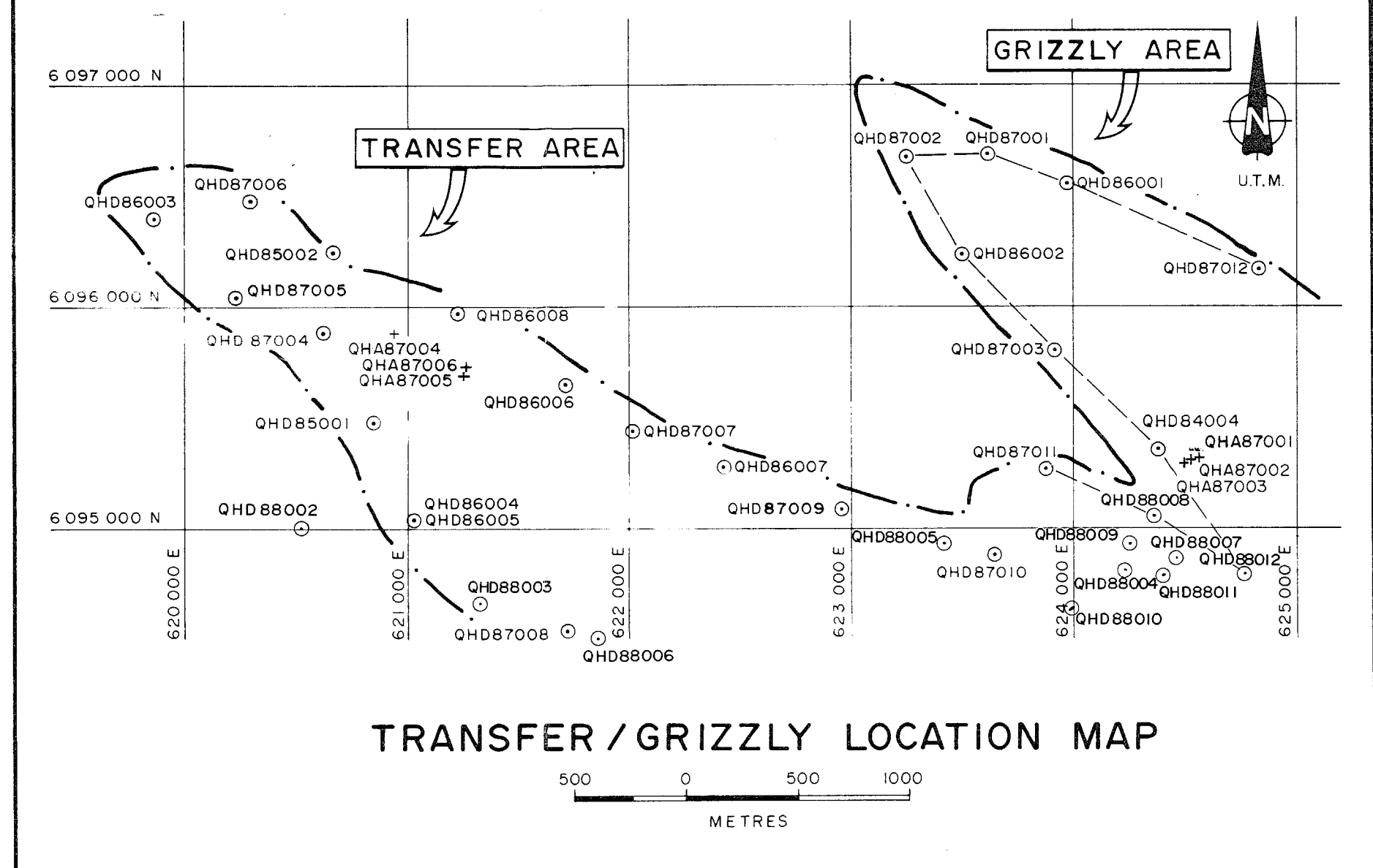


**Appendix T.3.3**  
**Grizzly Gates Correlation**

QHD 88008

GRIZZLY AREA

QHD 87011



LITHOLOGIC SYMBOLS

|                     |                                 |
|---------------------|---------------------------------|
| CONGLOMERATE        | CGL                             |
| COARSE SANDSTONE    | CS                              |
| MEDIUM SANDSTONE    | MS                              |
| FINE SANDSTONE      | FS                              |
| VERY FINE SANDSTONE | VFS                             |
| SANDY SHALE         | SSH (SILTSTONE)                 |
| COARSE SHALE        | CSH (SILTY CLAYSTONE)           |
| SHALE               | SH (CLAYSTONE)                  |
| DARK GREY SHALE     | DKGRSH (CARBONACEOUS ~ 60% ASH) |
| DARK SHALE          | DKSH (50-60% ASH)               |
| COALY SHALE         | CSH (40-50% ASH)                |
| COAL/ROCK           | CD (30-40% ASH)                 |
| COAL                | CC (20-30% ASH)                 |
| COAL                | CB (10-20% ASH)                 |
| COAL                | CA (<10% ASH)                   |

QHD 87003

QHD 87012

QHD 87001

QHD 86001

QHD 88012

QHD 86002

QHD 84004

QHD 87002

D SEAM

E3 SEAM

F SEAM

G CONGLOMERATE

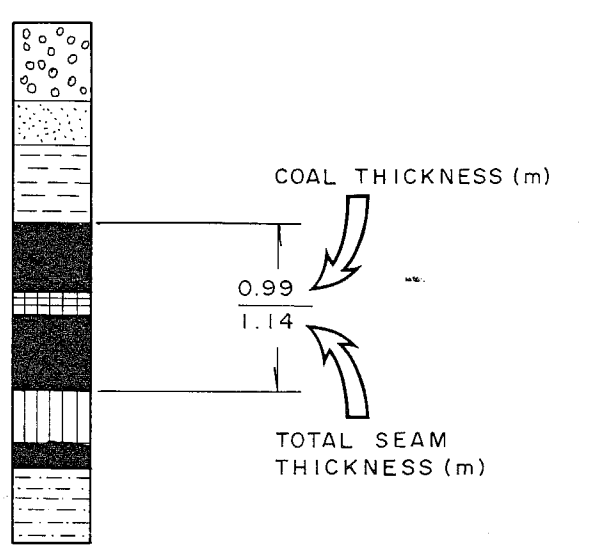
G SEAM

J SEAM

K1 SEAM

K2 SEAM

LEGEND



|     |          |                |          |             |                |
|-----|----------|----------------|----------|-------------|----------------|
| 2   | 20 03 90 | UPDATED        | DJW      | NH          | DJ             |
| 1   | 28 02 89 | UPDATED        | DKL      | NH          | DJ             |
| 0   | 18 03 88 | ORIGINAL DRAFT | KJV      | NH          | DJ             |
| Rev | ID       | M Y            | Revision | Description | Drn. Des. App. |

QUINTETTE COAL LIMITED  
 Project Manager  
 DENISON MINES LIMITED  
 COAL DIVISION

Area GRIZZLY Category CORRELATION

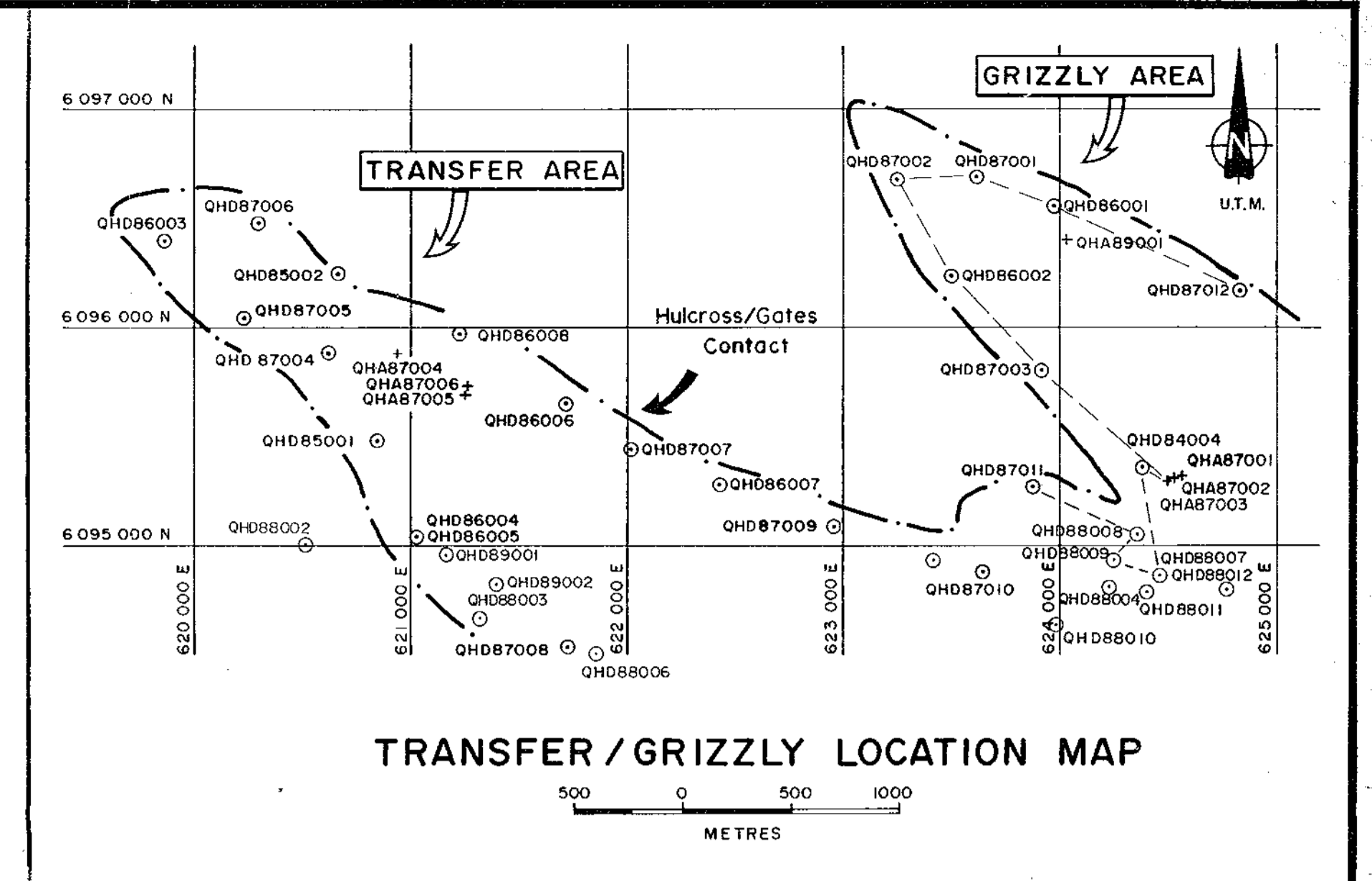
Drawing Title

GRIZZLY AREA **753**  
 GATES CORRELATION

|       |       |             |               |      |   |
|-------|-------|-------------|---------------|------|---|
| Scale | 1:200 | Drawing No. | 88-905-26-001 | Rev. | 2 |
|-------|-------|-------------|---------------|------|---|

**Appendix T.3.4**  
**Grizzly Seam Correlation**  
**(2 sheets)**

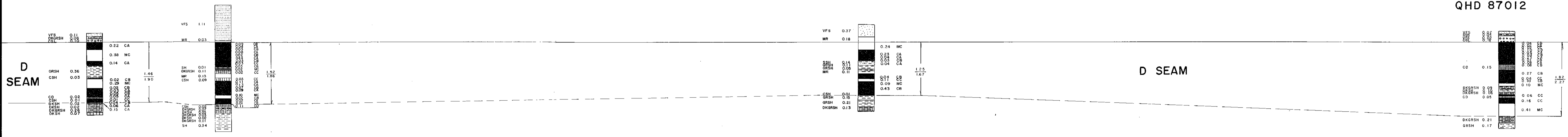
# GRIZZLY AREA



QHD 87011 QHD 88008

QHD 87003

QHD 87012

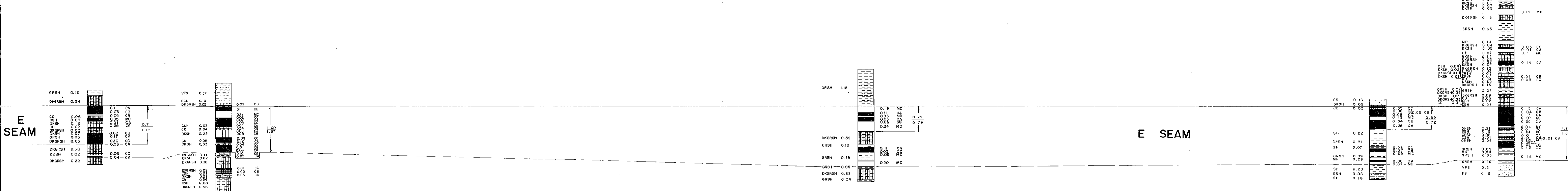


- ### LITHOLOGIC SYMBOLS
- CONGLOMERATE CGL
  - COARSE SANDSTONE CS
  - MEDIUM SANDSTONE MS
  - FINE SANDSTONE FS
  - VERY FINE SANDSTONE VFS
  - SANDY SHALE SSH (SILTSTONE)
  - COARSE SHALE CRSH (SILTY CLAYSTONE)
  - SHALE SH (CLAYSTONE)
  - DARK GREY SHALE DKGRSH (CARBONACEOUS - 60% ASH)
  - DARK SHALE DKSH (50 - 60% ASH)
  - COALY SHALE CSH (40 - 50% ASH)
  - COAL / ROCK CD (30 - 40% ASH)
  - COAL CC (20 - 30% ASH)
  - COAL CB (10 - 20% ASH)
  - COAL CA (<10% ASH)
  - MISSING COAL/ROCK MC/WR

QHD 87011 QHD 88008

QHD 87003

QHD 86001



QHD 87011 QHD 88008

QHD 88009

QHD 88007

QHD 84004

QHA 87003 (ADIT-1969 SAMPLE)

QHD 87003

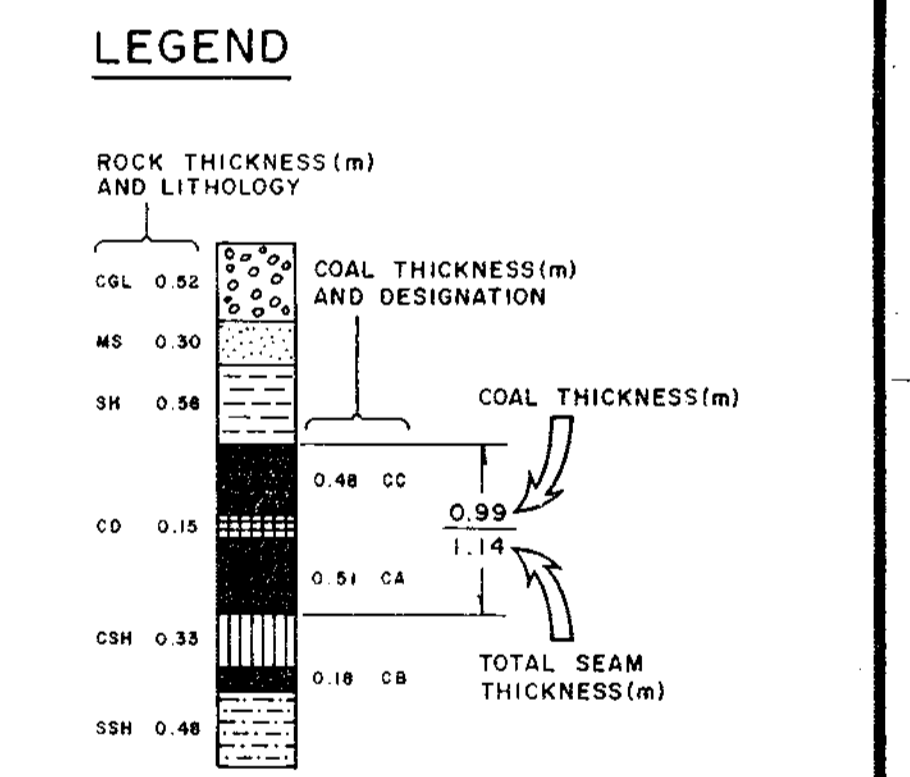
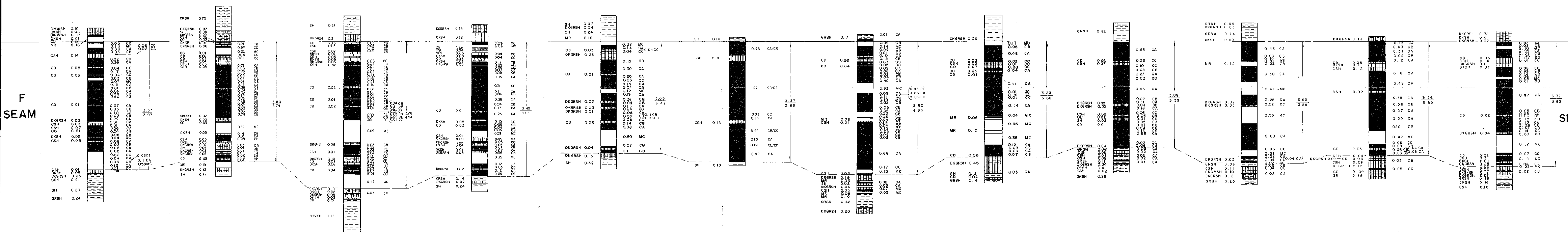
QHD 86002

QHD 87002

QHD 87001

QHD 86001

QHD 87012



| Rev. | Date     | Description          | Drn. | Des. | App. |
|------|----------|----------------------|------|------|------|
| 2    | 14/11/98 | ADD 1969 ADIT SAMPLE | DCL  | N/H  | D.J. |
| 1    | 20/02/99 | UPDATED              | SKL  | N/H  | D.J. |
| 0    | 29/03/98 | ORIGINAL DRAFT       | RLR  | N/H  | D.J. |

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Project Manager

**DENISON MINES LIMITED**  
COAL DIVISION

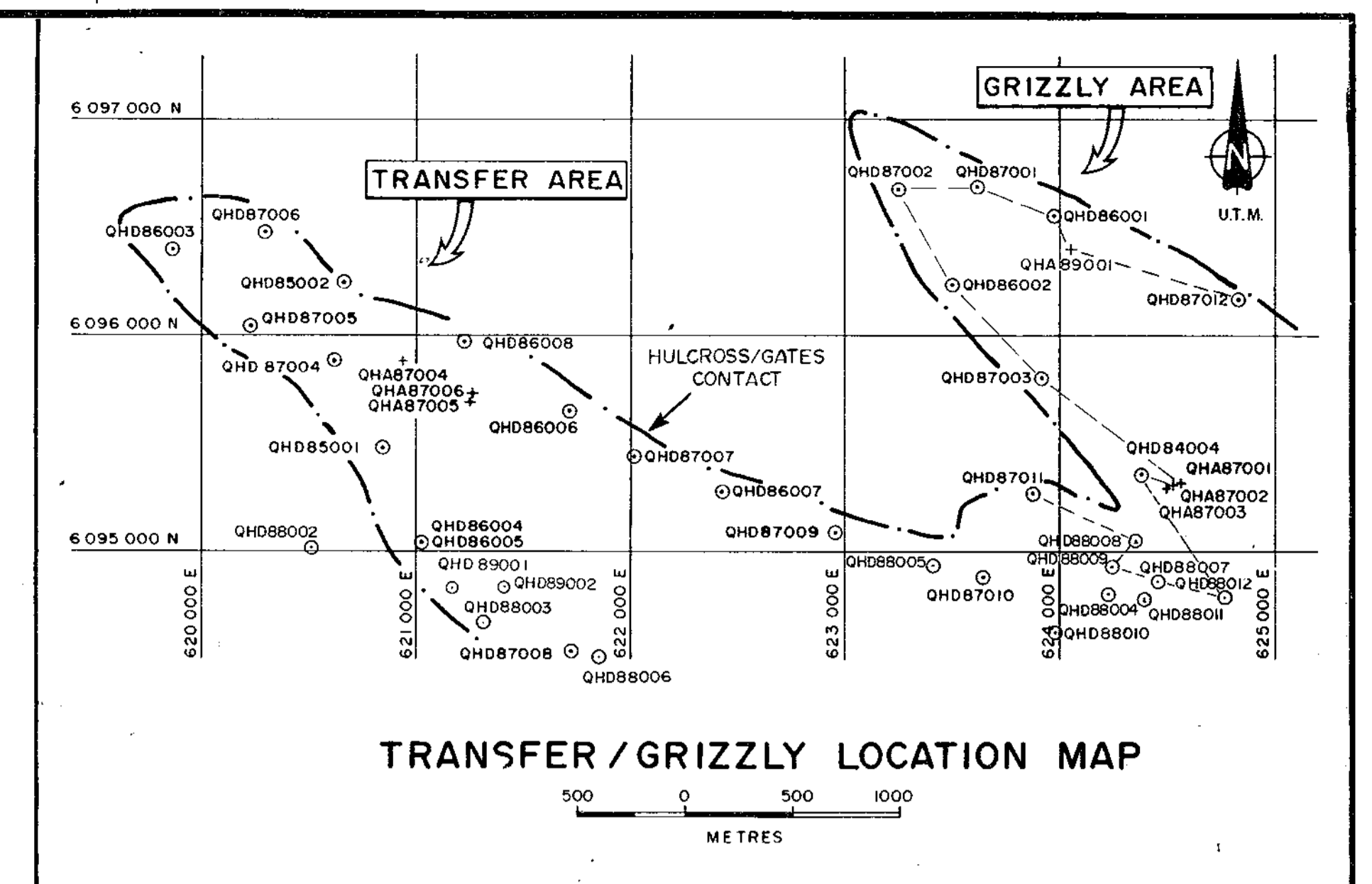
Area GRIZZLY Category CORRELATION

Drawing Title  
**GRIZZLY AREA  
DETAILED SEAM CORRELATION  
D, E AND F SEAMS**

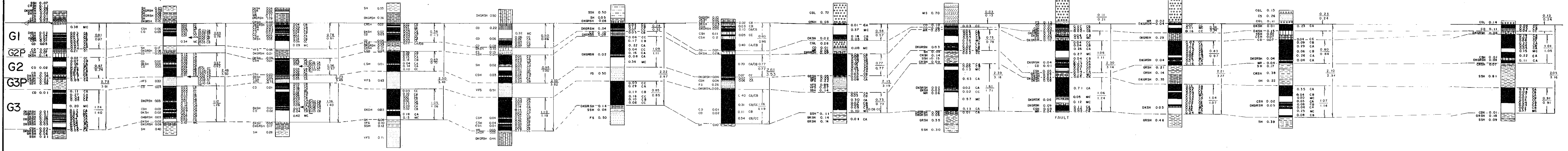
Scale 1:50 (vert.) Drawing No. 88-905-26-002 Rev. 2

753

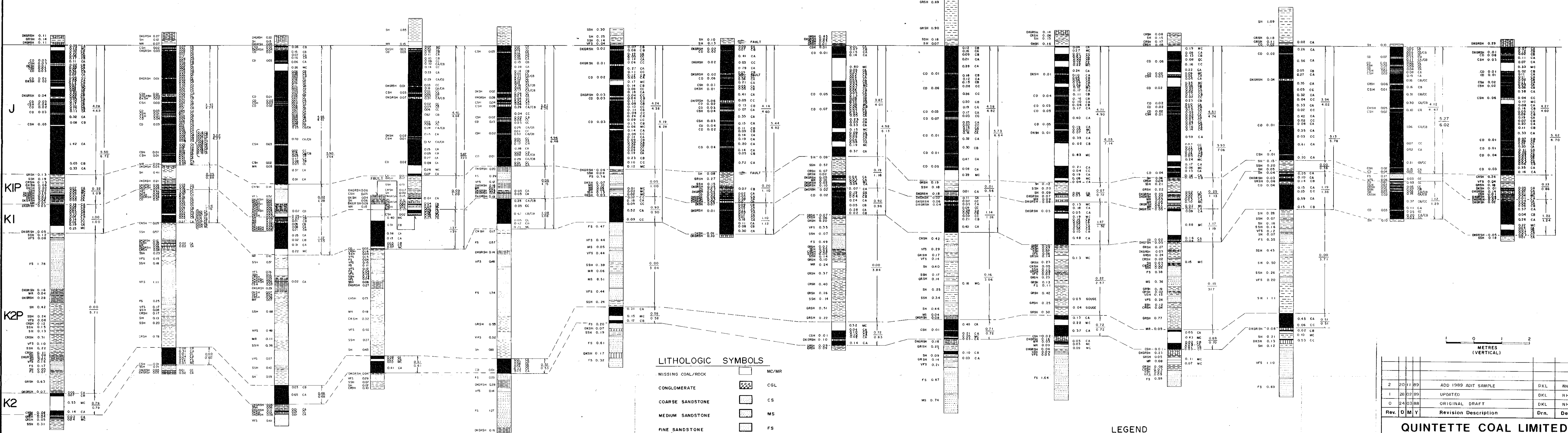
# GRIZZLY AREA



QHD 87011    QHD 88008    QHD 88009    QHD 88007    QHD 88012    QHD 84004    QHA 87002 (ADIT-1989 SAMPLE)    QHD 87003    QHD 86002    QHD 87002    QHD 87001    QHD 86001    QHD 87012

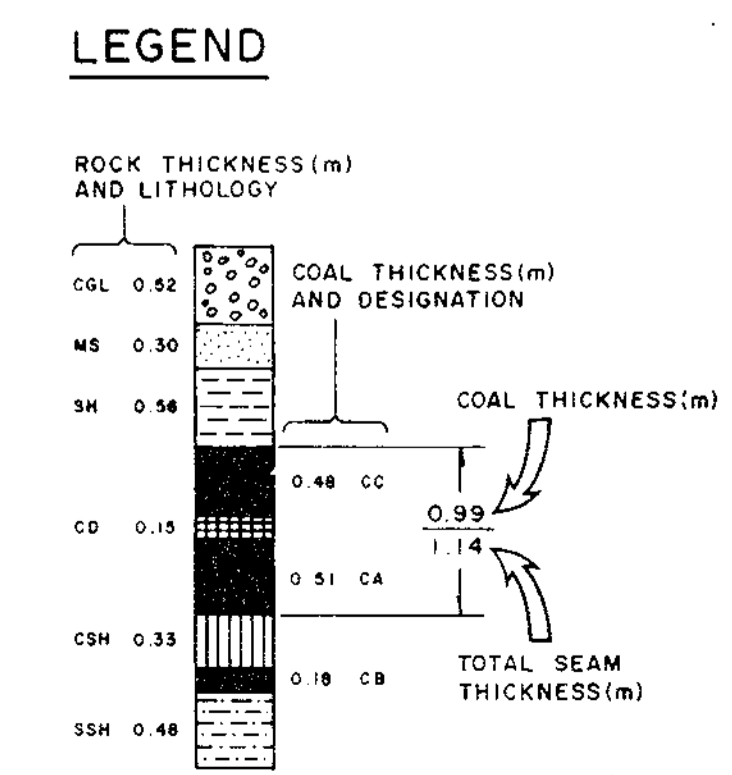


QHD 87011    QHD 88008    QHD 88009    QHD 88007    QHD 88012    QHD 84004    QHA 87001 (ADIT)    QHD 87003    QHD 86002    QHD 87002    QHD 87001    QHD 86001    QHA89001 (ADIT)    QHD 87012



**LITHOLOGIC SYMBOLS**

|                     |                                 |
|---------------------|---------------------------------|
| MISSING COAL/ROCK   | MC/MR                           |
| CONGLOMERATE        | CGL                             |
| COARSE SANDSTONE    | CS                              |
| MEDIUM SANDSTONE    | MS                              |
| FINE SANDSTONE      | FS                              |
| VERY FINE SANDSTONE | VFS                             |
| SANDY SHALE         | SSH (SILTSTONE)                 |
| COARSE SHALE        | CRSH (SILTY CLAYSTONE)          |
| SHALE               | SH (CLAYSTONE)                  |
| DARK GREY SHALE     | DKGRSH (CARBONACEOUS > 60% ASH) |
| DARK SHALE          | DKSH (50-60% ASH)               |
| COALY SHALE         | CSH (40-50% ASH)                |
| COAL/ROCK           | CD (30-40% ASH)                 |
| COAL                | CC (20-30% ASH)                 |
| COAL                | CB (10-20% ASH)                 |
| COAL                | CA (<10% ASH)                   |



| Rev. | Date     | Description          | Drn. | Des. | App. |
|------|----------|----------------------|------|------|------|
| 2    | 20/11/89 | ADD 1989 ADIT SAMPLE | DKL  | NH   | DJ   |
| 1    | 28/02/89 | UPDATED              | DKL  | NH   | DJ   |
| 0    | 24/03/88 | ORIGINAL DRAFT       | DKL  | NH   | DJ   |

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 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area: GRIZZLY    Category: CORRELATION

Drawing Title:  
**GRIZZLY AREA**  
**DETAILED SEAM CORRELATION**  
**G, J AND K SEAMS**

Scale: 1:50 (vert.)    Drawing No.: 88-905-26-003    Rev.: 2

753

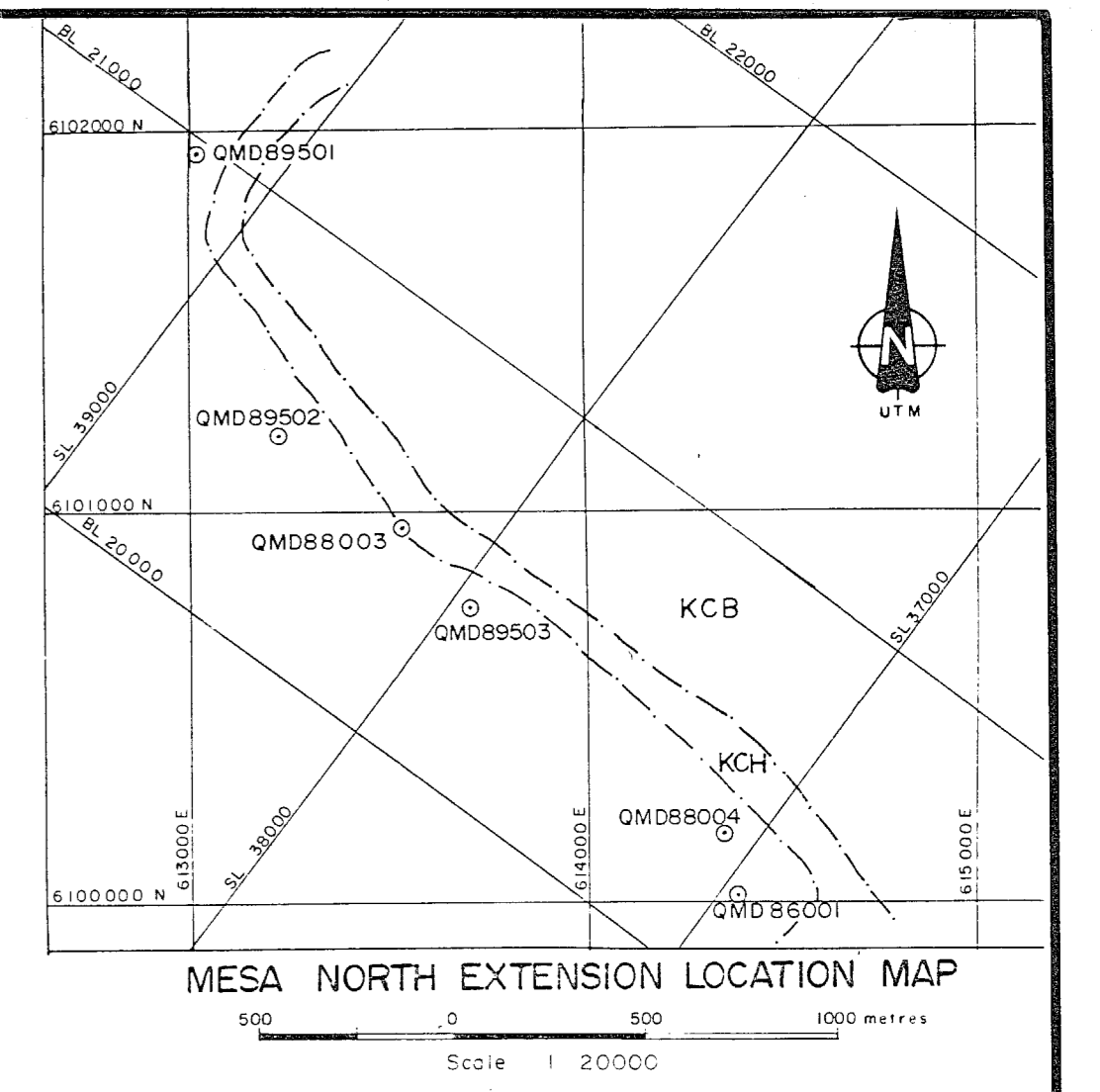
**Appendix T.3.5**  
**Mesa North Extension**  
**Gates Correlation**

QMD 88003

\* NOTE: For QMD88003, omitted portion = 10.87 m of Overburden

HULCROSS GATES

MESA NORTH EXTENSION



753

QMD 89501

QMD89502

QMD 86001

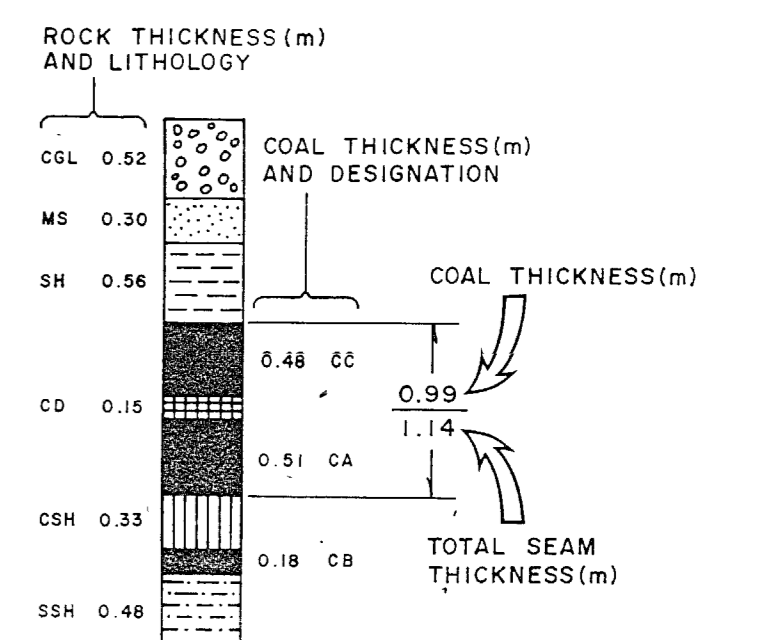
QMD 88004

QMD89503

LITHOLOGIC SYMBOLS

|                     |                                 |
|---------------------|---------------------------------|
| CONGLOMERATE        | CGL                             |
| COARSE SANDSTONE    | CS                              |
| MEDIUM SANDSTONE    | MS                              |
| FINE SANDSTONE      | FS                              |
| VERY FINE SANDSTONE | VFS                             |
| SANDY SHALE         | SSH (SILTSTONE)                 |
| COARSE SHALE        | CRSH (SILTY CLAYSTONE)          |
| SHALE               | SH (CLAYSTONE)                  |
| DARK GREY SHALE     | DKGRSH (CARBONACEOUS > 60% ASH) |
| DARK SHALE          | DKSH (50 - 60 % ASH)            |
| COALY SHALE         | COSH (40 - 50 % ASH)            |
| COAL / ROCK         | CD (30 - 40 % ASH)              |
| COAL                | CC (20 - 30 % ASH)              |
| COAL                | CB (10 - 20 % ASH)              |
| COAL                | CA (<10 % ASH)                  |

LEGEND



0 5 10 METRES (VERTICAL)

CAPROCK

CAPROCK

D3 SEAM

D4 SEAM

E1 SEAM

E2/E3 upper SEAM

E3 lower SEAM

E4 SEAM

G SEAM

J SEAM

E4 CONGLOMERATE

|                       |    |                            |    |                       |         |      |      |
|-----------------------|----|----------------------------|----|-----------------------|---------|------|------|
| 0                     | 11 | 01                         | 90 | ORIGINAL DRAFT        | DKL/DJW | NH   | DJ   |
| Rev.                  | D  | M                          | Y  | Revision Description  | Drn.    | Des. | App. |
| QUINETTE COAL LIMITED |    |                            |    |                       |         |      |      |
| Project Manager       |    |                            |    |                       |         |      |      |
| DENISON MINES LIMITED |    |                            |    |                       |         |      |      |
| COAL DIVISION         |    |                            |    |                       |         |      |      |
| Area: MESA NORTH      |    |                            |    | Category: CORRELATION |         |      |      |
| Drawing Title         |    |                            |    |                       |         |      |      |
| MESA NORTH EXTENSION  |    |                            |    |                       |         |      |      |
| GATES CORRELATION     |    |                            |    |                       |         |      |      |
| Scale: 1:200          |    | Drawing No.: 89-106-26-001 |    |                       | Rev.: 0 |      |      |

**Appendix T.3.6**  
**Mesa North Extension**  
**Seam Correlation**



# MESA NORTH EXTENSION

QMD 89501

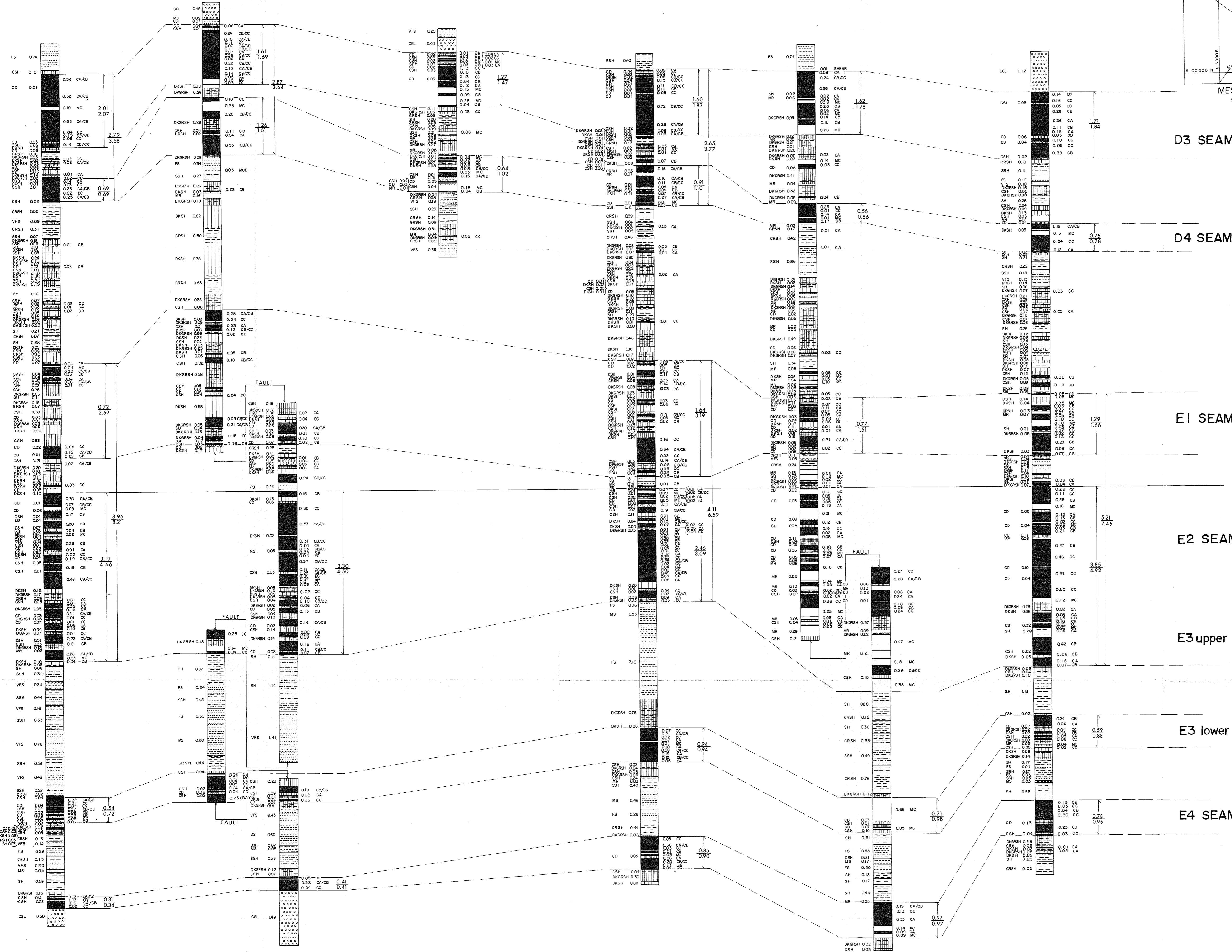
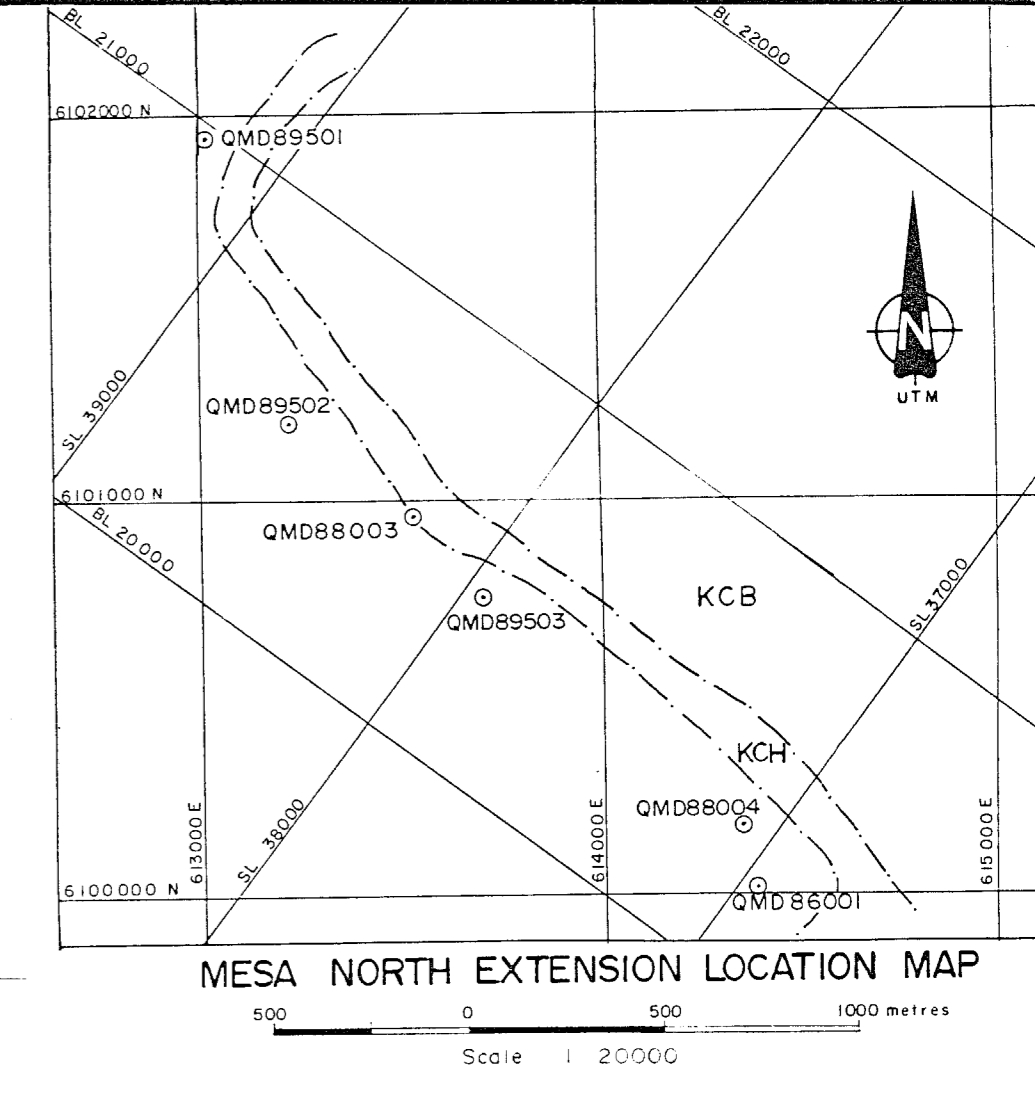
QMD 89502

QMD 88003

QMD 89503

QMD 88004

QMD 86001



D3 SEAM

D4 SEAM

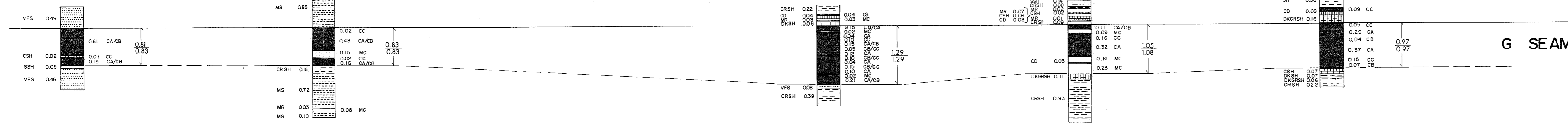
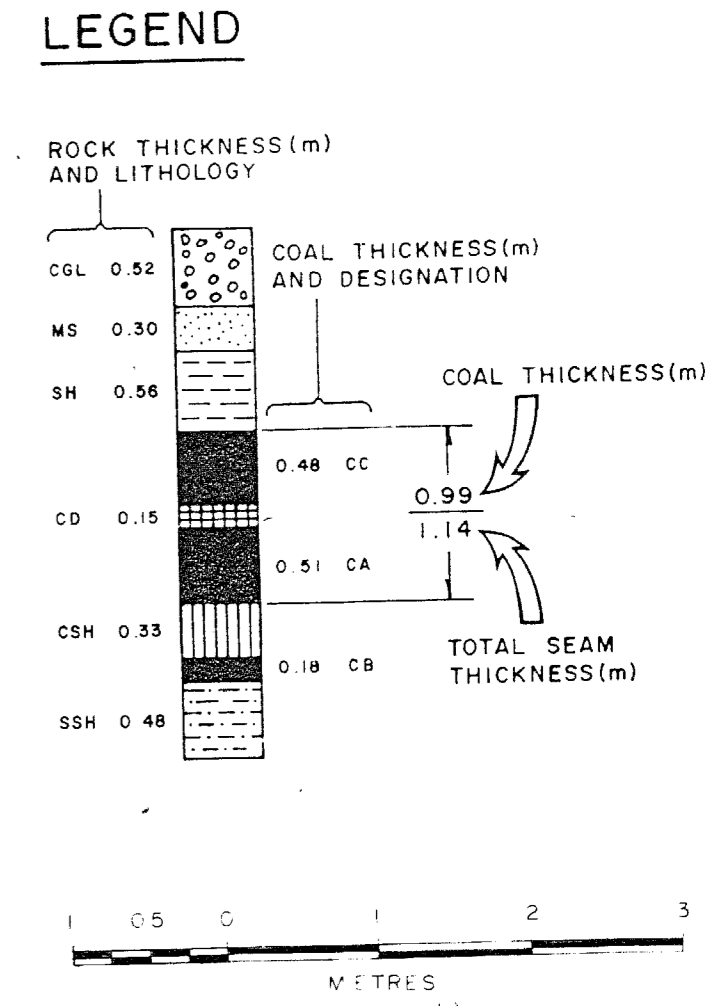
E1 SEAM

E2 SEAM

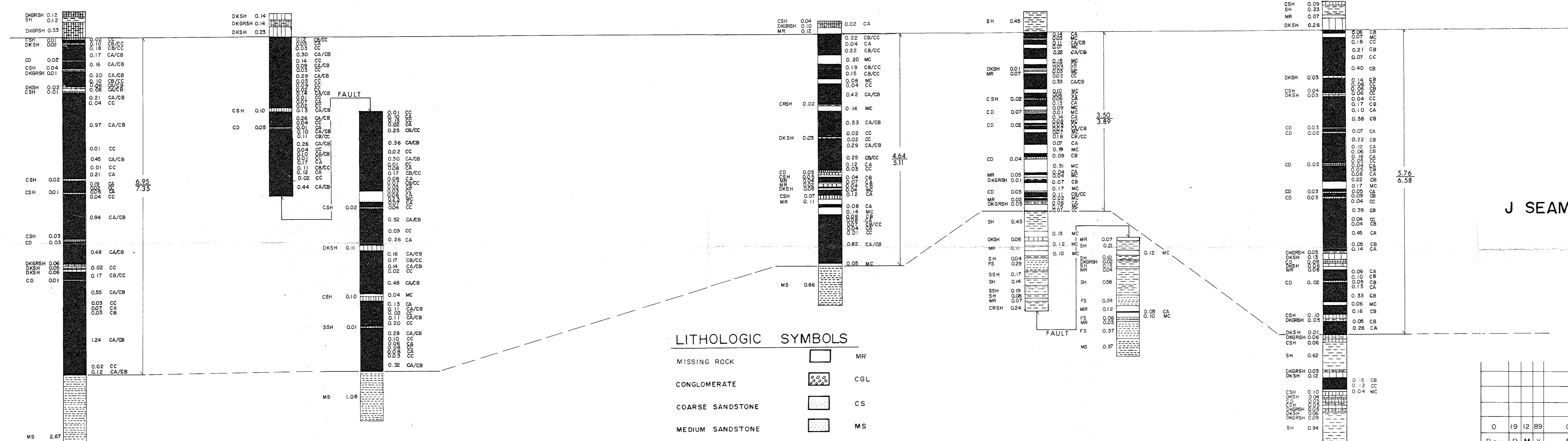
E3 upper SEAM

E3 lower SEAM

E4 SEAM



G SEAM



J SEAM

**LITHOLOGIC SYMBOLS**

|                     |                                 |
|---------------------|---------------------------------|
| MISSING ROCK        | MR                              |
| CONGLOMERATE        | CGL                             |
| COARSE SANDSTONE    | CS                              |
| MEDIUM SANDSTONE    | MS                              |
| FINE SANDSTONE      | FS                              |
| VERY FINE SANDSTONE | VFS                             |
| SANDY SHALE         | SSH (SILTSTONE)                 |
| COARSE SHALE        | CRSH (SILTY CLAYSTONE)          |
| SHALE               | SH (CLAYSTONE)                  |
| DARK GREY SHALE     | DKGRSH (CARBONACEOUS > 60% ASH) |
| DARK SHALE          | DKSH (50-60% ASH)               |
| COALY SHALE         | CSH (40-50% ASH)                |
| COAL/ROCK           | CD (30-40% ASH)                 |
| COAL                | CC (20-30% ASH)                 |
| COAL                | CB (10-20% ASH)                 |
| COAL                | CA (<10% ASH)                   |
| MISSING COAL        | MC                              |

753

|                               |    |               |    |                      |      |      |      |
|-------------------------------|----|---------------|----|----------------------|------|------|------|
| 0                             | 19 | 12            | 28 | ORIGINAL DRAFT       | DKL  | NH   | GGJ  |
| Rev.                          | D  | M             | Y  | Revision Description | Drn. | Des. | App. |
| <b>QUINTETTE COAL LIMITED</b> |    |               |    |                      |      |      |      |
| Project Manager               |    |               |    |                      |      |      |      |
| <b>DENISON MINES LIMITED</b>  |    |               |    |                      |      |      |      |
| COAL DIVISION                 |    |               |    |                      |      |      |      |
| Area MESA NORTH EXTENSION     |    |               |    | Category CORRELATION |      |      |      |
| Drawing Title                 |    |               |    |                      |      |      |      |
| <b>MESA NORTH EXTENSION</b>   |    |               |    |                      |      |      |      |
| <b>DETAILED SEAM</b>          |    |               |    |                      |      |      |      |
| <b>CORRELATION</b>            |    |               |    |                      |      |      |      |
| Scale                         |    | Drawing No.   |    | Rev.                 |      |      |      |
| 1:50 (VERT.)                  |    | 89-106-26-002 |    | 0                    |      |      |      |

**Appendix T.4**  
**1989 Geological Report**  
**Adit Drawings**

**Appendix T.4.1**  
**Transfer**



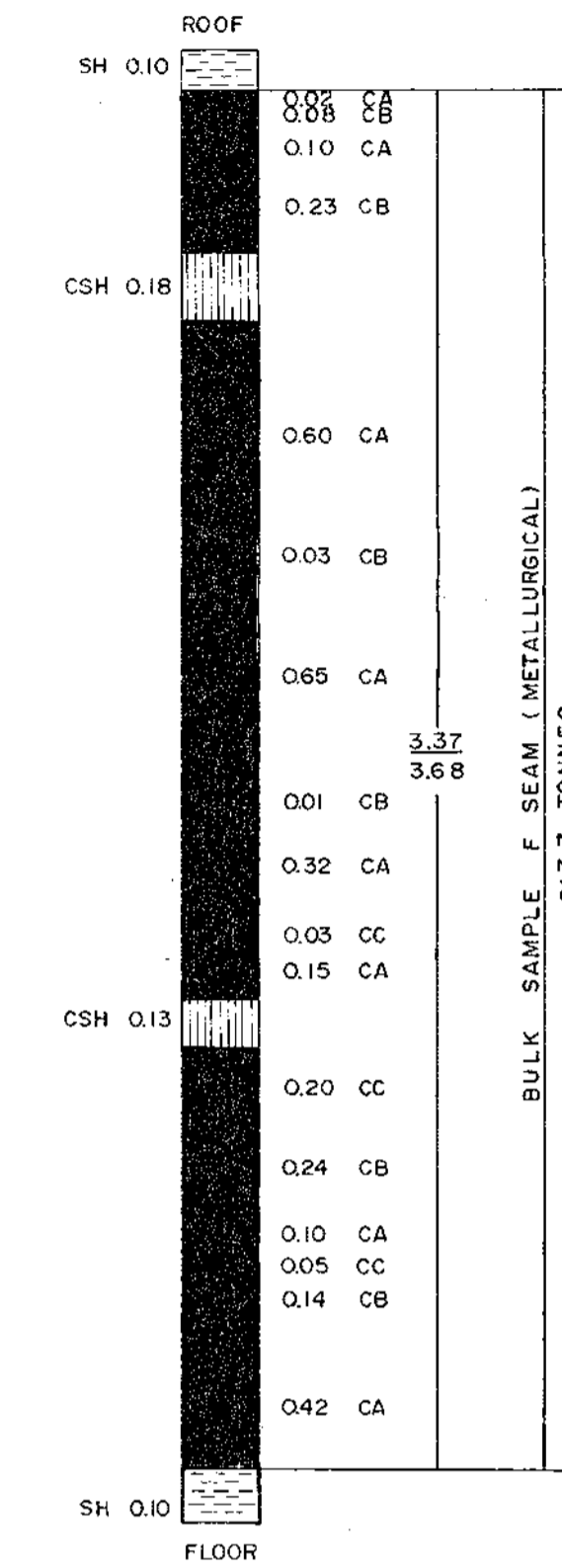
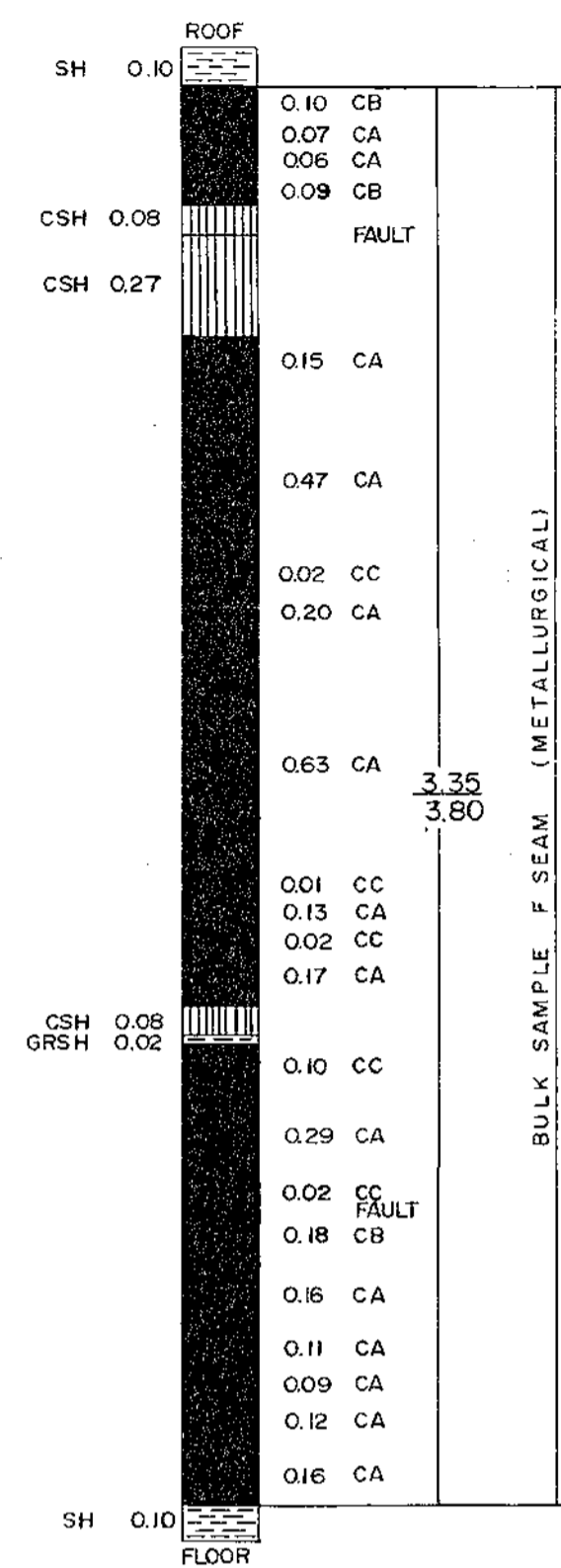
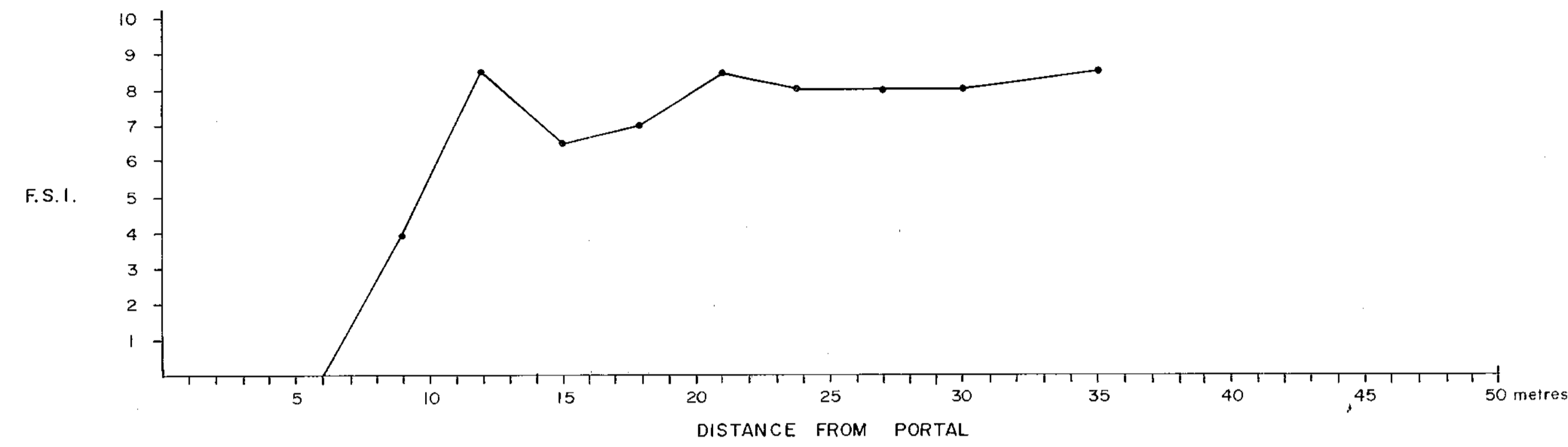




**Appendix T.4.2**  
**Grizzly**

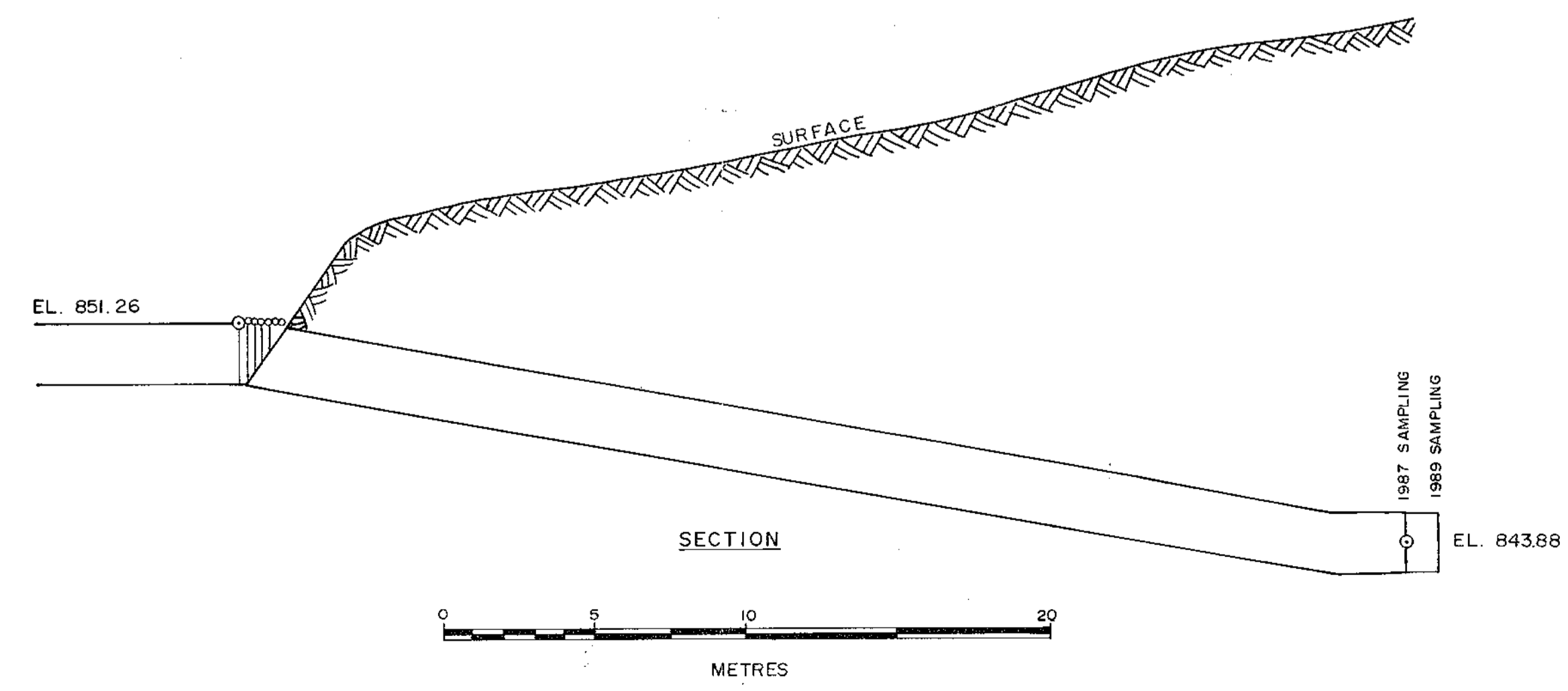
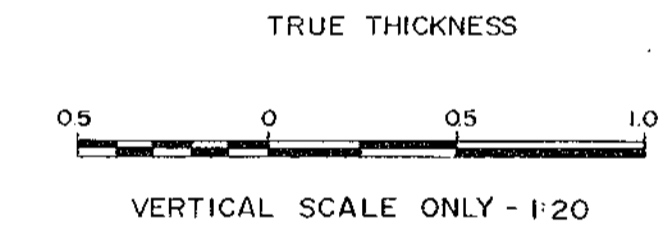
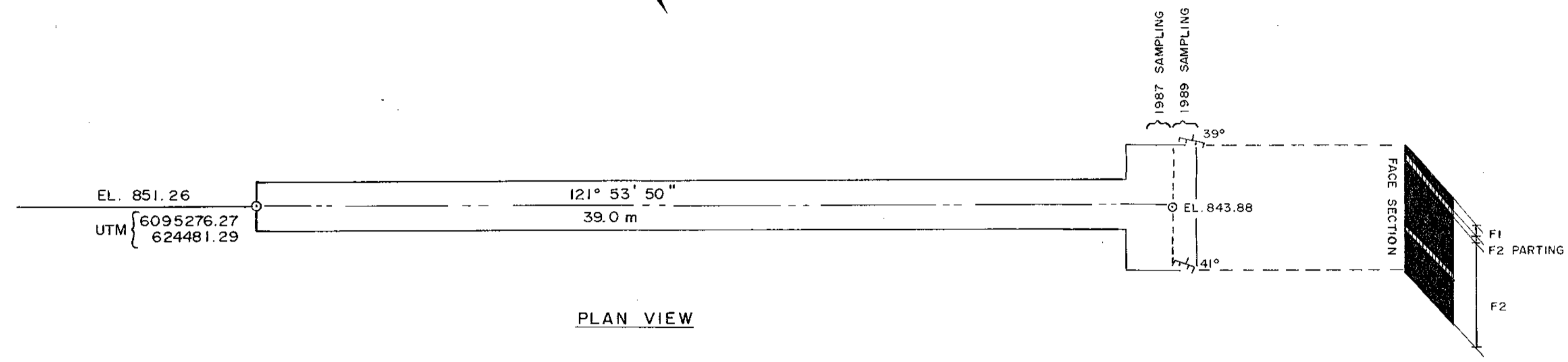
1987 SAMPLING

1989 SAMPLING



LEGEND

- SHALE
- SANDY SHALE (SILTSTONE)
- COALY SHALE
- GREY SHALE
- DARK SHALE
- DARK GREY SHALE
- CA COAL 0-10% ASH
- CB COAL 11-20% ASH
- CC COAL 21-30% ASH
- CD COAL 30% ASH
- TOPOGRAPHY



| Rev. | D. | M. | Y. | Revision       | Description | Drn. | Des. | App. |
|------|----|----|----|----------------|-------------|------|------|------|
| 1    | 12 | 10 | 89 | 1989 SAMPLING  |             | DKL  | NH   | DJ   |
| 0    | 16 | 02 | 88 | ORIGINAL DRAFT |             | DKL  | NH   | DJ   |

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**DENISON MINES LIMITED**  
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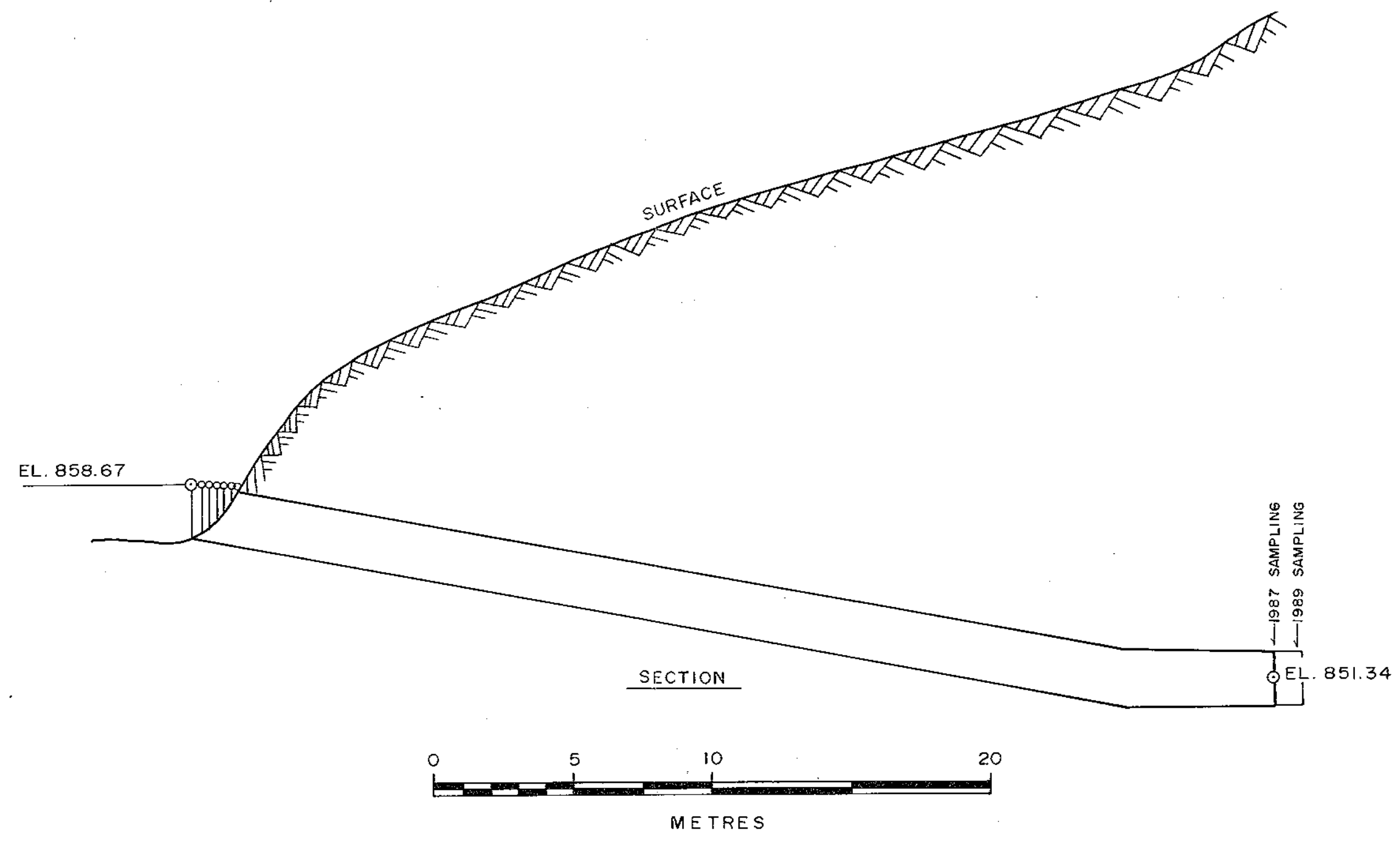
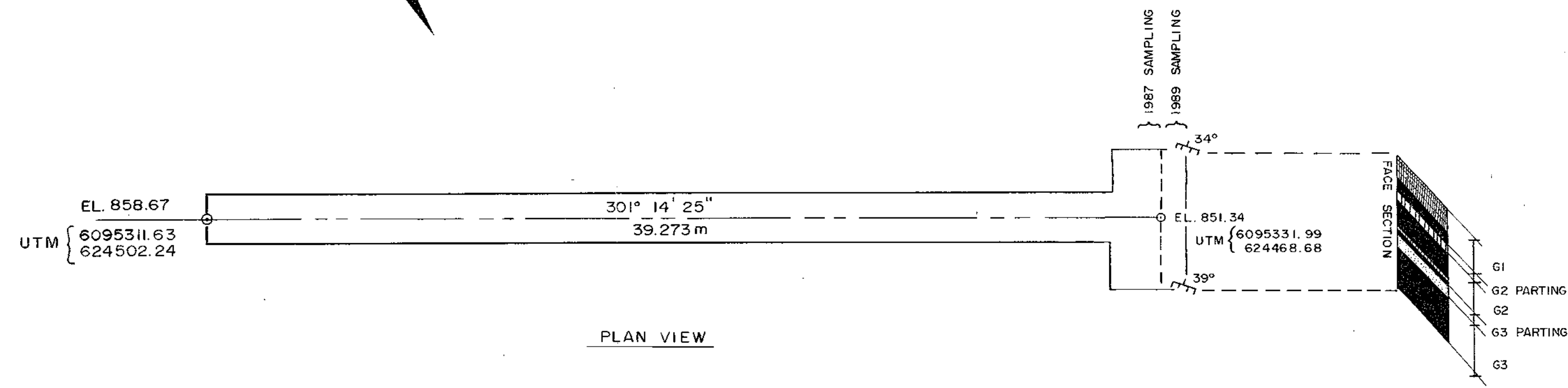
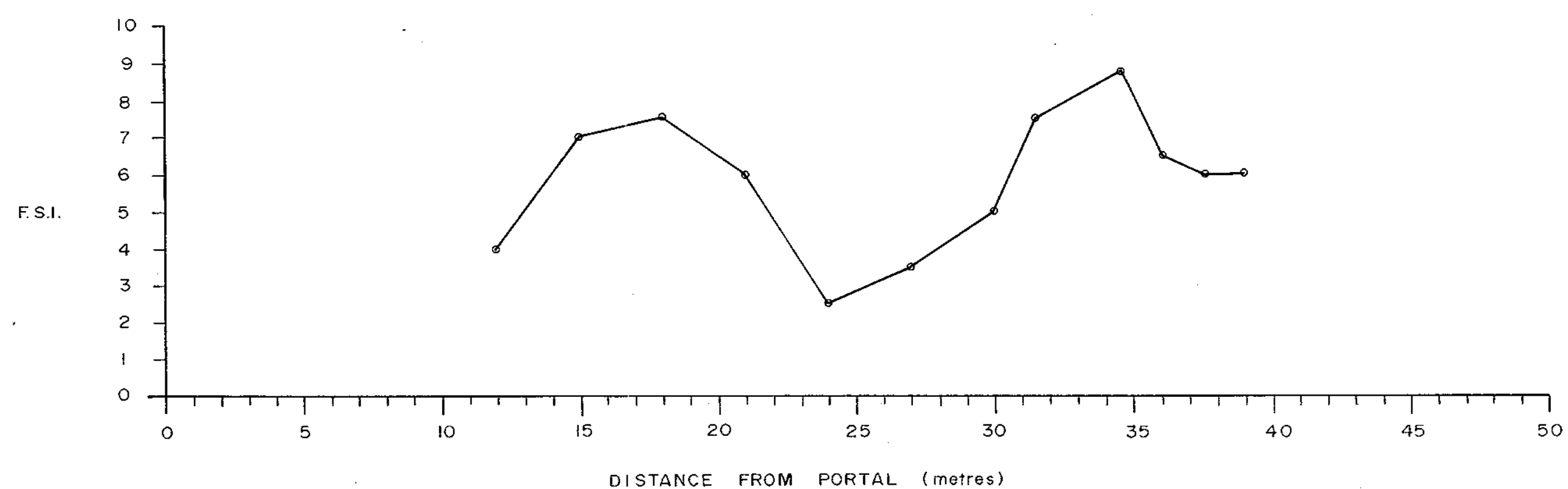
Area GRIZZLY Category ADITS

Drawing Title  
**GRIZZLY  
 ADIT QHA 8703  
 F SEAM**

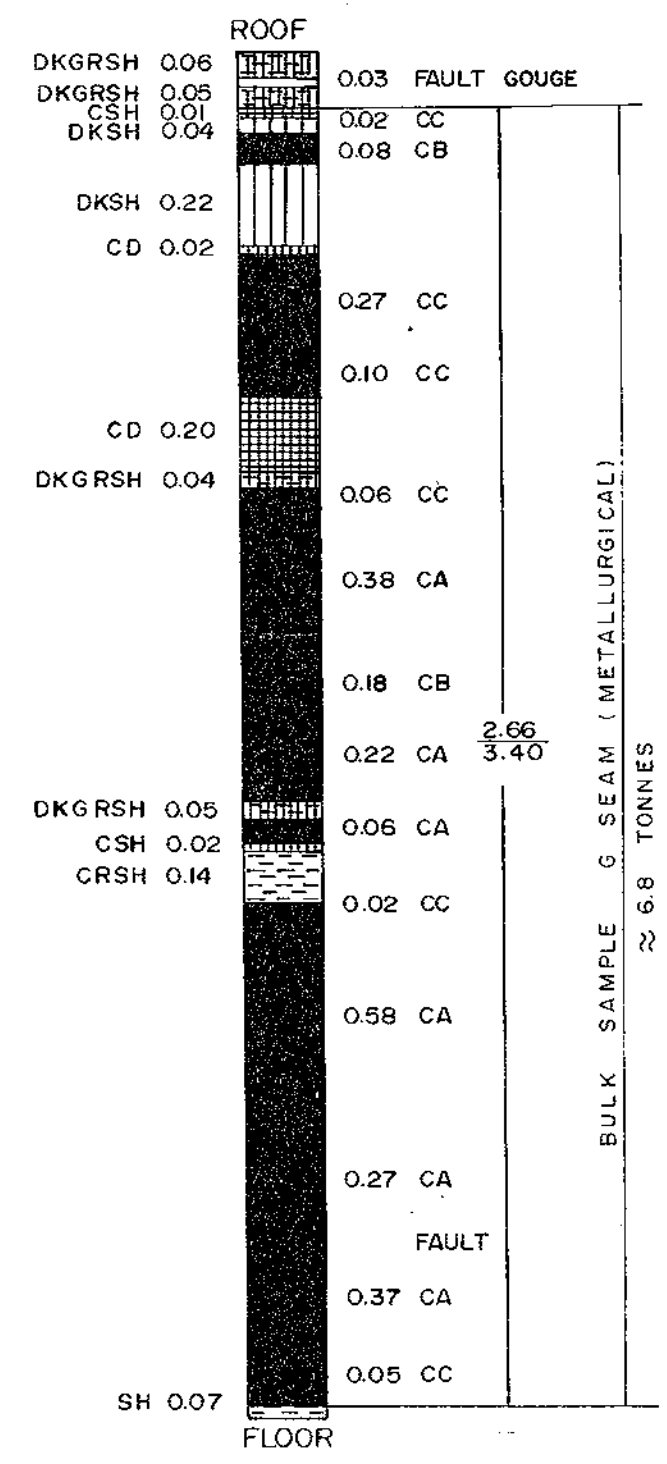
Scale AS SHOWN Drawing No. 89-905-25-003 Rev. 1

753

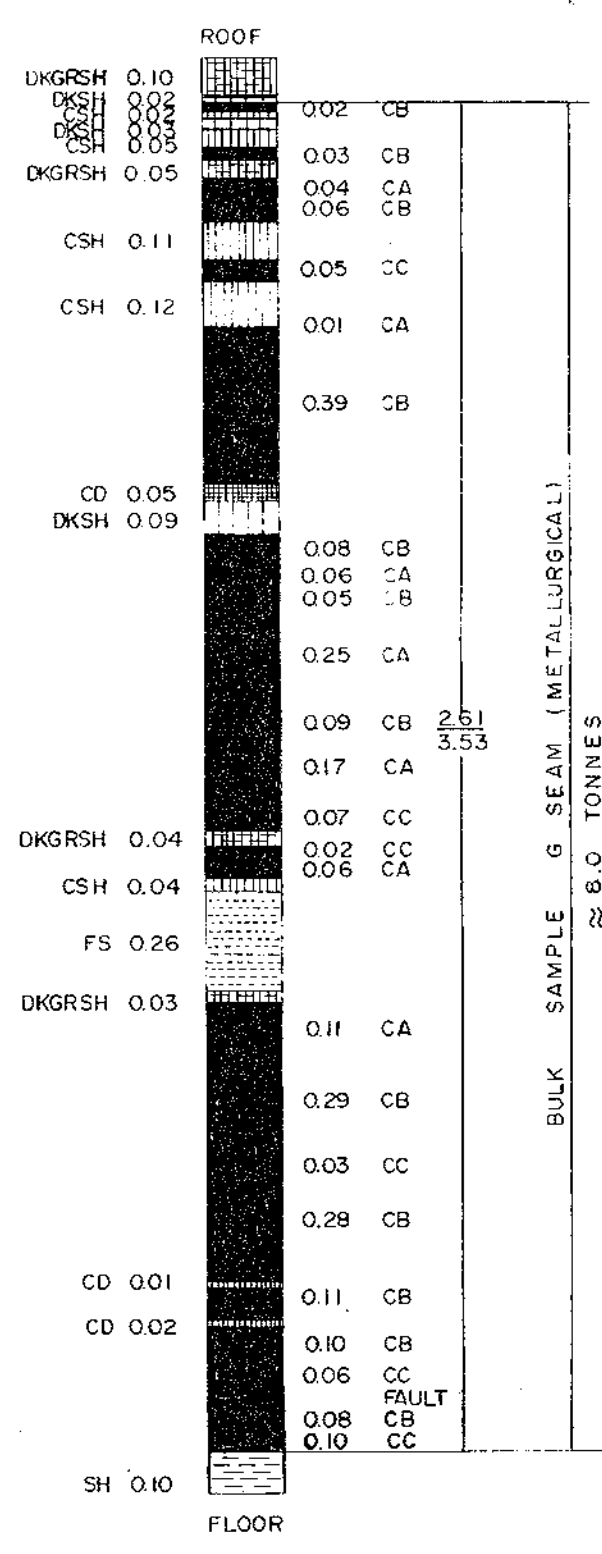




1987 SAMPLING

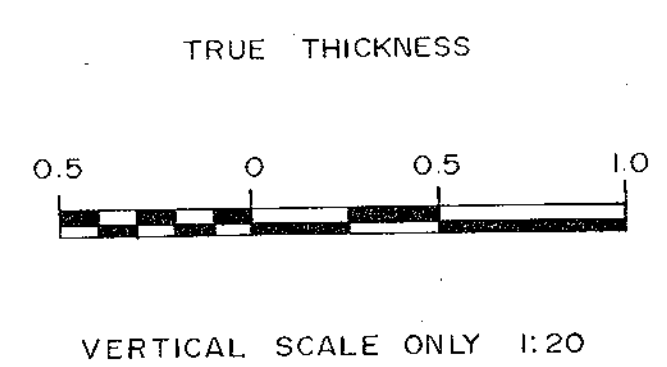


1989 SAMPLING



LEGEND

- SHALE
- SANDY SHALE (SILTSTONE)
- COALY SHALE
- GREY SHALE
- DARK SHALE
- DARK GREY SHALE
- CA COAL 0-10% ASH
- CB COAL 11-20% ASH
- CC COAL 21-30% ASH
- CD COAL 30% ASH
- TOPOGRAPHY



| Rev. | D  | M  | Y  | Revision       | Description | Drn. | Des. | App. |
|------|----|----|----|----------------|-------------|------|------|------|
| 1    | 12 | 10 | 89 | 1989 SAMPLING  |             | DKL  | NH   | DJ   |
| 0    | 16 | 02 | 88 | ORIGINAL DRAFT |             | RLR  | NH   | DJ   |

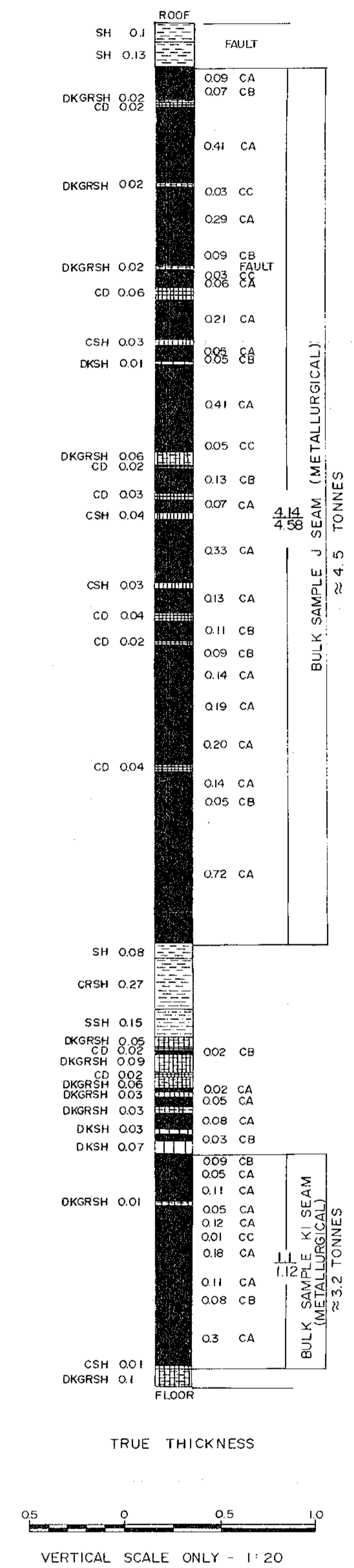
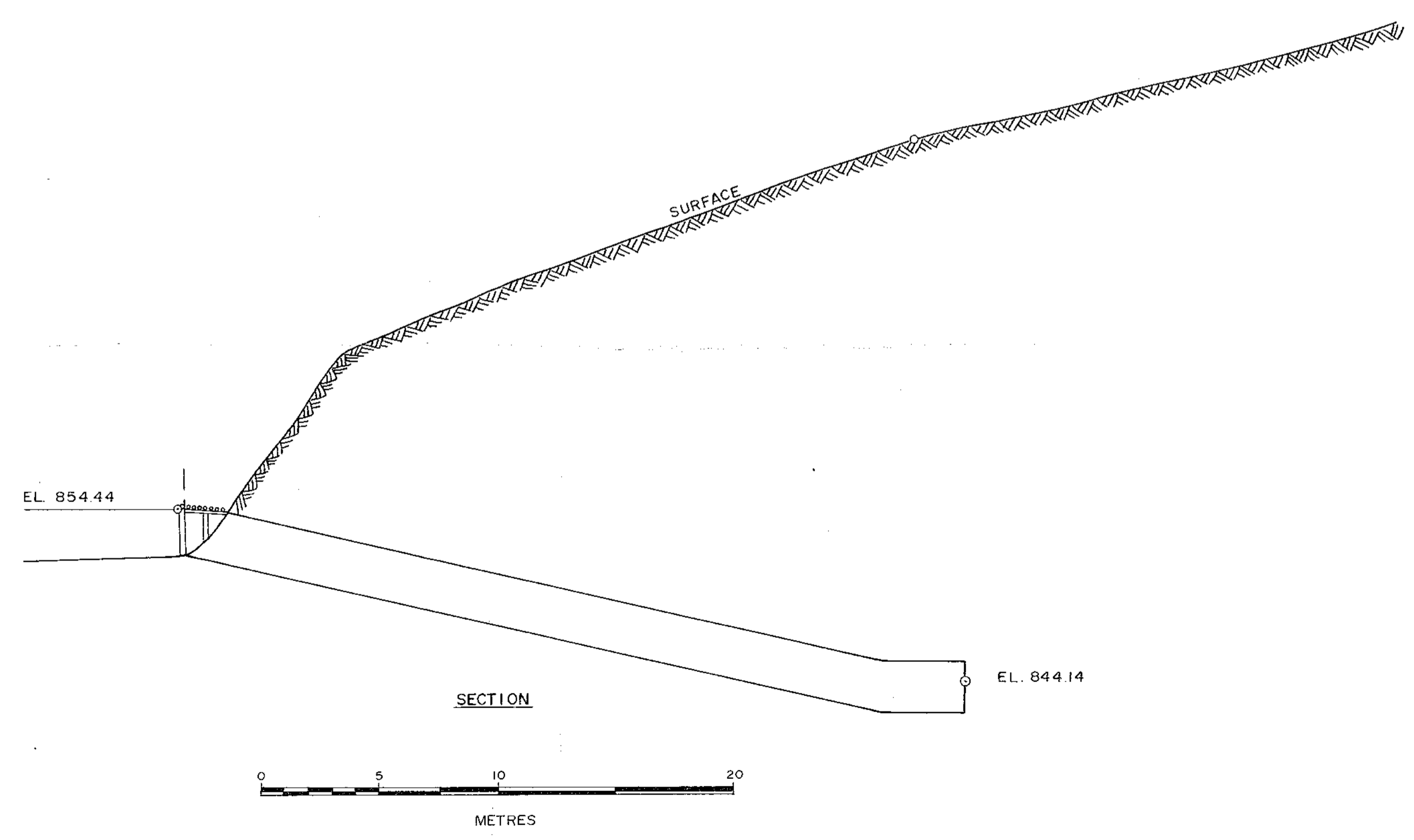
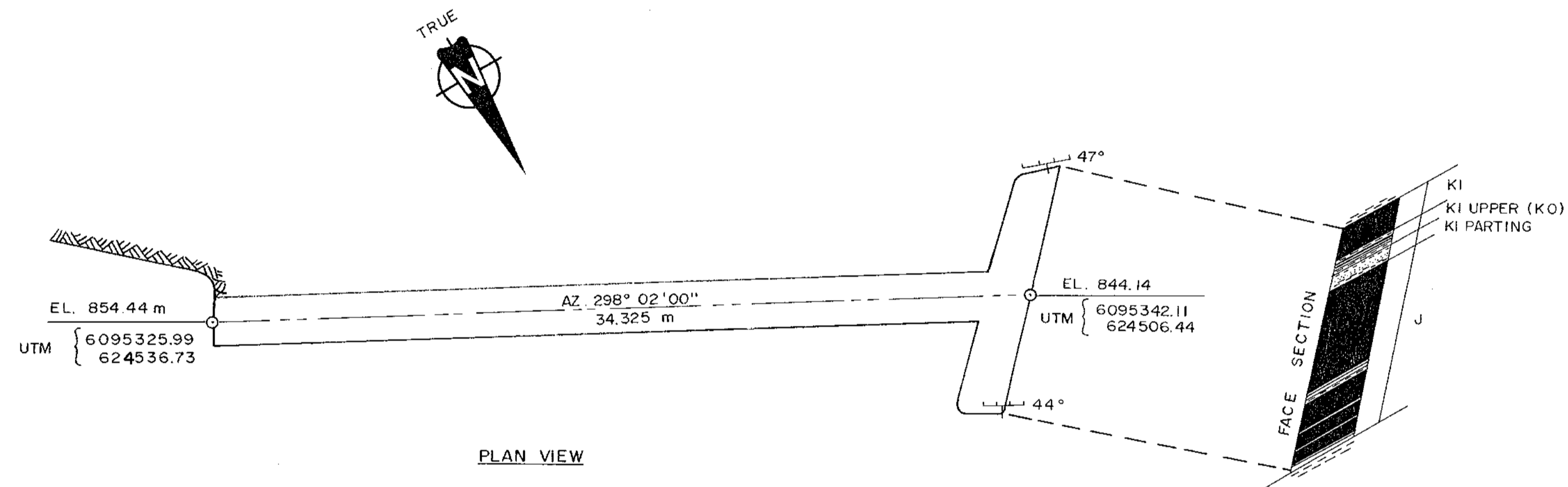
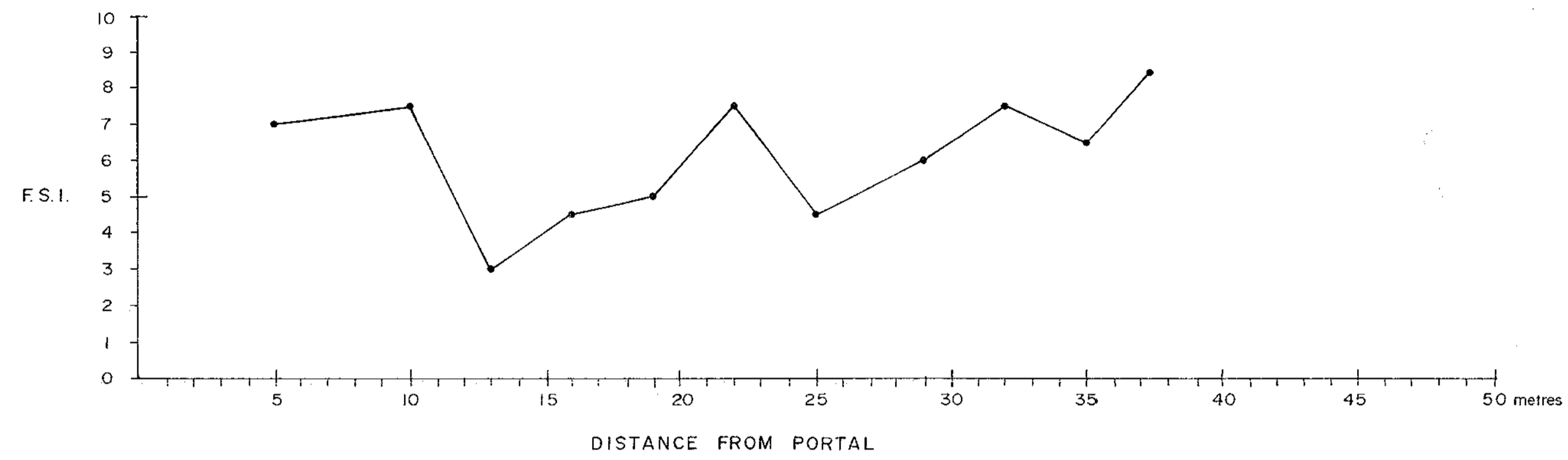
**QUINTETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area **GRIZZLY** Category **ADITS**

Drawing Title  
**GRIZZLY ADIT QHA 8702 G SEAM**

Scale **AS SHOWN** Drawing No. **89-905-25-002** Rev. **1**

753



- LEGEND**
- SHALE
  - SANDY SHALE (SILTSTONE)
  - COALY SHALE
  - GREY SHALE
  - DARK SHALE
  - DARK GREY SHALE
  - CA COAL 0-10% ASH
  - CB COAL 11-20% ASH
  - CC COAL 21-30% ASH
  - CD COAL 30% ASH
  - TOPOGRAPHY

| Rev. | D  | M  | Y  | Revision       | Description | Drn. | Des. | App. |
|------|----|----|----|----------------|-------------|------|------|------|
| 0    | 16 | 02 | 88 | ORIGINAL DRAFT |             | DKL  | NH   | DJ   |

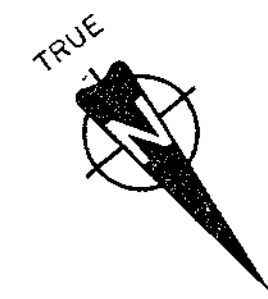
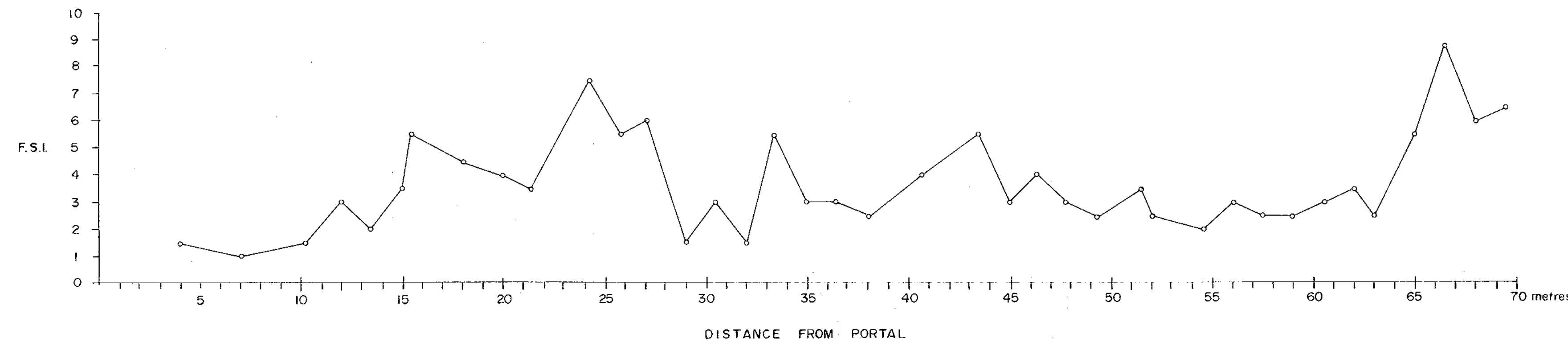
**QUINETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area **GRIZZLY** Category **ADITS**

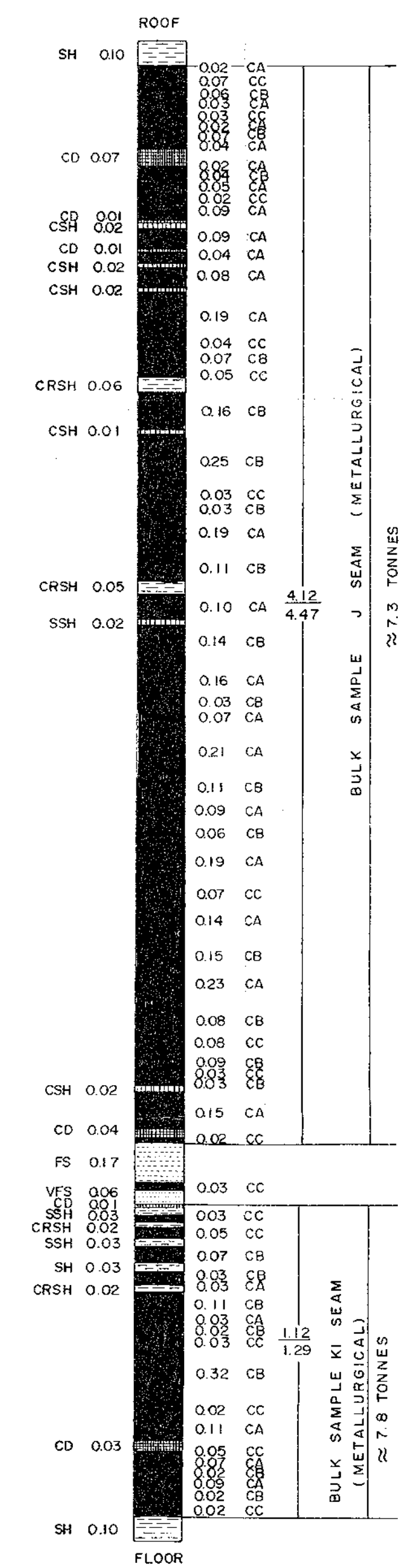
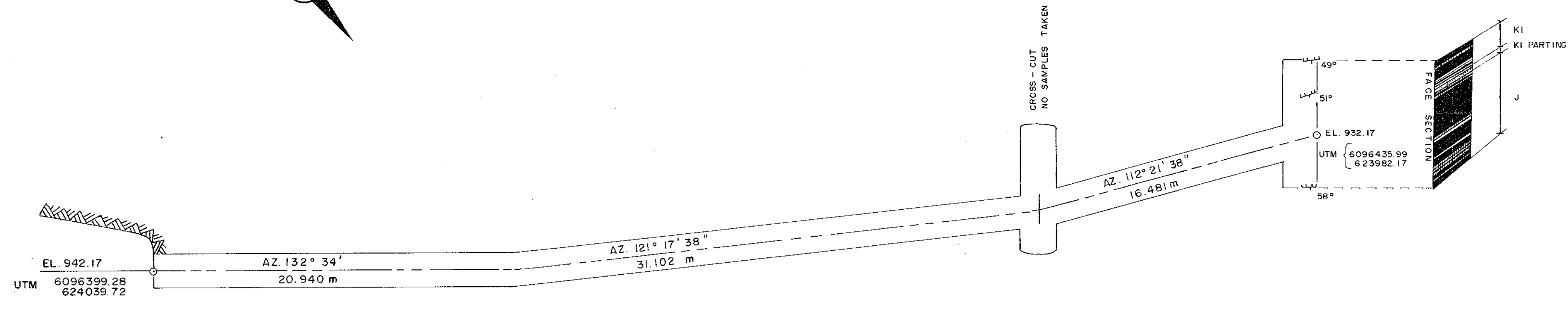
Drawing Title  
**GRIZZLY**  
**ADIT QHA 870I**  
**J AND KI SEAMS**

|                   |                                    |           |
|-------------------|------------------------------------|-----------|
| Scale<br>AS SHOWN | Drawing No.<br>88 - 905 - 25 - 001 | Rev.<br>0 |
|-------------------|------------------------------------|-----------|

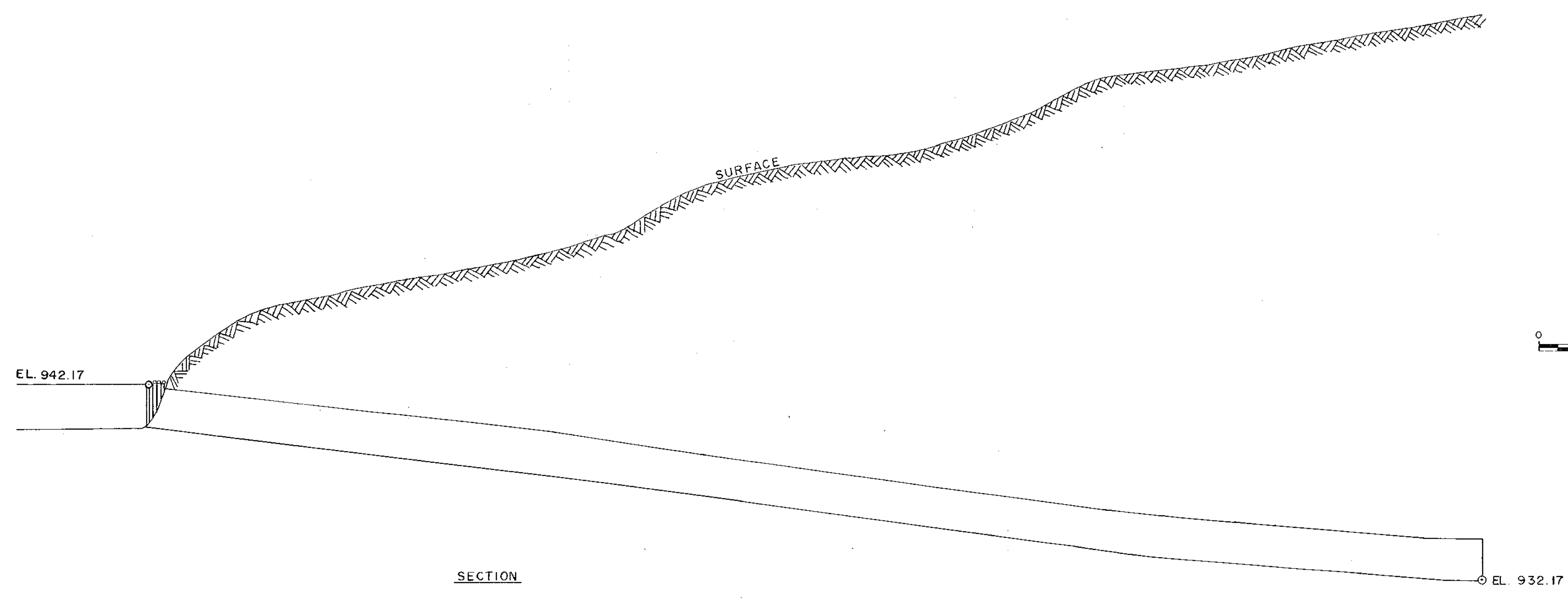
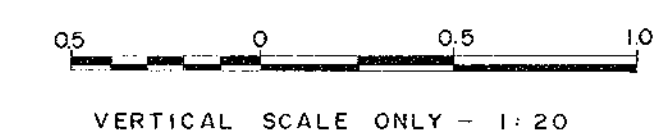
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PLAN VIEW



- LEGEND**
- SHALE
  - SANDY SHALE (SILTSTONE)
  - COALY SHALE
  - GREY SHALE
  - DARK SHALE
  - DARK GREY SHALE
  - CA COAL 0-10% ASH
  - CB COAL 11-20% ASH
  - CC COAL 21-30% ASH
  - CD COAL 30% ASH
  - TOPOGRAPHY



SECTION

|  |  |  |  |  |  |  |  |  |  |
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|------|----------|----------------------|------|------|------|
| 0    | 12 10 99 | ORIGINAL DRAFT       | DKL  | NH   | DJ   |
| Rev. | D. M. Y. | Revision Description | Drn. | Des. | App. |

**QUINETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area **GRIZZLY** Category **ADITS**

Drawing Title  
**GRIZZLY**  
**ADIT QHA 8901**  
**J AND KI SEAMS**

|          |               |      |
|----------|---------------|------|
| Scale    | Drawing No.   | Rev. |
| AS SHOWN | 89-905-25-001 | 0    |

753

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OPEN FILE

~~CONFIDENTIAL~~

QUINETTE COAL LIMITED  
1989 GEOLOGICAL REPORT  
TRANSFER, GRIZZLY AND MESA  
NORTH EXTENSION AREAS  
APRIL, 1990  
APPENDIX 1

Prepared by Technical Services Department  
Quintette Coal Limited

753

**1989 GEOLOGICAL REPORT  
TRANSFER, GRIZZLY AND MESA NORTH EXTENSION AREAS**

**INDEX - APPENDIX 1**

**DESCRIPTION**

**DRAWING NUMBERS**

**1.1 Cross Sections**

**1.1.1 Transfer (500 m Intervals)**

|         |       |                        |
|---------|-------|------------------------|
| Section | 27000 | 88-903-21-001 (Rev. 2) |
| Section | 27500 | 88-903-21-002 (Rev. 2) |
| Section | 28000 | 88-903-21-003 (Rev. 2) |
| Section | 28500 | 88-903-21-004 (Rev. 2) |
| Section | 29000 | 88-903-21-005 (Rev. 2) |
| Section | 29500 | 88-903-21-006 (Rev. 1) |
| Section | 30000 | 88-903-21-007 (Rev. 1) |
| Section | 30500 | 88-903-21-008 (Rev. 1) |
| Section | 31000 | 89-903-21-001 (Rev. 0) |

**1.1.2 Grizzly - 500 m Intervals**

|         |       |                        |
|---------|-------|------------------------|
| Section | 25500 | 89-905-21-001 (Rev. 0) |
| Section | 26000 | 88-905-21-001 (Rev. 2) |
| Section | 26500 | 88-905-21-002 (Rev. 2) |
| Section | 27000 | 88-905-21-003 (Rev. 0) |
| Section | 27500 | 88-905-21-004 (Rev. 0) |
| Section | 28000 | 88-905-21-005 (Rev. 0) |

**1.1.3 Mesa North Extension - 400 m Intervals**

|         |       |                        |
|---------|-------|------------------------|
| Section | 37400 | 90-106-21-001 (Rev. 0) |
| Section | 37800 | 90-106-21-002 (Rev. 0) |
| Section | 38200 | 90-106-21-003 (Rev. 0) |
| Section | 38600 | 90-106-21-004 (Rev. 0) |
| Section | 39000 | 90-106-21-005 (Rev. 0) |
| Section | 39400 | 90-106-21-006 (Rev. 0) |

**1.2 Geology Maps**

**1.2.1 Transfer (3 sheets)**

|                        |
|------------------------|
| 88-903-20-001 (Rev. 2) |
| 88-903-20-002 (Rev. 3) |
| 88-903-20-003 (Rev. 2) |

**1.2.2 Grizzly**

|                        |
|------------------------|
| 88-905-20-001 (Rev. 3) |
|------------------------|

**1.2.3 Mesa North Extension**

|                        |
|------------------------|
| 90-106-20-001 (Rev. 0) |
|------------------------|

**1.2.4 Regional Geology**

|                        |
|------------------------|
| 77-002-20-005 (Rev. 0) |
|------------------------|

1989 GEOLOGICAL REPORT  
TRANSFER, GRIZZLY AND MESA NORTH EXTENSION AREAS

INDEX - APPENDIX 1

DESCRIPTION

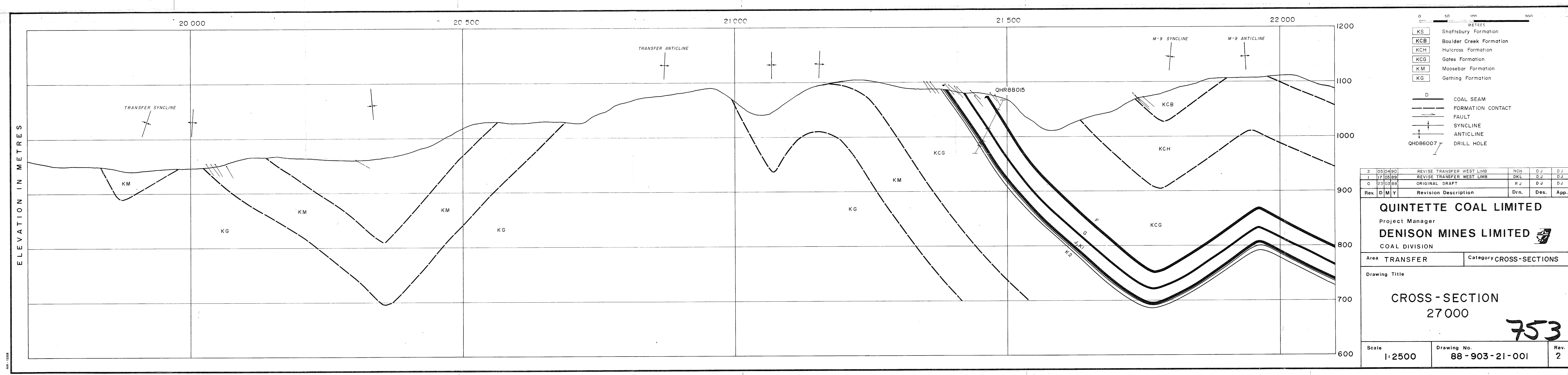
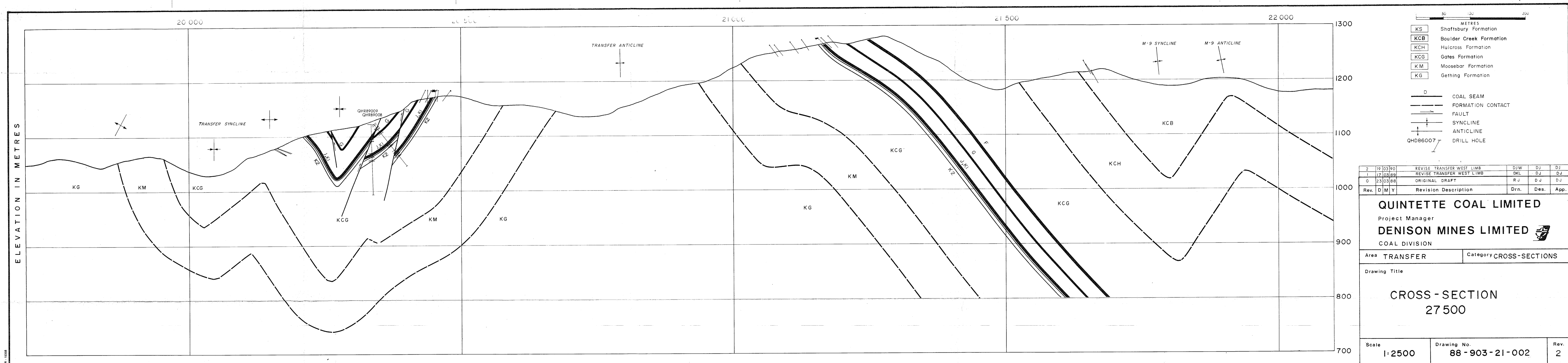
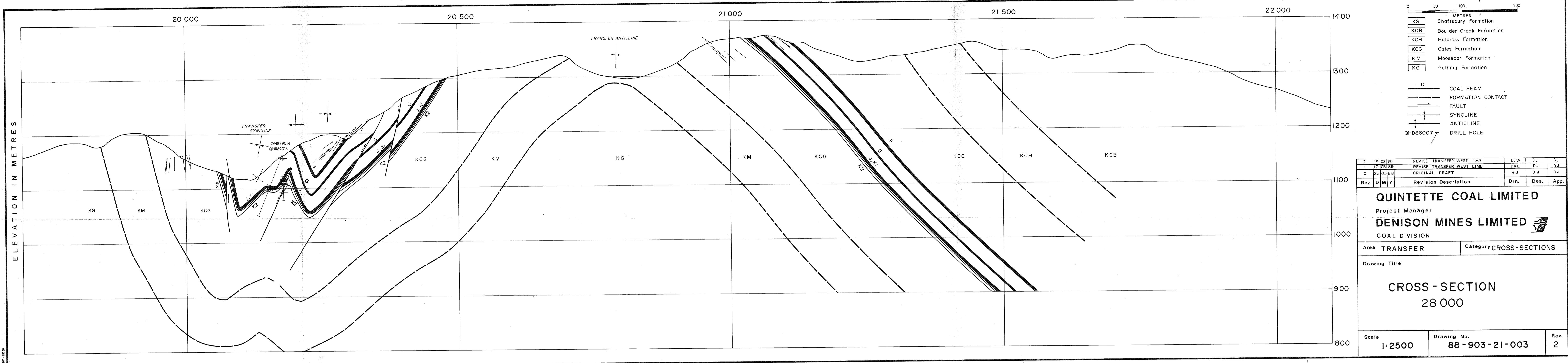
DRAWING NUMBERS

|       |  |  |
|-------|--|--|
| 1.3   | Structure Contours                         |  |
| 1.3.1 | Transfer (Top of J seam)<br>-3 sheets      | 89-903-22-001 (Rev. 1)<br>89-903-22-002 (Rev. 1)<br>89-903-22-003 (Rev. 1) |
| 1.3.2 | Grizzly (Top of J seam)                    | 89-905-22-001 (Rev. 0)   |
| 1.3.3 | Mesa North Extension<br>(Bottom of J seam) | 90-106-22-001 (Rev. 0)   |

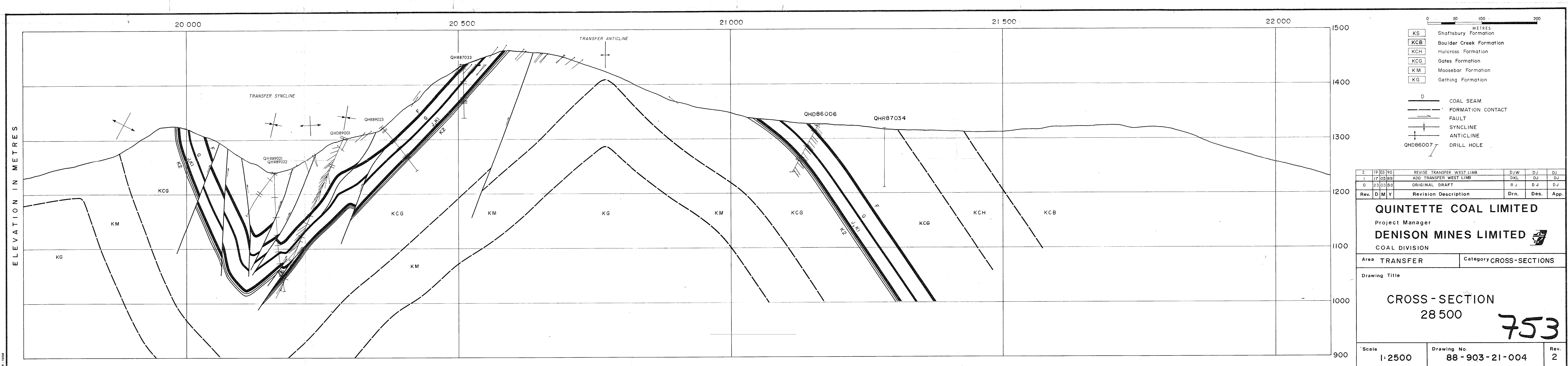
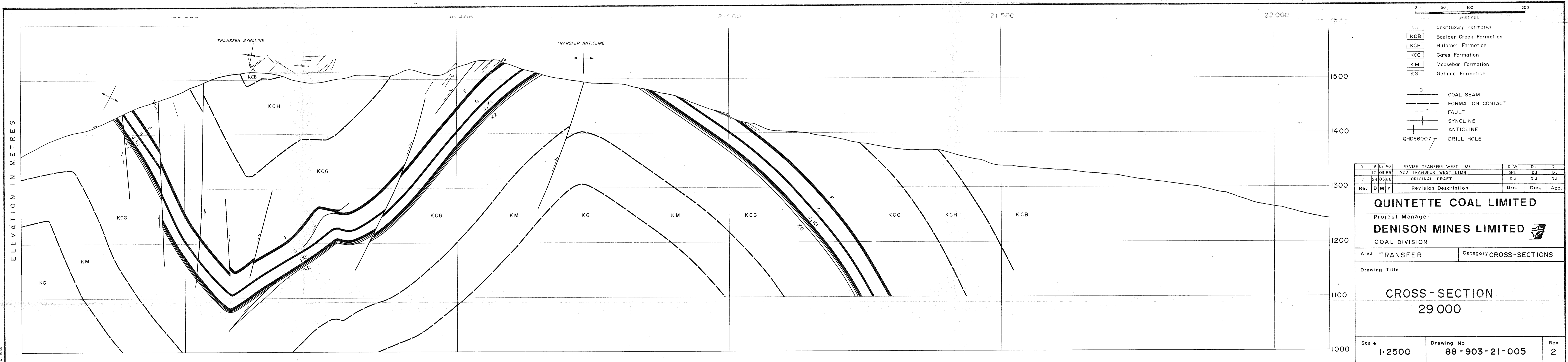
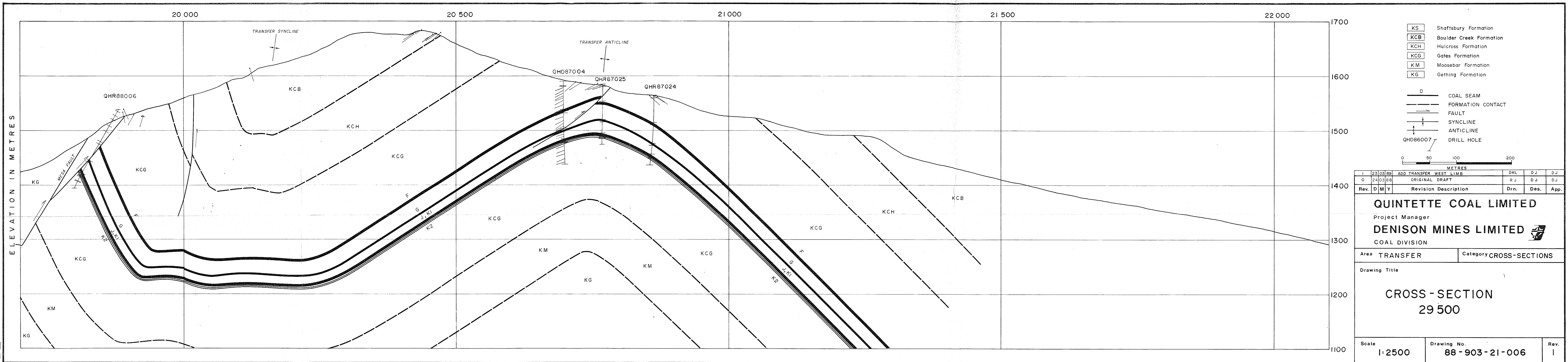
**Appendix 1.1**  
**1989 Geological Report**  
**Cross Sections**

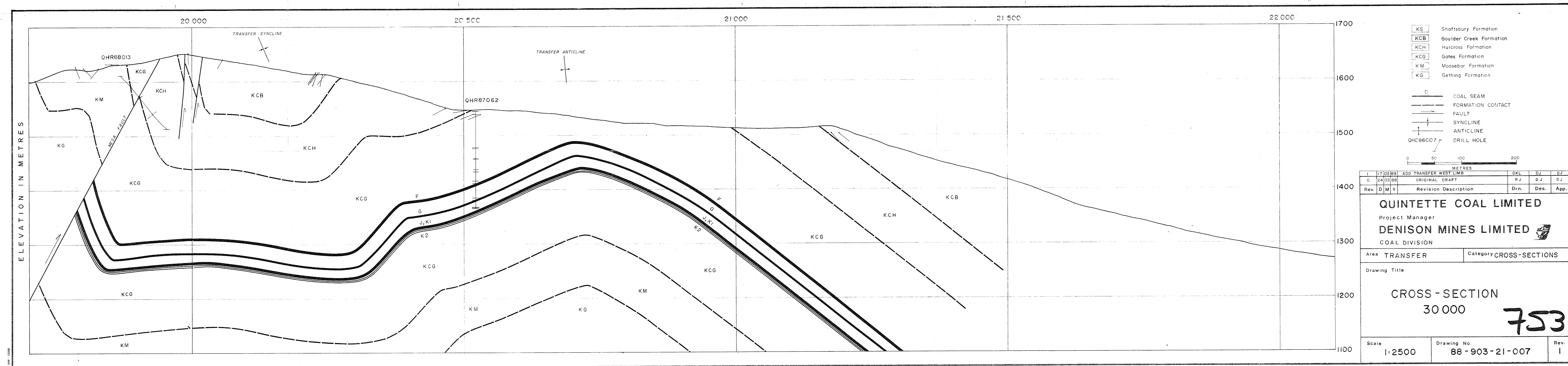
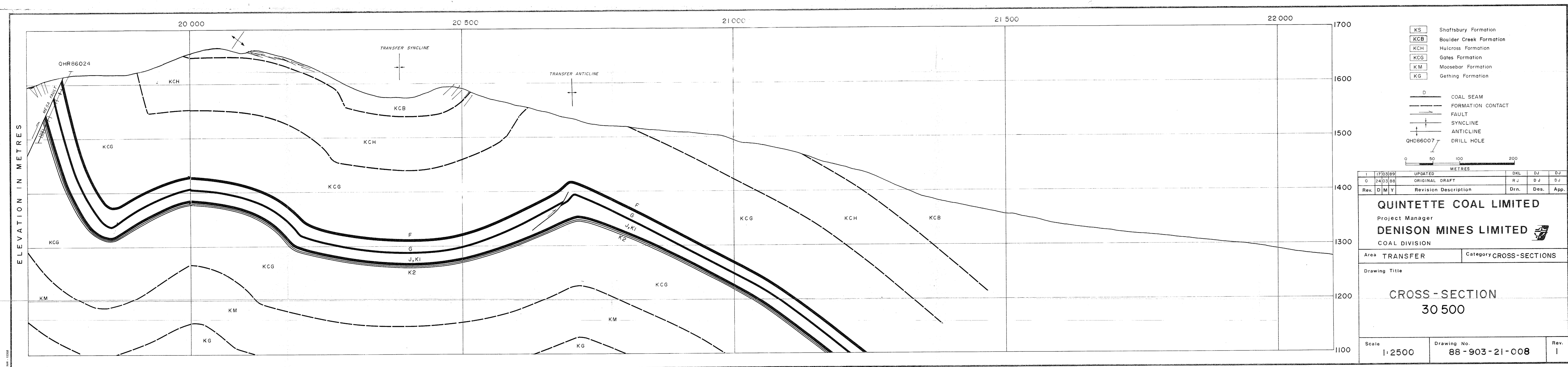
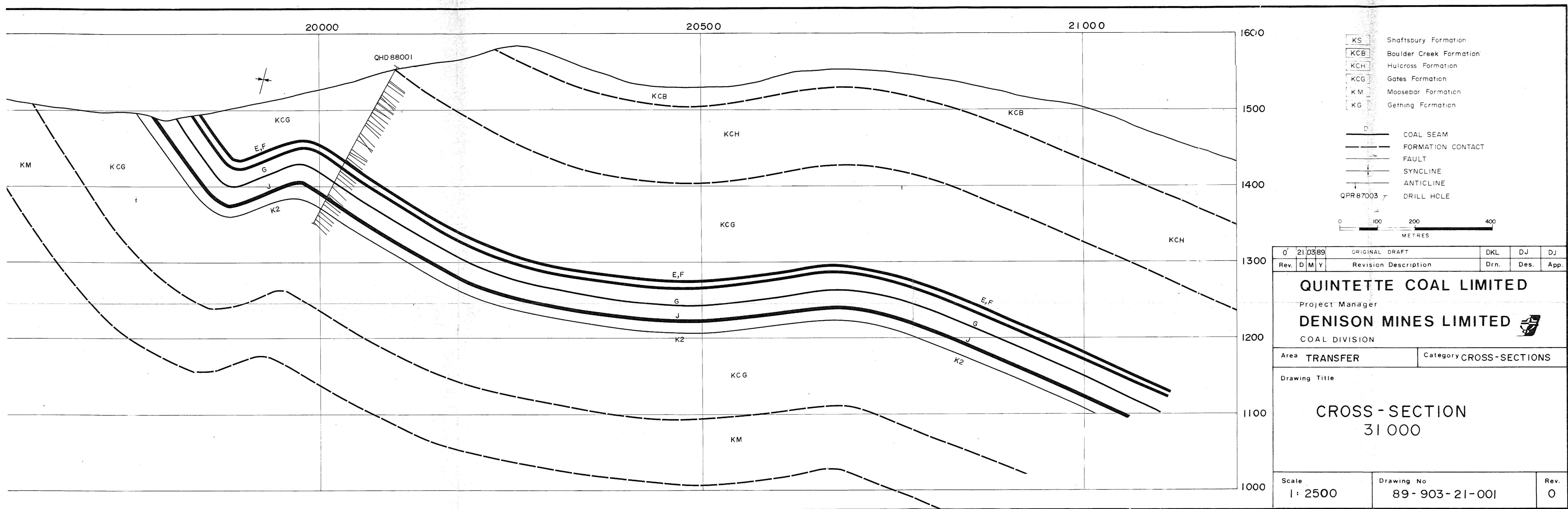
**Appendix 1.1.1**  
**Transfer (500 m Intervals)**  
**Sections 27000 - 31000**



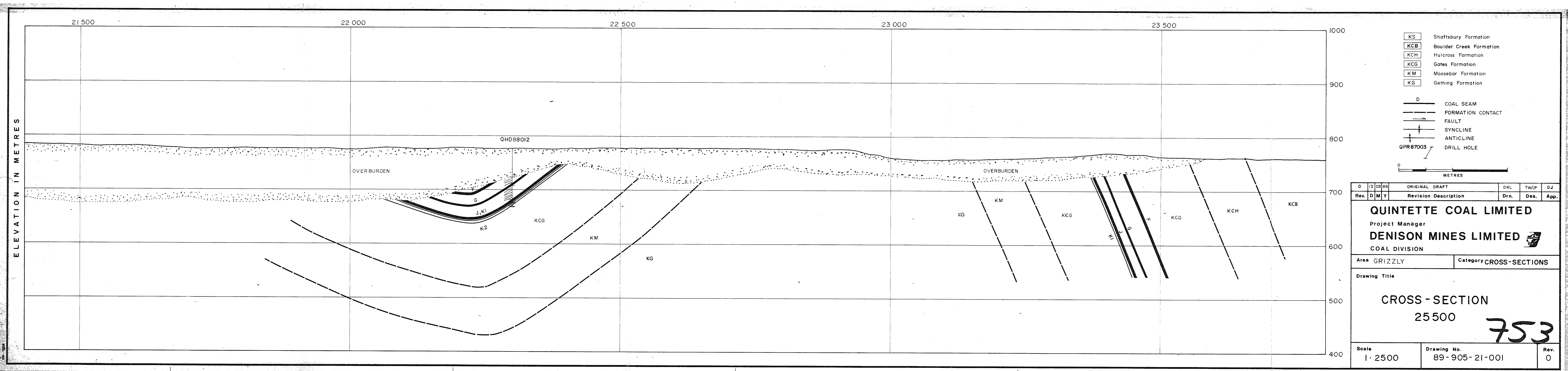
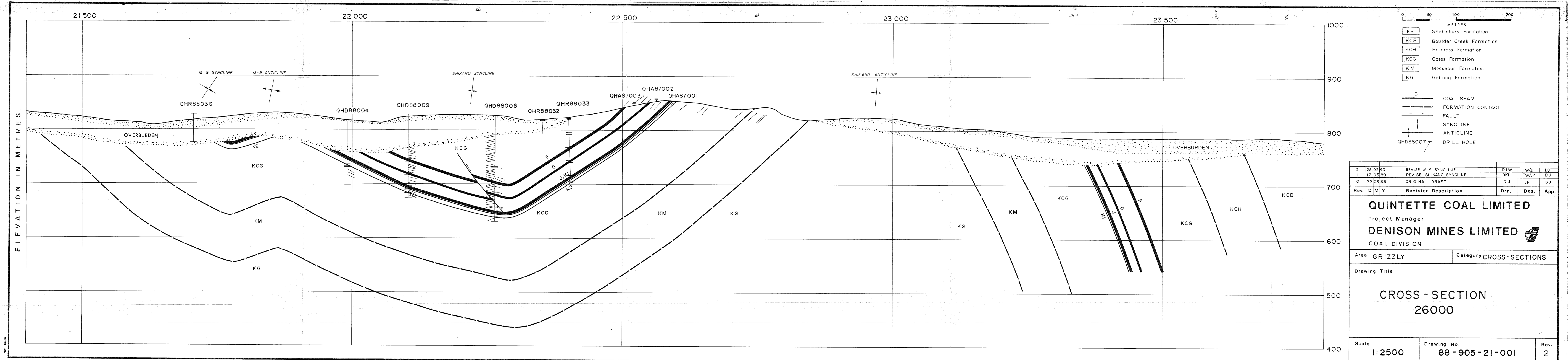
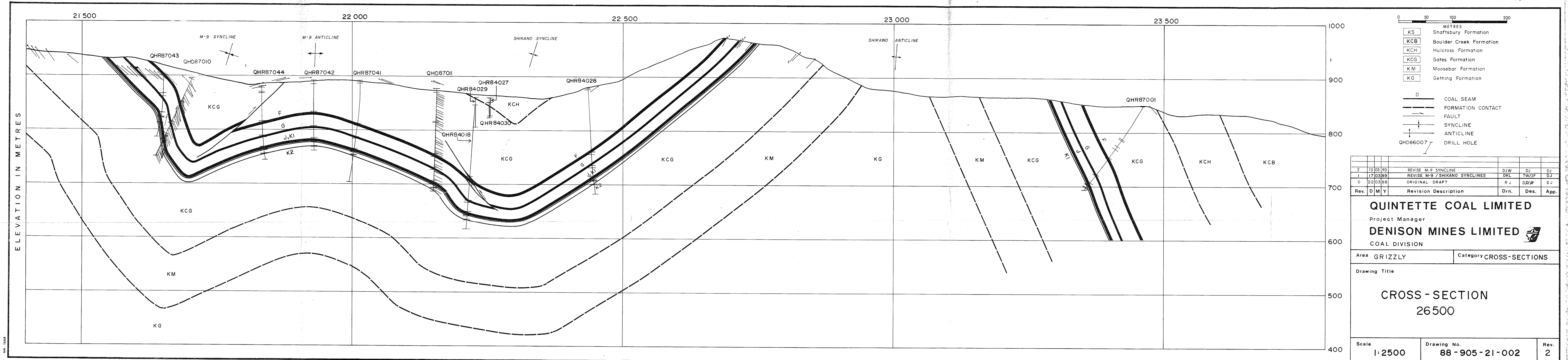


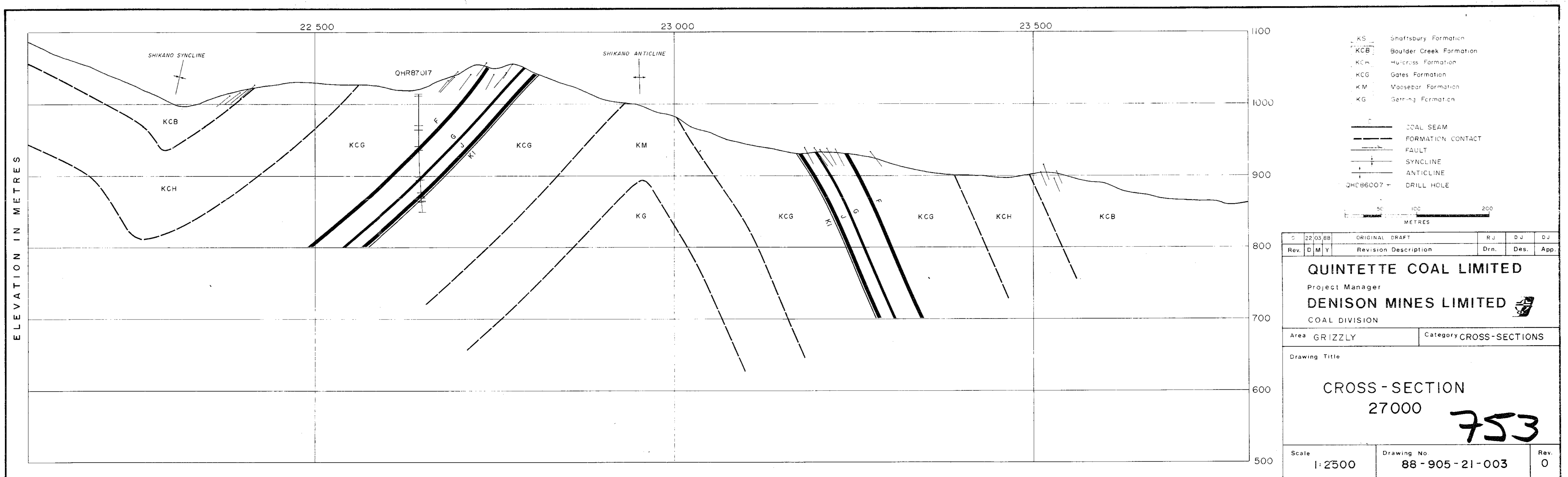
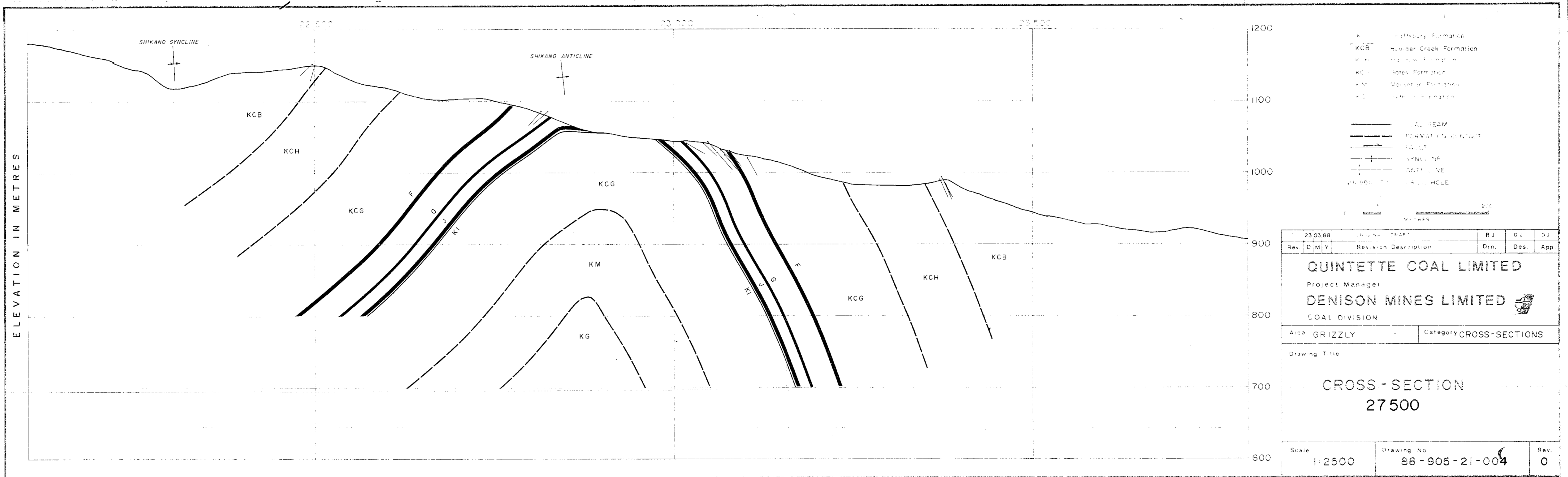
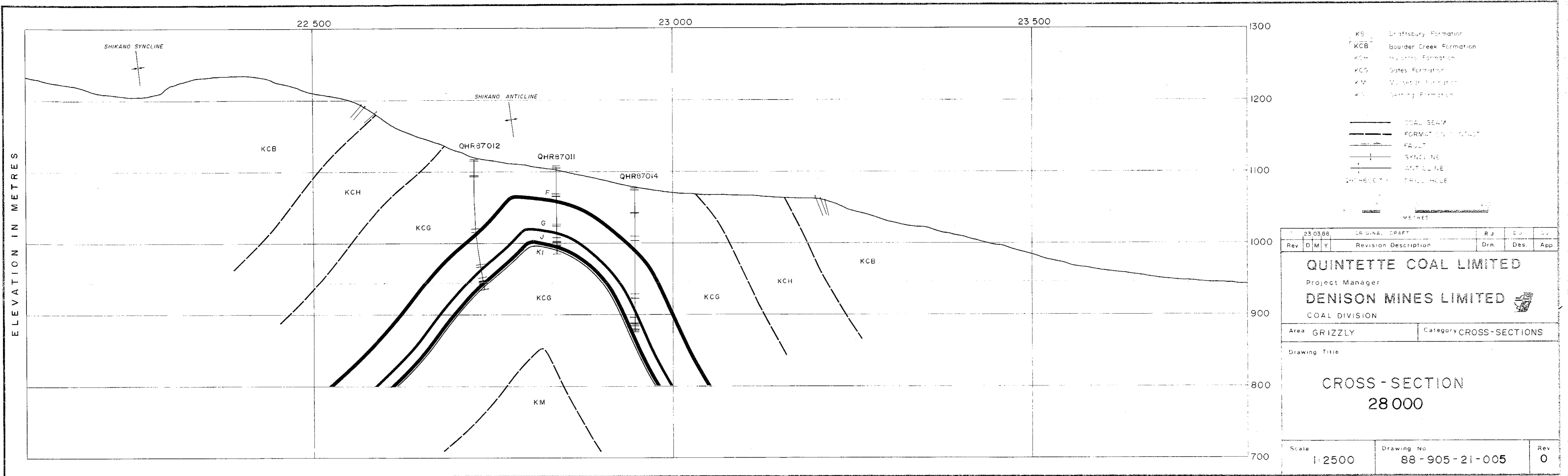
753



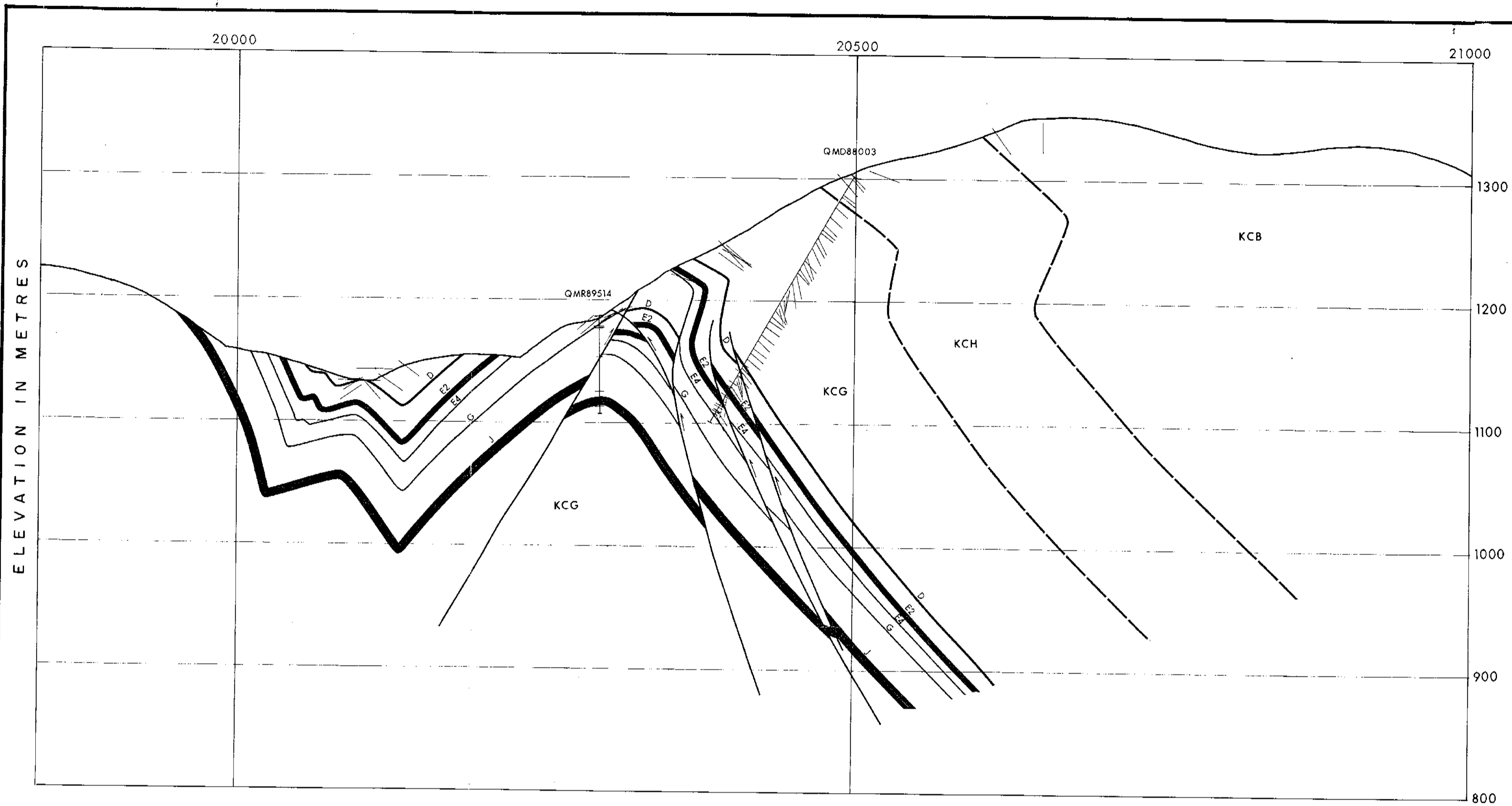


**Appendix 1.1.2**  
**Grizzly (500 m Intervals)**  
**Sections 25500 - 28000**





**Appendix 1.1.3**  
**Mesa North Extension**  
**(400m Intervals)**  
**Sections 37400 - 39400**



|     |                         |
|-----|-------------------------|
| KS  | Shaftsbury Formation    |
| KCB | Boulder Creek Formation |
| KCH | Hulcross Formation      |
| KCG | Gates Formation         |
| KM  | Moosebar Formation      |
| KG  | Gething Formation       |

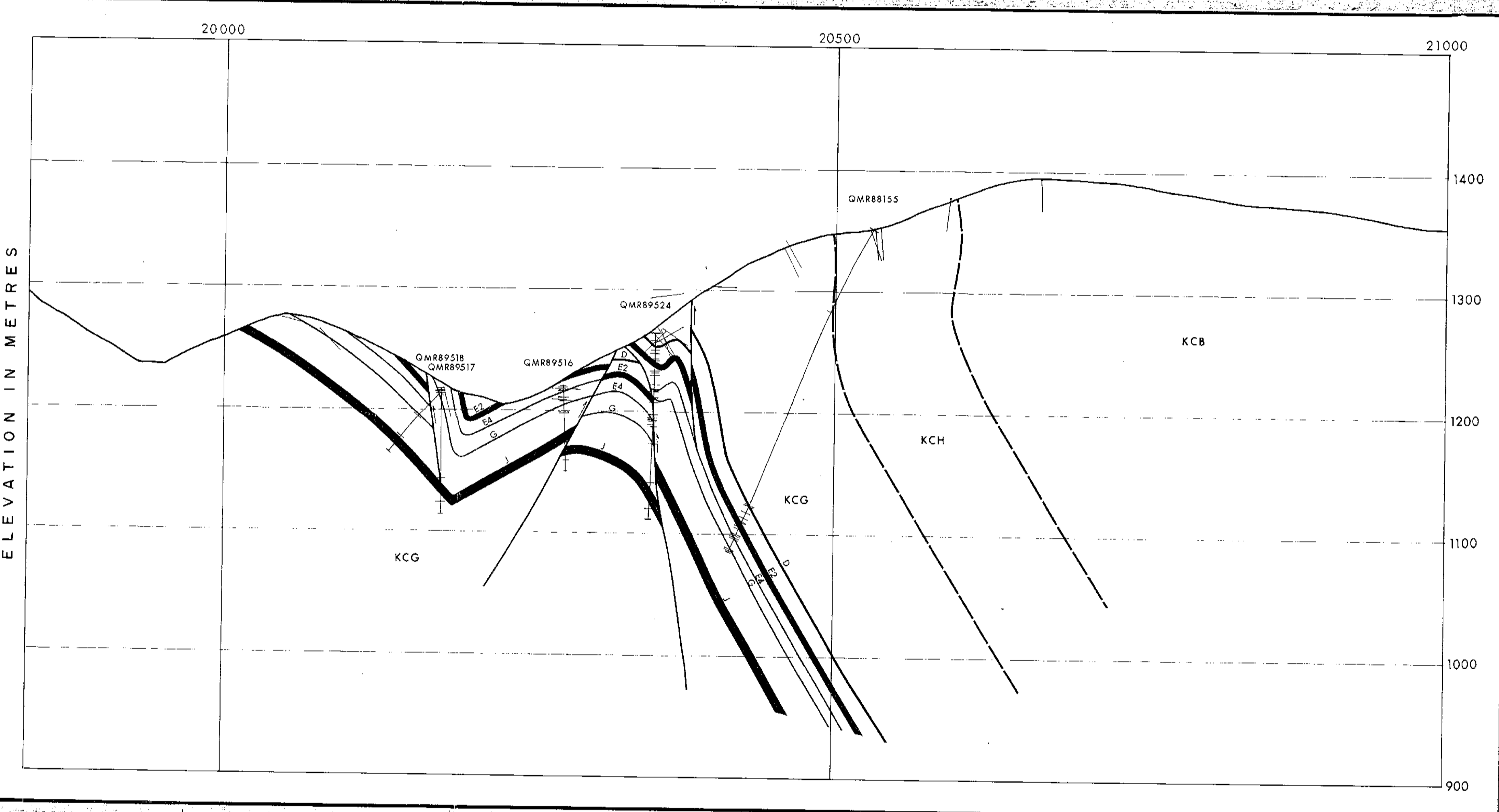
  

|       |                   |
|-------|-------------------|
| D     | COAL SEAM         |
| ---   | FORMATION CONTACT |
| - - - | FAULT             |
| ~     | SYNCLINE          |
| ^     | ANTICLINE         |
| +     | DRILL HOLE        |

QPR87003

0 50 100 200 METRES

| 0   | 28 | 03                        | 90 | ORIGINAL DRAFT          | DJW    | DJ   | DJ   |
|---|----|---------------------------|----|-------------------------|--------|------|------|
| Rev.  | D  | M                         | Y  | Revision Description    | Drn.   | Des. | App. |
| <b>QUINTETTE COAL LIMITED</b><br>Project Manager<br><b>DENISON MINES LIMITED</b><br>COAL DIVISION |    |                           |    |                         |        |      |      |
| Area MESA NORTH   |    |                           |    | Category CROSS-SECTIONS |        |      |      |
| Drawing Title   |    |                           |    |                         |        |      |      |
| <b>CROSS-SECTION 38200</b><br><b>MESA NORTH EXTENSION</b>   |    |                           |    |                         |        |      |      |
| Scale 1:2500  |    | Drawing No. 90-106-21-003 |    |                         | Rev. 0 |      |      |



|     |                         |
|-----|-------------------------|
| KS  | Shaftsbury Formation    |
| KCB | Boulder Creek Formation |
| KCH | Hulcross Formation      |
| KCG | Gates Formation         |
| KM  | Moosebar Formation      |
| KG  | Gething Formation       |

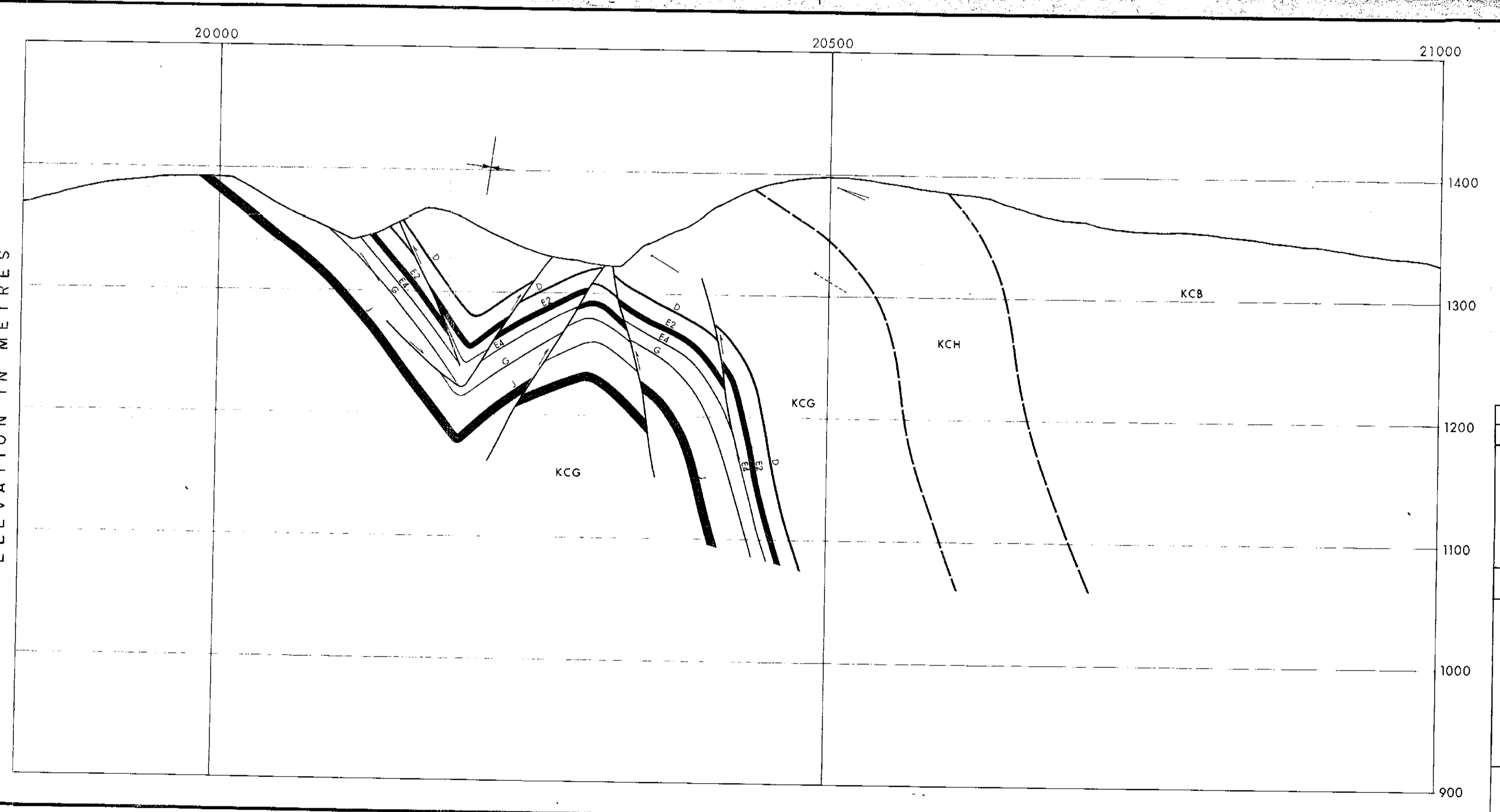
  

|       |                   |
|-------|-------------------|
| D     | COAL SEAM         |
| ---   | FORMATION CONTACT |
| - - - | FAULT             |
| ~     | SYNCLINE          |
| ^     | ANTICLINE         |
| +     | DRILL HOLE        |

QPR87003

0 50 100 200 METRES

| 0   | 28 | 03                        | 90 | ORIGINAL DRAFT          | DJW    | DJ   | DJ   |
|---|----|---------------------------|----|-------------------------|--------|------|------|
| Rev.  | D  | M                         | Y  | Revision Description    | Drn.   | Des. | App. |
| <b>QUINTETTE COAL LIMITED</b><br>Project Manager<br><b>DENISON MINES LIMITED</b><br>COAL DIVISION |    |                           |    |                         |        |      |      |
| Area MESA NORTH   |    |                           |    | Category CROSS-SECTIONS |        |      |      |
| Drawing Title   |    |                           |    |                         |        |      |      |
| <b>CROSS-SECTION 37800</b><br><b>MESA NORTH EXTENSION</b>   |    |                           |    |                         |        |      |      |
| Scale 1:2500  |    | Drawing No. 90-106-21-002 |    |                         | Rev. 0 |      |      |



|     |                         |
|-----|-------------------------|
| KS  | Shaftsbury Formation    |
| KCB | Boulder Creek Formation |
| KCH | Hulcross Formation      |
| KCG | Gates Formation         |
| KM  | Moosebar Formation      |
| KG  | Gething Formation       |

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| D     | COAL SEAM         |
| ---   | FORMATION CONTACT |
| - - - | FAULT             |
| ~     | SYNCLINE          |
| ^     | ANTICLINE         |
| +     | DRILL HOLE        |

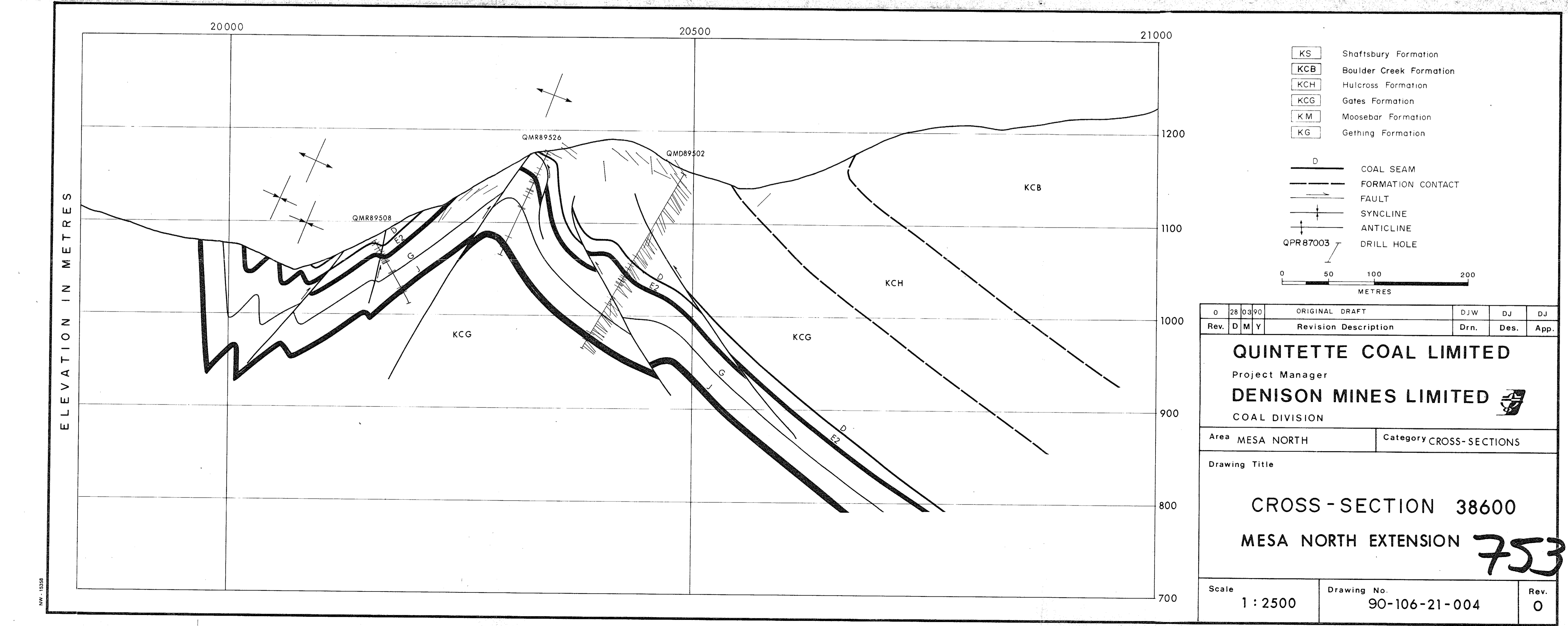
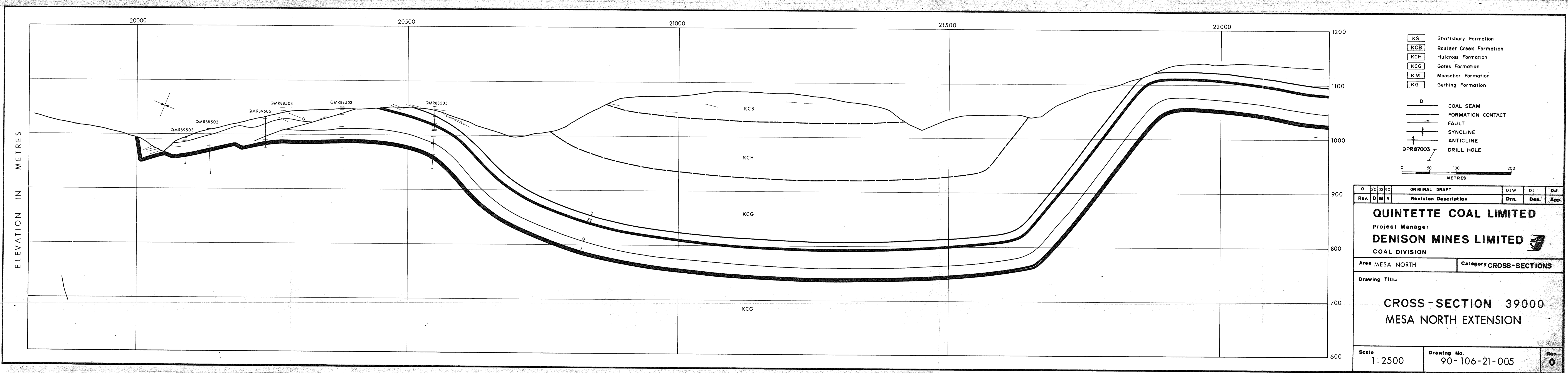
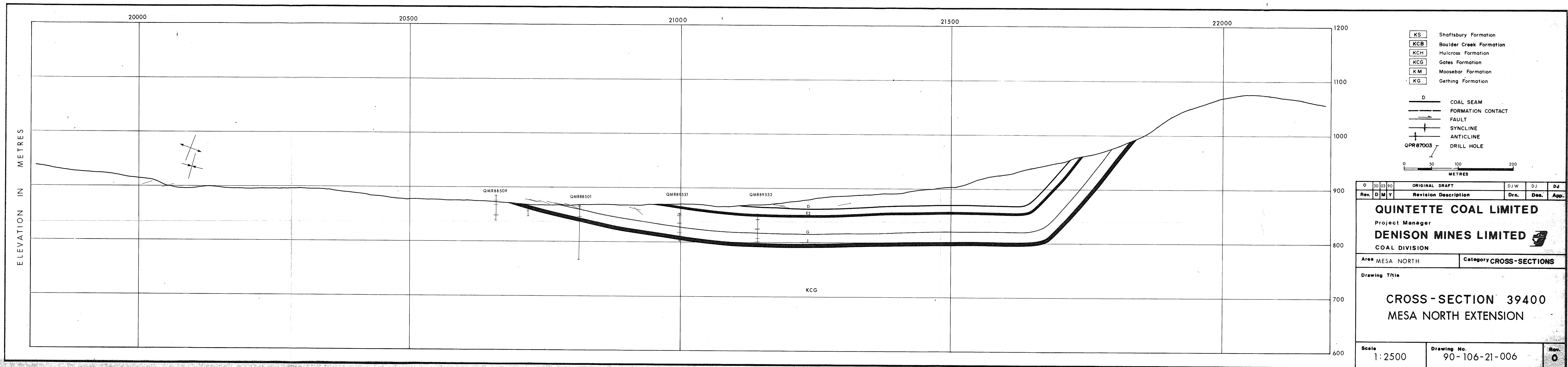
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0 50 100 200 METRES

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|---|----|---------------------------|----|-------------------------|--------|------|------|
| Rev.  | D  | M                         | Y  | Revision Description    | Drn.   | Des. | App. |
| <b>QUINTETTE COAL LIMITED</b><br>Project Manager<br><b>DENISON MINES LIMITED</b><br>COAL DIVISION |    |                           |    |                         |        |      |      |
| Area MESA NORTH   |    |                           |    | Category CROSS-SECTIONS |        |      |      |
| Drawing Title   |    |                           |    |                         |        |      |      |
| <b>CROSS-SECTION 37400</b><br><b>MESA NORTH EXTENSION</b>   |    |                           |    |                         |        |      |      |
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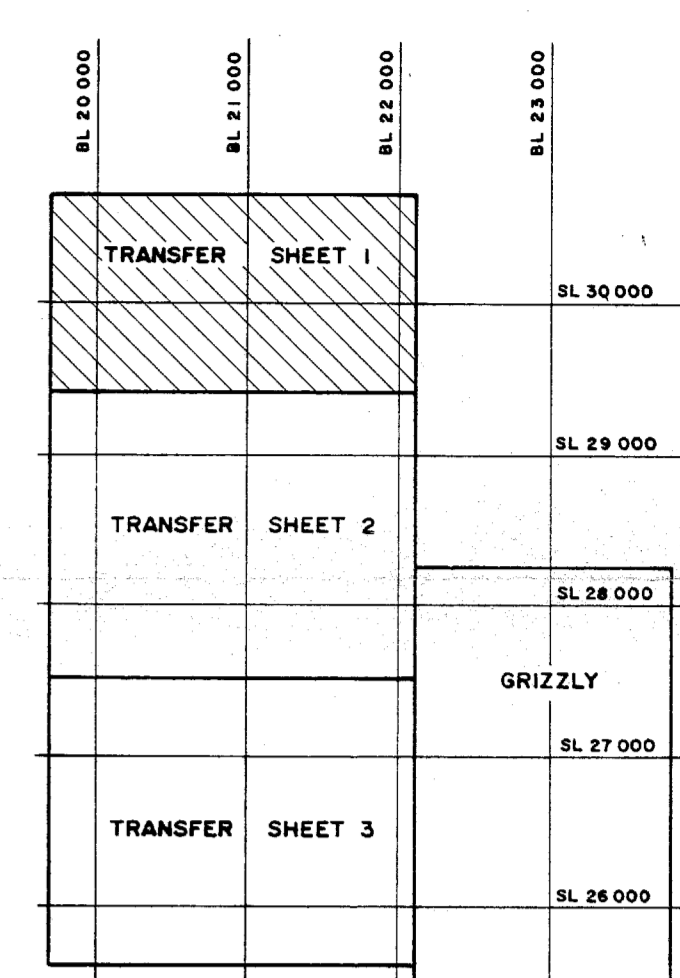
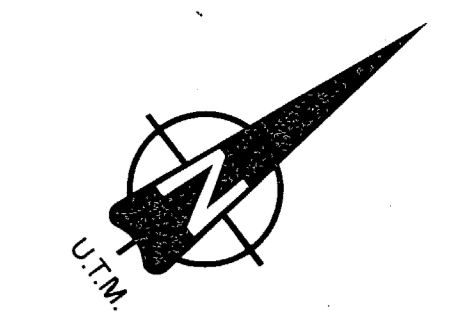
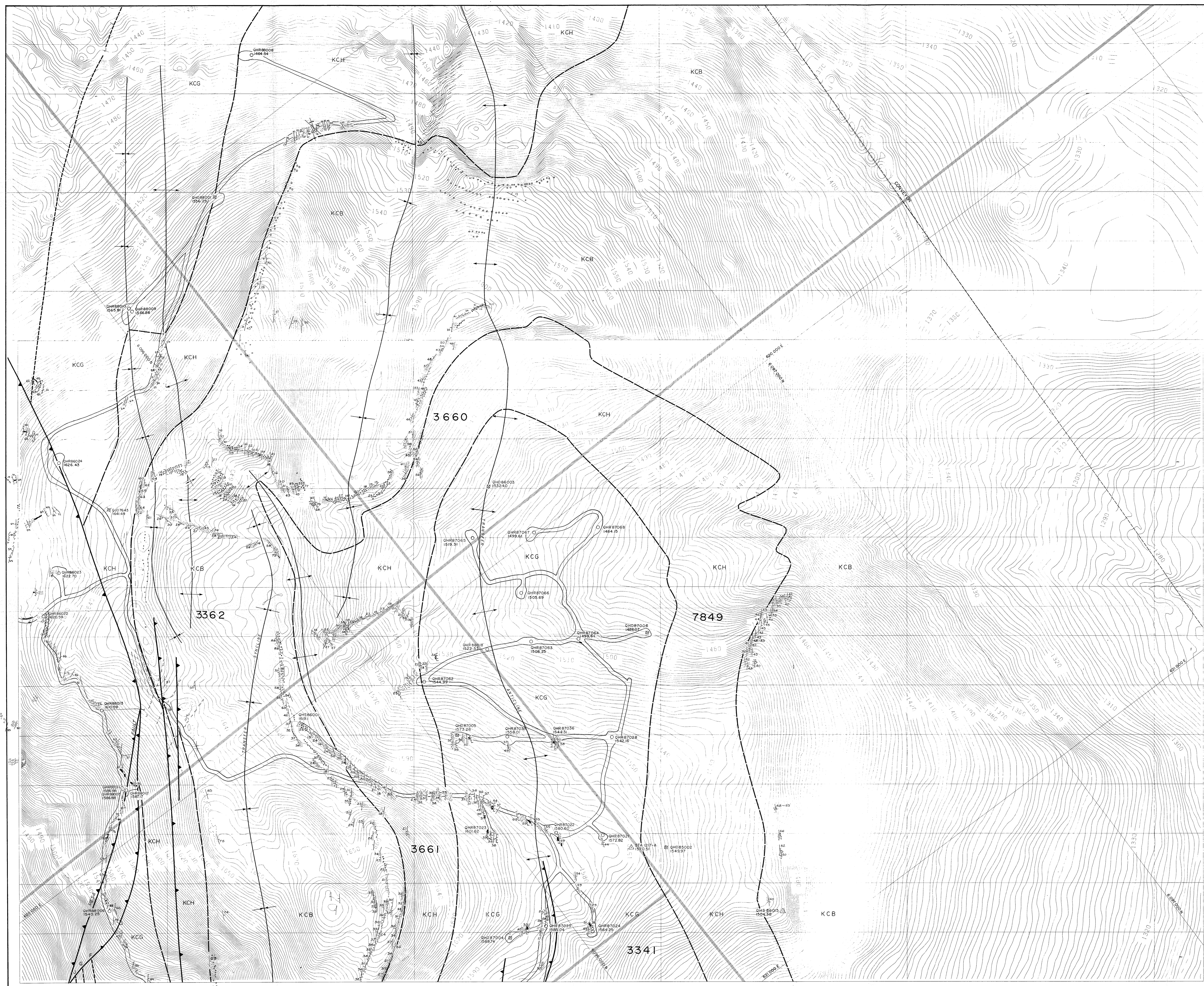


**Appendix 1.2**  
**1989 Geological Report**  
**Geology Maps**

**Appendix 1.2.1**

**Transfer**

**(3 sheets)**



KEY MAP  
N.T.C.

**LEGEND**

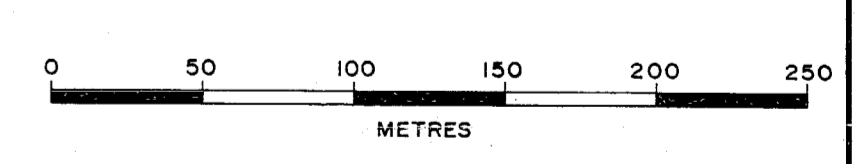
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- TRENCH
- ROTARY DRILL HOLE
- DIAMOND DRILL HOLE
- THRUST FAULT
- ANTICLINE
- SYNCLINE
- GEOLOGIC CONTACT
- COAL SEAM OUTCROP
- CONTROL POINT W/ ELEVATION
- STRIKE & DIP - BEDDING
- STRIKE & DIP - COAL SEAM
- STRIKE & DIP - FAULT PLANE
- ADIT

**LITHOLOGIC SYMBOLS**

- CONGLOMERATE
- SANDSTONE
- SANDY SHALE (Siltstone)
- SHALE (Claystone)
- CARBONACEOUS SHALE
- COAL

**GEOLOGIC FORMATIONS**

- KS** SHAFTSBURY
- KCB** BOULDER CREEK
- KCH** HULCROSS
- KCG** GATES
- KM** MOOSEBAR
- KG** GETHING
- KCD** CADOMIN



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|      |          |                      |      |      |      |
|------|----------|----------------------|------|------|------|
| 2    | 14/03/98 | UPDATED              | D.K. | D.J. | D.J. |
| 1    | 22/07/95 | CORRECTION           | D.J. | D.J. | D.J. |
| 0    | 03/08/94 | ORIGINAL DRAFT       | R.J. | D.J. | D.J. |
| Rev. | D.M.V.   | Revision Description | Drn. | Des. | App. |

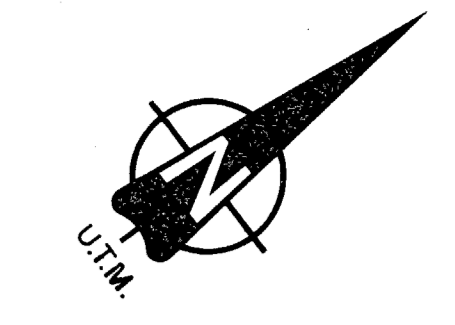
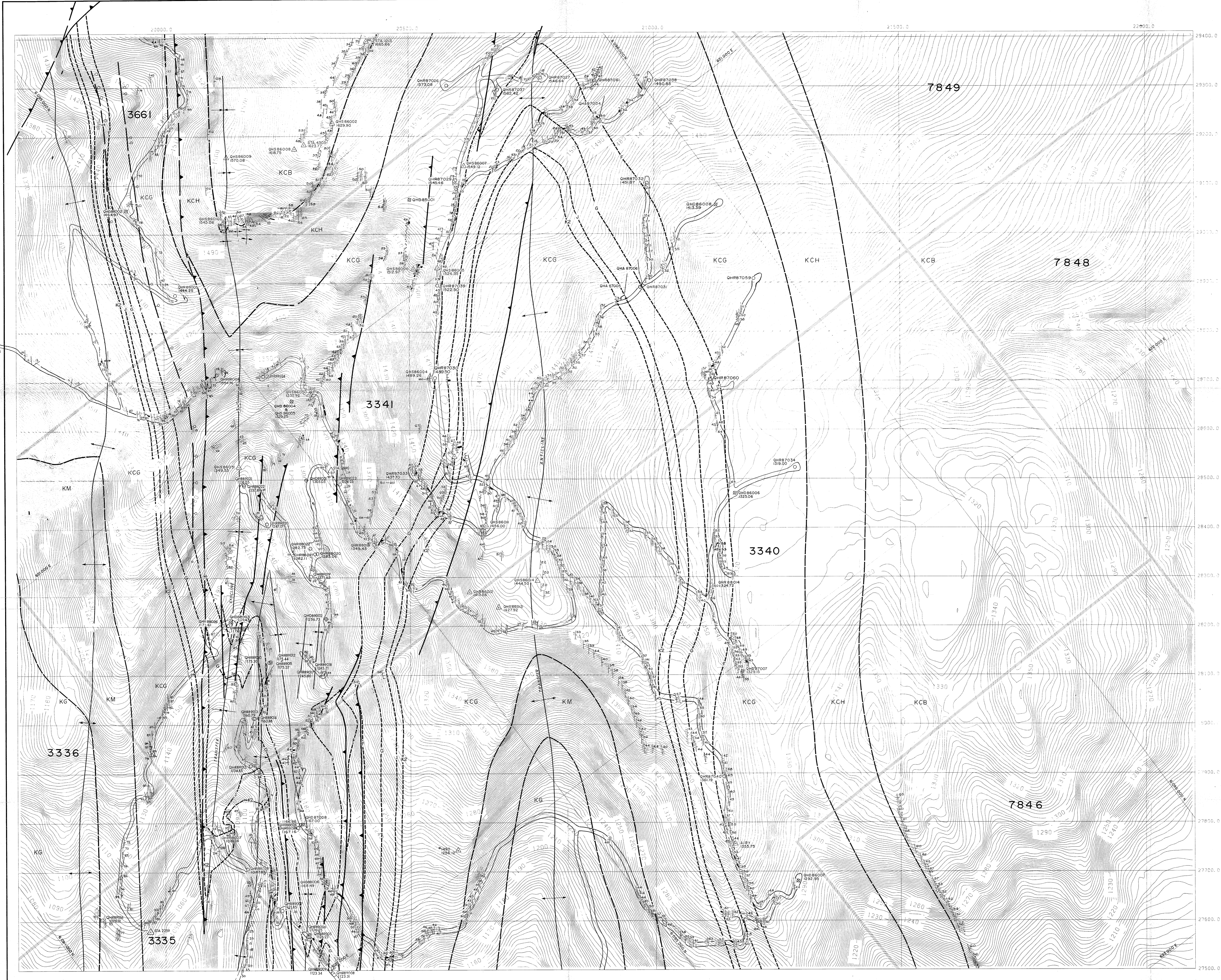
**QUINETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area: TRANSFER    Category: GEOLOGY

Drawing Title:  
**TRANSFER AREA  
 GEOLOGY**

SHEET 1

Scale: 1:2500    Drawing No.: 88-903-20-001    Rev.: 2



|                  |                  |                  |           |
|------------------|------------------|------------------|-----------|
| SL 29 000        | SL 28 000        | SL 27 000        | SL 26 000 |
| TRANSFER SHEET 1 | TRANSFER SHEET 2 | TRANSFER SHEET 3 | GRIZZLY   |

KEY MAP  
N.T.S.

**LEGEND**

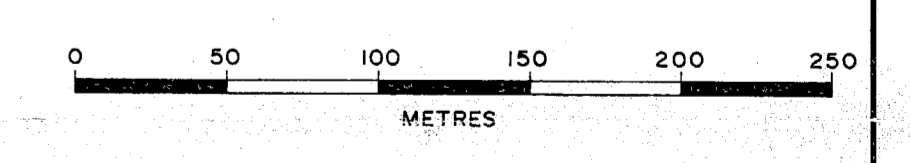
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- ROTARY DRILL HOLE
- DIAMOND DRILL HOLE
- THRUST FAULT
- ANTICLINE
- SYNCLINE
- GEOLOGIC CONTACT
- COAL SEAM OUTCROP
- CONTROL POINT w/ ELEVATION
- STRIKE & DIP - BEDDING
- STRIKE & DIP - COAL SEAM
- STRIKE & DIP - FAULT PLANE
- ADIT

**LITHOLOGIC SYMBOLS**

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- SANDY SHALE (Siltstone)
- SHALE (Claystone)
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- COAL

**GEOLOGIC FORMATIONS**

- KS SHAFTSBURY
- KCB BOULDER CREEK
- KCH HULCROSS
- KCG GATES
- KM MOOSEBAR
- KG GETHING
- KCD CADOMIN



**753**

|      |          |                |                  |
|------|----------|----------------|------------------|
| 3    | 14/03/02 | UPDATE         | D.W.J. D.J. D.J. |
| 2    | 13/03/02 | UPDATED        | D.M. D.J. D.J.   |
| 1    | 22/07/98 | CORRECTION     | D.L. D.J. D.J.   |
| 0    | 07/02/96 | ORIGINAL DRAFT | R.J. D.J. D.J.   |
| Rev. | 0/0/01   | Revision       | Preparation      |
| Rev. | 0/0/01   | Revision       | Preparation      |

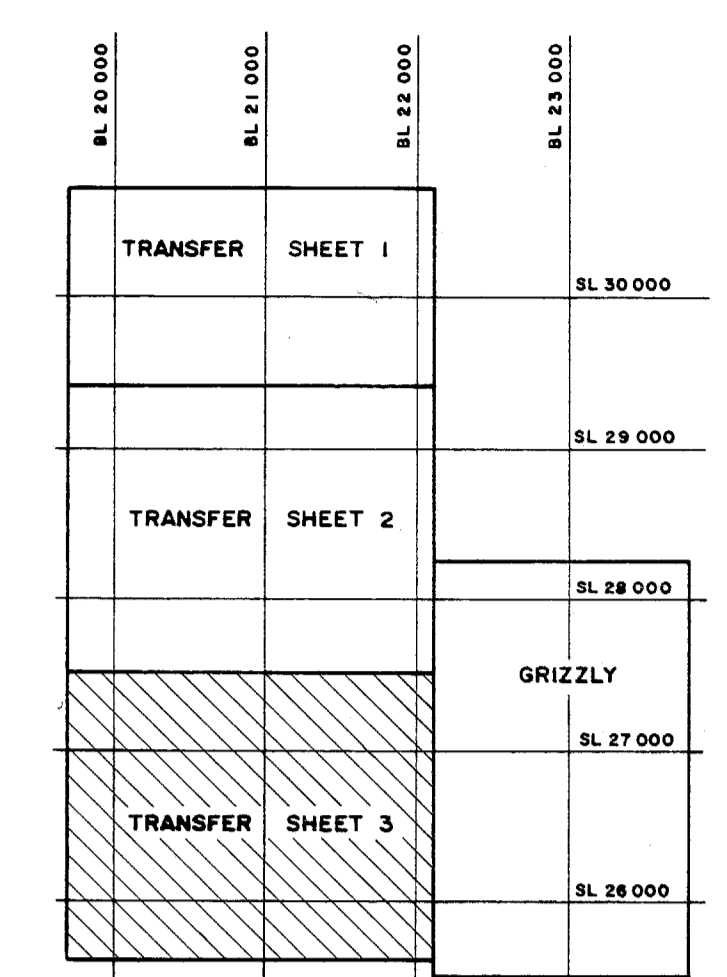
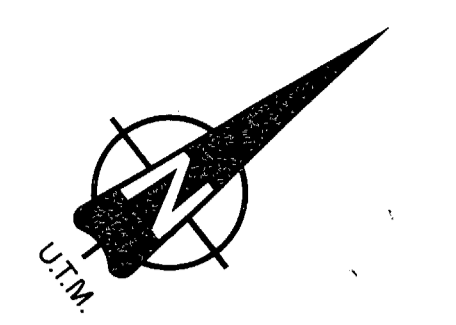
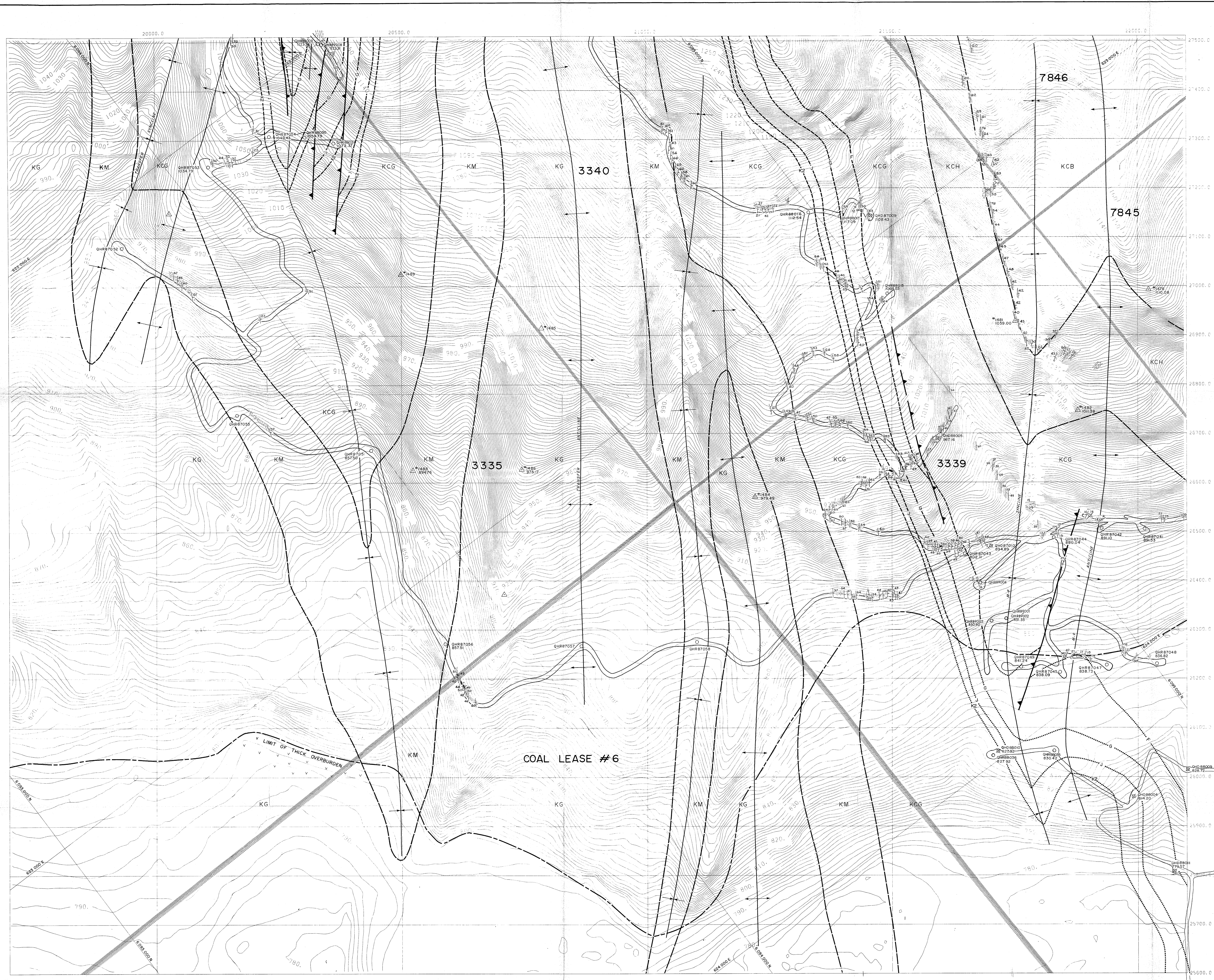
**QUINTETTE COAL LIMITED**  
Project Manager  
**DENISON MINES LIMITED**  
COAL DIVISION

Area: TRANSFER Category: GEOLOGY

Drawing Title:  
**TRANSFER AREA  
GEOLOGY**

SHEET 2

Scale: 1:2500 Drawing No.: 88-903-20-002 Rev.: 3



KEY MAP  
N.T.S.

LEGEND

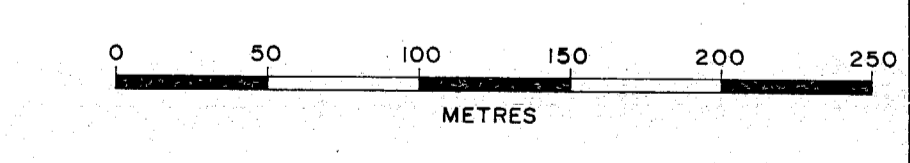
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- - - TRENCH
- ROTARY DRILL HOLE
- ⊕ DIAMOND DRILL HOLE
- THRUST FAULT
- ANTICLINE
- SYNCLINE
- GEOLOGIC CONTACT
- - - COAL SEAM OUTCROP/SUBCROP
- △ CONTROL POINT w/ ELEVATION
- STRIKE & DIP - BEDDING
- STRIKE & DIP - COAL SEAM
- STRIKE & DIP - FAULT PLANE
- ADIT

LITHOLOGIC SYMBOLS

- CONGLOMERATE
- SANDSTONE
- SANDY SHALE (Siltstone)
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GEOLOGIC FORMATIONS

- KS SHAFTSBURY
- KCB BOULDER CREEK
- KCH HULCROSS
- KCG GATES
- KM MOOSEBAR
- KG GETHING
- KCD CADOMIN



753

|     |          |                                  |      |          |             |
|-----|----------|----------------------------------|------|----------|-------------|
| 2   | 13/03/90 | UPDATE 1989 DATA, INTERPRETATION | D.W. | D.J.     | D.J.        |
| 1   | 13/02/89 | UPDATED                          | D.H. | D.J.     | D.J.        |
| 0   | 21/03/88 | ORIGINAL DRAFT                   | R.J. | D.J.     | D.J.        |
| Rev | D        | M                                | W    | Revision | Description |

**QUINTETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area: TRANSFER Category: GEOLOGY

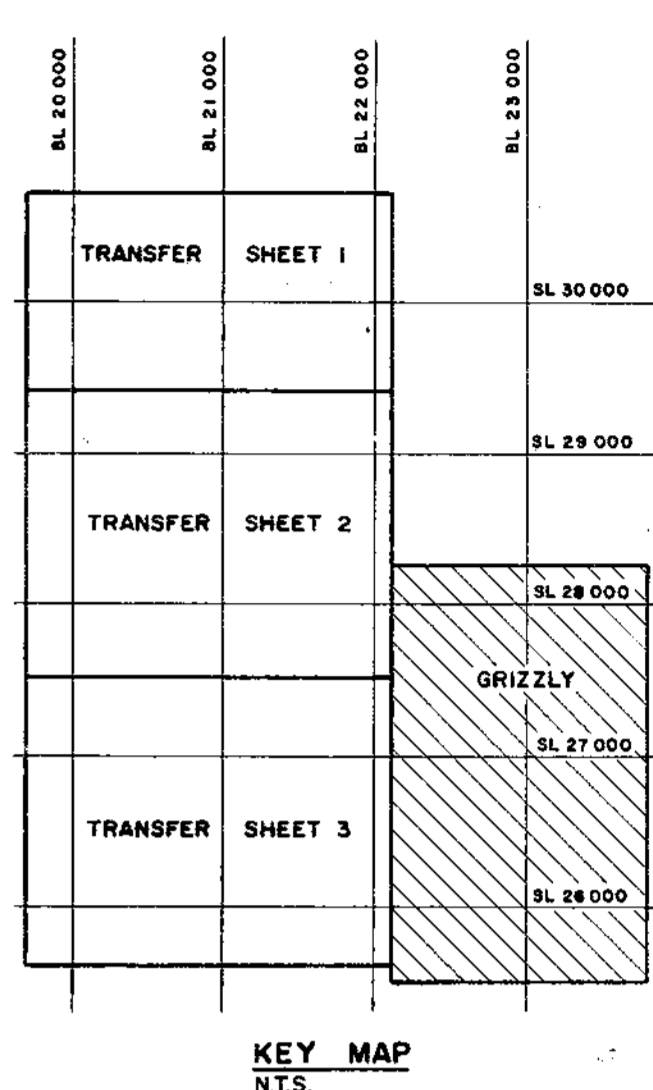
Drawing Title  
**TRANSFER AREA**  
**GEOLOGY**

SHEET 3

Scale: 1:2500 Drawing No.: 88-903-20-003 Rev: 2

**Appendix 1.2.2**

**Grizzly**



**LEGEND**

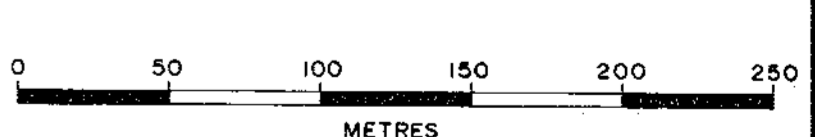
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- TRENCH
- ROTARY DRILL HOLE
- DIAMOND DRILL HOLE
- THRUST FAULT
- ANTICLINE
- SYNCLINE
- GEOLOGIC CONTACT
- COAL SEAM OUTCROP/SUB
- CONTROL POINT w/ ELEVATION
- STRIKE & DIP - BEDDING
- STRIKE & DIP - COAL SEAM
- STRIKE & DIP - FAULT PLANE
- ADIT

**LITHOLOGIC SYMBOLS**

- CONGLOMERATE
- SANDSTONE
- SANDY SHALE (Siltstone)
- SHALE (Claystone)
- CARBONACEOUS SHALE
- COAL

**GEOLOGIC FORMATIONS**

- KS** SHAFTSBURY
- KCB** BOULDER CREEK
- KCH** HULCROSS
- KCG** GATES
- KM** MOOSEBAR
- KG** GETHING
- KCD** CADOMIN



**753**

|     |          |                         |      |      |      |
|-----|----------|-------------------------|------|------|------|
| 3   | 13/03/02 | REVISE OVERBURDEN LIMIT | D/W  | D/J  | D/J  |
| 2   | 14/03/02 | UPDATED                 | D/W  | D/J  | D/J  |
| 1   | 22/07/01 | CORRECTION              | D/W  | D/J  | D/J  |
| 0   | 10/03/01 | ORIGINAL DRAFT          | R.J. | D.J. | D.J. |
| Rev | D/W      | Revision Description    | Dir. | Obs. | App. |

**QUINTETTE COAL LIMITED**  
 Project Manager:  
**DENISON MINES LIMITED**  
 COAL DIVISION

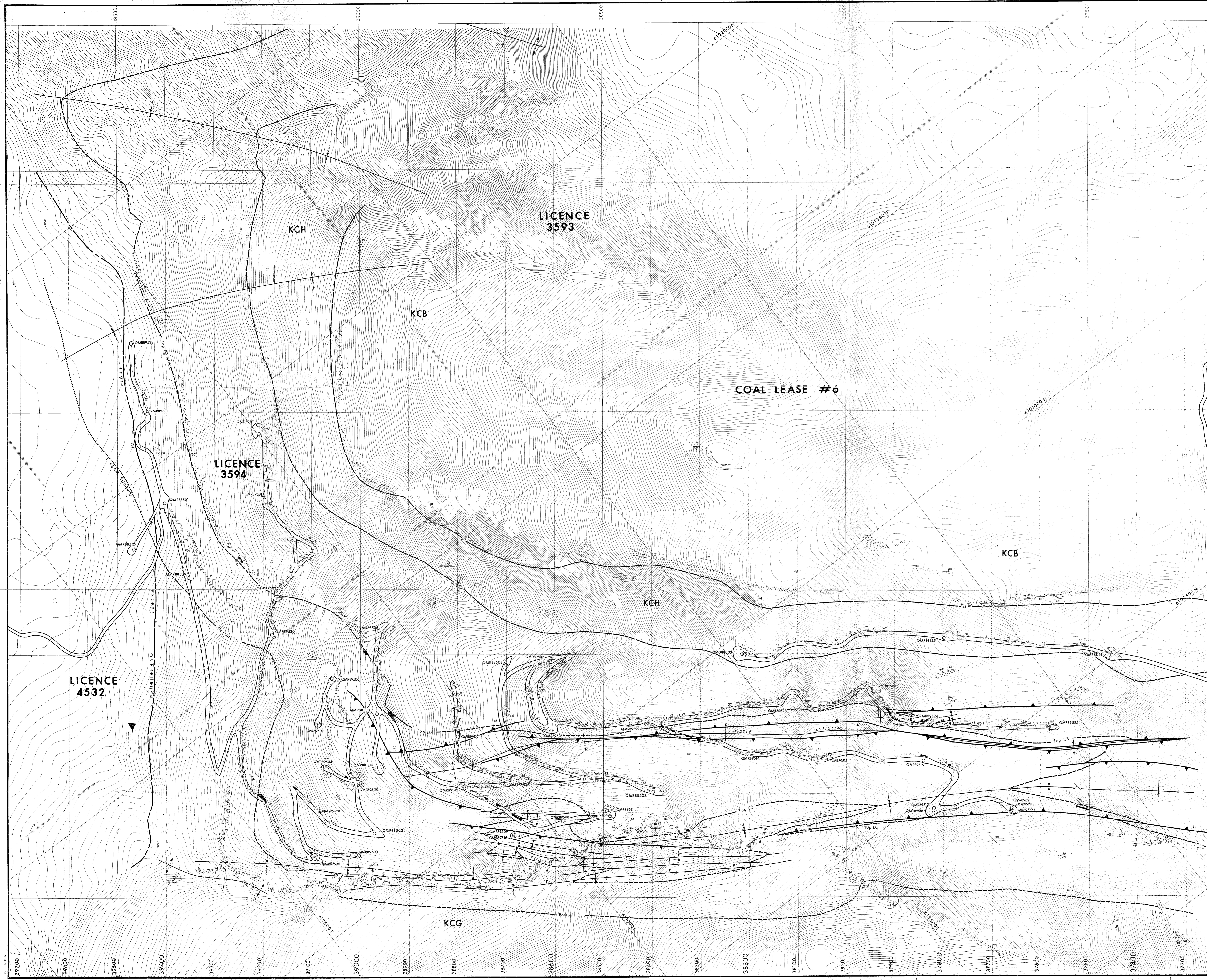
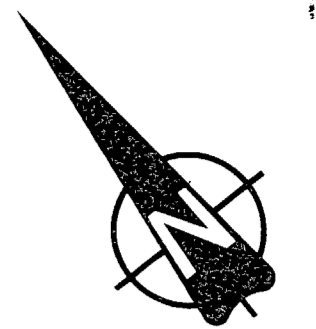
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Drawing Title:  
**GRIZZLY AREA  
 GEOLOGY**

Scale: 1:2500 Drawing No.: 88-905-20-001 Rev: 3



**Appendix 1.2.3**  
**Mesa North Extension**



- LEGEND**
- ||| ROADS
  - TRENCH
  - ROTARY DRILL HOLE
  - ⊕ DIAMOND DRILL HOLE
  - ▲ THRUST FAULT
  - ⊕ ANTICLINE
  - ⊖ SYNCLINE
  - GEOLOGIC CONTACT
  - COAL SEAM OUTCROP
  - △ 1686 CONTROL POINT W/ ELEVATION
  - △ 375.17
  - STRIKE & DIP - BEDDING
  - STRIKE & DIP - COAL SEAM
  - LEASE / LICENCE BOUNDARY

- GEOLOGIC FORMATIONS**
- [KS] SHAFTSBURY
  - [KCB] BOULDER CREEK
  - [KCH] HULCROSS
  - [KCG] GATES
  - [KM] MOOSEBAR
  - [KG] GETHING
  - [KCD] CADOMIN

- LITHOLOGIC SYMBOLS**
- [Pattern] CONGLOMERATE
  - [Pattern] SANDSTONE
  - [Pattern] SILTSTONE (Sandy Shale)
  - [Pattern] CLAYSTONE (Shale)
  - [Pattern] COAL

|      |          |                |     |                      |      |      |      |
|------|----------|----------------|-----|----------------------|------|------|------|
| 0    | 03/04/90 | ORIGINAL DRAFT | DJW | DJ                   | DJ   |      |      |
| Rev. | D        | M              | Y   | Revision Description | Drn. | Des. | App. |

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**DENISON MINES LIMITED**  
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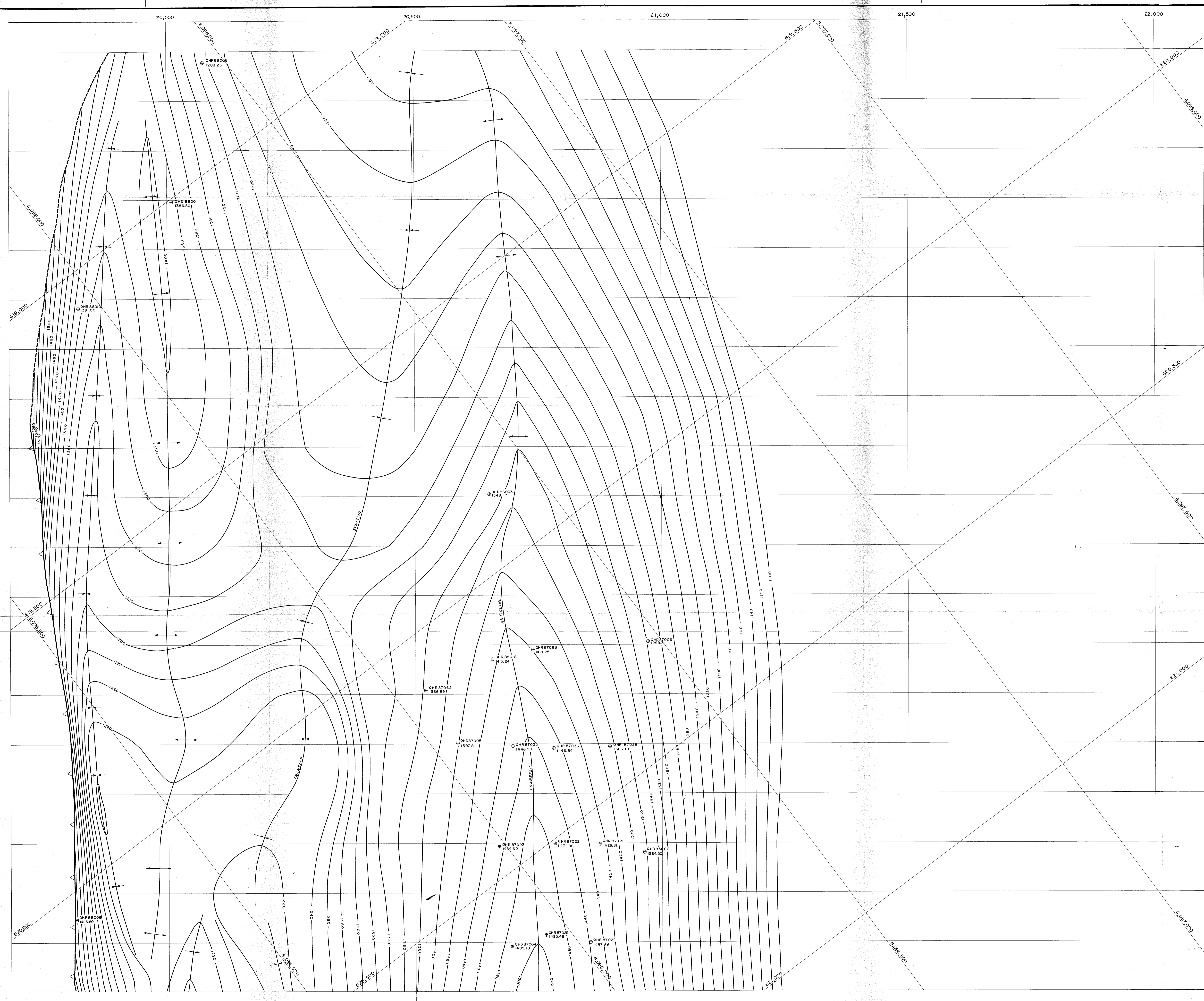
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 Drawing Title  
**MESA NORTH EXTENSION AREA**  
**GEOLOGY 753**  
 Scale 1:2500 Drawing No. 90-106-20-001 Rev. 0

**Appendix 1.2.4  
Regional Geology**

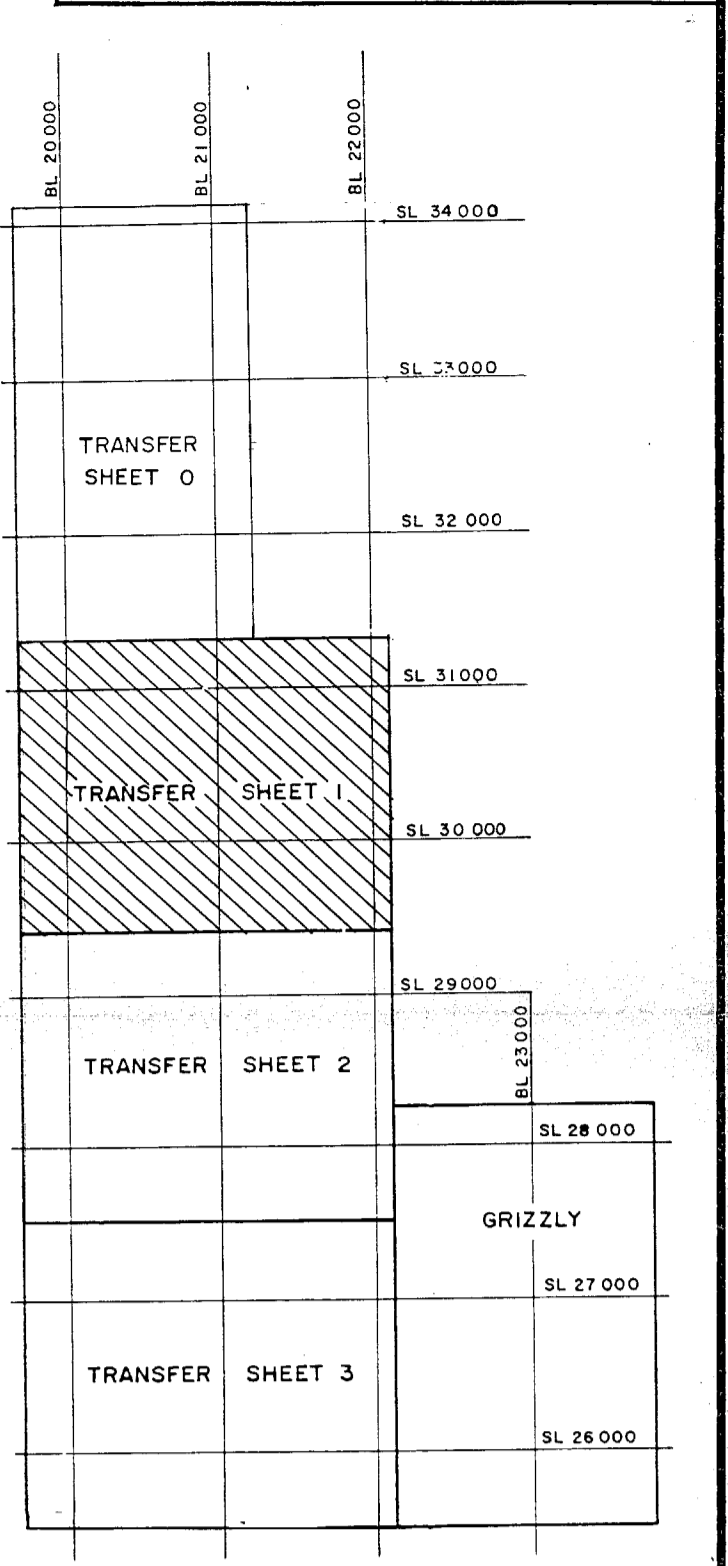


**Appendix 1.3**  
**1989 Geological Report**  
**Structure Contours**

**Appendix 1.3.1**  
**Transfer (Top of J)**  
**(3 sheets)**



O.C.L. FILE No.

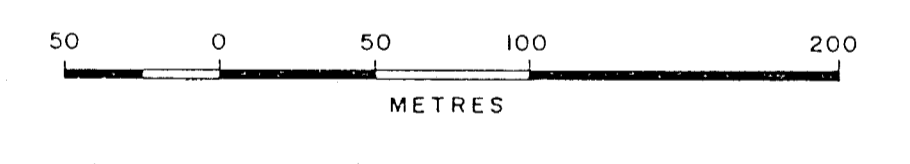


KEY MAP



**LEGEND**

- 900 — STRUCTURE CONTOUR (20m interval)
- ⊕ QHR87017 ROTARY DRILL HOLE (Collar Location)
- ⊕ QHD7003 DIAMOND DRILL HOLE (Collar Location)
- + 715.96 ELEV. OF DRILL HOLE INTERSECTION AT TOP OF SEAM
- ↕ THRUST FAULT / LOWER THRUST PLATE
- ↕ ANTICLINE
- ↕ SYNCLINE
- COAL SEAM OUTCROP/SUBCROP
- ○ NORMAL FAULT



|      |    |    |    |                      |      |      |      |
|------|----|----|----|----------------------|------|------|------|
| 1    | 27 | 03 | 90 | REVISE               | DJ/W | DJ   | DJ   |
| 0    | 27 | 03 | 89 | ORIGINAL DRAFT       | DKL  | DJ   | DJ   |
| Rev. | D  | M  | V  | Revision Description | Drn. | Des. | App. |

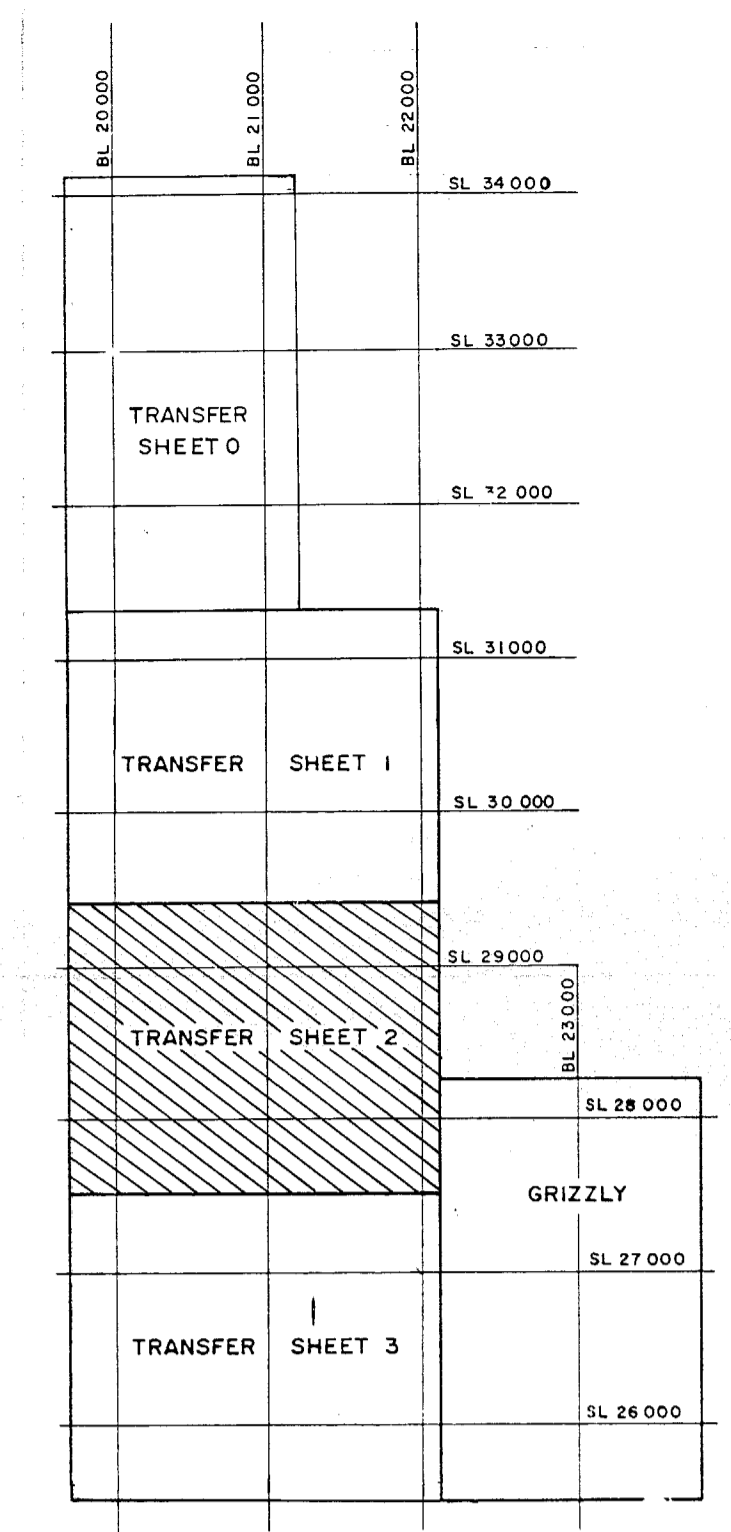
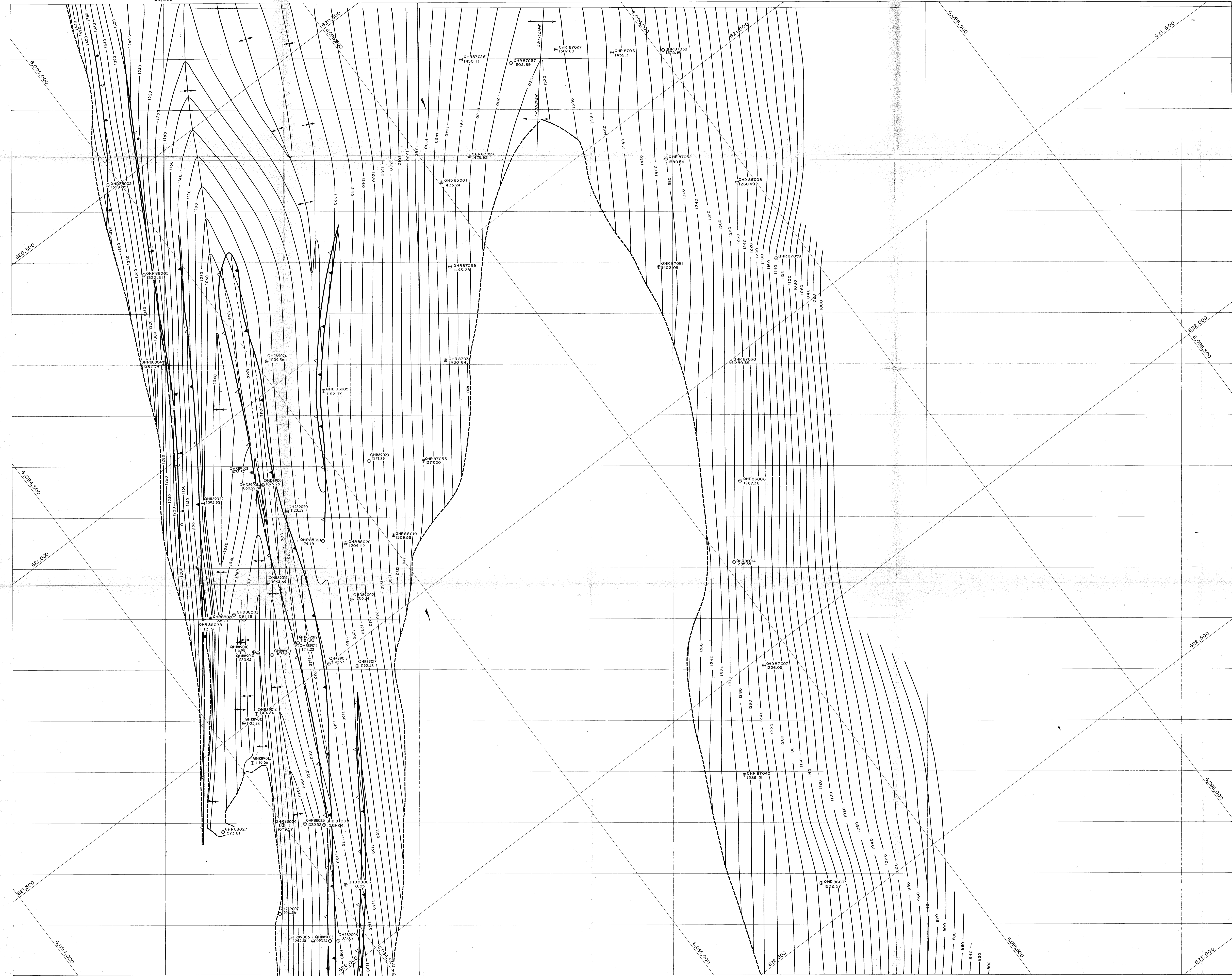
**QUINTETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area TRANSFER - SHEET I | Category Structure Contour

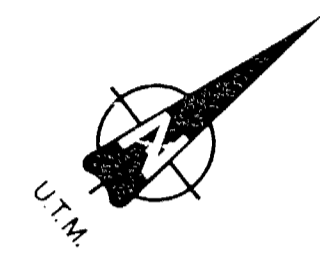
Drawing Title  
**TRANSFER AREA 753**  
 STRUCTURE CONTOUR  
 TOP OF J SEAM SHEET I

Scale 1 : 2500 | Drawing No. 89-903-22-001 | Rev. I

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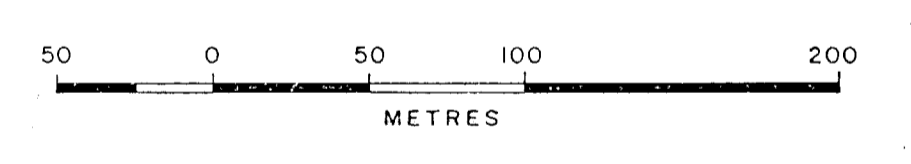


KEY MAP



LEGEND

- 900 — STRUCTURE CONTOUR (20m Interval)
- ⊕ QHR87017 ROTARY DRILL HOLE (Collar Location)
- ⊕ QHD87003 DIAMOND DRILL HOLE (Collar Location)
- + 715.96 ELEV. OF DRILL HOLE INTERSECTION AT TOP OF SEAM
- ↕ THRUST FAULT / LOWER THRUST PLATE
- ↕ ANTICLINE
- ↕ SYNCLINE
- COAL SEAM OUTCROP/SUBCROP
- 0 — NORMAL FAULT



| Rev. | D  | M  | Y  | Revision Description | Dwn. | Des. | App. |
|------|----|----|----|----------------------|------|------|------|
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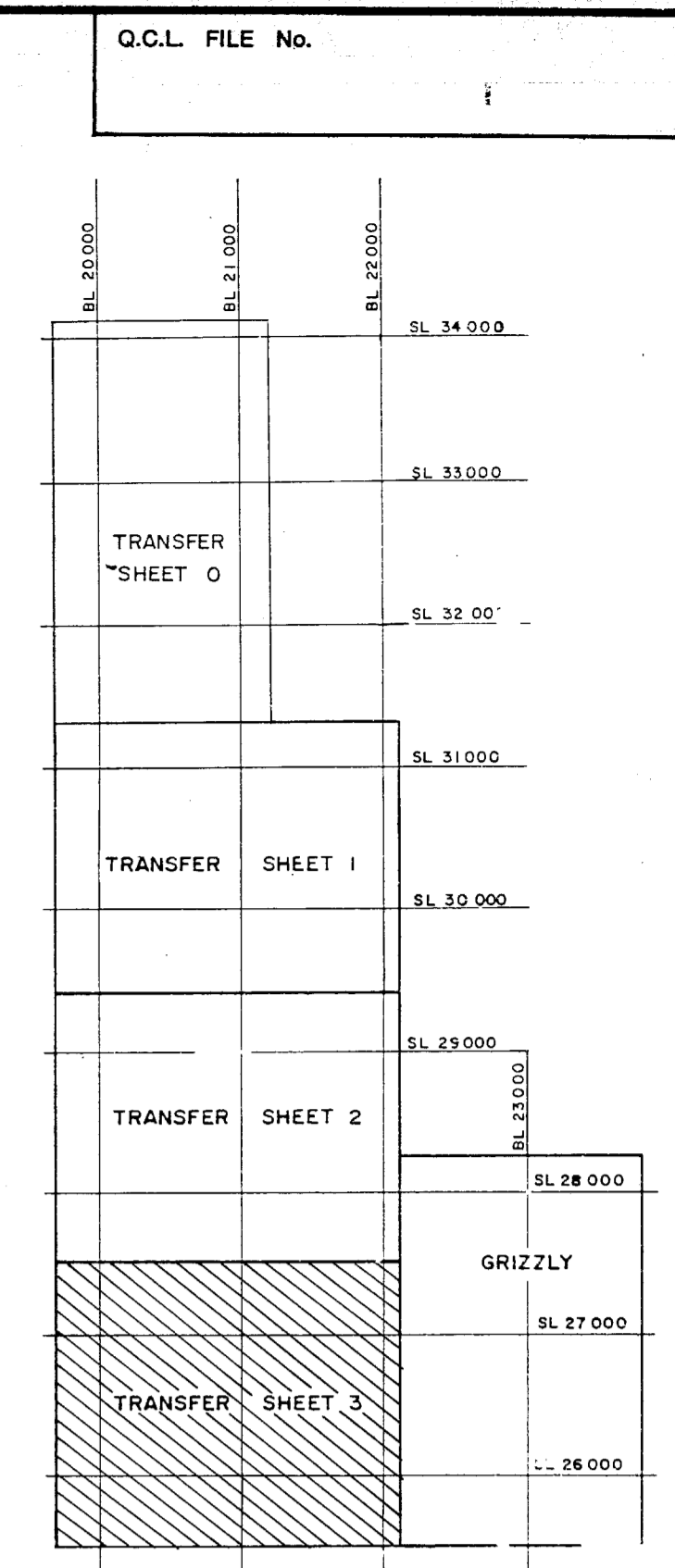
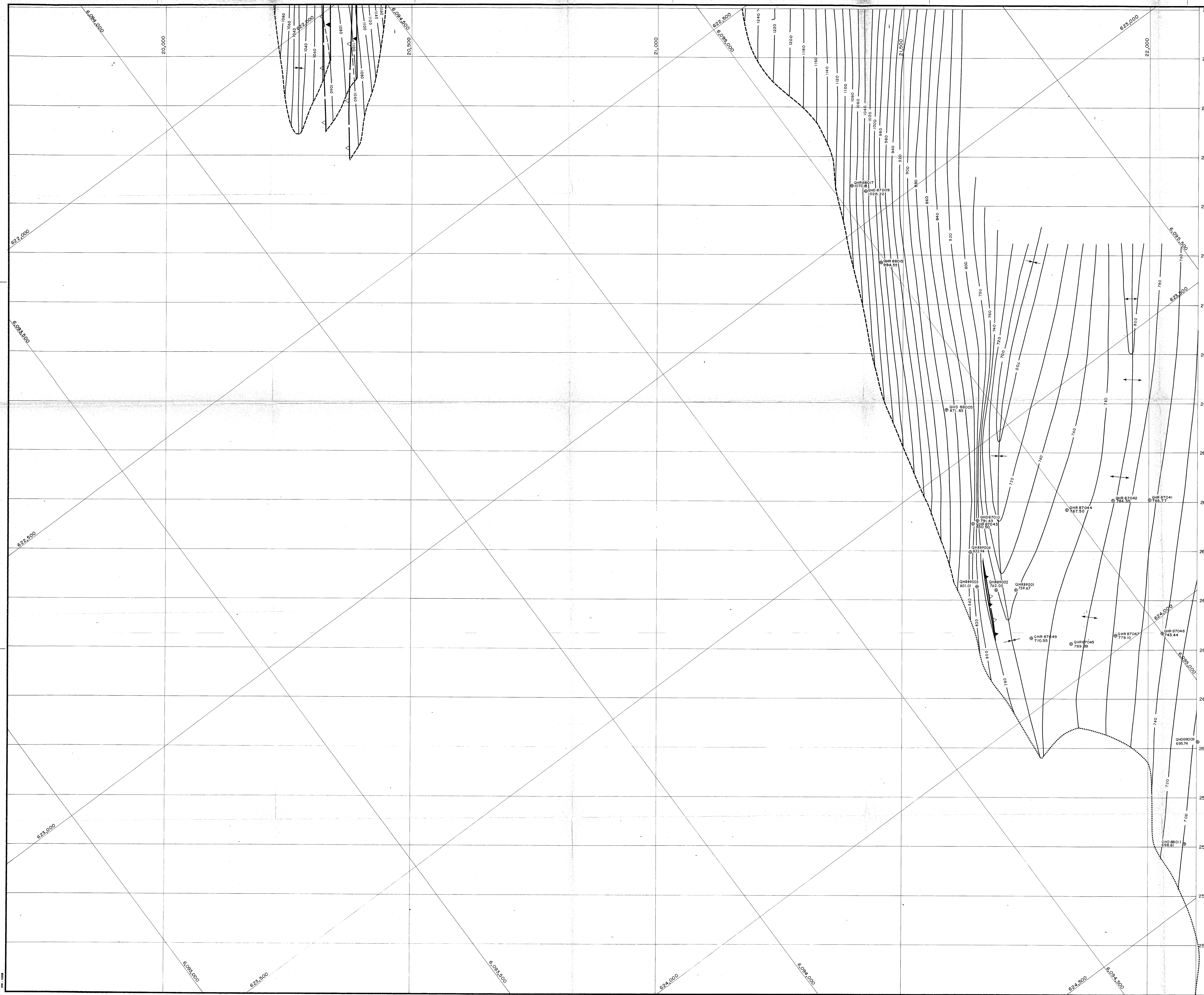
**QUINTETTE COAL LIMITED**  
 Project Manager  
**DENISON MINES LIMITED**  
 COAL DIVISION

Area TRANSFER-SHEET 2 Category Structure Contour

Drawing Title  
**TRANSFER AREA 753**  
 STRUCTURE CONTOUR  
 TOP OF J SEAM SHEET 2

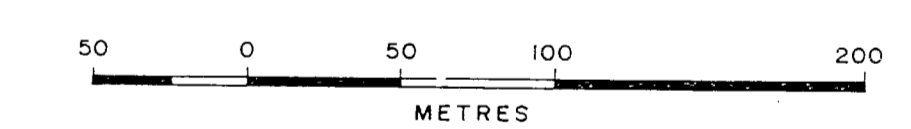
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**LEGEND**

- 900 — STRUCTURE CONTOUR (20m Interval)
- ⊙ QHR87017 ROTARY DRILL HOLE (Collar Location)
- ⊕ QHD87003 DIAMOND DRILL HOLE (Collar Location)
- ⊕ 715.96 ELEV. OF DRILL HOLE INTERSECTION AT TOP OF SEAM
- ↕ THRUST FAULT / LOWER THRUST PLATE
- ∩ ANTICLINE
- ∪ SYNCLINE
- COAL SEAM OUTCROP/SUBCROP
- ⊖ NORMAL FAULT



| Rev. | D  | M  | Y  | Revision Description | Dwn. | Des. | App. |
|------|----|----|----|----------------------|------|------|------|
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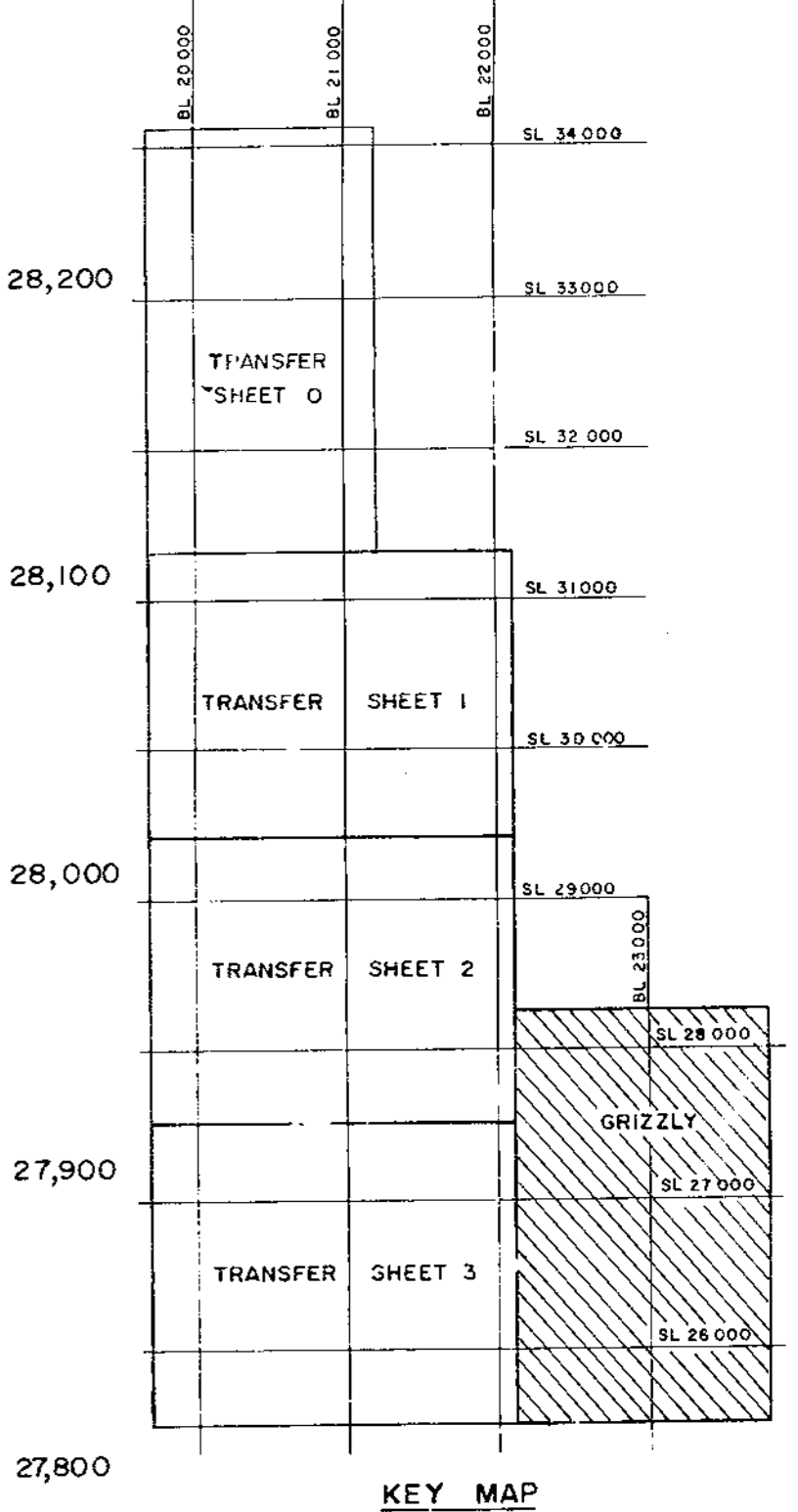
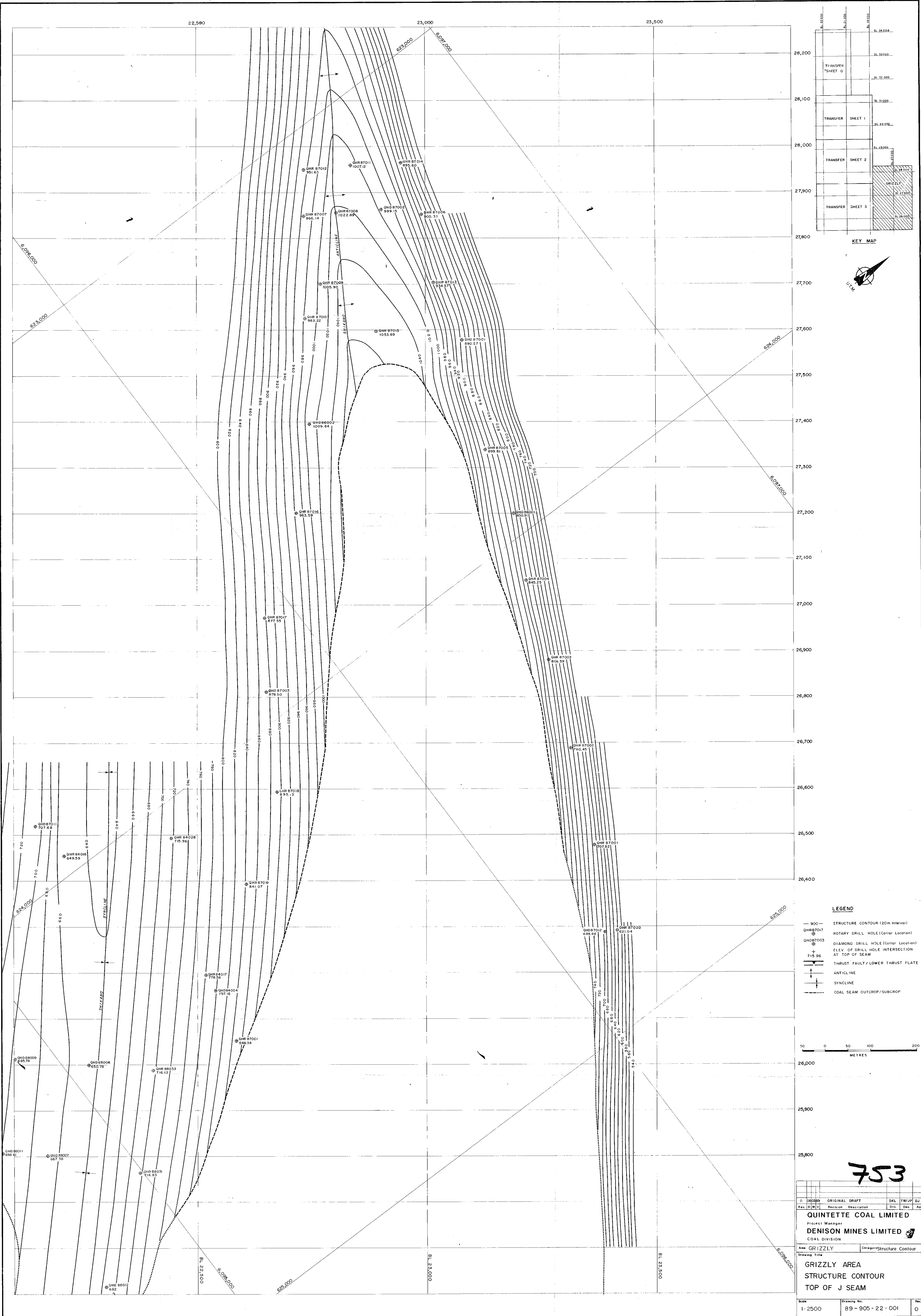
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**DENISON MINES LIMITED**  
 COAL DIVISION

Area TRANSFER - SHEET 3 Category Structure Contour

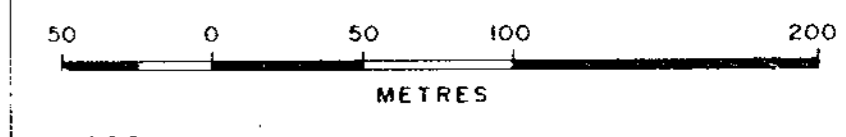
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 STRUCTURE CONTOUR  
 TOP OF J SEAM SHEET 3

|                 |                              |           |
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|-----------------|------------------------------|-----------|

**Appendix 1.3.2**  
**Grizzly (Top of J)**



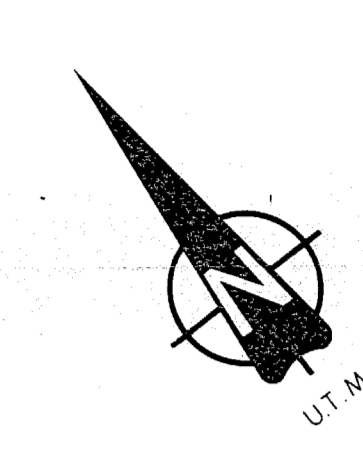
- LEGEND**
- 900 — STRUCTURE CONTOUR (20m Interval)
  - QHR87017 ROTARY DRILL HOLE (Collar Location)
  - ⊕ QHR87003 DIAMOND DRILL HOLE (Collar Location)
  - ⊕ 715.96 ELEV. OF DRILL HOLE INTERSECTION AT TOP OF SEAM
  - THRUST FAULT / LOWER THRUST PLATE
  - ↑ ANTICLINE
  - ↓ SYNCLINE
  - COAL SEAM OUTCROP/SUBCROP



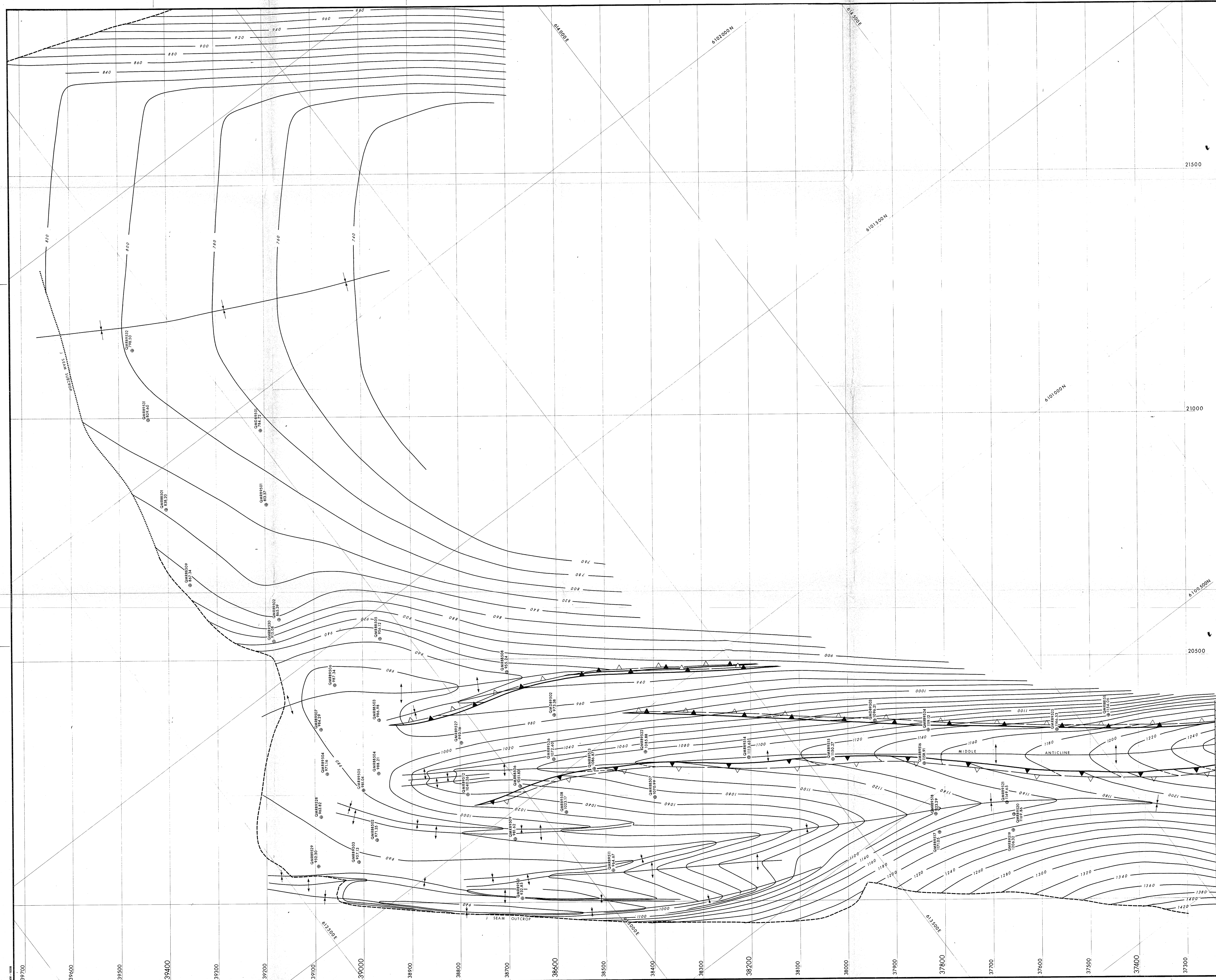
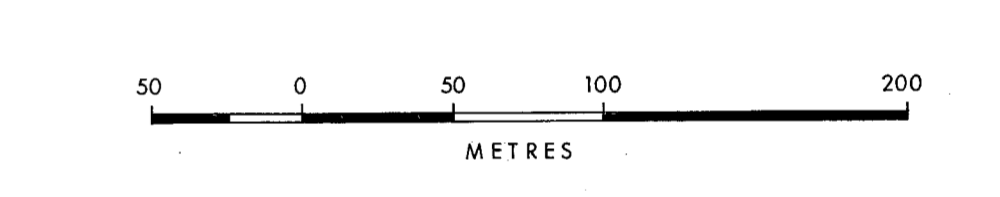
**753**

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| Rev.                         | 01   | 1              | Revision    | Description       | Drn. | Des. | App. |
| <b>QUINETTE COAL LIMITED</b> |  |                |             |                   |      |      |      |
| Project Manager              |  |                |             |                   |      |      |      |
| <b>DENISON MINES LIMITED</b> |  |                |             |                   |      |      |      |
| COAL DIVISION                |  |                |             |                   |      |      |      |
| Area                         | GRIZZLY  |                | Designer    | Structure Contour |      |      |      |
| Drawing Title                | GRIZZLY AREA<br>STRUCTURE CONTOUR<br>TOP OF J SEAM |                |             |                   |      |      |      |
| Scale                        | 1:2500   |                | Drawing No. | 89-905-22-001     |      | Rev. |      |
|                              |  |                |             |                   |      | 0    |      |

**Appendix 1.3.3**  
**Mesa North Extension**  
**(Bottom of J)**



- 20m — STRUCTURE CONTOUR (20m interval)
- ⊙ QMR88508 ROTARY DRILL HOLE (collar location)
- ⊙ QMR88010 DIAMOND DRILL HOLE (collar location)
- 713.99 ELEVATION OF DRILLHOLE INTERSECTION (top of seam)
- ↕ THRUST FAULT / LOWER THRUST PLATE
- ↕ ANTICLINE
- ↕ SYNCLINE
- COAL SEAM OUTCROP / SUBCROP



|      |          |                |                      |      |      |
|------|----------|----------------|----------------------|------|------|
| 0    | 02/04/90 | ORIGINAL DRAFT | DJW                  | DJ   | DJ   |
| Rev. | DI       | MY             | Revision Description |      |      |
|      |          |                | Drn.                 | Des. | App. |

**QUINTETTE COAL LIMITED**  
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Area MESA NORTH Category STRUCTURE CONTOUR

Drawing Title  
**MESA NORTH EXTENSION AREA  
 STRUCTURE CONTOUR  
 BOTTOM OF J SEAM 753**

|        |               |      |
|--------|---------------|------|
| Scale  | Drawing No.   | Rev. |
| 1:2500 | 90-106-22-001 | 0    |

Copy #1

**CONFIDENTIAL**

QUINETTE COAL LIMITED  
1980 GEOLOGICAL REPORT  
TRANSFER, GRIZZLY AND MESA  
NORTH EXTENSION AREAS  
APRIL, 1990  
APPENDIX 2

Prepared by Technical Services Department  
Quintette Coal Limited

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1989 GEOLOGICAL REPORT  
TRANSFER, GRIZZLY AND MESA NORTH EXTENSION AREAS

INDEX - APPENDIX 2

DESCRIPTION

2.1 Drill Core and Adit Analysis

2.1.1 Transfer and Grizzly (1984, through 1989)

2.1.2 Mesa North Extension (1986, 1988, 1989)

2.1.3 Birtley Bulk Sample Wash and Analysis

Table 4.8

## MESA NORTH EXTENSION

## MEAN VALUES OF ALL SEAMS

| RAW COAL  |      |             |            |              |     |           |
|-----------|------|-------------|------------|--------------|-----|-----------|
| SEAM      | RM   | ASH<br>(db) | VM<br>(db) | VM<br>(dmmf) | FSI | S<br>(db) |
| B         | 0.88 | 18.79       | 22.42      | 26.07        | 4.5 | 0.55      |
| D         | 0.86 | 18.21       | 24.05      | 27.80        | 5.7 | 0.96      |
| E         | 0.87 | 31.28       | 20.52      | 27.77        | 3.8 | 0.39      |
| G         | 0.97 | 7.57        | 23.92      | 25.23        | 6.6 | 0.66      |
| J         | 0.74 | 14.17       | 21.77      | 24.28        | 5.6 | 0.29      |
| MEAN VAL. | 0.86 | 18.00       | 22.54      | 26.23        | 5.2 | 0.57      |



Table 4.2

## TRANSFER AND GRIZZLY

## MEAN VALUES OF ALL SEAMS

| RAW COAL |      |             |            |              |     |           |
|----------|------|-------------|------------|--------------|-----|-----------|
| SEAM     | RM   | ASH<br>(db) | VM<br>(db) | VM<br>(dmmf) | FSI | S<br>(db) |
| B        | 1.82 | 10.97       | 22.20      | 23.92        | 4.8 | 0.88      |
| D        | 0.68 | 25.43       | 19.29      | 23.19        | 4.3 | 1.47      |
| E        | 0.88 | 31.52       | 18.28      | 23.99        | 3.5 | 0.42      |
| F        | 0.79 | 20.45       | 19.29      | 22.47        | 4.9 | 0.50      |
| G        | 0.78 | 33.33       | 16.01      | 20.52        | 3.4 | 0.47      |
| J        | 0.76 | 12.62       | 19.51      | 21.33        | 4.0 | 0.26      |
| J+K1     | 0.62 | 25.88       | 16.72      | 20.24        | 2.4 | 0.25      |
| K1       | 0.69 | 12.46       | 18.81      | 20.54        | 4.8 | 0.42      |
| K2       | 0.64 | 16.75       | 17.42      | 19.44        | 3.6 | 0.56      |
| WT AVG*  | 0.70 | 26.23       | 17.11      | 20.74        | 3.2 | 0.37      |

\* WT AVG DERIVED FROM RESERVES IN THE MARCH 1987, "TRANSFER AREA GEOLOGICAL REPORT", USING TONNES OF WET CLEAN COAL FOR SEAMS F, G, J+K1 AND K2 ONLY.

Note: Adit data is not included

**Appendix 2.1**  
**1989 Geological Report**  
**Drill Core and Adit Analysis**

**Appendix 2.1.1**  
**Transfer and Grizzly**

The 894 pages following this page contain coal quality data and remain confidential under the terms of the *Coal Act Regulation*, Section 2(1). They have been removed from the public version.

[http://www.bclaws.ca/EPLibraries/bclaws\\_new/document/ID/freeside/10\\_251\\_2004](http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_251_2004)