 Chibougamau/Matheson Till
- SANGAMONIAN**
- 3 Missinabi Sediments
    - 3a - Illinoian glaciofluvial member
    - 3b - Illinoian glaciolacustrine member
    - 3c - Sangamonian interglacial member
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- ILLINOIAN**
- 2 Lower Till
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- 1 Older Till and Sediments

Sediment Varieties

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- G Gravel
- ST Sand-silt till; clay subordinate
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Symbols

- Quaternary/bedrock unconformity
- ~ Interglacial unconformity
- Quaternary unit boundary
- ..... Quaternary sub-unit boundary

Geochemistry

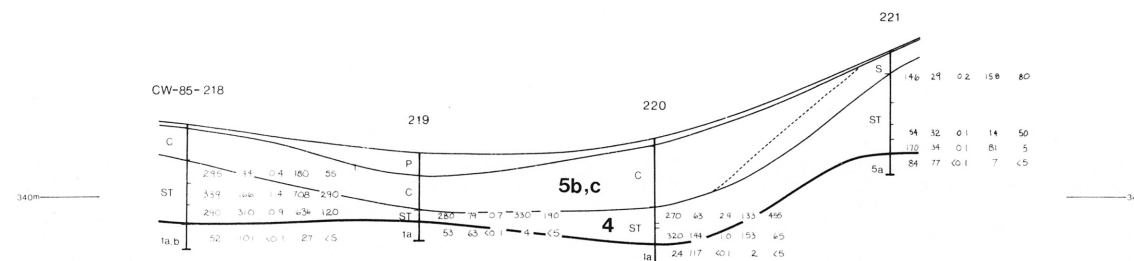
Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

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- 4 Graywacke (4a), siltstone 4(b), mudstone (4c)
- 3 Fragmental intermediate - felsic volcanics
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Scale

HOR. 1:10,000 VERT. 1:400



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Section  
K-K'

- LEGEND**
- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glacioluvial/morainal member
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  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
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    - 5d - fluvial member
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- Symbols**
- Quaternary/bedrock unconformity
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  - Quaternary unit boundary
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**Geochemistry**

Sand-silt till interval with 114 ppm Cu, 37 ppm Zn, 0.3 ppm Ag, 113 ppm As and 330 ppb Au in non-magnetic heavy mineral fraction (S.G. greater than 3.3)

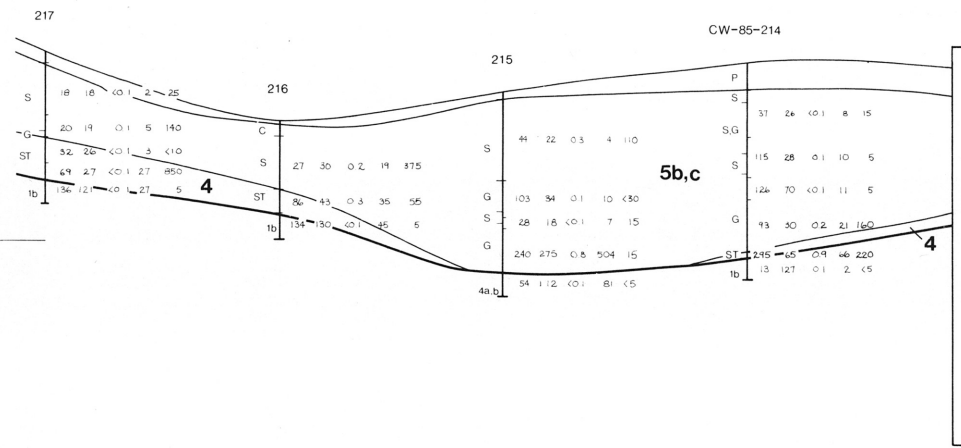
- Bedrock Lithology**
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**Scale**

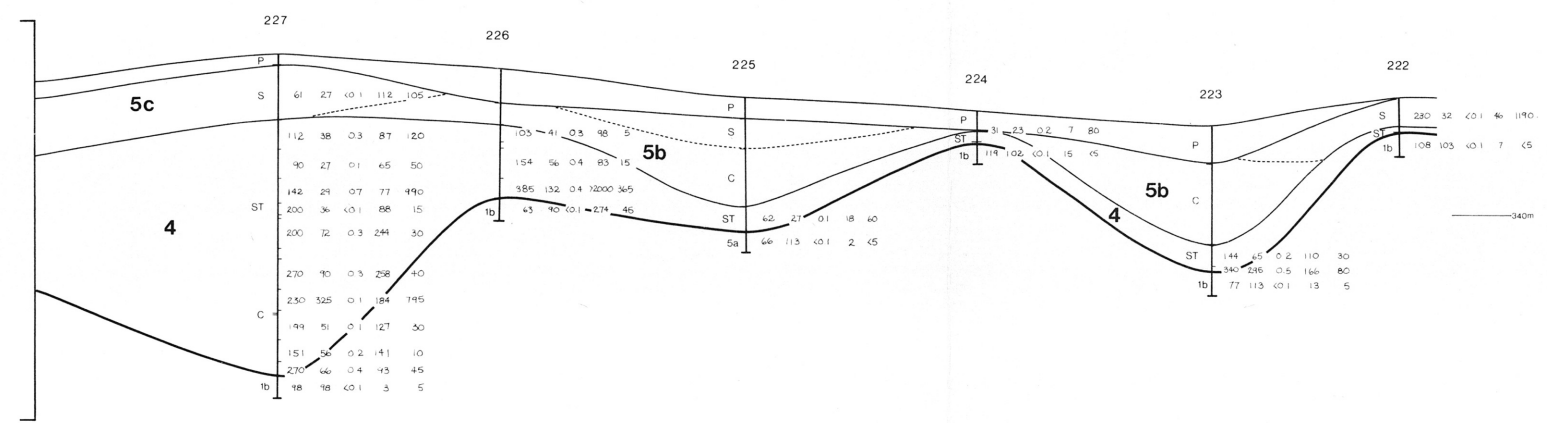
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L-L'



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- Quaternary Stratigraphy**
- LATE WISCONSINAN**
- 7 Cochrane Sediments
    - 7a - glacioluvial/morainal member
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  - 6 Cochrane Till
- WISCONSINAN AND LATE WISCONSINAN**
- 5 Ojibway Sediments
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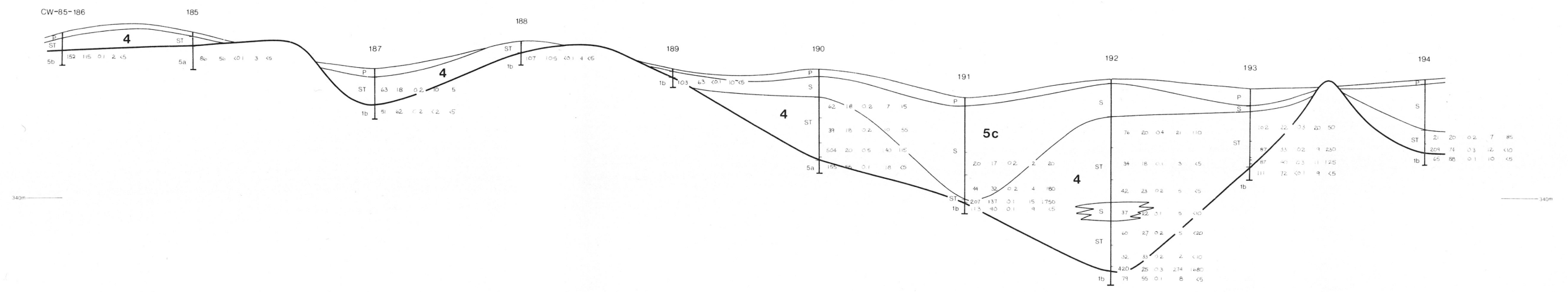
- Symbols**
- Quaternary/bedrock unconformity
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**Geochemistry**

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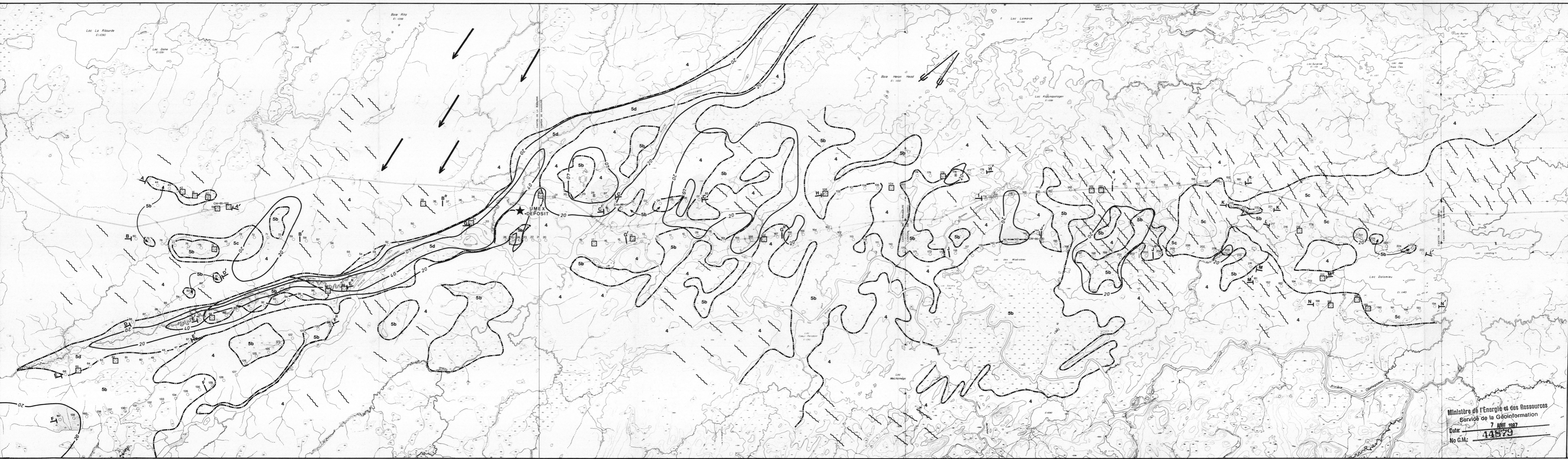


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TWPS of La Ribourde, Saussure and Dolomieu

Section  
N-N'



**LEGEND**  
 Quaternary Stratigraphy

**LATE WISCONSINAN**

- 5d - Colliure Sediments  
 5c - glaciolacustrine sand number  
 5b - glaciolacustrine number
- 4 - Colliure Till

**WISCONSINAN AND EARLY WISCONSINAN**

- 3 - Ojibwa Sediments  
 3a - glaciolacustrine number  
 3b - glaciolacustrine flow number  
 3c - glaciolacustrine sand number  
 3d - fluvial number
- 2 - Châteauguay/Matthews Till

**SANGAMUNIAN**

- 1 - Michelsville Sediments  
 1a - Illinoian glaciolacustrine number  
 1b - Illinoian glaciolacustrine number  
 1c - Sangamunian interglacial number  
 1d - Sangamunian glacial number

**ILLINOIAN**

- 0 - Lower Till

**KANSAN (?)**

- 0 - Older Till and Sediments

**Symbols**

- Surficial geological boundary
- Overlapped thickness contours (20 m intervals)
- Drumlins
- Ice-Gate Moraines
- 1985 cover circulation drill hole No. C.F. 33-75, bedrock not intersected
- 1985 cover circulation drill hole No. C.F. 33-14, till not intersected
- Area of basal Lower Till (Unit 1) and Michelsville Sediments (Unit 2)
- Location of Quaternary Section A-A'
- Direction of ice advance

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**CHAPAIS WEST PROJECT**  
 TWP5 of La Rivière, Saussure and Dolomieu  
**Plan 3**  
**SURFICIAL GEOLOGY**

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