GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 611

QUINTETTE COAL LIMITED

1977 GEOLOGICAL ASSESSMENT REPORT

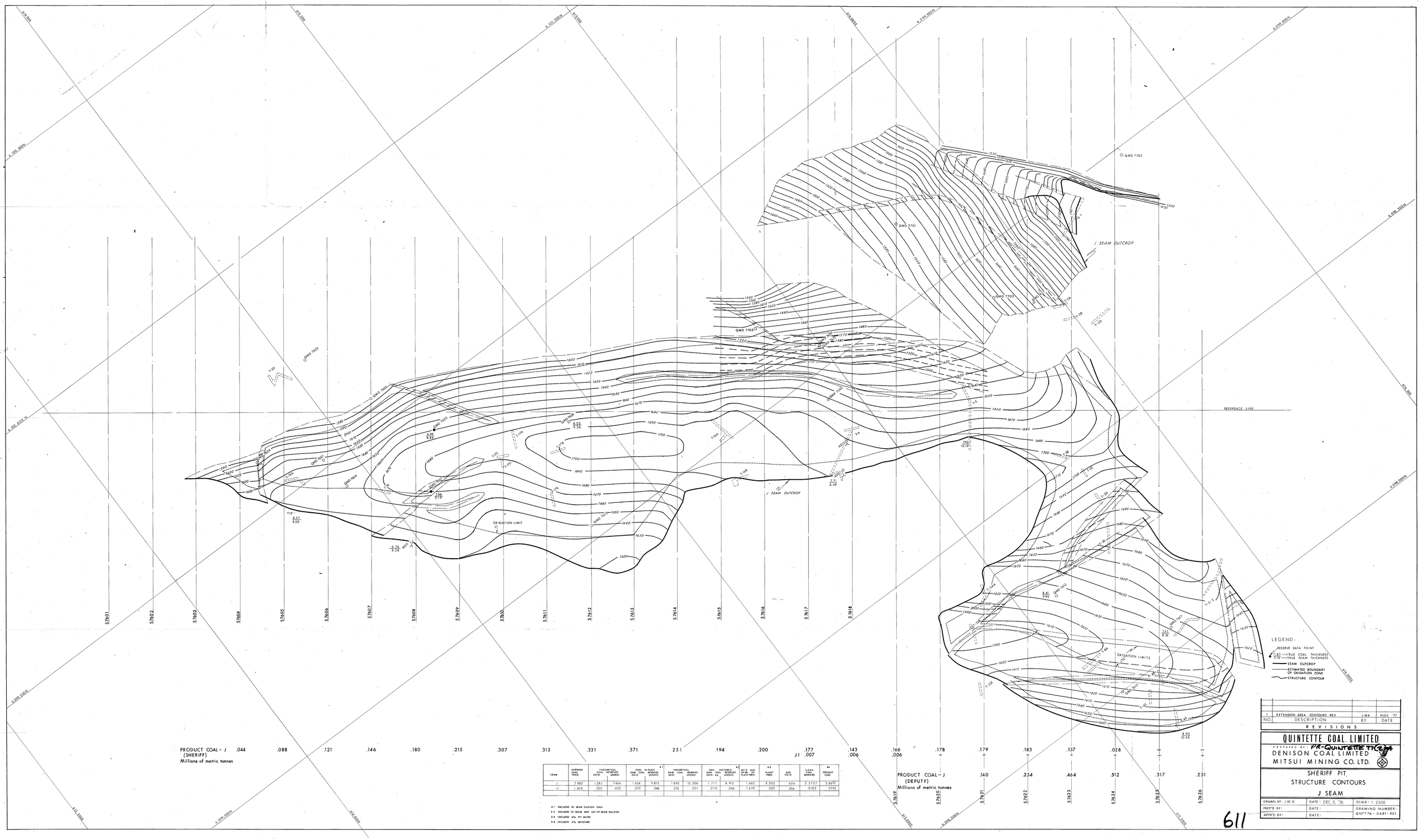
JANUARY 1978

BOX 2 OF 2

RECEIVED and RECORDED JAN 13 1978

OPEN FILE

DR-QUINTETTE 77 (2)A



SEAM	AVERAGE TRUE THICK.	THEORETICAL COAL RESERVES OXIDIZ.	THEORETICAL COAL RESERVES UNOXID.	SEQ. IN-PLACE RAW COAL RESERVES OXIDIZ.	SEQ. IN-PLACE RAW COAL RESERVES UNOXID. #1	THEORETICAL RAW COAL RESERVES GRVE.	THEORETICAL RAW COAL RESERVES UNOXID.	SEQ. FACTORED RAW COAL RESERVES GRVE. #2	SEQ. FACTORED RAW COAL RESERVES UNOXID. #2	30% AND 30% PLANT-FEED	#3 PLANT FEED	AVG. YIELD	CLEAN COAL RESERVES	#4 PRODUCT COAL
J	7.983	1.383	7.464	1.804	9.815	1.895	10.306	1.711	8.912	1.465	8.502	.636	5.5757	5.8691
J1	1.400	.005	.023	.010	.048	.010	.051	.010	.046	1.670	.043	.426	.0183	.0192

#1 INCLUDES IN SEAM DILUTION ONLY
#2 INCLUDES IN SEAM AND OUT OF SEAM DILUTION
#3 INCLUDES 6% PIT WATER
#4 INCLUDES 5% MOISTURE

NO.	DESCRIPTION	BY	DATE
1	EXTENSION AREA CONTOURS REV	J.W.K	NOV '77

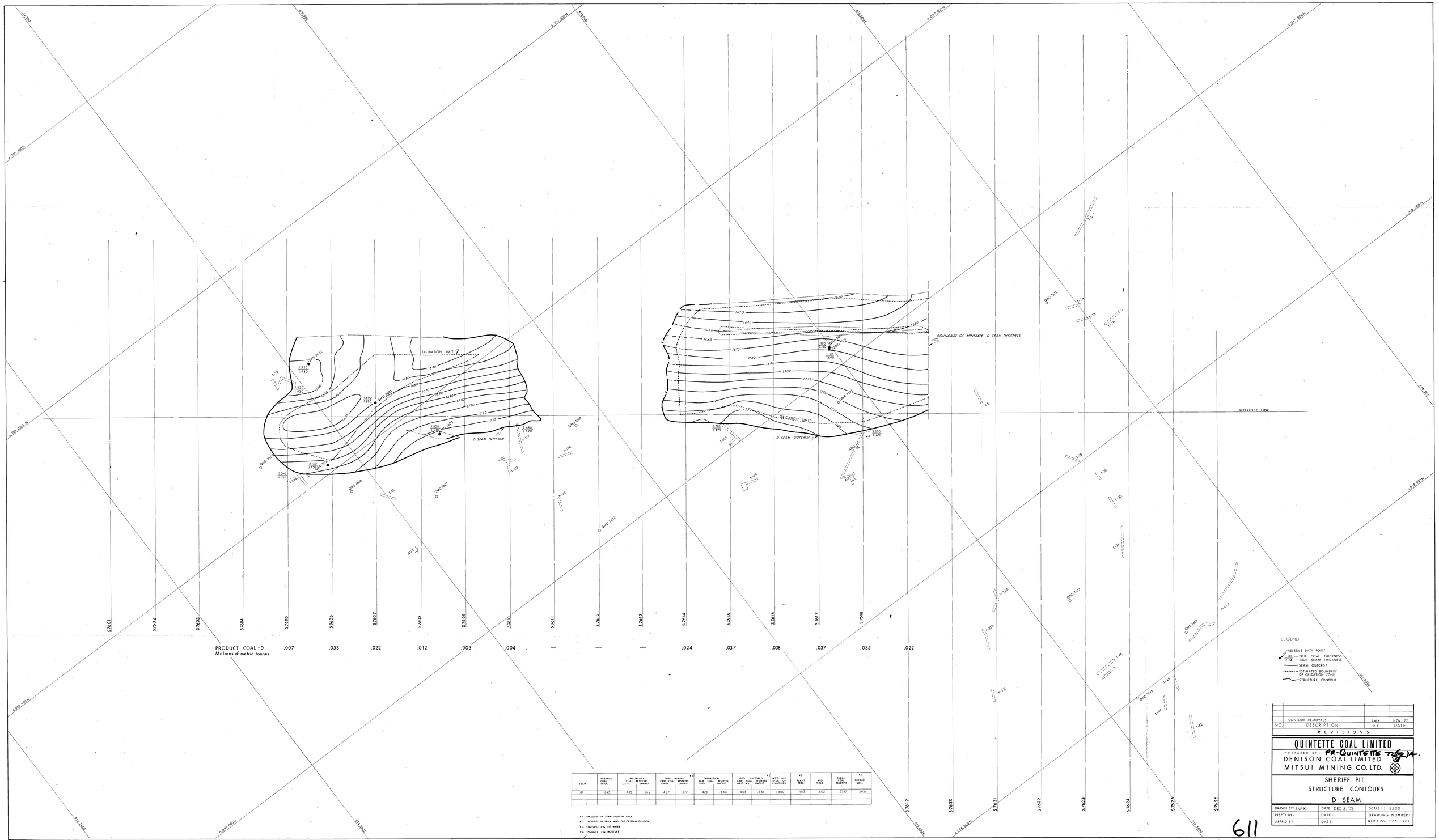
REVISIONS

QUINTETTE COAL LIMITED
PREPARED BY PR-QUINTETTE 77 (CA)
DENISON COAL LIMITED
MITSUI MINING CO. LTD.

SHERIFF PIT
STRUCTURE CONTOURS
J SEAM

DRAWN BY: J.W.K	DATE: DEC 3, '76	SCALE: 1:2500
PREP'D BY:	DATE:	DRAWING NUMBER: QNT776 - 0681 - R01
APP'D BY:	DATE:	

611



SEAM	AVERAGE COAL THICK.	THEORETICAL COAL RESERVES O.B.I.D.	THEORETICAL COAL RESERVES UNO.B.I.D.	IN PLACE RAW COAL O.B.I.D.	IN PLACE RAW COAL UNO.B.I.D.	#1 THEORETICAL RAW COAL O.B.I.D.	#1 THEORETICAL RAW COAL UNO.B.I.D.	GEO. RAW COAL O.B.I.D. #3	#2 FACTORED RESERVES UNO.B.I.D.	#2 WT'D AVG. SP.GR. OF PLANT FEED	#3 PLANT FEED	AVG. YIELD	CLEAN COAL RESERVES	#4 PRODUCT COAL
D	1.695	935	362	407	519	428	545	405	486	1.400	463	.602	2787	2934

#1 INCLUDES IN SEAM DILUTION ONLY
#2 INCLUDES IN SEAM AND OUT OF SEAM DILUTION
#3 INCLUDES 6% PIT WASTE
#4 INCLUDES 5% MOISTURE

NO.	DESCRIPTION	BY	DATE
1	CONTOUR REMOVALS	J.W.K.	NOV. 77

REVISIONS

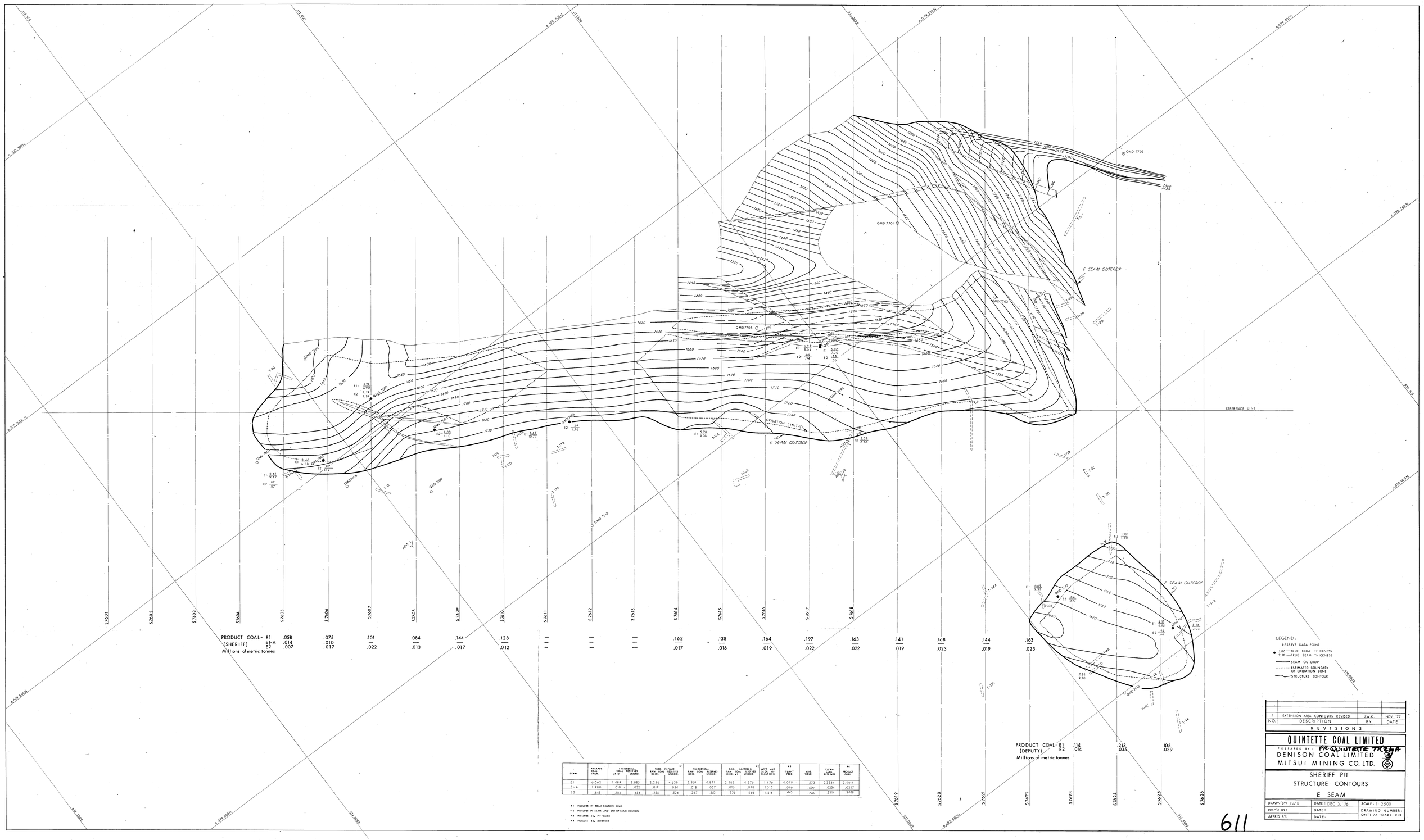
QUINTETTE COAL LIMITED

PREPARED BY: PR-QUINTETTE 7/6/76

DENISON COAL LIMITED
MITSUI MINING CO. LTD.

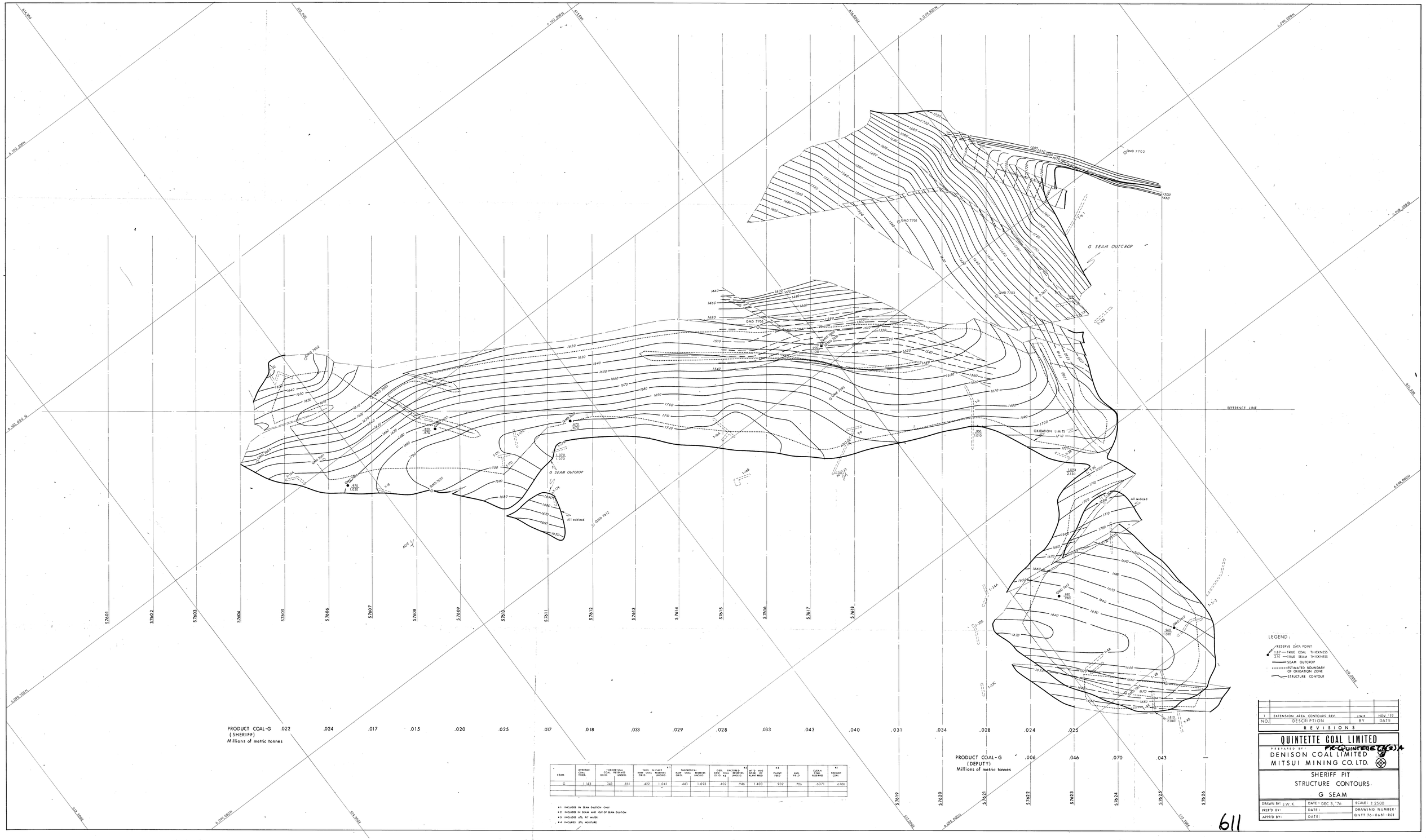
SHERIFF PIT
STRUCTURE CONTOURS
D SEAM

DRAWN BY: J.W.K.	DATE: DEC. 3, '76	SCALE: 1:2500
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	QNTT 76-0681-R01



SEAM	AVERAGE COAL THICK.	THEORETICAL COAL RESERVES GRID.	THEORETICAL COAL RESERVES UNGRID.	THEO. IN-PLACE RAW COAL GRID.	THEO. IN-PLACE RAW COAL UNGRID.	#1 THEORETICAL RAW COAL RESERVES GRID.	#1 THEORETICAL RAW COAL RESERVES UNGRID.	#2 GRID. FACTORED RAW COAL RESERVES GRID. #3	#2 GRID. FACTORED RAW COAL RESERVES UNGRID.*	#3 WT'D AVG SPLIT OF PLANT FEED	#3 PLANT FEED	AVG. YIELD	CLEAN COAL RESERVES	#4 PRODUCT COAL
E1	6.062	1.489	3.085	2.236	4.639	2.369	4.871	2.182	4.276	1.476	4.079	.573	2.3384	2.6014
E1-A	1.980	.010	.022	.017	.034	.018	.037	.016	.048	1.315	.046	.509	.0234	.0247
E2	.843	.184	.454	.254	.526	.267	.553	.236	.466	1.414	.445	.745	.3314	.3488

#1 INCLUDES IN SEAM DILUTION ONLY
#2 INCLUDES IN SEAM AND OUT OF SEAM DILUTION
#3 INCLUDES 6% PIT WATER
#4 INCLUDES 5% MOISTURE



SEAM	AVERAGE COAL THICK.	THEORETICAL COAL RESERVES (GROSS)		THEO. IN-PLACE RAW COAL (GROSS)	#1 RESERVES (MODIFIED)	THEORETICAL RAW COAL (GROSS)	RESERVES (MODIFIED)	GEO. RAW COAL (GROSS)	#2 FACTORED RESERVES (MODIFIED)	MT'S AVG SEAM FOR PLANT FEED	#3 PLANT FEED	AVG. YIELD	CLEAN COAL RESERVES	#4 PRODUCT COAL
G	1.143	343	.831	492	1.041	443	1.093	402	.946	1.400	902	.706	.6371	.6706

#1 INCLUDES IN SEAM DILUTION ONLY
#2 INCLUDES IN SEAM AND OUT OF SEAM DILUTION
#3 INCLUDES 6% PIT WATER
#4 INCLUDES 5% MOISTURE

NO.	DESCRIPTION	BY	DATE
1	EXTENSION AREA CONTOURS REV.	J.W.K.	NOV. '77

REVISIONS

QUINTETTE COAL LIMITED

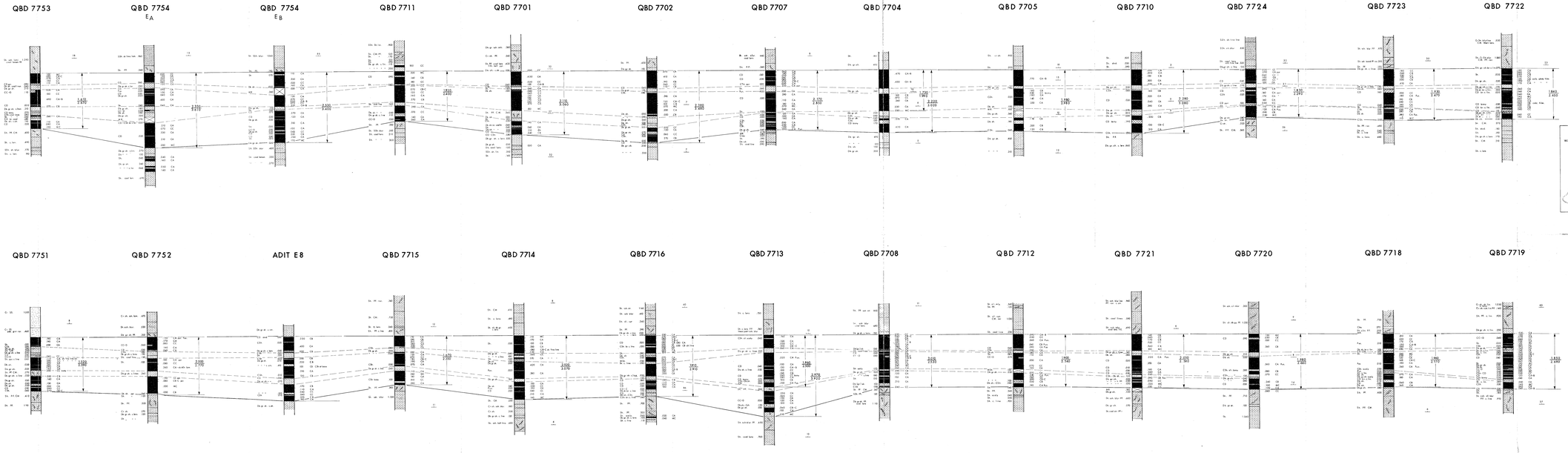
PREPARED BY: DENISON COAL LIMITED
MITSUI MINING CO. LTD.

PR-QUINTETTE-004

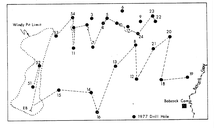
SHERIFF PIT
STRUCTURE CONTOURS
G SEAM

DRAWN BY: J.W.K.	DATE: DEC 3, '76	SCALE: 1:2500
PREP'D BY:	DATE:	DRAWING NUMBER: QNTT 76-0681-R01
APPR'D BY:	DATE:	

611



UPPER & LOWER CORRELATION SEQUENCES



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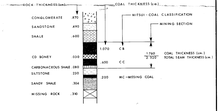


611

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

QUINTETTE COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED
MITSUI MINING CO. LTD.

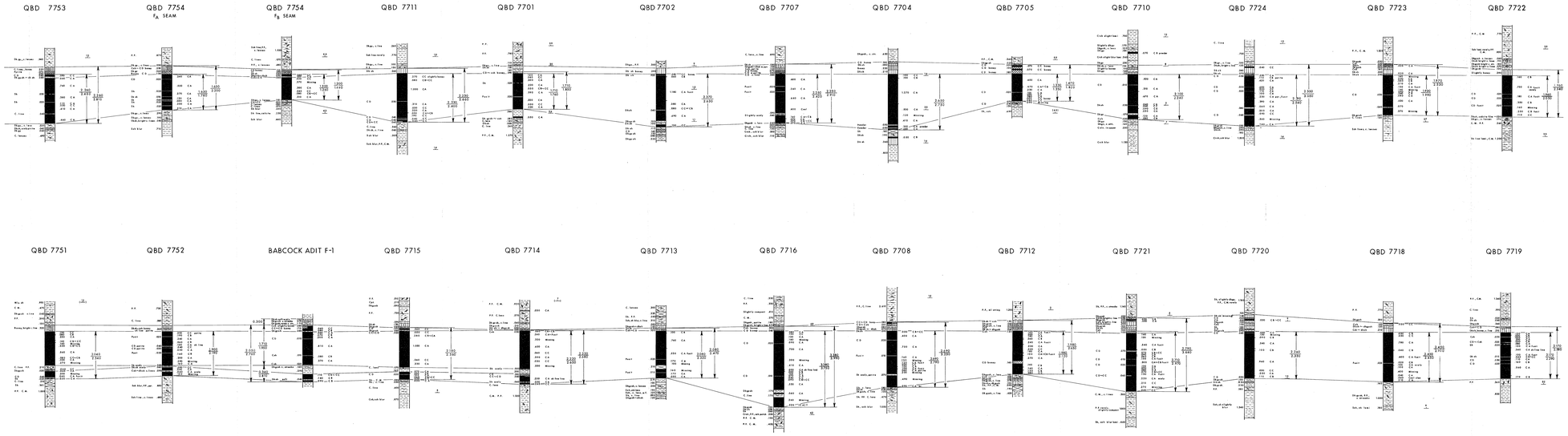
(re: QUINTETTE 7753)

BABCOCK MOUNTAIN
E SEAM CORRELATION

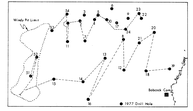
DRAWN BY: J.W.K.	DATE: DEC '77	SCALE: 1:50
PREPD BY:	DATE:	DRAWING NUMBER:
APPRD BY:	DATE:	MCK-77-5770-R-01

P/C

P/C



UPPER & LOWER CORRELATION SEQUENCES



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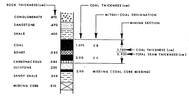


611

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

QUINTETTE COAL LIMITED

A JOINTLY OWNED PROJECT OF

DENISON MINES LIMITED

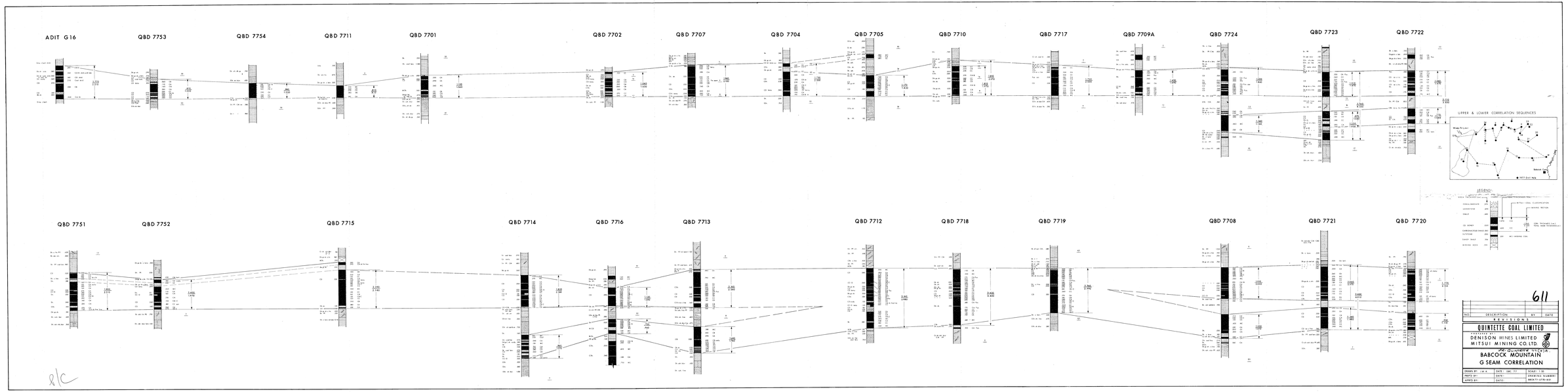
MITSUI MINING CO. LTD.

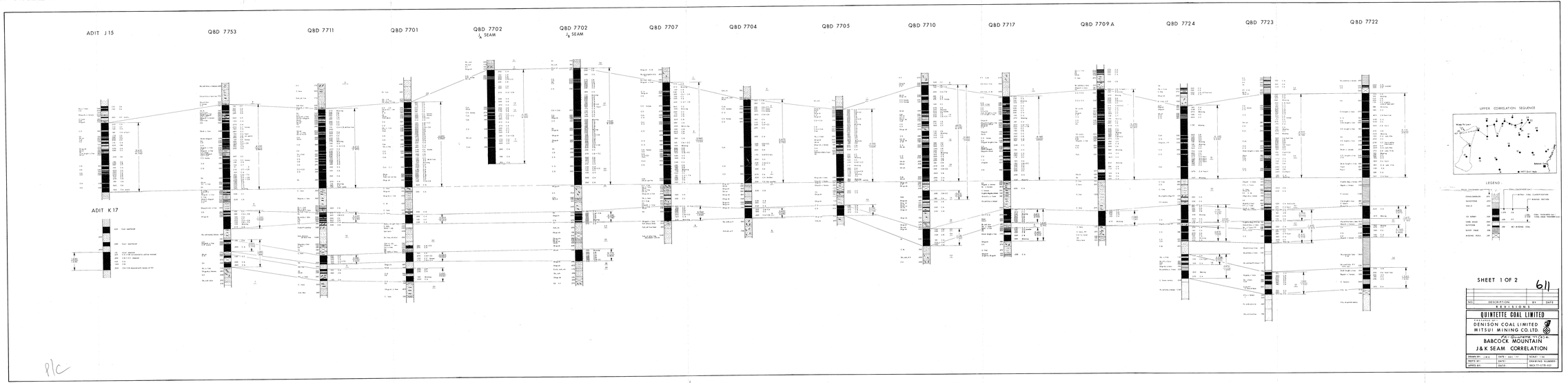
Pd. Quintette 75 (1) A

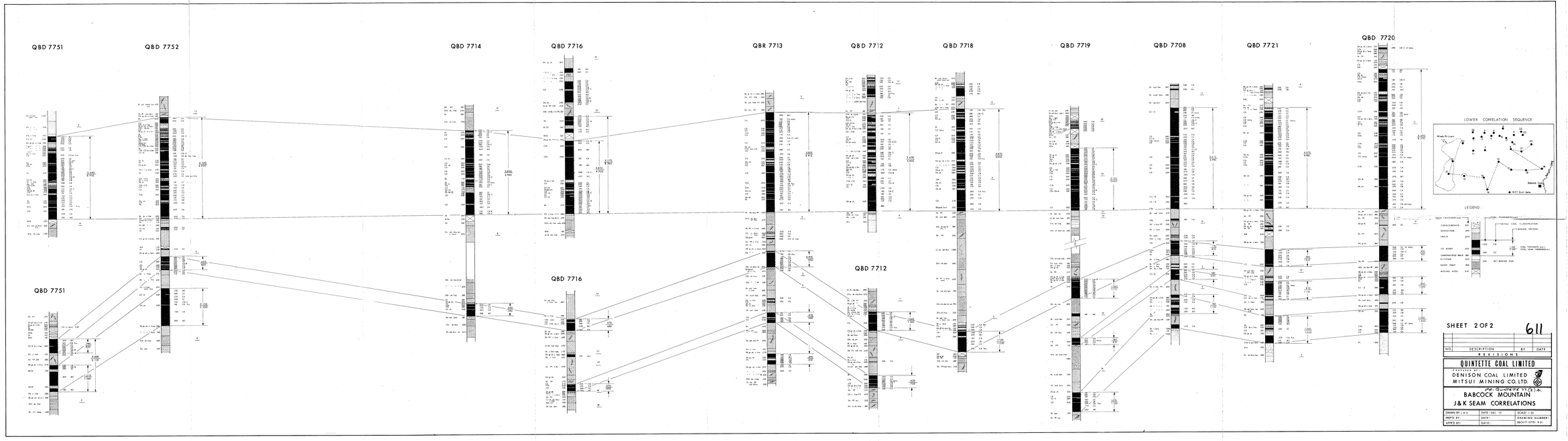
BABCOCK MOUNTAIN

F SEAM CORRELATION

DRAWN BY: R.L.S.	DATE: DEC. 77	SCALE: 1:200
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	BACK 77-0172-401


ADIT G16
QBD 7753
QBD 7754
QBD 7711
QBD 7701
QBD 7702
QBD 7707
QBD 7704
QBD 7705
QBD 7710
QBD 7717
QBD 7709A
QBD 7724
QBD 7723
QBD 7722
QBD 7751
QBD 7752
QBD 7715
QBD 7714
QBD 7716
QBD 7713
QBD 7712
QBD 7718
QBD 7719
QBD 7708
QBD 7721
QBD 7720
UPPER & LOWER CORRELATION SEQUENCES
LEGEND
611
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
DENISON MINES LIMITED
MITSUI MINING CO. LTD.
BABCOCK MOUNTAIN
G SEAM CORRELATION
DRAWN BY: J.M.K.
DATE: DEC. 77
SCALE: 1:50
DRAWING NUMBER
DATE:
DATE:


ADIT J15
QBD 7753
QBD 7711
QBD 7701
QBD 7702
J/4 SEAM
QBD 7702
J/8 SEAM
QBD 7707
QBD 7704
QBD 7705
QBD 7710
QBD 7717
QBD 7709 A
QBD 7724
QBD 7723
QBD 7722
ADIT K17
UPPER CORRELATION SEQUENCE
LEGEND
SHEET 1 OF 2
611
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PARTICIPANTS
DENISON COAL LIMITED
MITSUI MINING CO.LTD.
QUINTETTE PROJECT
BABCOCK MOUNTAIN
J&K SEAM CORRELATION
DRAWN BY: J.K.S. DATE: DEC. 1/91 SCALE: 1:50
PROF'D BY: DATE: DRAWING NUMBER:
APPD BY: DATE: BCU-91-2190-601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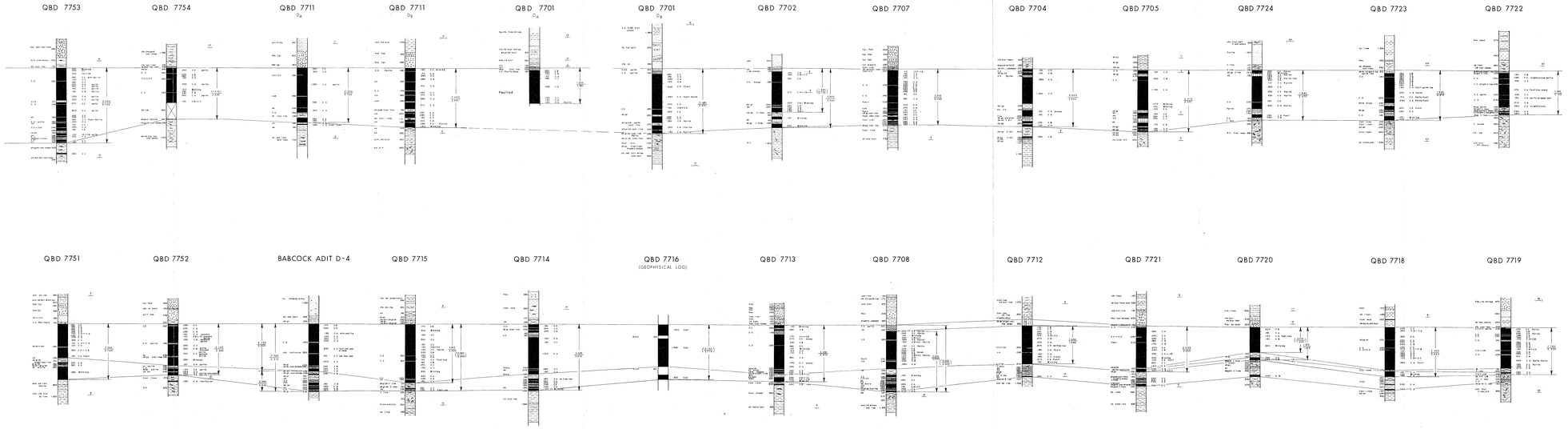
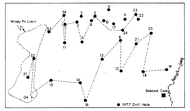
QBD 7716
QBR 7713
QBD 7712
QBD 7718
QBD 7719
QBD 7708
QBD 7721
QBD 7720
QBD 7751
QBD 7716
QBD 7712
LOWER CORRELATION SEQUENCE
LEGEND
SHEET 2 OF 2
611
NO.
DESCRIPTION
BY
DATE
REVISIONS
QUINTETTE COAL LIMITED
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
BABCOCK MOUNTAIN
J & K SEAM CORRELATIONS
DATE
SCALE
DRAWING NUMBER



UPPER & LOWER CORRELATION SEQUENCES



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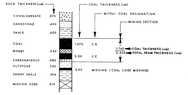

611

NO.	DESCRIPTION	BY	DATE
	REVISIONS		

QUINTETTE COAL LIMITED

A PARTNERSHIP OF:
DENISON MINES, LIMITED
MITSUI MINING CO. LTD.

BABCOCK MOUNTAIN
D SEAM CORRELATION

DRAWN BY: B.L.S.	DATE: NOV. 77	SCALE: 1:100	
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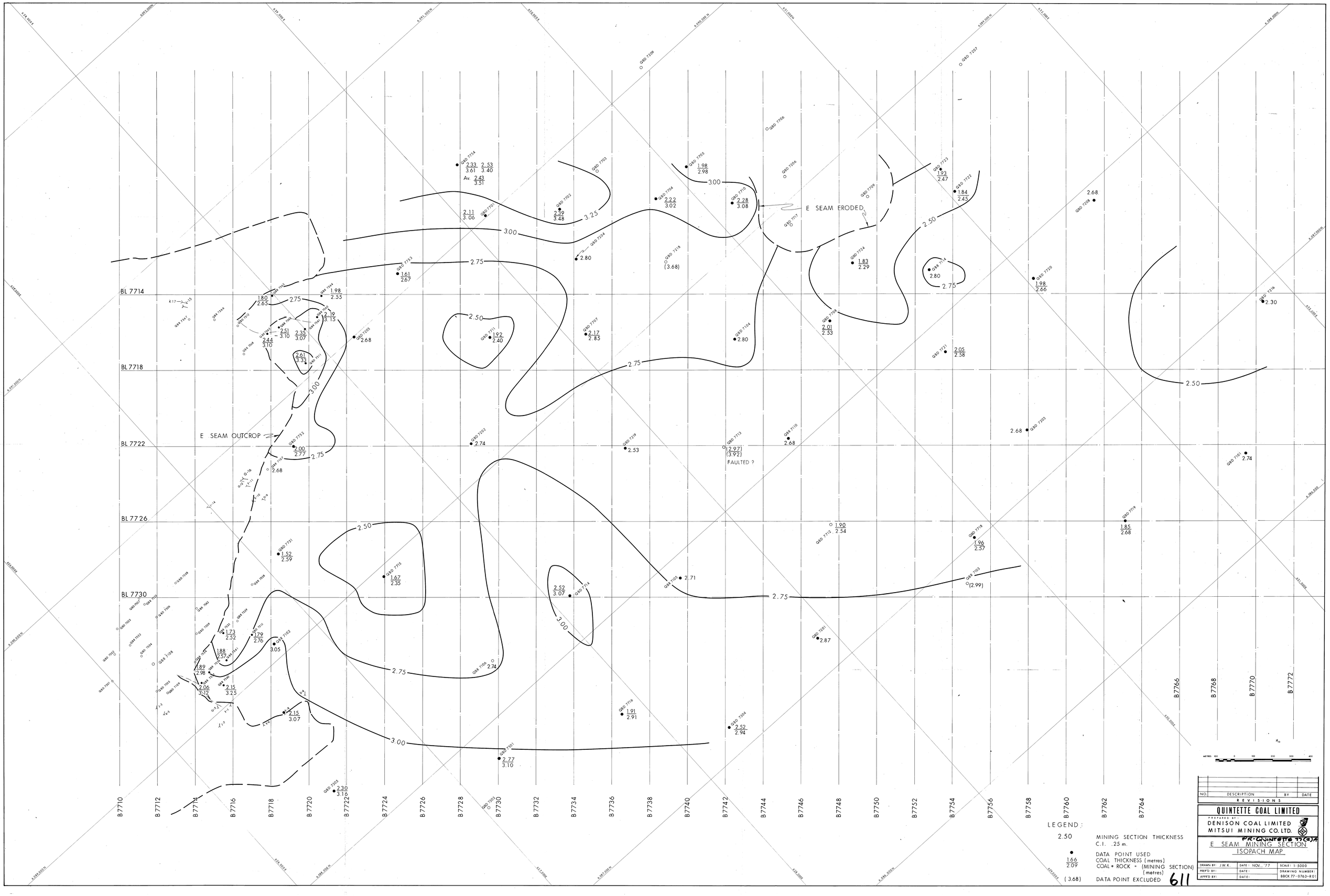
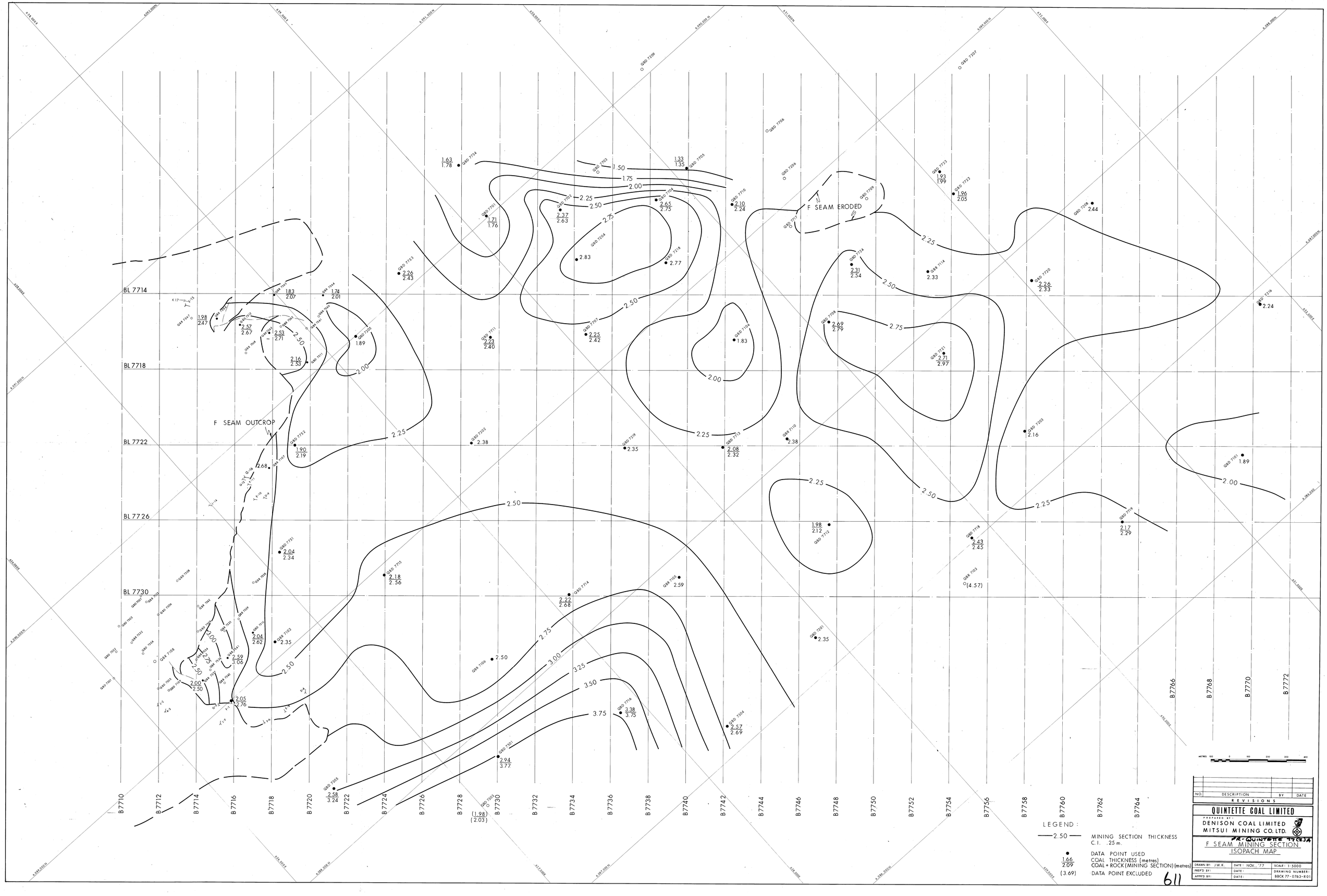
APPR'D BY:	DATE:		


BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
E SEAM ERODED
E SEAM OUTCROP
FAULTED ?
3.00
3.25
2.75
2.50
B7710
B7712
B7714
B7716
B7718
B7720
B7722
B7724
B7726
B7728
B7730
B7732
B7734
B7736
B7738
B7740
B7742
B7744
B7746
B7748
B7750
B7752
B7754
B7756
B7758
B7760
B7762
B7764
B7766
B7768
B7770
B7772
LEGEND:
2.50 MINING SECTION THICKNESS C.I. .25 m.
1.66 / 2.09 DATA POINT USED COAL THICKNESS (metres) COAL + ROCK = (MINING SECTION) (metres)
(3.68) DATA POINT EXCLUDED
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY:
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
PR-QUINTETTE 77(2)A
E SEAM MINING SECTION
ISOPACH MAP
DRAWN BY: J.W.K.
DATE: NOV., '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER:
APPR'D BY:
DATE:
BBCK 77-076-3-E01
611


BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
F SEAM OUTCROP
F SEAM ERODED
B7710
B7712
B7714
B7716
B7718
B7720
B7722
B7724
B7726
B7728
B7730
B7732
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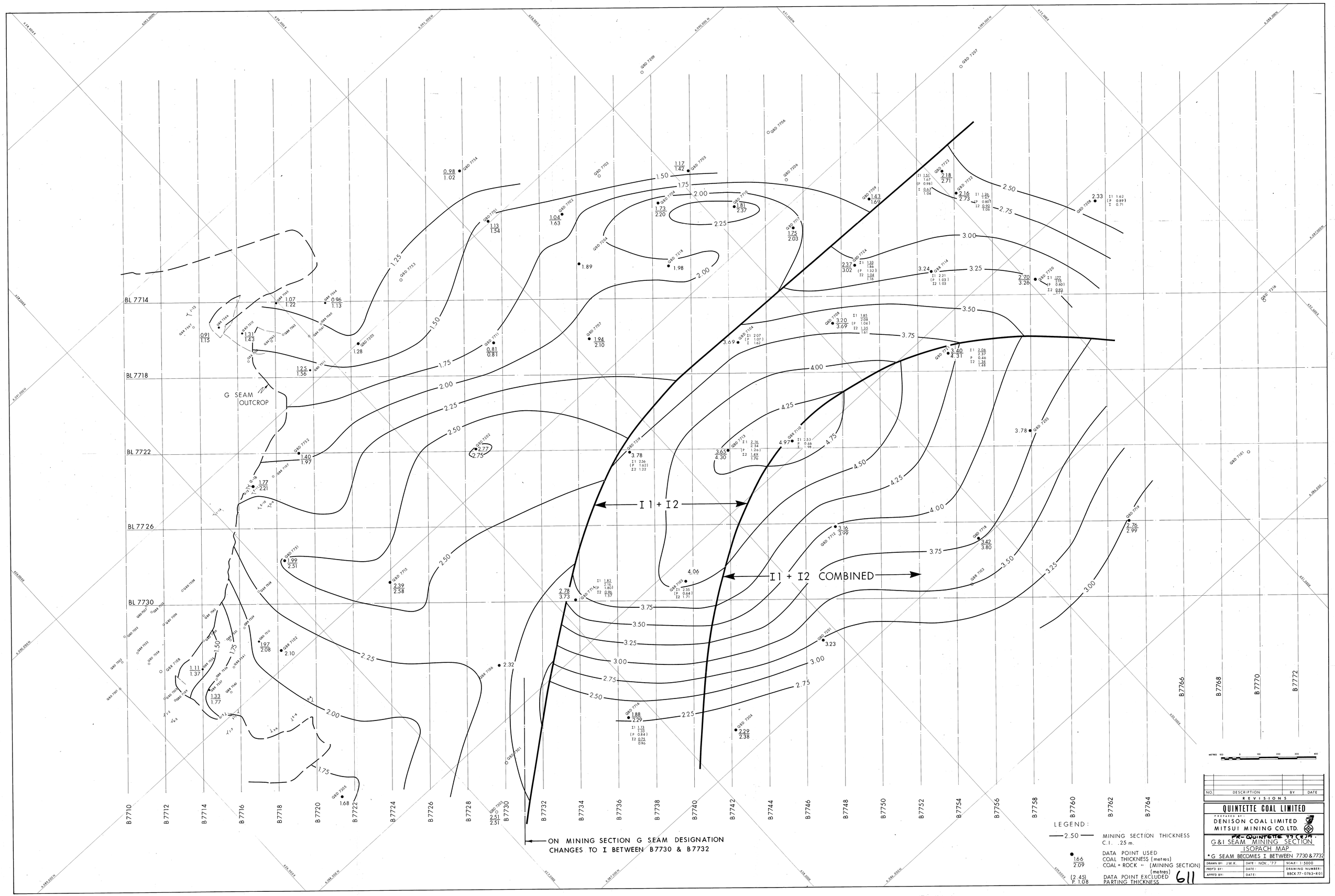
B7748
B7750
B7752
B7754
B7756
B7758
B7760
B7762
B7764
B7766
B7768
B7770
B7772
LEGEND :
2.50 MINING SECTION THICKNESS C.I. .25 m.
DATA POINT USED
1.66 / 2.09 COAL THICKNESS (metres) COAL + ROCK (MINING SECTION) (metres)
(3.69) DATA POINT EXCLUDED
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY:
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
F SEAM MINING SECTION
ISOPACH MAP
DRAWN BY: J.W.K.
DATE: NOV. '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER:
APPR'D BY:
DATE:
BBCK 77-0763-R01
611


BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
G SEAM OUTCROP
I1 + I2
I1 + I2 COMBINED
ON MINING SECTION G SEAM DESIGNATION CHANGES TO I BETWEEN B7730 & B7732
B7710
B7712
B7714
B7716
B7718
B7720
B7722
B7724
B7726
B7728
B7730
B7732
B7734
B7736
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B7742
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B7746
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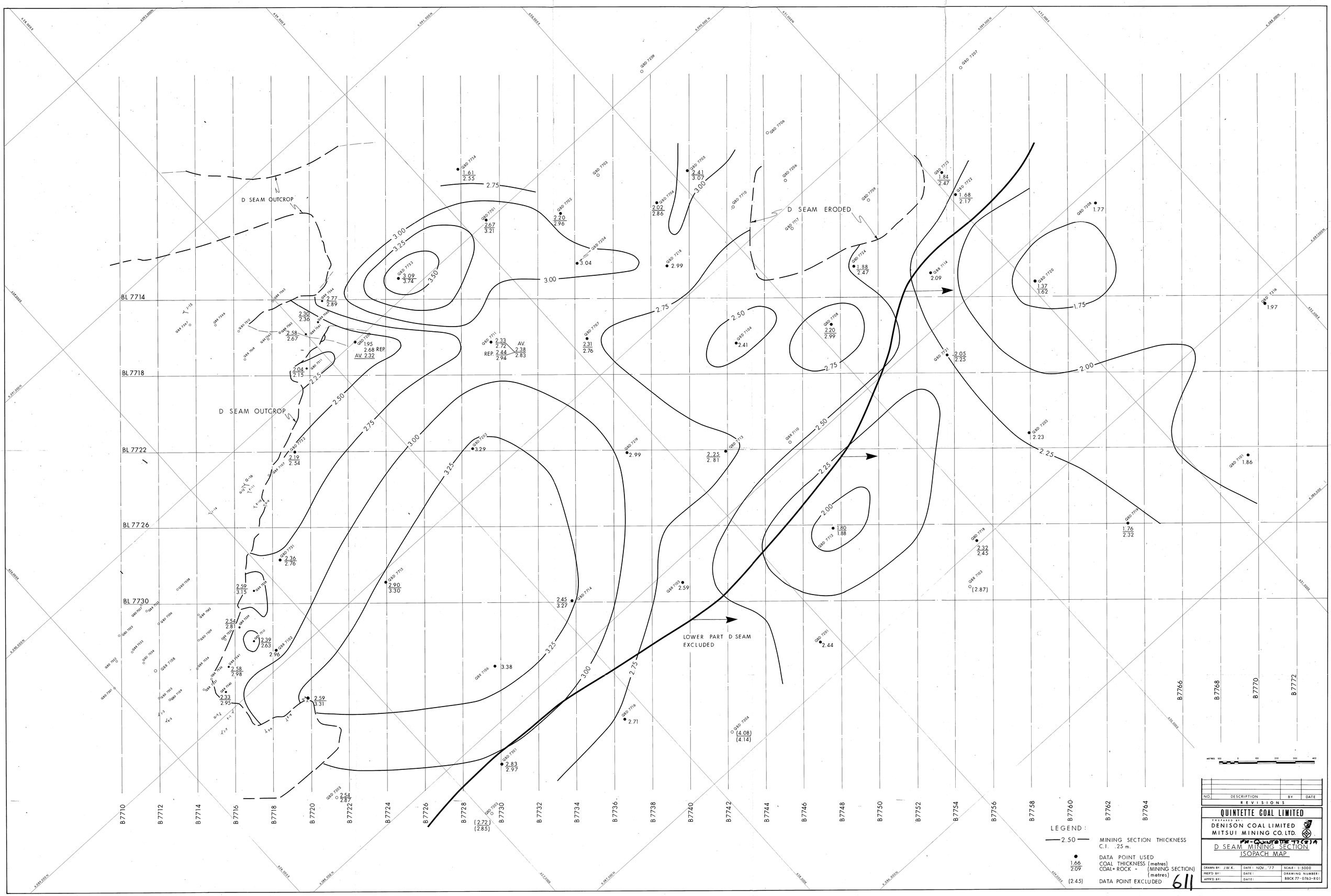
B7750
B7752
B7754
B7756
B7758
B7760
B7762
B7764
B7766
B7768
B7770
B7772
LEGEND:
2.50 MINING SECTION THICKNESS C.I. .25 m.
1.66 / 2.09 DATA POINT USED COAL THICKNESS (metres) COAL + ROCK " (MINING SECTION) (metres)
(2.45) / P. 1.08 DATA POINT EXCLUDED PARTING THICKNESS
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY:
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
PRE-QUINTETTE 77 (C.J.)
G&I SEAM MINING SECTION
ISOPACH MAP
*G SEAM BECOMES I BETWEEN 7730 & 7732
DRAWN BY: J.W.K.
DATE: NOV., '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER: BBCK 77-0763-R01
APP'D BY:
DATE:
611


D SEAM OUTCROP
D SEAM ERODED
D SEAM OUTCROP
LOWER PART D SEAM EXCLUDED
BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
B7710
B7712
B7714
B7716
B7718
B7720
B7722
B7724
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B7742
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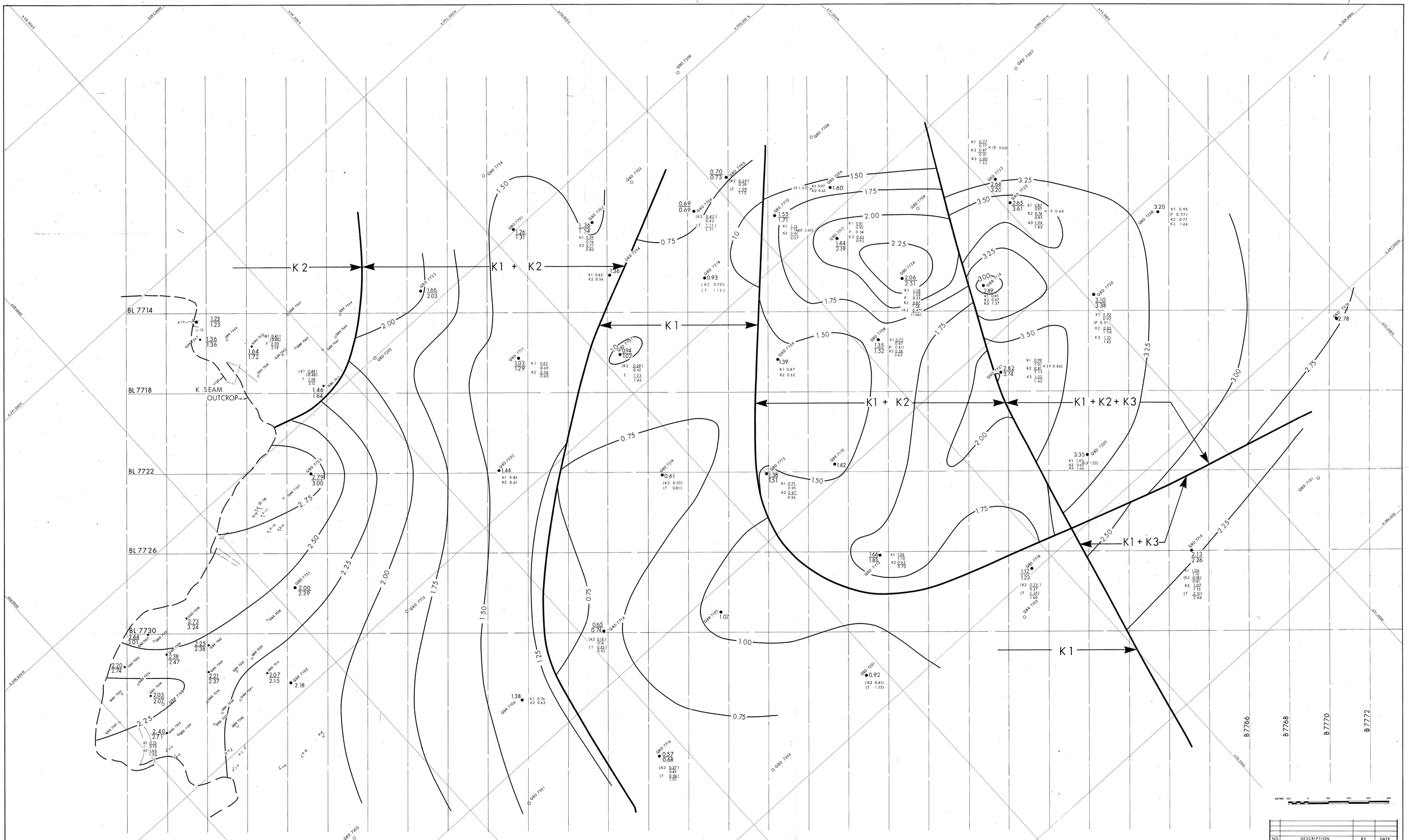
B7750
B7752
B7754
B7756
B7758
B7760
B7762
B7764
B7766
B7768
B7770
B7772
LEGEND:
2.50 MINING SECTION THICKNESS C.I. .25 m.
DATA POINT USED
1.66 COAL THICKNESS (metres)
2.09 COAL+ ROCK " (MINING SECTION) (metres)
(2.45) DATA POINT EXCLUDED
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY:
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
D SEAM MINING SECTION
ISOPACH MAP
DRAWN BY: J.W.K.
DATE: NOV., '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER: BBCK 77-0763-R01
APP'D BY:
DATE:
611



LEGEND:

—2.50— MINING SECTION THICKNESS C.I. .25 m.

1.66 / 2.09 DATA POINT USED COAL THICKNESS (metres) COAL+ROCK " (MINING SECTION) (metres)

(2.45) / P. 0.68 DATA POINT EXCLUDED PARTING THICKNESS

NO.	DESCRIPTION	BY	DATE

REVISIONS

QUINTETTE COAL LIMITED

PREPARED BY:
DENISON COAL LIMITED
MITSUI MINING CO. LTD.

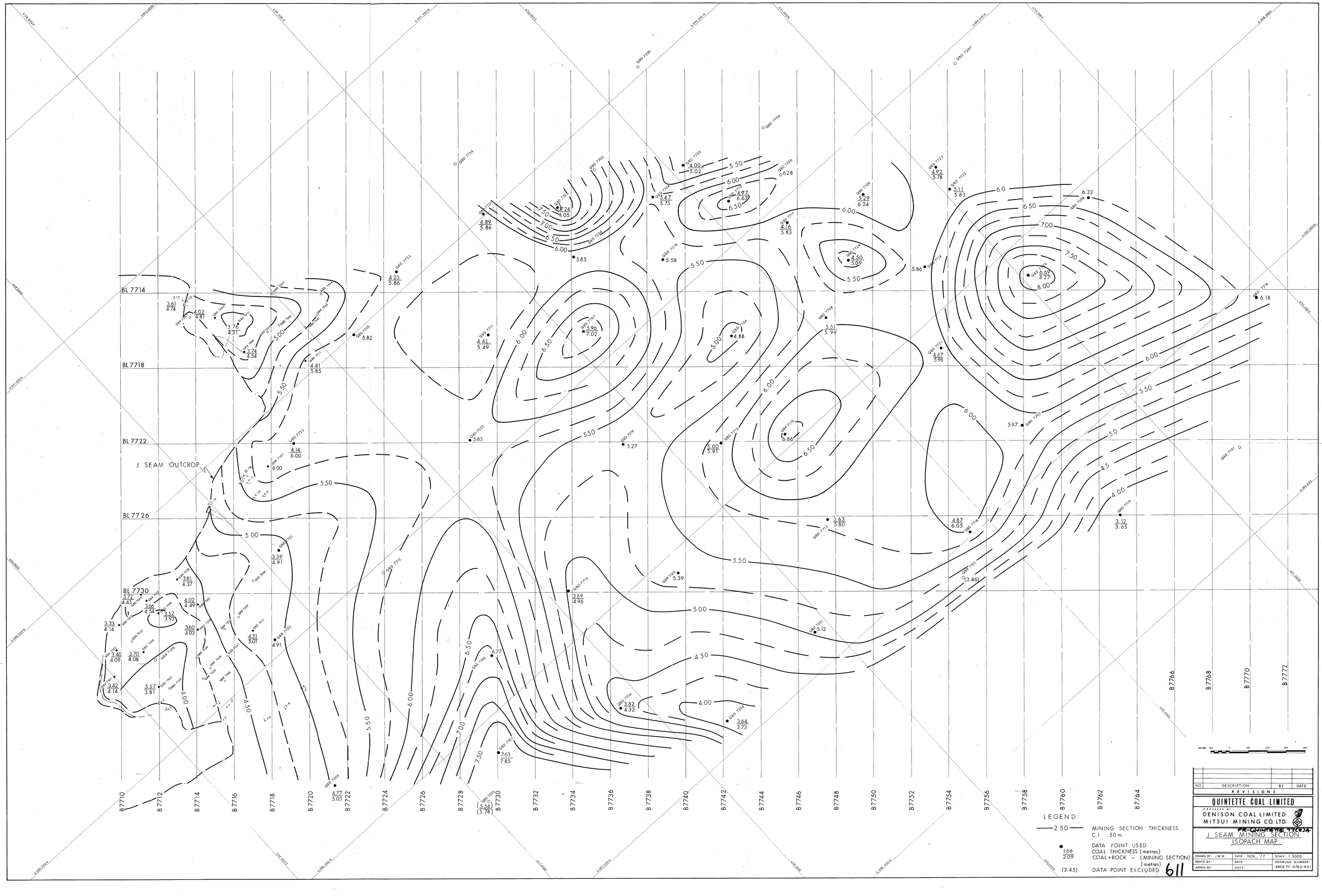
PR-QUINTETTE 11(C)A

K SEAM MINING SECTION
ISOPACH MAP

* INCLUDES K1, K2 AND/OR K3

DRAWN BY: J.W.K.	DATE: NOV., '77	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	BBCK 77-0763-R01

611


BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
J SEAM OUTCROP
B7710
B7712
B7714
B7716
B7718
B7720
B7722
B7724
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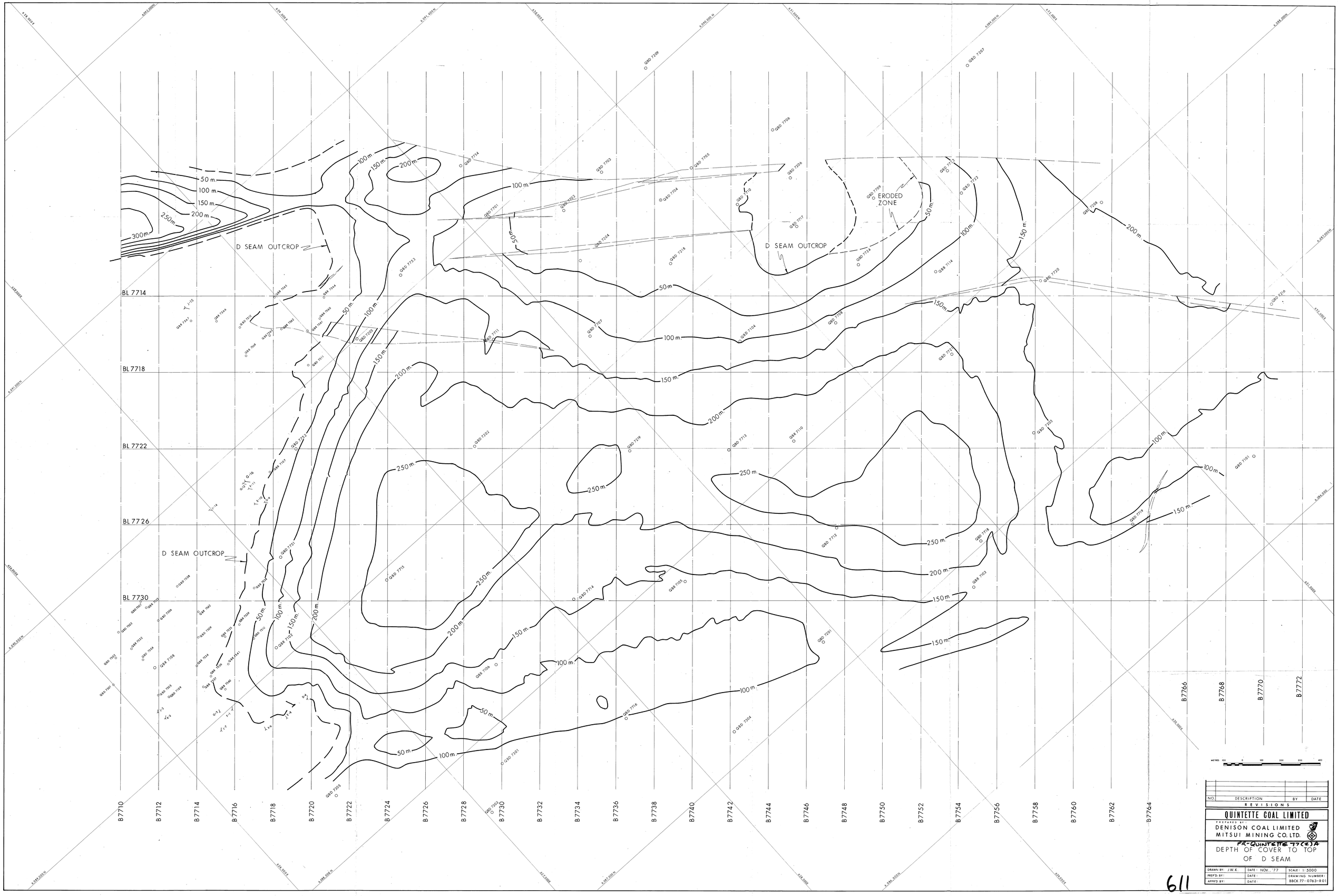
B7750
B7752
B7754
B7756
B7758
B7760
B7762
B7764
B7766
B7768
B7770
B7772
LEGEND:
2.50 MINING SECTION THICKNESS C.I. .50 m.
1.66 / 2.09 DATA POINT USED COAL THICKNESS (metres) COAL+ROCK " (MINING SECTION) (metres)
(3.45) DATA POINT EXCLUDED
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
PACIFIC TRIDENT
J SEAM MINING SECTION
ISOPACH MAP
DRAWN BY: J.W.K.
DATE: NOV., '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER:
APPR'D BY:
DATE:
BBCK 77-0763-R01
611


D SEAM OUTCROP
D SEAM OUTCROP
D SEAM OUTCROP
ERODED ZONE
BL 7714
BL 7718
BL 7722
BL 7726
BL 7730
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B 7750
B 7752
B 7754
B 7756
B 7758
B 7760
B 7762
B 7764
B 7766
B 7768
B 7770
B 7772
METRES 100 0 100 200 300 400
NO. DESCRIPTION BY DATE
REVISIONS
QUINTETTE COAL LIMITED
PREPARED BY
DENISON COAL LIMITED
MITSUI MINING CO. LTD.
PR-QUINTETTE 77(C)A
DEPTH OF COVER TO TOP OF D SEAM
DRAWN BY: J.W.K.
DATE: NOV., '77
SCALE: 1:5000
PREP'D BY:
DATE:
DRAWING NUMBER:
APPR'D BY:
DATE:
BBCK 77-0763-R01

611