

PR - SAXON 78 (1) A.

1978 EXPLORATION ASSESSMENT REPORT

FOR

SAXON COAL LIMITED

OPEN FILE

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DENISON MINES LIMITED
VANCOUVER, B.C.

December 1978

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**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

00 629

PREFACE

The 1978 Saxon Exploration Assessment Report is comprised of two parts: the main text which is a description of some of the more physical aspects of the programme and various appendices which comprise an addendum to the geology of the Saxon East area.

Volume I contains the main text of the report along with Appendices I and II: the written portion of the geological addendum and a set of maps, cross-sections, correlation charts and columnar logs, respectively. Appendix III comprises the descriptive geological logs of the diamond drill and rotary drill holes which are presented in Volume II, Parts A and B. Volume III contains the geophysical logs which form Appendix IV.

TABLE OF CONTENTS - VOLUME I

	<u>Page</u>
I INTRODUCTION	1
2 GEOLOGICAL MAPPING	2
3 SURVEYING	3
4 DIAMOND DRILLING	6
5 ROTARY DRILLING	7
6 GEOPHYSICAL LOGGING	8
7 COAL ANALYSIS	9
8 TRENCHING	12
9 ROAD CONSTRUCTION AND MAINTENANCE	13
10 FIELD CAMP	14
11 RECLAMATION	15
12 ACKNOWLEDGEMENTS	16

LIST OF TABLES - VOLUME I

3.1 SURVEY CONTROL POINTS used for the SAXON 1978 SURVEY PROGRAMME	4
3.2 SAXON 1978 DRILL HOLE COORDINATES	5

LIST OF FIGURES - VOLUME I

7.1 SAXON DRILL CORES 1978 - STANDARD ANALYSIS PROCEDURE	10
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LIST OF FIGURES (cont)

	<u>Page</u>
7.2 SAXON DRILL CORES 1978 - ANALYSIS PROCEDURE FOR POOR RECOVERY SAMPLES	11

LIST OF APPENDICES

I	GEOLOGICAL SUMMARY	Volume I
II	MAPS, CROSS-SECTIONS, CORRELATION CHARTS AND COLUMNAR LOGS	Volume I
III	DESCRIPTIVE LOGS (PARTS A and B)	Volume II
IV	GEOPHYSICAL LOGS	Volume III

1 INTRODUCTION

The 1978 Saxon field programme was carried out between the beginning of June and the end of September.

The opening and maintenance of the main access road to the Saxon camp commenced on June 2 and a 50-man camp was operational by June 19. The exploration programme was confined to diamond and rotary drilling, mapping and hand trenching within the Saxon East area while reclamation was undertaken in areas of disturbance related to this programme and earlier exploration activities. Drilling ceased on September 16 while remaining geological activities concluded on September 20. Reclamation continued until September 25 when the camp was closed.

2 GEOLOGICAL MAPPING

The geological mapping undertaken during the 1978 Saxon exploration project was accomplished by four 2-man teams supported by a Hughes 500 helicopter. The mapping was primarily within the Saxon East area. Data collection was undertaken at a scale of 1:2500 and this information was later transferred to 1:5000 scale base maps. Control of traverse lines was achieved using chain and compass, corrected for slope variation. Data points were plotted directly onto 1:2500 maps in the field by orienting the maps with a Silva compass on a portable map board. Points such as creek confluences or survey control points shown on the base maps were used to locate the beginning and end of each traverse.

A compilation of all the geological mapping carried out during 1978 and previous years was prepared at a scale of 1:5000 for Saxon East. This map plus a 1:25,000 scale regional geological compilation is presented in the pocket which accompanies this volume.

3 SURVEYING

During late summer, a 2-man crew using truck and helicopter undertook survey control work throughout the Saxon East area. Points surveyed included all 1978 drill holes with occasional "check" surveys on pre-1978 holes. In addition to this, eleven new survey control points were established in the Saxon East area. Survey control points used in the survey programme are presented in Table 3.1 .

Drill holes and local survey control points were tied-in to existing Provincial Triangulation Stations. Instruments used for the surveying included a Hewlett-Packard 3808 for measurements of angles and short distances and, theodolites and a Tellurometer CA 1000 for the measurements of angles and longer distances respectively. Vertical angles were measured simultaneously at both ends of the measured distance.

Coordinates and elevations for diamond and rotary drill holes are given in Table 3.2 . All coordinates are on the Universal Transverse Mercator Grid.

TABLE 3.1
SURVEY CONTROL STATIONS
USED FOR THE SAXON 1978 SURVEY PROGRAMME

<u>Station</u>	<u>Elevation</u>	<u>Northings</u>	<u>Eastings</u>
"CAP" (#2373)	2306.12	6017254.45	686893.44
Bdy Mon 61-4		6019574.39	695266.62
HV6	1869.2	6023766.6	690017.7
SC6	1462.7	6022549.4	689354.7
SC13	1673.53	6023004.76	689791.10
610	1940.27	6020763.87	693997.85
64C	1560.40	6015803.22	692912.89
60C	1457.86	6019383.28	693933.11
SC8	1440.28	6019348.45	693795.56
63C	1979.13	6019539.65	695172.43
61C	1722.71	6020754.23	693039.84
#70	1644.60	6019680.85	694361.30
62C	1644.19	6019680.76	694361.24
86C	1646.83	6023115.51	689205.24

Note: All coordinates are referred to the Universal Transverse Mercator Grid.

Elevations are in metres.

TABLE 3.2

1978 SAXON DRILL HOLE COORDINATES

Diamond Drill Holes

<u>Hole</u>	<u>Elevation</u>	<u>Northings</u>	<u>Eastings</u>
SD 7801	1302.85	6021128.86	691724.60
SD 7802	1417.24	6022286.80	689828.63
SD 7803	1723.11	6020759.79	693037.49
SD 7804	1747.95	6020307.29	693529.16
SD 7805	1283.42	6021311.65	691229.36
SD 7806	1644.01	6019674.15	694354.52
SD 7807	1647.20	6023121.86	689208.29
SD 7808	1290.70	6020661.22	691926.62
SD 7809	1617.43	6023616.27	688450.99

Rotary Drill Holes

SR 0178	1320.30	6021406.90	691720.12
SR 0278	1275.91	6021492.47	691563.05
SR 0378	1271.95	6021582.54	691571.11
SR 0478	1463.89	6021318.45	692279.90
SR 0578	1457.59	6021268.86	692290.10
SR 0678	1363.92	6021262.85	691839.36
SR 0778	1367.17	6021298.82	691916.49
SR 0878	1357.14	6021464.23	691916.54
SR 0978	1235.24	6021917.24	691007.12
SR 1078	1238.71	6021529.49	691375.01
SR 1178	1404.13	6021166.48	692150.53
SR 1278	1362.55	6021367.66	692066.65
SR 1378	1394.83	6021192.19	692078.56
SR 1478	1445.22	6021153.40	692260.74

4. DIAMOND DRILLING

Diamond drilling was undertaken by Canadian Longyear Drilling Limited of Vancouver, British Columbia. All drilling was carried out in the Saxon East area where a total of 3474 metres (H.Q.) was drilled. The drilling was performed by two skid-mounted Longyear 44 wireline rigs, complete with 10 foot and 5 foot triple tube core barrels. The rigs were equipped with lightweight skids and could be easily dismantled to facilitate their being moved by helicopter as well as tractors.

All holes were cased to bedrock, completely cored and were geophysically logged. The drill core was logged by a geologist who recorded basic lithologies, sedimentary structures, fossiliferous zones and identified marker horizons and any structural features, particularly folds and faults. Coal seams along with roof and floor lithologies were logged in great detail with close reference to the detailed geophysical logs. Descriptive core logs are presented in Appendix II (Parts A and B).

Diamond drill hole locations are shown on the detailed geology map and structure contour maps which are presented in the pocket, along with drafted columnar logs.

5 ROTARY DRILLING

Rotary drilling was carried out by Garritty and Baker Drilling Company of Edmonton, Alberta. The drilling was confined to a small area with most of the holes being located just to the southeast of the camp. A "Mayhew 1000 Special" rotary drill was adapted to utilize a Mission Megadrill downhole hammer while support for the drill rig was provided by Westinghouse LeRoy Compressor and a 750 gallon Watercarrier. The drill, compressor, and water tank were each mounted on "R.N. 110 Nodwell" tracked vehicles.

A total of 929 metres was drilled and all holes apart from SR 1178, which was abandoned due to poor hole conditions, were geophysically logged. A complete sequence of cuttings were obtained from all but three holes, although the coal cuttings from these holes were retained. The cuttings were logged for basic lithologies; descriptive core logs are presented in Appendix II (Part B).

Rotary drill hole locations are shown on the detailed geology map and structure contour maps which are presented in the pocket, along with drafted columnar logs.

6 GEOPHYSICAL LOGGING

The geophysical logging of drill holes was carried out by B.P.B. Instruments Limited of Calgary, Alberta. A sidewall multisonde, capable of producing gamma-ray, long-spacing density, bed resolution density and caliper logs was used together with a sonde for high resolution density logs. In addition focussed electric and sonic logs were run in a few selected diamond and rotary drill holes. All log information was stored in digital form on cassette tape for subsequent reprocessing onto computer tape into a time and depth format.

All drill holes, except SR 1178, were logged at 5 centimetres to 10 metres (1:200) general scale for long-spacing density, gamma ray, caliper and for some drill holes focussed electric and sonic. This was supplemented by detailed logs run at 5 centimetres to 1 metre (1:20) for long-spacing density, bed resolution density, gamma ray and caliper over economic coal seam intervals. Water levels were recorded and logging was not carried out through the drill rods unless *poor hole conditions* required it. The geophysical logs for holes drilled in the 1978 Saxon exploration programme are presented in Appendix III.

7 COAL ANALYSIS

Core and coal samples from the 1978 programme are in the process of being analyzed by Superintendence Company (Canada) Limited of Vancouver, British Columbia. Dependent upon core recovery, the analysis of the coal core samples follows one of two different procedures. The majority of the samples follow the standard analysis procedure (see Figure 7.1), while those with less than 40% core recovery follow a reduced procedure (see Figure 7.2). The samples from the rotary drill holes are undergoing proximate analysis and testing for F.S.I., phosphorus and sulphur only. No washing will be done on these samples. Selected samples were also taken from coal core obtained from diamond drill holes to test for methane content.

The standard analysis procedure was designed to maximize the quantity of clean coal which would later be used for additional analysis and blending. The product clean coal will be obtained by cutting the various size fractions at predetermined cut points. These cut points were determined when 1976 Saxon drill core and adit data were fed into a computer simulated wash plant and cut to achieve a 7.5% ash product.

No analytical data relating to coal samples obtained in the 1978 exploration programme is presented here as the results so far are preliminary and incomplete.

SAXON DRILL CORE, 1978

Standard analysis procedure.

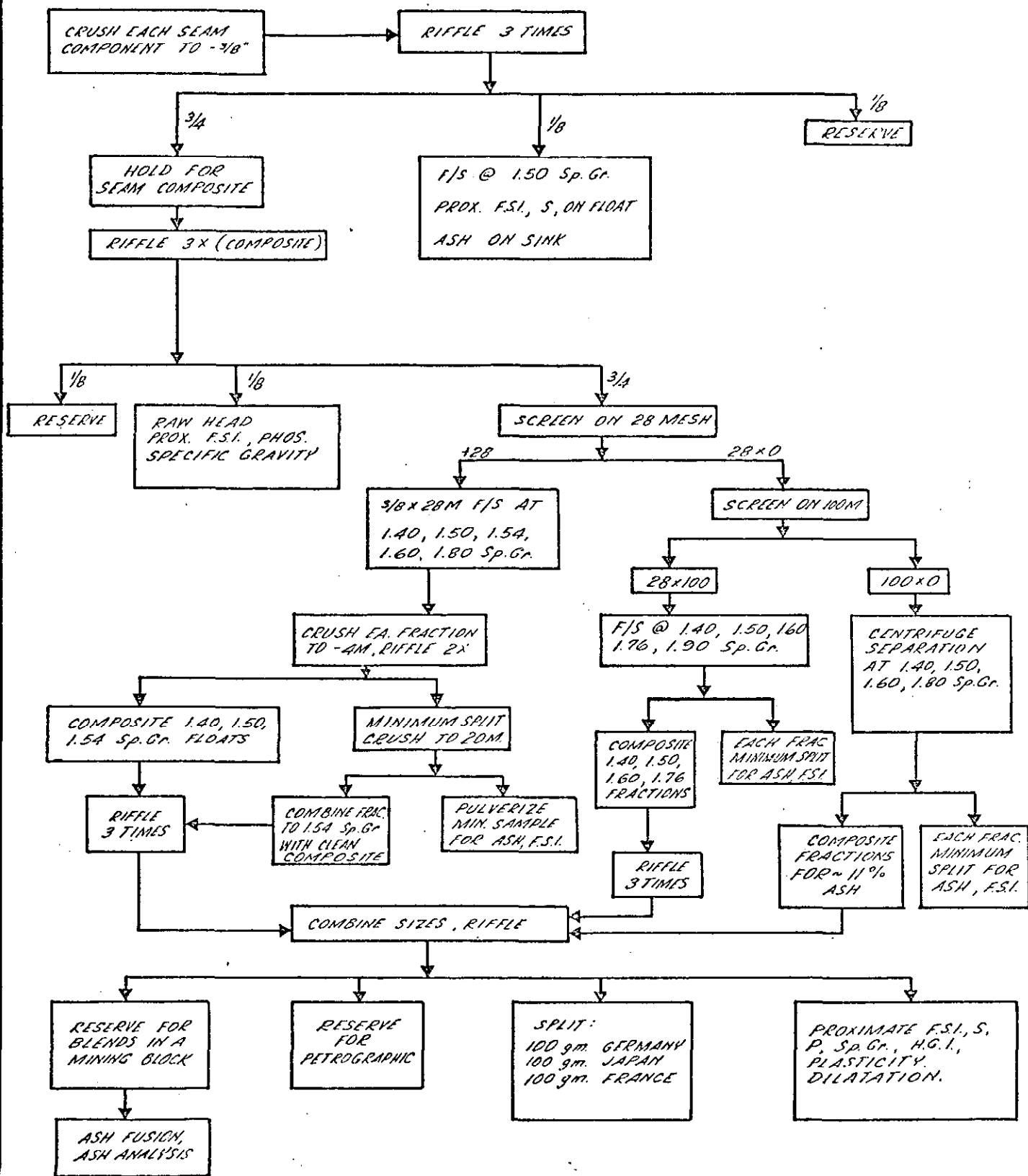


figure 7.1

SAXON DRILL CORES, 1978

Analysis procedure for poor core recovery samples.

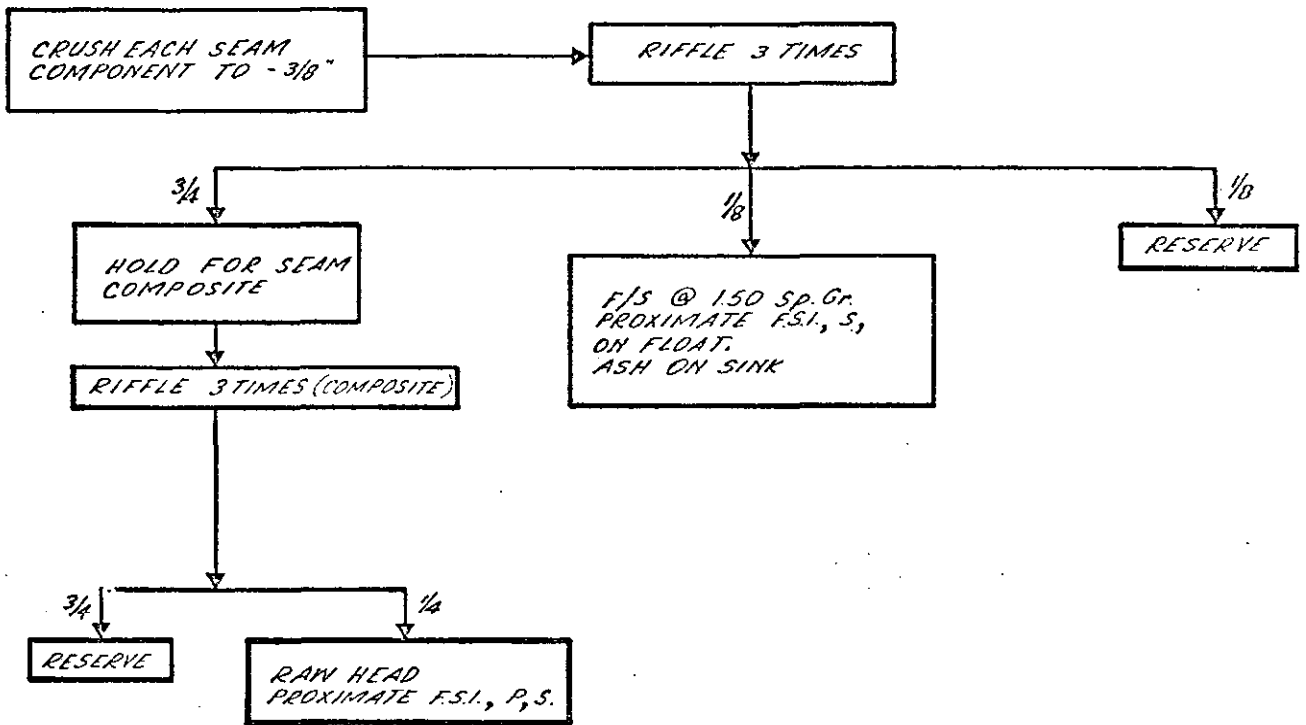


figure 7.2

8 TRENCHING

During the 1978 Saxon exploration programme, all trenches were constructed by hand. This hand trenching, undertaken within the Saxon East area, was carried out by crews of two or three working with a geologist or geological assistant. A total of 80 trenches were dug although not all of these trenches successfully exposed major seams.

Hand trenches were constructed both in alpine terrain and below treeline. The crew was moved by helicopter and by foot. The trenches were unshored, so safety considerations usually limited their depth to around 1.5 metres. As a result, seams could not always be exposed in areas where there was a thick cover of soil, talus, or coal spoil.

Detailed pictorial logs of trench sections are presented in the pocket.

9 ROAD CONSTRUCTION AND MAINTENANCE

Road construction and maintenance was carried out by Tompkins Contracting Limited of Fort St. John, British Columbia. The main access road was opened at the beginning of June and other access roads in the Saxon East area were opened by early July. In the Saxon South area, the main access road was opened in late June to permit access for reclamation purposes. Several weeks were spent in the earliest portion of the programme up-grading the main access road to the Saxon property in an effort to improve drainage and eliminate soft road-bed conditions. Several new roads and cat-trails were established and these have been fully described in the report entitled "Saxon Coal Limited 1978 Reclamation Report".

10 FIELD CAMPS

Room and board was supplied by Denison from a 50-man trailer camp situated where the main access road through the property crosses Saxon Creek. The camp was located just east of the previous site in an effort to relocate the sump farther away from Saxon Creek. The old site was used as a helicopter staging area.

The camp was rented from Territorial Leasing Limited and catered by Westcamp Construction Catering Limited both of Edmonton, Alberta.

11 RECLAMATION

A detailed report on the reclamation carried out by Denison on areas disturbed during the 1978 and 1977 Saxon exploration programmes has already been prepared and presented to the Government of British Columbia (Saxon Coal Limited 1978 Reclamation Report). The reclamation of the Saxon coal licences is at a current status.

12 ACKNOWLEDGEMENTS

12.1 CONTRACTORS

The following table summarizes the major contractors employed by Denison Coal Limited on the Saxon project during the 1978 program and their areas of responsibility under Denison's supervision:

Tompkins Construction Ltd.	drill site preparation and road construction
Day Isley and Sons Ltd.	reclamation
Quasar Helicopters Ltd.	chartered aircraft
Associated Helicopters Ltd.	chartered aircraft
Okanagan Helicopters Ltd.	chartered aircraft
Westcamp Construction Catering Ltd.	catering
Territorial Leasing Ltd.	field camp rental
B.P.B. Instruments Ltd.	geophysical logging
Bowmac Truck Rentals Ltd.	truck rental
Canadian Longyear Drilling Ltd.	diamond drilling
Garritty and Baker	rotary drilling
Superintendence Company (Canada) Ltd.	coal core testing

12.2 EXPLORATION PROGRAMME PERSONNEL

During the 1978 exploration programme for Saxon Coal Limited, technical supervision and data analysis was carried out by the staff of Denison Mines Limited, Coal Division with assistance from personnel from Montan Consulting and Mitsui Mining. The professional staff involved are listed below:

12.2 (cont)

DENISON MINES LIMITED

Mr. Gordon P. Gormley	Exploration Manager
Mr. John H. Perry	Project Geologist
Mr. Wade Plachner	Senior Geologist
Mr. Frank Tumato	Geologist
Mr. Roger Shields	Geological Technician (Camp and Reclamation Manager)

Extremely valuable assistance was also provided by a team of technically qualified geological assistants.

MONTAN CONSULTING

Mr. Ralph Schlueter	Consultant Geologist
Dr. Manfred v. Sperber	Consultant Geologist

MITSUI MINING

Mr. Tom Shima	Consultant Geologist
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APPENDIX I

GEOLOGICAL SUMMARY

APPENDIX I

GEOLOGICAL SUMMARY

	<u>Page</u>
I.1 Introduction	I-1
I.2 Stratigraphy	I-2
I.3 Structure	I-3

GEOLOGICAL SUMMARY

I.1 INTRODUCTION

The geology of the Saxon property has been described in detail in the 1977 Exploration Assessment Report for Saxon Coal Limited (Denison Mines Limited, November 1977). A summary of the geology is presented below:

" The Saxon property lies within Lower Cretaceous strata of the Rocky Mountain foothills of British Columbia, adjacent to the Alberta provincial boundary.

The stratigraphic sequence on the property is bounded at the top by Shaftesbury Formation sediments and at the bottom by rocks of the Nikanassin Formation. A complete sequence from Cadomin conglomerate through Gething Formation, Moosebar and Commotion Formation has been deposited upon the Nikanassin sediments. The Commotion Formation contains three defineable members on the property: the Gates, Hullcross and Boulder Creek Members.

The non-marine sediments of the Nikanassin Formation, Gething Formation and Boulder Creek Member all contain coaly horizons. However, the work to date has defined only the seams of the Gates Member as having sufficient thickness and lateral extent as well as the required quality to allow them to be considered for extraction.

The strata on the Saxon property have been folded and thrust to form a major complex syncline trending along the property in a north westerly direction. The syncline plunges from both the northern and southern ends of the property towards the centre.

The central syncline is flanked to the east by well exposed westerly dipping sediments which include the Gates Member coal seams. These consistently dipping strata form panels which are suitable for mining by underground hydraulic methods. On the southwest flank of the central syncline a complex faulted anticlinorium again exposes Gates Member sediments and forms a structure suitable for mining by surface methods.

In Saxon East three Gates Member coal seams, numbered 1, 2 & 4 from the base up, can be considered for mining, while in Saxon South six mineable seams numbered 1 to 5 and No. 10 have been defined, although even in this area seams 1, 2, & 4 provide over 85% of the reserves.

While geological structures are a major factor on the Saxon property in so far as defining mining areas is concerned, they will not have a large effect on mining within each block, although some selectivity will be required."

I.2 STRATIGRAPHY

No significant changes in the general stratigraphy of the Saxon East area were recorded during the 1978 exploration programme. Correlations of the major coal seams are, for the most part, consistent with what was expected from pre-existing data. The thickness of the mining sections of these seams fall within or close to the previous range.

Rotary and diamond drilling near the proposed plant site at Saxon East has helped delineate the facies change suggested in 1977 for the strata of the seam no. 1 to seam no. 2 sequence. Diamond drill holes nos. SD 7801, 7620, 7803 and 7702 and rotary drill holes nos. SR 0878 and SR 1278 have a greatly thickened coal section and/or several coal splits in this interval, while the non-coal sediments display a significantly retarded development. The facies changes are quite rapid as can be seen, for example, in SR 0878 and SR 1278. In these drill holes, which are 180 metres apart, seam 1 varies from a 4.38 metre seam with two substantial rock partings to a relatively clean seam 9.98 metres in thickness. The

interseam thickness between seam no. 2 and seam no. 1 in these two holes is 9.48 metres and 1.77 metres respectively. The development of seam 1 is again seen to be retarded in SR 0578 and the seam is considered to be absent in drill hole SR 0478. Within a number of the drill holes listed above, seam no. 2 develops an upper and a lower split. The lower split is the one considered to represent seam no. 2 and to extend throughout the area, while the upper split is restricted to the area of rapid facies change in the north-eastern portion of Block 1.

The results of the 1978 drilling programme have also clarified the relationship between seam nos. 3 and 4 within the Saxon East area. Throughout Block 2, seam no. 3 lies approximately 25 to 30 metres below seam no. 4. As Block 1 is approached, seam no. 3 climbs through the stratigraphy until it merges with seam no. 4 in hole SR 1478. Throughout most of Block 1 seam no. 3 is either separated from seam no. 4 by a thin rock band, or is incorporated into seam no. 4 itself.

I.3 STRUCTURE

The broad structure of the Saxon East area was primarily confirmed by the data recorded during the 1978 exploration programme. The only change in the structural interpretation concerns the lateral extent of a thrust fault which, on the basis of 1977 and earlier data, was considered to cut the Block 1 mining area. Further drilling and detailed mapping has shown that what was thought to be one continuous structure is, in fact, a series of three thrusts having less significant

vertical displacement than that previously interpreted.

The most southeasterly of these faults has been drilled by SD 7806 and, together with a folded sequence, has been mapped in the creek immediately to the west of that drill hole. In SD 7806 seam no. 2 is repeated, indicating a throw of approximately 27 metres on the fault. Other minor folds, of a scale similar to those mapped in the creek, have been found in the roof of seam no. 2 and seam no. 4 to the east of SD 7806. Structures of this type have not been encountered further to the northwest and are considered to be restricted to this northeastern portion of Block 1.

A thrust fault was intersected in SD 7620 and observed in outcrop immediately to the north of this drill hole. The fault lies at approximately the same structural level as the one previously described. Although these structures are not considered to be extensions of each other, zones of disturbance and faults with minor displacements were recorded at similar structural levels in drill holes SD 7803 and SD 7804. The thrust is interpreted to die out to the northwest in hinge of a fold. This fold, although not mapped, is an interpretation based on surrounding outcrop information and nearby drill hole data.

The greatest amount of disturbance is recorded in drill holes SD 7001 and SD 7708 where seam no. 1 exhibits a throw of approximately 50 metres. The data available from SD 7708 indicates that the thrust fault consists of two confining planes, enclosing folded and intensely deformed strata. Data available at present indicates that these two planes converge at higher stratigraphic elevations, accompanied

by a reduction in the amount of tectonic disturbance. As no evidence of this structure has been found in outcrop the thrust is considered to die out below the present erosion level. This zone of thrusting lies at a higher structural level than the two which have been described above and the northern and southern limits are defined by SD 7802 and SD 7805 respectively.

APPENDIX II

MAPS, CROSS-SECTIONS, CORRELATION CHARTS
AND COLUMNAR LOGS

LIST OF DRAWINGS WHICH COMPRISE APPENDIX II

- 1 Geological Compilation Map (1:25,000)
- 1 Saxon East Geology Map (1:5000)
- 57 Saxon East Geological Cross-Sections (1:5000)
- 3 Saxon East Structure Contour Maps (Seams 1, 2 and 4) (1:5000)
- 9 Diamond Drill Hole Columnar Sections (1:200 and 1:50)
- 14 Rotary Drill Hole Columnar Sections (1:200 and 1:50)
- 3 Mining Section Correlations (Seams 1, 2 and 4) (1:50)
- 41 Trench Logs (pictorial) (1:50)

All of the above are unbound and contained within the box which comprises Volume I.

ROCK	COAL
0.08	
	1.64
0.05	
	0.78
0.13	2.42
	2.55



ROOF: SANDSTONE-FINE GRAINED, WEATHERS TO LIGHT BROWN, LAMINATED, BEDDING 137/53 SW

CLAYSTONE - WEATHERED

COAL - WEATHERED

COAL - BONEY

COAL - WEATHERED

FLOOR: CARB. CLAYSTONE-IN CONTACT, PARTIALLY WEATHERED, BEDDING 131/53 SW

STRIKE AND DIP OF SEAM 134/42 SW
 BEARING OF TRENCH N090
 PLUNGE OF TRENCH 23°

*✓ acceptable done print
 ✗ unacceptable " "*

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SAXON COAL LIMITED

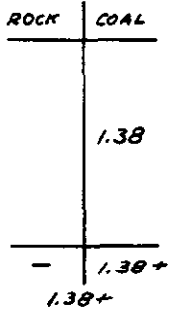
PREPARED BY:
 DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-1-2

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-R01

629



ROOF: SILTSTONE - WEATHERS TO A RUSTY BROWN.
IN CONTACT. 129/29° SW

COAL - WEATHERED

FLOOR: NOT IN CONTACT WITH SEAM

BEARING N090
PLUNGE 3°

PR-SAXON 78(2)A

SAXON COAL LIMITED

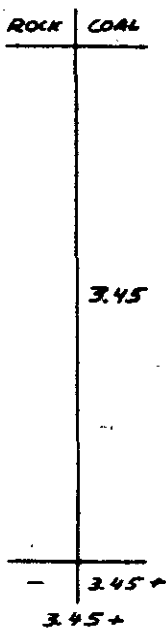
PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-1-3

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-R01

629



ROOF: NOT IN CONTACT, STRIKE/DIP TAKEN 40m FROM TOP END OF TRENCH 125/53° SW

COAL - WEATHERED

FLOOR: NOT IN CONTACT
STRIKE/DIP NOT AVAILABLE

BEARING N170
PLUNGE 0°

PR - SAXON 78 (2) A. X

SAXON COAL LIMITED

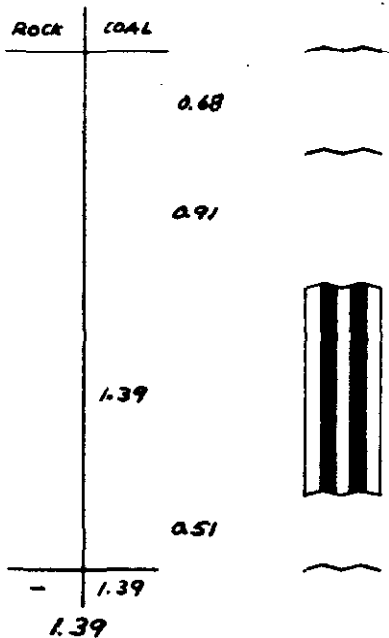
PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

778-1-4

629

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-ROI



ROOF: NOT AVAILABLE - STRIKE/DIP TAKEN FROM
SST 1.19m FROM TOP OF TRENCH
123/52° SW

OVERBURDEN

OVERBURDEN - WITH SOME COAL SPOIL

COAL - WEATHERED

OVERBURDEN - WITH SOME COAL SPOIL

FLOOR: NOT AVAILABLE, STRIKE/DIP TAKEN FROM
SST. 0.89m FROM BOTTOM OF TRENCH
120/51° SW
OVERBURDEN TOO THICK

BEARING N 173
PLUNGE 40

PR. SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-1-5

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-ROI

629

ROCK	COAL
	0.58
0.09	0.12
0.03	0.52
0.10	0.47
0.04	0.32
0.26	2.01'
2.27'	



ROOF: NOT AVAILABLE. STRIKE/DIP TAKEN 1.7m FROM TOP OF TRENCH. SANDSTONE FINE TO MED. GRAIN. FRESH SURFACE RED-BROWN. WEATHERED SURFACE, OCC. X-BEDDING. 132/38°SW, 134/41°SW

HARD COAL

CLAYSTONE
COAL - WEATHERED WITH OCC. SMALL PIECES OF COAL (DL)
INTERMIXED
CLAYSTONE

HARD COAL

CLAYSTONE

HARD COAL

CLAYSTONE

COAL - WEATHERED

FLOOR: SILTY CLAYSTONE.
STRIKE/DIP TAKEN FROM SST. 126/48°SW
124/45°SW

BEARING N04
PLUNGE 15°

PR - SAXON 78 (2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-1-6

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
REP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-001

629

ROCK	COAL
	1.21
	1.15
	0.17
-	2.53
2.53	



ROOF: CLAYSTONE - PLANT FRAGMENTS, HEAVILY BROKEN, STRIKE/DIP $82/43^{\circ}$ SW, IN CONTACT

COAL - WEATHERED

OVERBURDEN - WITH VERY LITTLE COAL MIXED ($< 5\%$)
CONSIDERED TO BE COAL (FROM DRILL HOLE CORRELATION CHARTS)

COAL - WEATHERED

FLOOR: SILTY CLAYSTONE - PLANT FRAGMENTS, WEATHERS TO LIGHT BROWN, STRIKE/DIP $122/37^{\circ}$ SW, IN CONTACT

BEARING N084
PLUNGE 4°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-1-8

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-ROI

629

ROCK	COAL
	0.48
0.04	0.04
0.08	0.12
0.07	0.30
0.19	0.94
1.13	



ROOF: NO STRIKE/DIP AVAILABLE, IN CONTACT
CLAYSTONE - BROKEN AND MIXED WITH C.S.P.

COAL - WEATHERED

CLAYSTONE
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED

FLOOR: SANDSTONE - EXTREMELY BROKEN
IN CONTACT
STRIKE/DIP TAKEN 15m FROM TRENCH
141/43° SW

0.19 .94
1.13

BEARING N 199

PLUNGE 5°

X

PR - SAXON 28(2)A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78-1-12

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-R01

629

ROOF	COAL
0.09	0.08
1.86	
0.09	1.94*
2.03*	



ROOF: CARB. CLAYSTONE - SOME PLANT FRAGMENTS
SHEARED AT CONTACT WITH COAL,
NO ATTITUDE AVAILABLE
COAL - WEATHERED
CLAYSTONE

COAL - WEATHERED

FLOOR: NOT AVAILABLE. STRIKE/DIP TAKEN 15 m
FROM BASE OF TRENCH ON SST
FINE TO MED. GRAIN. FRESH SURFACE
LIGHT GREY, WEATHERED SURFACE
VERY LIGHT GREY
139/49° SW

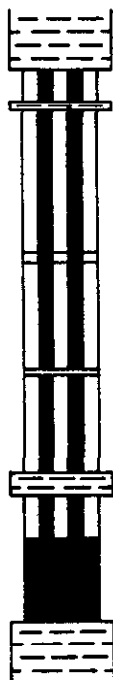
BEARING N 235
PLUNGE 4°

PD-SAXON 78 (2)A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-1-13		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:30
PROP'D BY:	DATE:	DRAWING NUMBER:
APPROV BY:	DATE:	SXON 78-0815-R01

629

ROCK	COAL
0.05	0.22
	0.96
	0.07
	0.71
0.04	
	0.66
0.16	
	0.29
	0.56
0.25	3.47
3.72	



ROOF: CLAYSTONE - WEATHERED AND SLIGHTLY
BROKEN, 138/31°SW, IN CONTACT

COAL - WEATHERED
CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED WITH OCC. PIECES OF DULL HARD
COAL

COAL - WEATHERED

COAL - BONEY AND WEATHERED

COAL - WEATHERED WITH MANY PIECES OF HARD
COAL, BROKEN

CLAYSTONE

COAL - WEATHERED

HARD COAL - DULL-DULL LUST.
PARTIALLY BROKEN AND WEATHERED

FLOOR: CLAYSTONE - BROKEN AND WEATHERED
NO STRIKE/DIP AVAILABLE.
NEAREST STRIKE/DIP 15m FROM FLOOR OF
TRENCH 136/42°SW
IN CONTACT

BEARING N 234
PLUNGE 9°



PR - SAXON 78 (2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

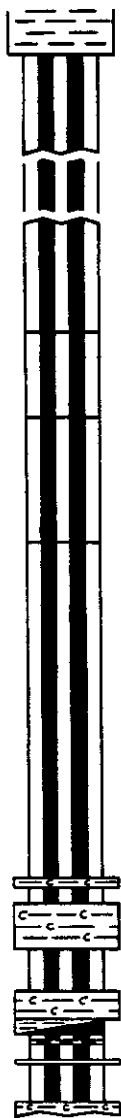


1978 SAXON TRENCH SECTION
778-1-15

627

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-R01

ROCK	COAL
	0.66
	0.47
	0.73
	0.57
	0.84
	2.25
0.06	0.10
0.06	5.62
5.68	



ROOF: CLAYSTONE - SLIGHTLY CARB, BROKEN, STRIKE/DIP 124/48° 54, IN CONTACT

COAL - WEATHERED

OVERBURDEN - WITH COAL SPOIL
CONSIDERED TO BE COAL (FROM 1977 TRENCH DATA CORRELATION)

COAL - WEATHERED

COAL - WEATHERED

COAL - WEATHERED


COAL - WEATHERED

CARB. CLAYSTONE
COAL - WEATHERED
CLAYSTONE - CARB, BROKEN

COAL - WEATHERED
CARB. CLAYSTONE
COAL AND CLAYSTONE (30%)
COAL - WEATHERED
COAL AND SANDS
COAL - WEATHERED
CARB. CLAYSTONE
COAL - WEATHERED
CARB. CLAYSTONE

BEARING N200
PLUNGE 17°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED 		
1978 SAXON TRENCH SECTION T78-1-16		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1: 50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-ROI

627

ROCK	COAL
	0.34
	0.60
0.05	0.11
0.06	
	0.81
	0.08
	0.39
	1.10
0.11	0.15
0.08	0.21
	0.04
0.01	0.04
	0.53
0.31	4.42
4.73	



ROOF: CLAYSTONE - PARTLY BROKEN AND WEATHERED
IN CONTACT. NO STRIKE/DIP AVAILABLE,
TAKEN 1.2m FROM TOP OF TRENCH 134/39° SW
COAL - WEATHERED

HARD COAL - MAINLY DULL WITH OCC. PIECES D.L.

CLAYSTONE
HARD COAL - MAINLY DULL
CLAYSTONE

COAL - WEATHERED WITH MANY PIECES DULL HARD
COAL

HARD COAL - DULL

COAL - WEATHERED WITH MANY SMALL PIECES OF
DULL AND DULL HARD COAL

HARD COAL - MAINLY DULL WITH SOME PIECES
DULL COAL

COAL - BONEY
COAL - WEATHERED WITH OCC. PIECES OF DULL HARD
COAL

CLAYSTONE
HARD COAL - } DULL

HARD COAL - MAINLY DULL WITH OCC. PIECES DULL HARD COAL

CLAYSTONE
COAL - WEATHERED WITH MANY PIECES DULL HARD COAL

CARB. CLAYSTONE
COAL - WEATHERED

CLAYSTONE
COAL - WEATHERED
CARB. CLAYSTONE
COAL - WEATHERED

FLOOR: SILTY CLAYSTONE - VERY BROKEN AND
WEATHERED. STRIKE/DIP NOT AVAILABLE.
IN CONTACT

BEARING N 051, N 233°

PLUNGE 6°, 11°

PR. SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION
T78-1-18

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-01

627

ROCK COAL

0.29
0.18
0.12
0.08

0.60
0.07
0.04
0.05
0.28

0.56

1.33

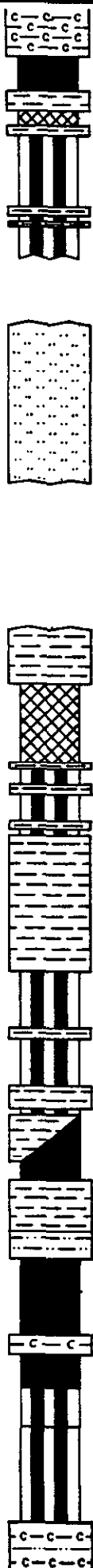
1.22

0.47

0.66
0.05
0.08
0.13
0.22
0.07
0.05

1.14

0.48
0.09
0.39
0.20
0.05
0.20
0.20
0.16
0.43
0.23
0.28
0.37
0.17
0.28
0.34
0.82



ROOF: CARB. CLAYSTONE - PARTIALLY WEATHERED, BROKEN
STRIKE/DIP TAKEN 2.41m FROM TOP END OF TRENCH
128/45° SW
HARD COAL - BROKEN AND PARTIALLY WEATHERED, DULL
CLAYSTONE - BROKEN AND WEATHERED
COAL - BONEY
CLAYSTONE
COAL - WEATHERED WITH OCC. PIECES OF DULL HARD COAL
CLAYSTONE
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED WITH OCC. PIECES OF DULL HARD COAL

OVERBURDEN AND SANDSTONE TALUS - FINE TO MED. GRAIN,
SOME CALCITE FILLED FRACTURES, FRESH SURFACE
ARE MED. GREY, WEATHERS TO A BUFF BROWN

SILTSTONE - PARTIALLY BROKEN AND WEATHERED

OVERBURDEN - WITH SANDSTONE TALUS

CLAYSTONE - WITH SOME COAL SPOIL

COAL - BONEY

CLAYSTONE
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED

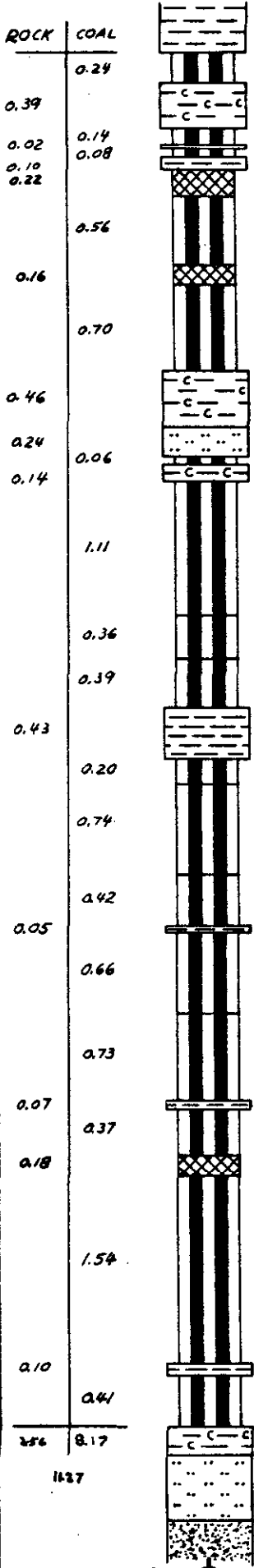
CLAYSTONE - WITH SOME COAL SPOIL

COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED WITH OCC. PIECES OF WEATHERED
AND BROKEN DULL HARD COAL
CLAYSTONE
COAL - WEATHERED
COAL AND CLAYSTONE - MIXED R 50% OF EACH. CLAYSTONE
BROKEN AND WEATHERED
HARD COAL - BROKEN AND WEATHERED
CLAYSTONE - WEATHERED, BROKEN, LIGHT BROWN,
NO STRIKE/DIP AVAILABLE
SILTY CLAYSTONE
HARD COAL - SLIGHTLY WEATHERED, DULL
PR-SAXON 78(2)A
HARD COAL - DULL
WEATHERED, BROKEN
CARB. CLAYSTONE
HARD COAL - SLIGHTLY
WEATHERED, BROKEN
COAL - WITH OCC.
PIECES OF HARD COAL
WEATHERED
COAL - WEATHERED,
WITH MANY PIECES
OF HARD COAL
FLOOR: CARB.
CLAYSTONE

BEARING N355, N003
PLUNGE 38°, 29°

629

SAXON COAL LIMITED
PREPARED BY:
DENISON MINES LIMITED
1978 SAXON TRENCH SECTION
T78-1+2-4
DRAWN BY: R.Z. DATE: NOV. 78 SCALE: 1:50
PREP'D BY: DATE: DRAWING NUMBER:
APPR'D BY: DATE: SXON 78-0815-RO1



ROOF: CLAYSTONE - WEATHERED, BROKEN, LIGHT BROWN
 STRIKE/DIP TAKEN 1.20 m FROM TOP OF TRENCH
 143/34° SW, IN CONTACT

COAL - WEATHERED

CARB. CLAYSTONE

COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - BONEY

COAL - WEATHERED WITH OCC. SMALL PIECES
 OF DULL COAL

COAL - BONEY

COAL - WEATHERED

BEARING N005, N357, N051
 PLUNGE 19°, 27°, 26°

CARB. CLAYSTONE - WEATHERED AND BROKEN

SILTSTONE
 COAL - WEATHERED
 CARB. CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED

COAL - WEATHERED WITH MANY
 PIECES OF BRIGHT
 HARD COAL

CLAYSTONE - WEATHERED,
 SHEARED

COAL - WEATHERED

COAL - WEATHERED WITH MANY
 PIECES OF DULL AND
 BRIGHT HARD COAL, SOME
 PIECES THE SIZE OF
 COBBLE

COAL - WEATHERED WITH OCC.
 SMALL PIECES OF HARD
 COAL
 CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED WITH OCC.
 PIECES OF HARD COAL

CLAYSTONE

COAL - WEATHERED

COAL - BONEY

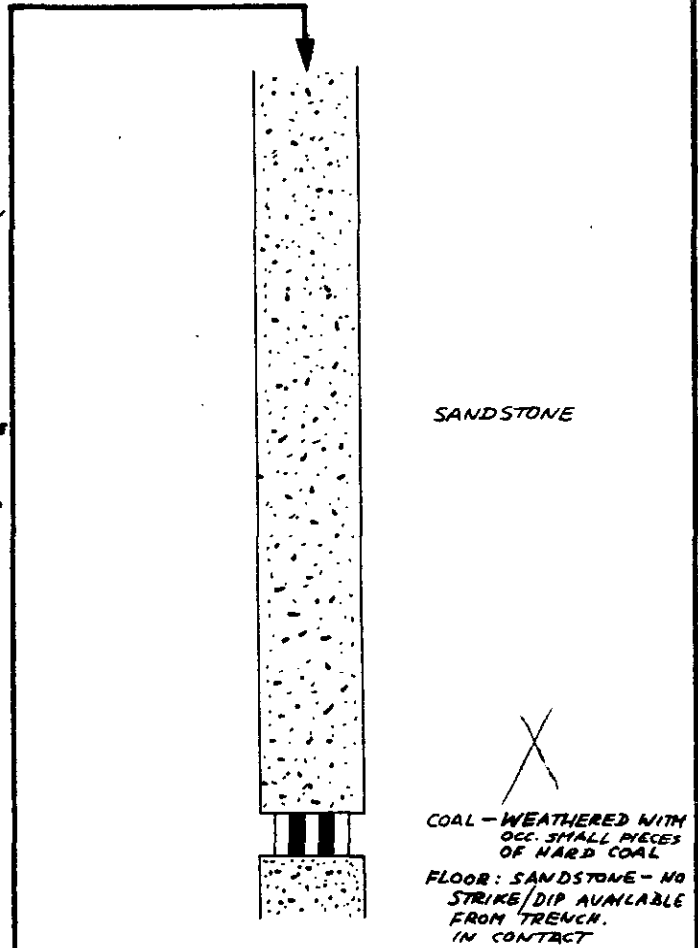
COAL - WEATHERED

CLAYSTONE

COAL - WEATHERED

CARB. CLAYSTONE

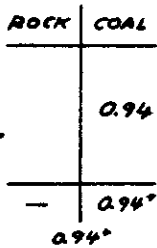
SILTSTONE



PR-SAXON 78 (2)A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-1+2-5		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER: SAXON 78-0815-001
APP'R'D BY:	DATE:	

629



ROOF: NO STRIKE/DIP AVAILABLE, NOT IN CONTACT
 STRIKE/DIP \approx 100 m FROM TRENCH 128/31° SW
 2.70 m OF OVERBURDEN FROM TRENCH TO SANDSTONE


COAL - WEATHERED

FLOOR: NOT IN CONTACT DUE TO FROZEN GROUND

BEARING N 175°
 PLUNGE 8°

X

PR - SAXON TX(-2)A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED 		
1978 SAXON TRENCH SECTION T 78-2-5		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1

629

ROCK	COAL
	0.76
	0.39
0.12	0.31
	0.37
	0.98
0.03	
	0.82
0.29	0.19
	0.54
	0.40
0.44	4.76
5.20	



ROOF: SILTSTONE - FINELY LAMINATED, GREY-BROWN.
WEATHERED SURFACE
NO STRIKE/DIP AVAILABLE

COAL -
COAL - } WEATHERED
CLAYSTONE -
COAL - }

OVERBURDEN - MIXED WITH TALUS
CONSIDERED TO BE COAL (FROM DRILL
HOLE CORRELATION CHARTS)

COAL -
CLAYSTONE - } WEATHERED
COAL - }

CLAYSTONE - BROKEN AND WEATHERED.
APPROX. 40% WEATHERED COAL

COAL -
COAL - } WEATHERED

FLOOR: CLAYSTONE - WEATHERED AND BROKEN
NEAREST STRIKE/DIP TAKEN 0.56m FROM
BASE OF TRENCH 134/41°SW

BEARING N219, N029
PLUNGE 9°, 1°



PR. SAXON 78 (2) 1A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION 778-2-6		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-R01



ROCK	COAL
	0.33
0.10	0.86
0.22	0.30
	0.66
0.32	2.15
	2.47



ROOF: CLAYSTONE - WEATHERED AND BROKEN, NO AVAILABLE STRIKE/DIP

HARD COAL - DULL

COAL - WEATHERED W/MANY PIECES OF DULL HARD COAL

CLAYSTONE

HARD COAL - DULL

CLAYSTONE - WEATHERED

HARD COAL - DULL, WEATHERED AND BROKEN

CLAYSTONE

COAL - WEATHERED

FLOOR: CLAYSTONE 119/49 SW

AVE. STRIKE AND DIP OF SEAM 119/49° SW
 BEARING OF TRENCH N038
 PLUNGE OF TRENCH 5°

PR - SAXON 78(2)A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION 778-2-7		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER: SAXON 78-0815-R01
APPR'D BY:	DATE:	

627

ROCK	COAL
	0.17
0.08	0.10
0.07	0.05
0.07	0.05
	1.09
0.05	
	0.38
0.08	0.05
0.04	0.08
0.17	0.04
0.24	
0.09	0.06
0.15	0.15
	0.51
	0.10
	1.92
1.06	4.63
5.69	



ROOF: CARB. CLAYSTONE - HEAVILY BROKEN, STRIKE AND DIP TAKEN 20m SE OF TRENCH, 158/42° SW, IN CONTACT

COAL - WEATHERED
 CLAYSTONE - BROKEN
 COAL - WEATHERED
 CLAYSTONE - WEATHERED
 COAL - WEATHERED
 CLAYSTONE - WEATHERED

COAL - WEATHERED

COAL - STONEY

COAL - WEATHERED

CLAYSTONE - WEATHERED
 COAL AND CLAYSTONE BANDS
 COAL - WEATHERED
 CLAYSTONE - WEATHERED
 COAL - WEATHERED
 CLAYSTONE - WEATHERED
 CLAYSTONE - WITH SOME COAL LAMINAE
 COAL - WEATHERED

COAL AND ROCK (CLAYSTONE) INTERBANDED 50-50, BANDS ≈ 2 cm THICK

COAL - WEATHERED

CLAYSTONE - WEATHERED

COAL - WEATHERED

FLOOR: SILTSTONE - M. GREY ON FRESH SURFACE, PLANT FRAGMENTS, WEATHERS TO LIGHT BROWN, STRIKE AND DIP 122/54° SW, IN CONTACT

AVE. STRIKE AND DIP OF SEAM 158/42° SW, 140/48° SW, 122/54° SW
 BEARING OF TRENCH N 060
 PLUNGE OF TRENCH 2°

PR - SAXON 78 (2) A

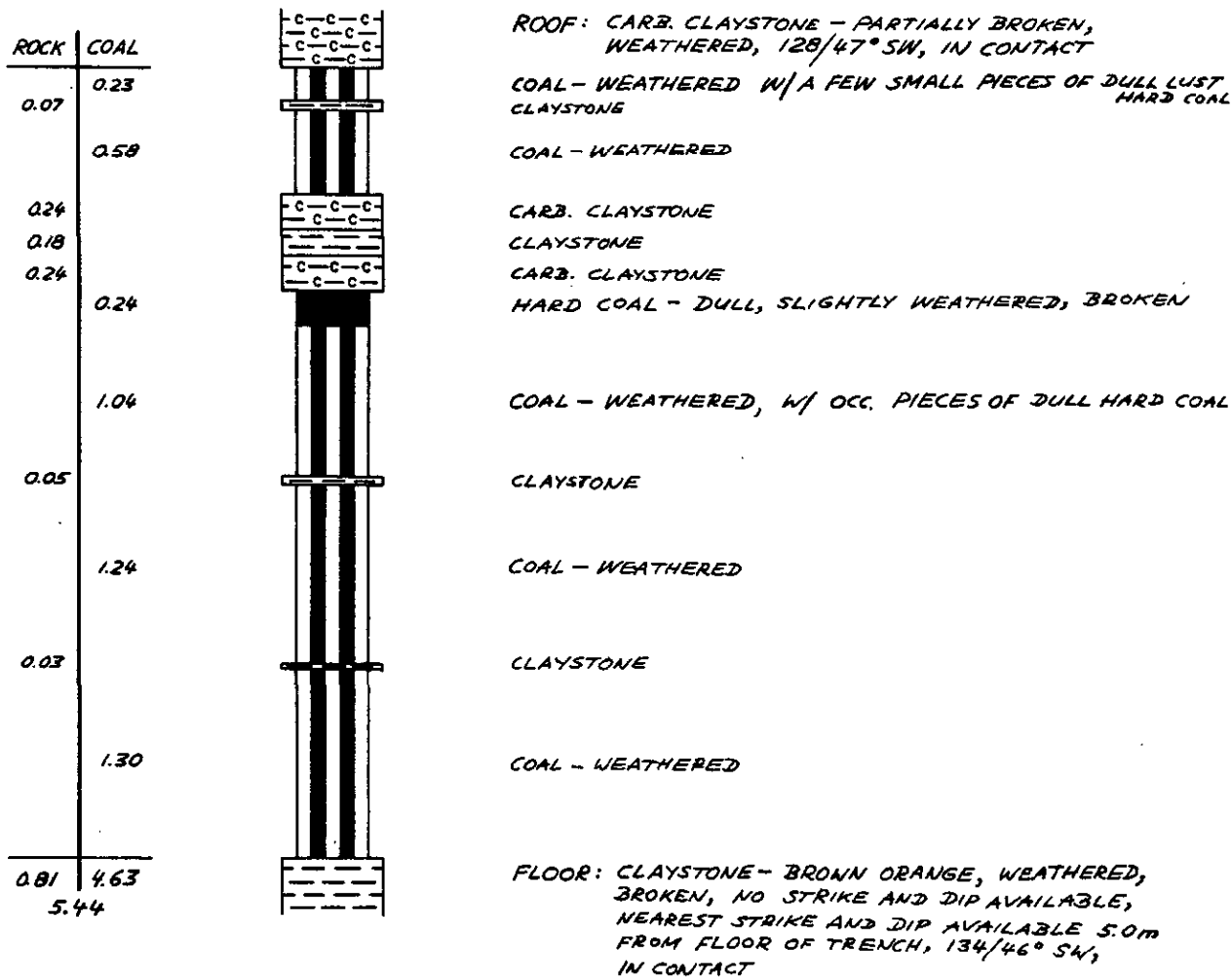
SAXON COAL LIMITED

PREPARED BY:
 DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

778-2-8

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-01



AVE. STRIKE AND DIP OF SEAM 131/47° SW
 BEARING OF TRENCH N 001
 PLUNGE OF TRENCH 6°

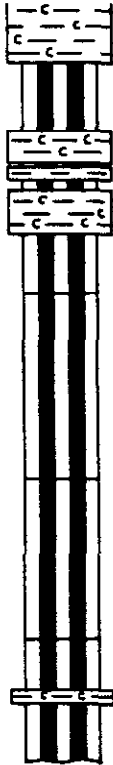


12 - SAXON 78 (21A)

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-2-12		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER: SXON 78-0815-RO1
APPR'D BY:	DATE:	



ROCK	COAL
	0.46
0.21	0.02
0.09	0.07
0.29	
	0.40
	1.25
	1.08
	0.34
0.09	
	0.39
0.68	4.01
	4.69



ROOF: CARB. CLAYSTONE - WELL LAMINATED, IN CONTACT
STRIKE/DIP 111/45° SW

COAL - WEATHERED

CARB. CLAYSTONE - BROKEN
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
CARB. CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED

COAL - WEATHERED, HEAVILY ROOTED

COAL - WEATHERED

CLAYSTONE

COAL - WEATHERED

OVERBURDEN



FLOOR: CLAYSTONE - SLIGHTLY CARB. PLANT FRAGMENTS.
STRIKE/DIP 124/43° SW, TAKEN 1.8 m FROM BASE
OF TRENCH.
NOT IN CONTACT

BEARING N 045
PLUNGE 0°

PR - SAXON 78(2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-2-13

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1

ROCK	COAL
0.04	0.15
0.21	0.08
0.05	0.04
0.05	0.15
0.25	0.07
0.03	0.08
0.05	0.08
0.09	0.28
	0.27
3.30	
0.77	4.57
5.34	



ROOF: CARB. CLAYSTONE - BROKEN, IN CONTACT,
STRIKE AND DIP TAKEN 2m FROM TOP END
OF TRENCH, 125/35° SW

COAL - WEATHERED
CLAYSTONE - BROKEN
COAL - WEATHERED

CARB. CLAYSTONE - SHEARED
COAL - WEATHERED
CLAYSTONE - BROKEN
COAL - WEATHERED
CLAYSTONE - BROKEN
COAL - WEATHERED

CARB. CLAYSTONE - SHEARED, BROKEN

COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
CLAYSTONE

COAL - WEATHERED

COAL - BONEY

COAL - HARD, BROKEN

COAL - WEATHERED

FLOOR: CARB. CLAYSTONE, IN CONTACT, STRIKE AND DIP
TAKEN 6m WEST OF BOTTOM END OF TRENCH
120/36°

AVE. STRIKE AND DIP OF SEAM 123/36° SW
BEARING OF TRENCH N 026
PLUNGE OF TRENCH 27°

PR- SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY:

DENISON MINES LIMITED



1978 SAXON TRENCH SECTION

T78-2-14

DRAWN BY: R.Z.

DATE: NOV. 78

SCALE: 1:50

PREP'D BY:

DATE:

DRAWING NUMBER:

APPR'D BY:

DATE:

SXON 78-0815-RO1



ROCK	COAL
0.07	0.20
0.02	0.16
0.06	0.39
	0.44
0.15	1.19
1.34°	



ROOF: NOT IN CONTACT. STRIKE/DIP TAKEN 2.50m FROM TOP OF TRENCH 123/56°SW

COAL - WEATHERED
 SILTY CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED

FLOOR: STRIKE/DIP 125/32°SW, TAKEN 1.60m FROM END OF COAL

BEARING N 055
 PLUNGE 5°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-2-16		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-001



ROCK	COAL
0.05	0.52
0.04	0.03
0.03	
	1.76
	0.47
	0.64
	1.38
0.12	4.80°
	4.92°



ROOF: NO ROOF AVAILABLE DUE TO OVERBURDEN THICKNESS. STRIKE AND DIP TAKEN 5.50m FROM THE TOP OF TRENCH, 136/35° SW.

COAL - WEATHERED (80%) AND MIXED WITH SOME TALUS (20%)

CLAYSTONE - WEATHERED
COAL - WEATHERED
CLAYSTONE

COAL - WEATHERED WITH OCC. PIECES OF HARD COAL

COAL - WEATHERED

OVERBURDEN - SOME LARGE SANDSTONE Boulders WITH VERY LITTLE CSP. CONSIDERED TO BE COAL (FROM DRILL HOLE CORRELATION CHARTS)

COAL - WEATHERED WITH OCC. PIECES OF HARD COAL

FLOOR: NO FLOOR AVAILABLE. STRIKE AND DIP TAKEN FROM SST. 40m FROM BASE OF TRENCH 145/42° SW.

BEARING N350
PLUNGE 26°

PR - SAXON 78 (2) A

SAXON COAL LIMITED

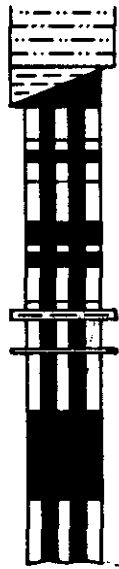
PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-4-1

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY: -	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-001

ROCK	COAL
0.13	0.24
	0.23
	0.07
	0.07
	0.14
	0.27
	0.15
	0.05
	0.09
	0.25
0.06	0.06
0.02	0.20
	0.00
	0.59
	0.44
0.24	3.15
	3.36



ROOF: SILTY CLAYSTONE - PLANT FRAGMENTS, THINLY BEDDED, MIDDLE 0.01m SHEARED STRIKE/SIP TAKEN FROM OVERLYING SST. 126/46°SW

COAL - WEATHERED (0.14) WITH ROCK BANDS (0.13) 0.06m THICK

COAL - WEATHERED

COAL - WEATHERED WITH OCC. PIECES OF DULL COAL

HARD COAL - DULL AND SLIGHTLY WEATHERED

COAL - WEATHERED

COAL - WEATHERED WITH A FEW SMALL PIECES HARD COAL

HARD COAL

COAL - WEATHERED

HARD COAL - DULL LUSTROUS

COAL - WEATHERED

COAL - CLAYSTONE - } WEATHERED

COAL - CLAYSTONE - }

COAL -

HARD COAL - DULL AND BROKEN

COAL - WEATHERED

FLOOR: NOT AVAILABLE. NEAREST ATTITUDE TAKEN 35m FROM BASE OF T78-4-3 125/35°SW

BEARING N345
 PLUNGE 6°

PR-50XON 78 (2)A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-4-3		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1

629

ROCK COAL

1.07



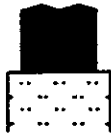
ROOF: SANDSTONE

COAL - WEATHERED

2.47

OVERBURDEN - LARGE SANDSTONE BOULDER AND SOIL

0.42



HARD COAL

FLOOR: SILTSTONE - EXTREMELY WEATHERED
127/40° SW

BEARING N035, N209

PLUNGE 11°, 25°

PR-SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY:

DENISON MINES LIMITED



1978 SAXON TRENCH SECTION

T78-4-5

DRAWN BY: R.Z.

DATE: NOV. 78

SCALE: 1:50

PREP'D BY:

DATE:

DRAWING NUMBER:

APP'D BY:

DATE:

SXON 78-0815-001

67

ROCK	COAL
	2.43
0.06	
	1.94
	1.94
0.06	6.31°
	6.37°



ROOF: NOT AVAILABLE. STRIKE AND DIP TAKEN
13m FROM CENTRE OF TRENCH, 127/57° SW

COAL - WEATHERED

CARB. CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED

FLOOR: BEDDING FOR FLOOR TAKEN FROM SST. 35m
FROM TRENCH. 140/39° SW

BEARING N204
PLUNGE 3°



PR - SAXON 78 (2) A

SAXON COAL LIMITED

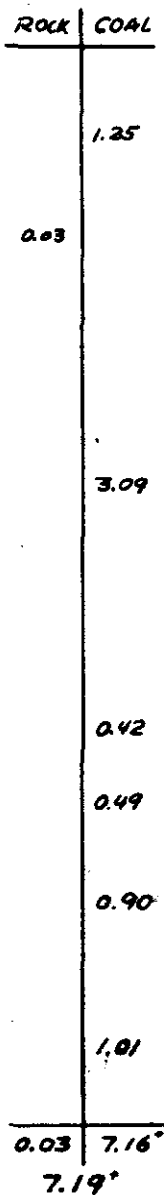
PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-4-9

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PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1





ROOF: NOT IN CONTACT

COAL - WEATHERED

CLAYSTONE - WEATHERED

COAL - WEATHERED

COAL - WEATHERED

COAL - WEATHERED

OVERBURDEN - WITH COAL MIXED
CONSIDERED TO BE COAL (FROM DRILL
HOLE CORRELATION CHARTS)

COAL - WEATHERED

CLAYSTONE - WEATHERED

COAL - WEATHERED

FLOOR: SANDSTONE - PLANT FRAGMENTS, HIGHLY
WEATHERED, FINE TO MEDIUM GRAIN,
WEATHERS TO LIGHT BROWN
134/30°SW

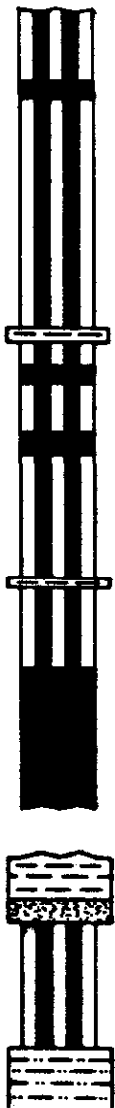
BEARINGS N203, N024 -
PLUNGE 1°, 17°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-4-10		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-R01

629

ROCK	COAL
	0.49
	0.11
	1.70
0.10	0.18
	0.13
	0.36
	0.17
	0.91
0.07	
	0.60
	1.04
	0.36
0.31	
	0.18
	0.92



ROOF: NOT IN CONTACT DUE TO OVERBURDEN THICKNESS, NEAREST STRIKE/DIP TAKEN ON SST. 4.3M FROM TOP END OF TRENCH 135/57°SW, 142/44°SW, 133/33°SW

COAL - WEATHERED

HARD COAL - PARTLY WEATHERED AND BROKEN, DULL AND BRIGHT

COAL - WEATHERED WITH MANY SMALL AND COBBLE SIZE PIECES OF DULL HARD COAL

CLAYSTONE

COAL - WEATHERED

HARD COAL - DULL AND BRIGHT

COAL - WEATHERED

HARD COAL - DULL

COAL - WEATHERED WITH MANY SMALL PIECES OF DULL HARD COAL

CLAYSTONE

COAL - WEATHERED

HARD COAL - MAINLY DULL AND BRIGHT

OVERBURDEN - LARGE PIECES OF SANDSTONE, TALUS, AND COAL MIXED. ABOUT 10% COAL, 90% TALUS

CLAYSTONE - WEATHERED, BROKEN

SANDSTONE - FINE GRAINED, SLIGHTLY BROKEN AND WEATHERED

COAL - WEATHERED WITH MANY SMALL PIECES OF DULL HARD COAL

FLOOR: SILTY CLAYSTONE, IN CONTACT, NO STRIKE/DIP AVAILABLE

BEARING N 033

PLUNGE 23°

PR - SAXON 78(2)A.

SAXON COAL LIMITED

PREPARED BY:

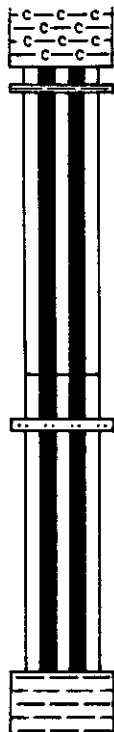
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T78-4-13

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-001

ROCK	COAL
0.05	0.12
	1.90
0.08	0.30
	1.61
0.13	3.93
4.06	



ROOF: CARB. CLAYSTONE - IN CONTACT, VERY WEATHERED AND BROKEN, STRIKE AND DIP TAKEN 1.12 m FROM TOP OF TRENCH 133/43 SW, 133/40 SW

COAL - WEATHERED
CLAYSTONE - WEATHERED

COAL - WEATHERED W/MANY SMALL AND SOME COBBLE-SIZED PIECES OF DULL HARD COAL

COAL - WEATHERED
SILTSTONE - WEATHERED AND BROKEN

COAL - WEATHERED W/OCC. PIECES OF DULL HARD COAL

FLOOR: CLAYSTONE - IN CONTACT, VERY WEATHERED, NEAREST STRIKE AND DIP TAKEN 2.22 m FROM BASE OF TRENCH 137/48 SW

AVE. STRIKE AND DIP OF SEAM 133/42° SW, 137/48° SW
BEARING OF TRENCH N031, N022
PLUNGE OF TRENCH 4°, 24°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED



1978 SAXON TRENCH SECTION

T78-4-14

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-R01



ROCK	COAL
	2.13
0.01	
	0.72
0.02	0.17
	1.93
0.03	4.95°
	4.98°



ROOF: NOT IN CONTACT, 4.0m OVERBURDEN FROM TOP END OF TRENCH TO #4557.
STRIKE/DIP TAKEN 5.0m FROM TOP END OF TRENCH
128/41° SW

COAL - WEATHERED

CLAYSTONE

COAL - WEATHERED

COAL AND CLAYSTONE - COAL WITH LITTLE CLAYSTONE (10%) MIXED

COAL - WEATHERED

SILTSTONE - WEATHERED SLIGHTLY, PLANTS FRAGMENTS

CLAYSTONE - SLIGHTLY CARB., PLANT FRAGMENTS

COAL - WEATHERED

FLOOR: SILTSTONE - STRIKE/DIP 136/44° SW

BEARING N036

PLUNGE 2°

PR-SAXON 78(2)A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78-4-18

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SAXON 78-0815-RO1

629

ROCK COAL

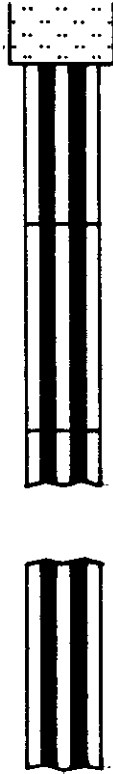
1.08

1.39

0.37

0.53

1.38



ROOF: SILTSTONE - IN CONTACT, STRIKE AND DIP 125/45°SW

COAL - WEATHERED, FROZEN

COAL - WEATHERED

COAL - WEATHERED

OVERBURDEN WITH COAL SPOIL

COAL - WEATHERED

FLOOR: NOT IN CONTACT

BEARING N040
PLUNGE 3°

PR-SAXON 28(-2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED



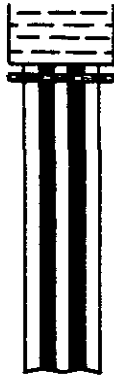
1978 SAXON TRENCH SECTION

T78-4-19

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-R01



ROCK	COAL
0.05	0.07
	2.05
	1.55
0.05	0.07
	0.65
	1.95
	0.44



ROOF: CLAYSTONE - WEATHERED, PLANT FRASS.
 STRIKE/DIP TAKEN 1.24m FROM TRENCH
 121/37 SW
 COAL - WEATHERED
 CLAYSTONE

COAL - WEATHERED

1.55

OVERBURDEN - WITH LITTLE COAL SPOIL



HARD COAL
 CLAYSTONE

HARD COAL

1.95

OVERBURDEN - WITH SOME COAL SPOIL



COAL - WEATHERED

FLOOR: NOT IN CONTACT WITH TRENCH

BEARINGS N 080
 PLUNGE 16°



PR - SAXON 74 (R)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78-4-20

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-R01

ROCK	COAL
0.05	0.13
0.07	0.06
0.09	0.08
	0.42
0.05	0.16
0.07	
	1.21
0.05	0.10
0.06	0.05
	0.27
0.13	0.16
0.17	0.33
	0.19
	0.78
	0.71
0.14	0.08
	0.07
0.07	0.10
	0.19
	0.40
	0.67
	0.36
	0.31
	0.05
	0.44
	0.42
	0.97
0.09	
	0.55
0.05	0.07
0.07	0.29
1.11	9.28
	10.39



ROOF: CARB. CLAYSTONE - PARTLY BROKEN AND WEATHERED, SOME SLICKEN SLIDES, IN CONTACT, 127/45° SW

COAL - WEATHERED WITH OCC. PIECES OF DULL AND BRIGHT HARD CLAYSTONE - WEATHERED
CLAYSTONE - WEATHERED
COAL - WEATHERED

COAL - WEATHERED, OCC. SMALL PIECES OF DULL AND BRIGHT HARD CLAYSTONE - WEATHERED
CLAYSTONE - WEATHERED
HARD COAL - BROKEN AND WEATHERED, DULL
CLAYSTONE - WEATHERED AND BROKEN

HARD COAL - MAINLY DULL WITH OCC. SMALL BANDS (0.04m) OF BRIGHT COAL BANDS OF .27-.29 INTERVALS

CLAYSTONE - WEATHERED
HARD COAL - DULL
HARD COAL - PARTLY WEATHERED AND BROKEN, MAINLY DULL AND CLAYSTONE - WEATHERED
HARD COAL - MAINLY DULL WITH OCC. PIECES OF DULL AND BRIGHT COAL

COAL - BONEY
HARD COAL - BRIGHT
COAL - BONEY
HARD COAL - MAINLY DULL AND BRIGHT, PARTLY BROKEN AND WEATHERED
COAL - WEATHERED WITH OCC. PIECES OF DULL AND BRIGHT
HARD COAL - MAINLY DULL

HARD COAL - DULL AND BRIGHT

COAL - BONEY
HARD COAL - DULL AND BRIGHT
HARD COAL - BRIGHT
HARD COAL - MAINLY DULL AND BRIGHT
CLAYSTONE - WEATHERED AND BROKEN
HARD COAL - MAINLY DULL
HARD COAL - DULL

COAL - WEATHERED, MANY SMALL PIECES OF DULL AND BRIGHT COAL MIXED IN

HARD COAL - DULL AND BRIGHT, BROKEN AND WEATHERED

COAL - WEATHERED
HARD COAL - DULL

COAL - WEATHERED

COAL - WEATHERED WITH OCC. PIECES OF DULL COAL

COAL - WEATHERED

COAL - BONEY

COAL -
CLAYSTONE - WEATHERED
COAL - WEATHERED
CLAYSTONE - WEATHERED
COAL -

FLOOR: NOT IN CONTACT, NO OUT CROP AVAILABLE FOR STRIKE / DIP

PR - SAXON 78 (2) A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78-4-23

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-001

BEARING N019, N201
PLUNGE 6°, 14°



ROCK	COAL
	0.21
	0.42
0.09	0.06
0.04	0.21
	0.16
	0.37
	0.83
	0.18
	0.10
	0.41
	0.18
	1.71
0.13	4.84
	4.97



ROOF: SILTY CLAYSTONE - WEATHERED, LIGHT BROWN, PLANT FRAGMENTS.

COAL - WEATHERED

COAL - WEATHERED

CLAYSTONE - WEATHERED

COAL - WEATHERED

HARD COAL - BONEY

COAL - WEATHERED

HARD COAL - DULL, PARTIALLY WEATHERED

COAL - WEATHERED

COAL - WEATHERED, HARD COAL (DULL) PIECES MIXED

OVERBURDEN - SOIL MIXED WITH 50% WEATHERED COAL CONSIDERED TO BE COAL (FROM DRILL HOLE CORRELATION)

COAL - WEATHERED

COAL - WEATHERED WITH OCC. DULL AND BRIGHT PIECES

COAL - WEATHERED

COAL - WEATHERED

CARB. CLAYSTONE - WEATHERED

SILTSTONE

COAL - WEATHERED

COAL - 60% WEATHERED, 40% CLAYSTONE PIECES INTERMIXED.

FLOOR: SILTY CLAYSTONE - PLANT FRAGMENTS. 122/45° SW.

AVE. STRIKE AND DIP OF SEAM 126/52° SW
 BEARING OF TRENCH N 214, N020
 PLUNGE OF TRENCH 6°, 1°

PR-SAXON 78(2)A.

SAXON COAL LIMITED

PREPARED BY:

DENISON MINES LIMITED



1978 SAXON TRENCH SECTION

T78-4-25

DRAWN BY: R.Z.

DATE: NOV. 78

SCALE: 1:50

PREP'D BY:

DATE:

DRAWING NUMBER:

APPR'D BY:

DATE:

SXON 78-0815-R01

ROCK	COAL
0.26	0.38
	1.97
0.08	0.51
0.34	2.86
3.20	



ROOF: NOT AVAILABLE, CLAYSTONE AND SOIL INTERMIXED, 131/55° SW

COAL AND ROCK - INTERMIXED, APPROX. 40% CLAYSTONE

COAL - WEATHERED

COAL - BONEY

COAL - WEATHERED

FLOOR: CLAYSTONE - WEATHERED AND BROKEN, NO STRIKE/DIP AVAILABLE, 122/57° SW

BEARING N020

PLUNGE 4°

PR- Saxon 78 (2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

7 78-4-26

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-001

ROOF: NOT IN CONTACT, 134/52° SW, 1.00m AWAY FROM TRENCH

ROCK	COAL
	0.69
0.03	
	0.39
0.07	
	0.45
0.02	
	1.38
0.07	
	0.58
0.19	3.47*
	3.66*



COAL - WEATHERED
 COAL - BONEY
 COAL - WEATHERED
 CARB. CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED
 CARB. CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE - WITH OCC. CARB.
 COAL - WEATHERED
 CLAYSTONE - WITH OCC. CARB.
 COAL - BONEY

BEARING N005
 PLUNGE 6°

PR SAXON 24 (2) A

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
1978 SAXON TRENCH SECTION T78-4-27		
DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1

629

ROCK	COAL
0.03	0.03 0.05 0.12 0.08
	0.79
0.19	
0.03	0.08
	0.88
	0.84
0.04	0.03
0.05	0.03
0.05	0.41
0.39	3.32
	3.71°



ROOF: SILTY CLAYSTONE - IN CONTACT, STRIKE/DIP
TAKEN 5m FROM TOP END OF TRENCH, 127/35° SW

COAL - WEATHERED, SHEARED
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
COAL - HARD

COAL - WEATHERED

COAL - DONEY
COAL - WEATHERED
SILTSTONE

COAL - WEATHERED

COAL - WEATHERED

CLAYSTONE - WEATHERED
COAL - WEATHERED
CLAYSTONE
COAL - WEATHERED
COAL - DONEY
COAL - WEATHERED

BEARING N043
PLUNGE 26°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED

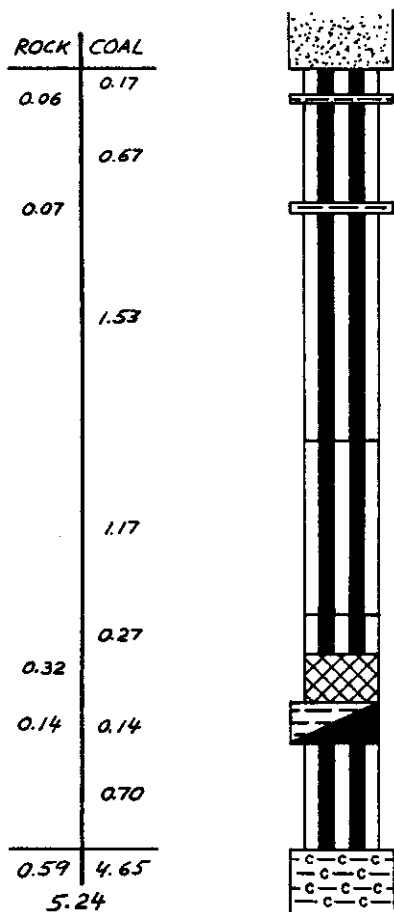
PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78-4-36

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-RO1

629



ROOF: SANDSTONE - LIGHT BROWN, VERY BROKEN AND WEATHERED, MIXED WITH OVERBURDEN. NO STRIKE/DIP AVAILABLE, NEAREST STRIKE/DIP TAKEN 40m FROM ROOF, 121/36° SW IN CONTACT

COAL - WEATHERED
CLAYSTONE

COAL - WEATHERED

CLAYSTONE

COAL - WEATHERED

COAL - WEATHERED, WITH MANY BROKEN PIECES OF HARD COAL

COAL - WEATHERED

COAL - BONEY

CLAYSTONE AND COAL - BROKEN, MIXED ≈ 50% OF EACH

COAL - WEATHERED

FLOOR: CARB. CLAYSTONE - BROKEN AND WEATHERED
NO STRIKE AND DIP AVAILABLE, IN CONTACT

AVE STRIKE AND DIP OF SEAM 121/36° SW
BEARING OF TRENCH N 030
PLUNGE OF TRENCH 6°

PR - SAXON 78 (2) A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

1978 SAXON TRENCH SECTION
T 78-4-33

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0815-RO1

629

ROCK	COAL
0.04	0.04
0.08	0.04
0.05	0.25
	0.20
	1.52
0.21	
	1.71
0.18	
	0.61
0.56	4.37
	4.93



ROOF: CLAYSTONE - WEATHERED, SLIGHTLY BROKEN
 STRIKE/DIP FOR ROOF IS TAKEN 6m FROM TOP END OF
 TRENCH, 127/48° SW, IN CONTACT

COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED
 CLAYSTONE
 COAL - WEATHERED

COAL - WEATHERED, WITH OCC. SMALL PIECES OF DULL HARD
 COAL

COAL - BONEY

COAL - WEATHERED

COAL - BONEY

COAL - WEATHERED

FLOOR: STRIKE/DIP IS TAKEN 10m FROM BOTTOM END
 OF TRENCH, 129/52° SW, NOT IN CONTACT

BEARINGS N062
 PLUNGE 15°

PR - SAXON 78 (2)A

SAXON COAL LIMITED

PREPARED BY:
 DENISON MINES LIMITED

1978 SAXON TRENCH SECTION

T 78 - 4 - 35

DRAWN BY: R.Z.	DATE: NOV. 78	SCALE: 1:50
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 78-0815-RO1

629

GEOLOGICAL LEGEND

- DRIFT COVERED AREA
- GEOLOGICAL BOUNDARY (Defined Approximate) (Assumed Gradational)
- LIMIT OF GEOLOGICAL MAPPING
- BEDDING TOPS KNOWN (Measured, Estimated, Vertical, Overturned, Dip Unknown)
- BEDDING TOPS UNKNOWN (Measured, Vertical, Dip Unknown)
- BEDDING ESTIMATED DIP (Gentle, Moderate, Steep)
- DRAG FOLD (Arrow indicates Plunge)
- STRUCTURAL TREND (From Aerial Photograph)
- FAULT (Defined, Approximate, Assumed)
- FAULT (Inclined, Vertical)
- FAULT (Overturned, Side, Relative Movement)
- THRUST FAULT (Points in Direction of Dip - Defined)
- THRUST FAULT (Approximate, Assumed)
- JOINT (Inclined, Vertical, Horizontal)
- ANTICLINE (Defined, Approximate)
- ANTICLINE (Overturned, Syncline (Overturned))
- ANTICLINE OR SYNCLINE (Arrow indicates Plunge)
- ESCARPMENT
- FOSSIL LOCATION
- COAL ZONES DEFINED (Inferred, Assumed)

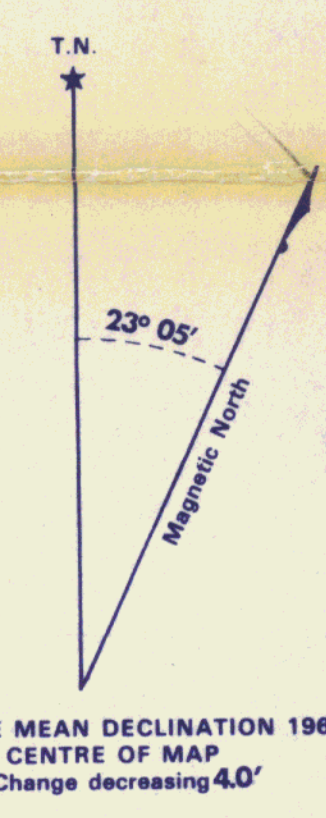
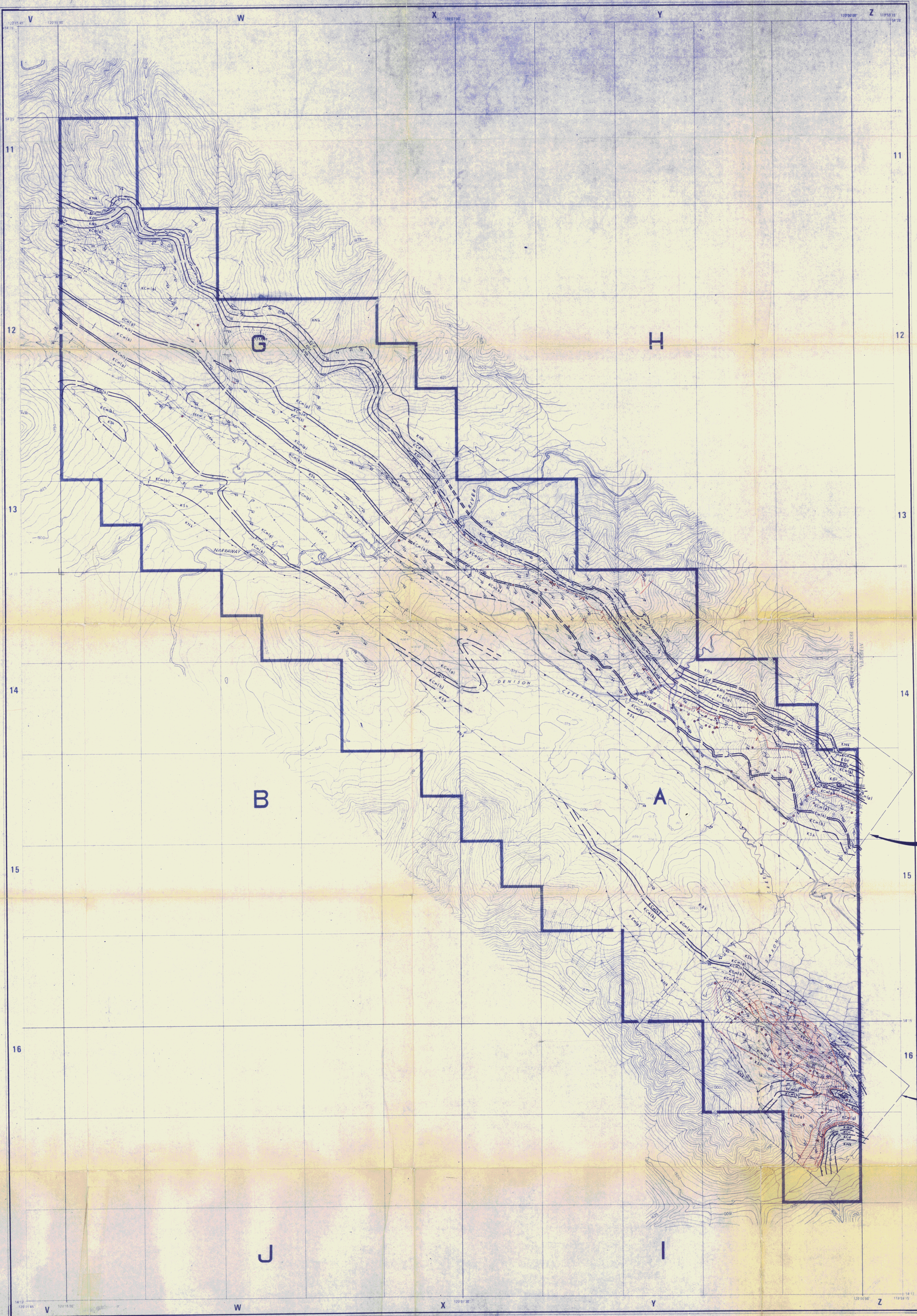
- UPPER CRETACEOUS**
- KDu** DUNVEGAN FORMATION: Marine and non-marine sandstone and shale
- LOWER CRETACEOUS - FORT ST. JOHN GROUP -**
- KSh** SHAFESBURY FORMATION: Marine shale
*North of the Wolverine River the Shaferbury Fm. is differentiated into Heale, Goodrich & Cruiser Formations.
 - KCr** CRUISER FORMATION: Marine shale
 - KGo** GOODRICH FORMATION: Fine-grained sandstone
 - KHa** HASLER FORMATION: Dark marine shale
 - KCom** COMMOTION FORMATION (Undifferentiated)
 - KCom(b)** COMMOTION FORMATION, Boulder Creek Member: conglomerate, coarse to fine-grained sandstone, shale, coal
 - KCom(h)** COMMOTION FORMATION, Halross Member: dark marine shale
 - KCom(g)** COMMOTION FORMATION, Gates Member: carbonaceous sandstone, shale, coal
 - KMb** MOOSEBAR FORMATION: dark marine shale
- BULLHEAD GROUP -**
- KGl** GETHING FORMATION: conglomerate, carbonaceous sandstone and shale, coal
 - KCa** CADOMIN FORMATION: massive conglomerate
- JURASSIC AND CRETACEOUS LOWER CRETACEOUS AND EARLIER**
- KNh** NIKANASSIN FORMATION: fine-grained sandstone and carbonaceous shale

- TOPOGRAPHIC LEGEND**
- ACCESS ROAD ALL WEATHER
 - ACCESS ROAD LIMITED WEATHER
 - ACCESS TRAIL LIMITED WEATHER
 - RAILWAY
 - AIR STRIP
 - SEISMIC LINE CUT LINE
 - POWER TRANSMISSION LINE
 - TRENCH
 - ADIT OPEN CAVED
 - GAS WELL
 - DRY HOLE
 - DRILL HOLE
 - CAMP SITE
 - CAMP GROUND PUBLIC
 - FOREST SERVICE LOOKOUT STATION
 - HORIZONTAL AND VERTICAL CONTROL
 - RIVER
 - STREAM
 - LAKE
 - SWAMP
 - CONTOURS
 - DEPRESSION CONTOUR
 - PROPERTY BOUNDARY
 - CROSS SECTION LINES

CONTROL SURVEY NOTE

The Horizontal and Vertical Co-ordinates were established by White, Hooford & Impey Ltd. Horizontal distances were reduced to mean sea level, elevations were derived by Trig Levelling.

Horizontal Co-ordinates shown are converted B.C. Government Polyconic Rectangular Co-ordinates based on Clarke 1866 Spheroid. Bearings referred to the Meridian through 121° West. Co-ordinates derived from Trig Station Co-ordinates 6 (2374) Lat. 54° 01' 30.33" Long. 120° 52' 38.31" 28815.52 ft. North, 8453.58 ft. East. Elevations shown are above mean sea level (Geoidetic) derived from Trig Station Co-ordinates 6 (2374) Elevation 6064 ft.



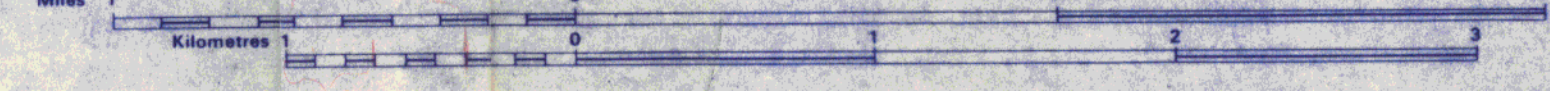
SAXON EAST BASE MAP OUTLINE

SAXON SOUTH BASE MAP OUTLINE



**SAXON PROJECT
BRITISH COLUMBIA**

SCALE 1:25,000



CONTOUR INTERVAL 25 METRES

NOTE: 25 Metre contour was interpolated from photogrammetric map and field data collected from aerial photographs taken 1970 to 1974 at 1:50,000 National Topographic Series scale.

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V.K. SAXON JR. (S.A.)
SAXON COAL LIMITED
 PREPARED BY
DENISON MINES LIMITED
 COAL DIVISION

GEOLOGY

DRAWN BY: J.T.T. DATE: Jan 77 SCALE: 1:25,000
 TRF'D BY: H.T., S.D. DATE: Jan 77
 APP'D BY: B.J. DATE: Jan 77 SAXON 75-0016-800

43/58
629

629

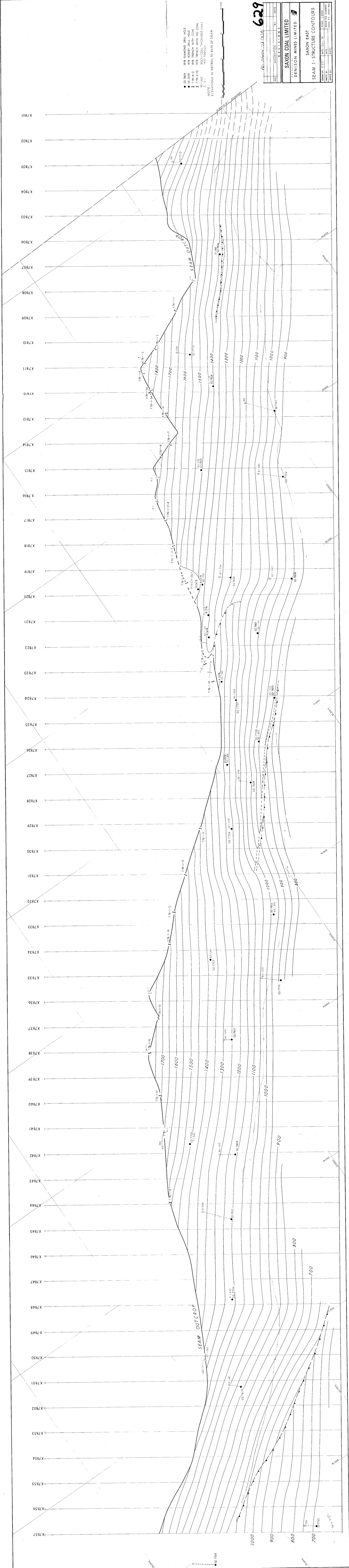
NO.	DESCRIPTION	BY	DATE

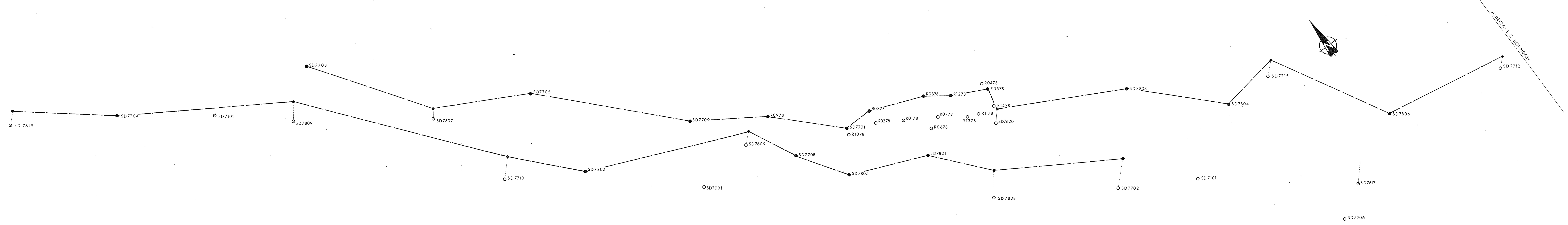
SAXON COAL LIMITED
DENISON MINES LIMITED

SAXON EAST
SEAM 1-STRUCTURE CONTOURS

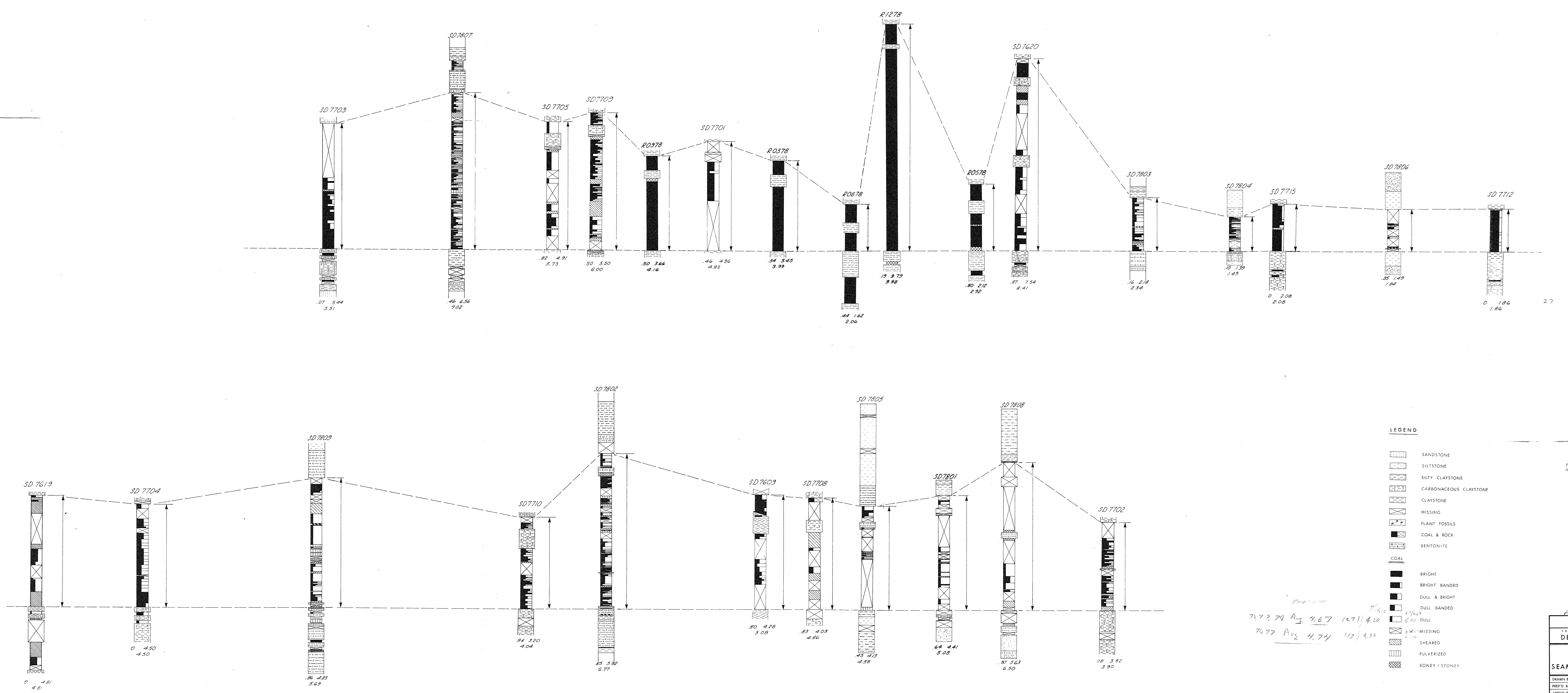
DRAWN BY	DATE	SCALE
CHECKED BY	DATE	DRAWING NUMBER
APPROVED BY	DATE	SECTION

- SD 7800 1978 DIAMOND DRILL HOLE
- SR 0378 1978 ROTARY DRILL HOLE
- 178-4-2 1978 TRENCH WITH COAL
- 178-1-10 1978 TRENCH WITH NO COAL
- 90/592 ROCK/COAL THICKNESS (mm)
- 1977 TRENCH
- NOTE: 1-5-1
- ELEVATIONS IN METRES TO BASE OF SEAM





LOCATION MAP
SCALE 1:7500



LEGEND

- SANDSTONE
- SILTSTONE
- SILTY CLAYSTONE
- CARBONACEOUS CLAYSTONE
- CLAYSTONE
- MISSING
- PLANT FOSSILS
- COAL & ROCK
- BENTONITE
- COAL
- BRIGHT
- BRIGHT BANDED
- DULL & BRIGHT
- DULL BANDED
- DULL
- MISSING
- SHEARED
- PULVERIZED
- BONEY / STONEY

THICKNESS OF MIN. SECTION
IN METRES

ROCK COAL
TOTAL

MINING
SECTION

7677 Aug 4.67 (27) 4.20
7677 Aug 4.74 (12) 4.33

629

PREPARED BY
SAXON COAL LIMITED

FOR DENISON MINES LIMITED

SAXON EAST
SEAM 1 MINING SECTION CORRELATION

DRAWN BY: ETT/RY DATE: 1 Nov. 1978 SCALE: 1:50
PREP'D BY: DATE: DRAWING NUMBER:
APPR'D BY: DATE: Saxon 77-0758- R04

NO.	DESCRIPTION	DATE	BY

629

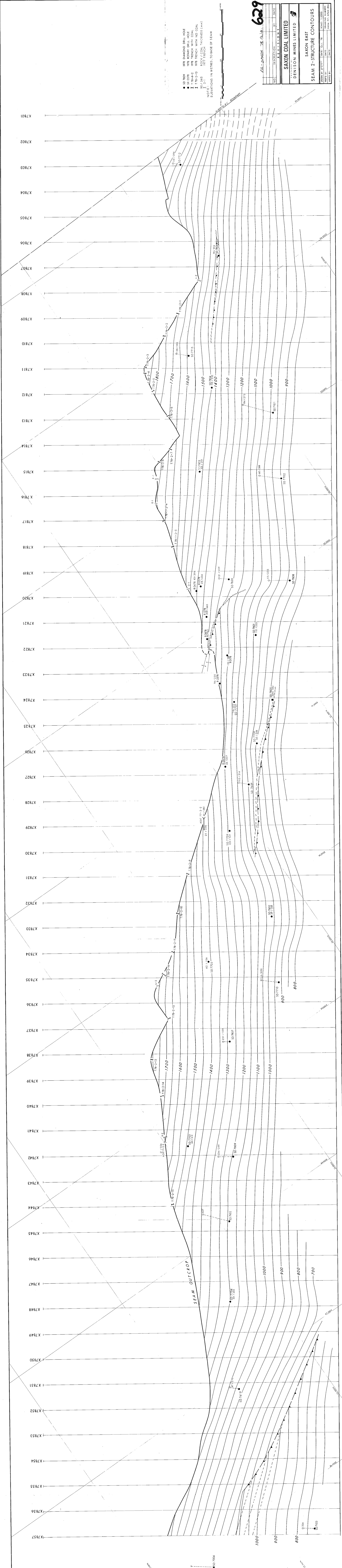
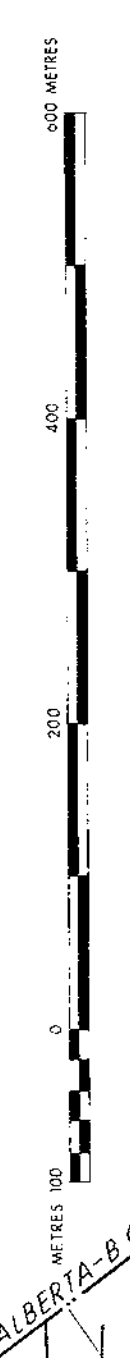
SAXON COAL LIMITED
DENISON MINES LIMITED

SAXON EAST
SEAM 2 - STRUCTURE CONTOURS

SCALE	1:5000
DRAWING NUMBER	
DATE	
APPROVED BY	

- SD 7809 1978 DIAMOND DRILL HOLE
- SD 0278 1978 ROTARY DRILL HOLE
- ┆ 178-2-2 1978 TRENCH WITH COAL
- ┆ 178-2-0 1978 TRENCH WITH NO COAL
- 178-2-5 1978 TRENCH
- 178-2-4 1978 TRENCH
- 178-2-3 1978 TRENCH
- 178-2-1 1978 TRENCH
- 178-2-6 1978 TRENCH
- 178-2-7 1978 TRENCH
- 178-2-8 1978 TRENCH
- 178-2-9 1978 TRENCH
- 178-2-10 1978 TRENCH
- 178-2-11 1978 TRENCH
- 178-2-12 1978 TRENCH
- 178-2-13 1978 TRENCH
- 178-2-14 1978 TRENCH
- 178-2-15 1978 TRENCH
- 178-2-16 1978 TRENCH
- 178-2-17 1978 TRENCH
- 178-2-18 1978 TRENCH
- 178-2-19 1978 TRENCH
- 178-2-20 1978 TRENCH
- 178-2-21 1978 TRENCH
- 178-2-22 1978 TRENCH
- 178-2-23 1978 TRENCH
- 178-2-24 1978 TRENCH
- 178-2-25 1978 TRENCH
- 178-2-26 1978 TRENCH
- 178-2-27 1978 TRENCH
- 178-2-28 1978 TRENCH
- 178-2-29 1978 TRENCH
- 178-2-30 1978 TRENCH
- 178-2-31 1978 TRENCH
- 178-2-32 1978 TRENCH
- 178-2-33 1978 TRENCH
- 178-2-34 1978 TRENCH
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- 178-2-73 1978 TRENCH
- 178-2-74 1978 TRENCH
- 178-2-75 1978 TRENCH
- 178-2-76 1978 TRENCH
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- 178-2-80 1978 TRENCH
- 178-2-81 1978 TRENCH
- 178-2-82 1978 TRENCH
- 178-2-83 1978 TRENCH
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- 178-2-85 1978 TRENCH
- 178-2-86 1978 TRENCH
- 178-2-87 1978 TRENCH
- 178-2-88 1978 TRENCH
- 178-2-89 1978 TRENCH
- 178-2-90 1978 TRENCH
- 178-2-91 1978 TRENCH
- 178-2-92 1978 TRENCH
- 178-2-93 1978 TRENCH
- 178-2-94 1978 TRENCH
- 178-2-95 1978 TRENCH
- 178-2-96 1978 TRENCH
- 178-2-97 1978 TRENCH
- 178-2-98 1978 TRENCH
- 178-2-99 1978 TRENCH
- 178-2-100 1978 TRENCH

NOTE: ELEVATIONS IN METRES TO BASE OF SEAM



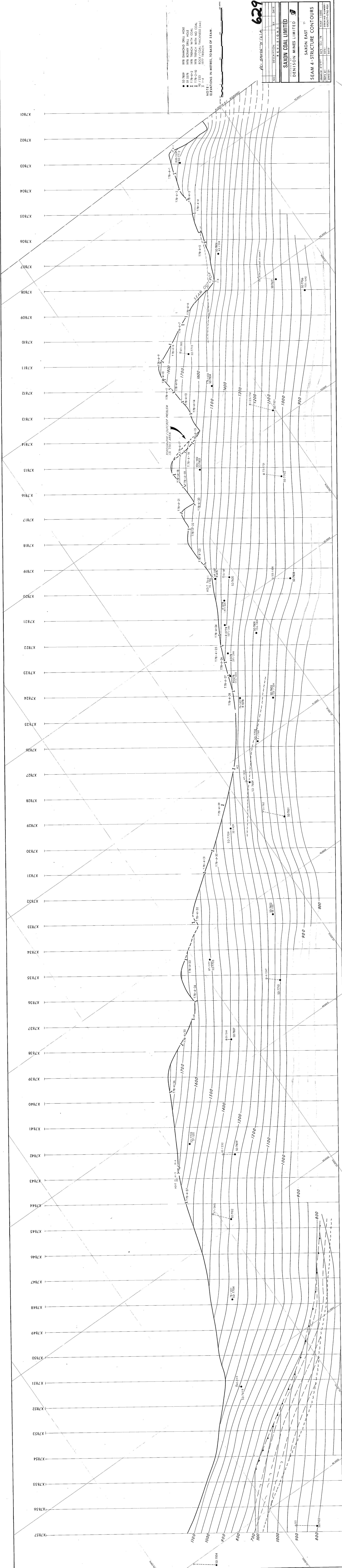
629

Saxon Coal Limited
 DENISON MINES LIMITED
 SAXON EAST
 SEAM 4-STRUCTURE CONTOURS

NO.	DESCRIPTION	BY	DATE

DRAWN BY: E.P.T.
 DATE: 01/1/78
 SCALE: 1:5000
 DRAWING NUMBER: SDN7742E-001
 CHECKED BY: []
 DATE: []
 SCALE: []

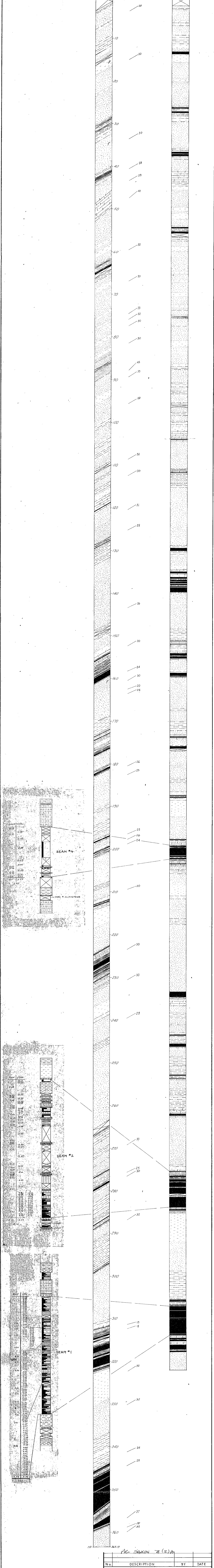
- SD 7809 1978 DIAMOND DRILL HOLE
 - SS 8378 1978 ROTARY DRILL HOLE
 - 1978 TRENCH WITH COAL
 - 1978 TRENCH WITH ROCK / LOCAL THICKNESS (mm)
 - 1-4 1977 FRENCH
- NOTE: ELEVATIONS IN METRES, TO BASE OF SEAM.



SEAM DETAIL
1/50

APPARENT THICKNESS
1/200

TRUE THICKNESS
1/200



PR- SAXON 78 (2)A

No.	DESCRIPTION	BY	DATE
REVISIONS			

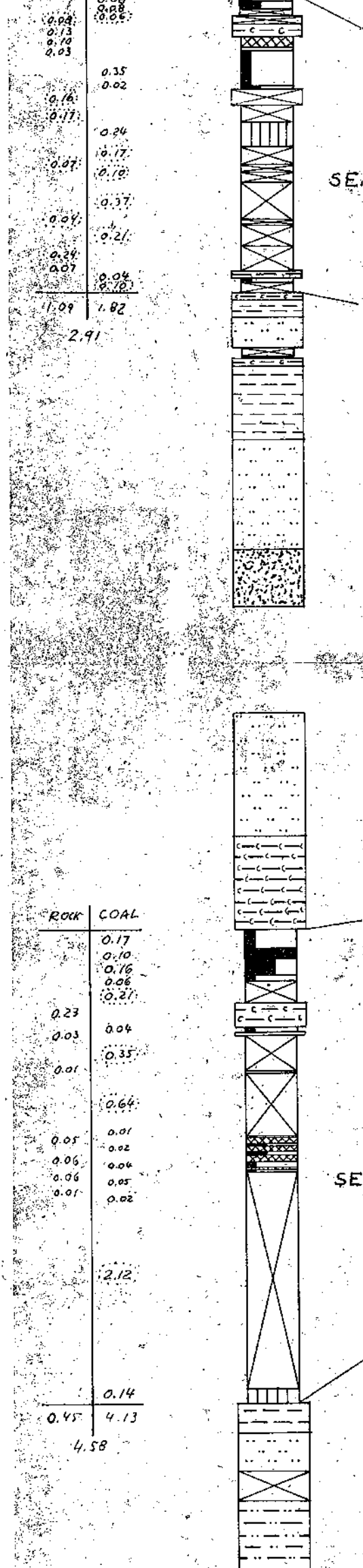
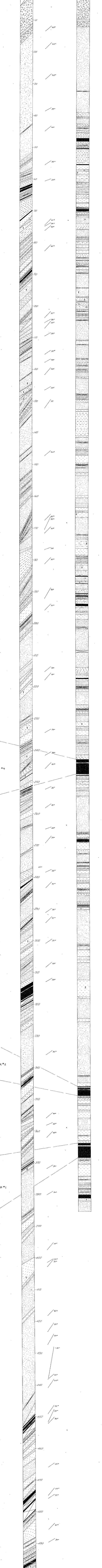
SAXON COAL LIMITED		
PREP'D BY: DENISON MINES LIMITED		
SAXON DRILL LOG SD 7807		
DRAWN BY: E.T.	DATE: Dec 1978	SCALE: 1/200 1/50
PREP'D BY:	DATE:	DRAWING NUMBER: SAXON 78-0820-201
APP'D BY:	DATE:	

629

SEAM DETAIL
1/200

APPARENT THICKNESS
1/200

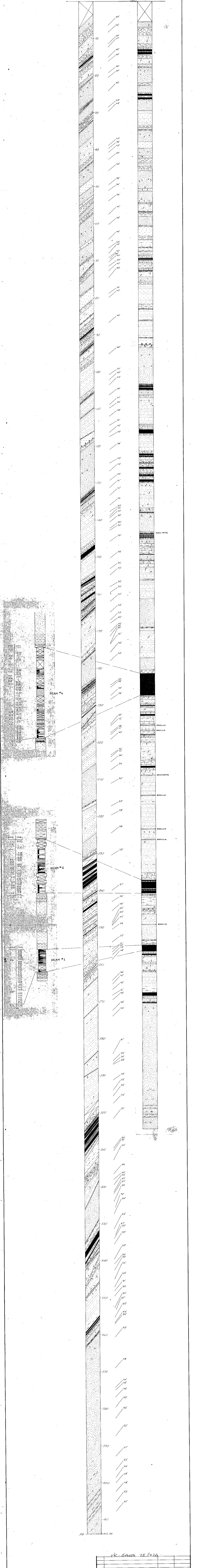
TRUE THICKNESS
1/200



SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:500



PC-SAXON 78 (2)A

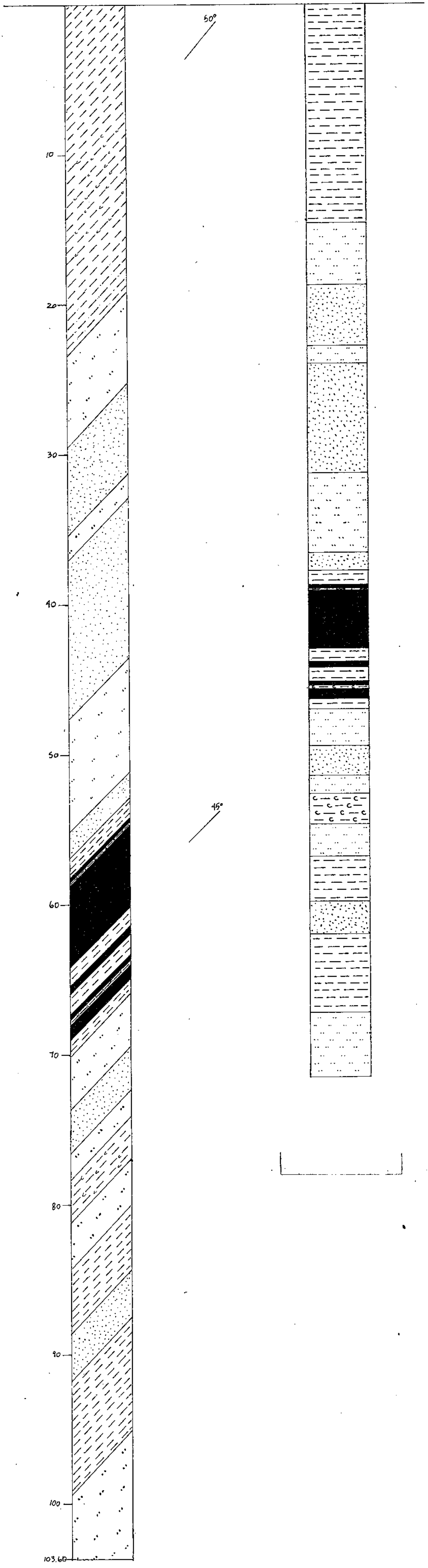
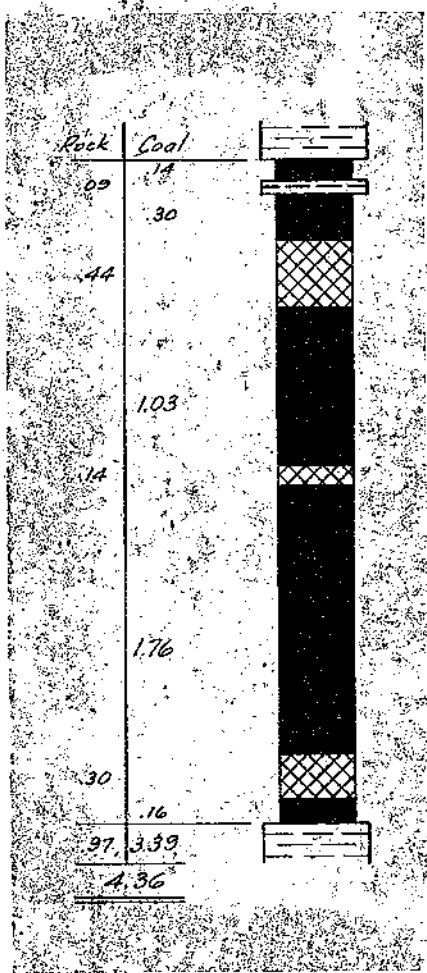
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REVISIONS			
SAXON COAL LIMITED			
PREPARED BY: DENISON MINES LIMITED			
SAXON DRILL LOG SD 7804			
DRAWN BY:	DATE: Dec. 1928	SCALE: 1:200 1:500	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APP'D BY:	DATE:	SAXON 78-0820-R01	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PC- SAXON 78(2)A.

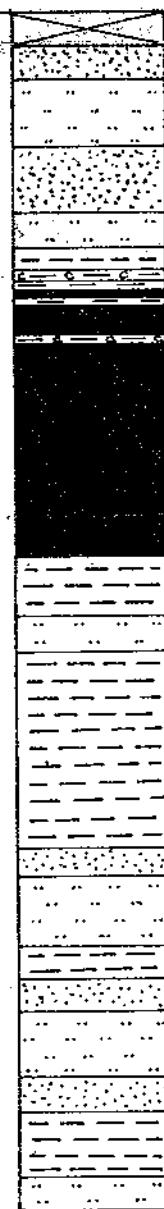
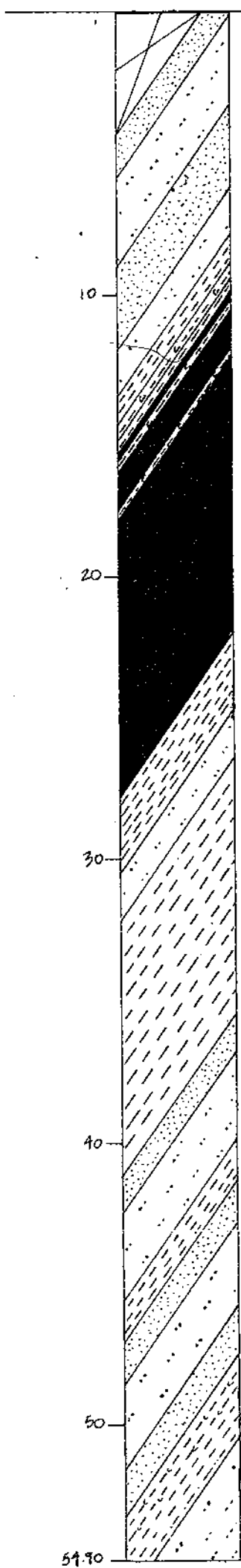
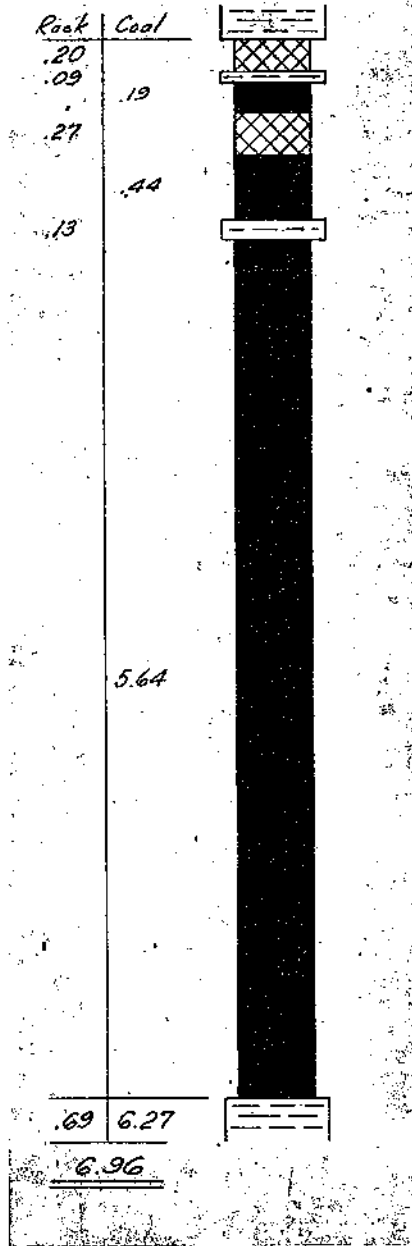
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REVISIONS			
SAXON COAL LIMITED			
PREPARED BY DENISON MINES LIMITED			
SAXON DRILL LOG SR 1378			
DRAWN BY: R. C.	DATE: DEC '78	SCALE: 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APP'D BY:	DATE:	SAXON 78-0821-R01	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78 (2)A

No.	DESCRIPTION	BY	DATE
REVISIONS			

SAXON COAL LIMITED

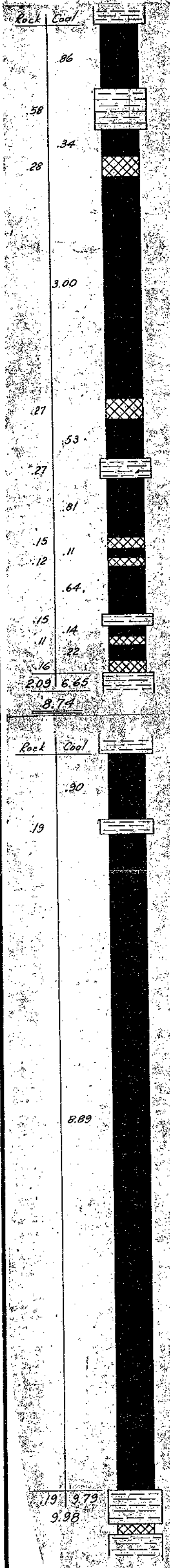
PREPARED BY:
DENISON MINES LIMITED

SAXON DRILL LOG
SR 1478

DRAWN BY: R.C.	DATE: DEC '78	SCALE: 50, 1:200
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SAXON 78-0821-R01

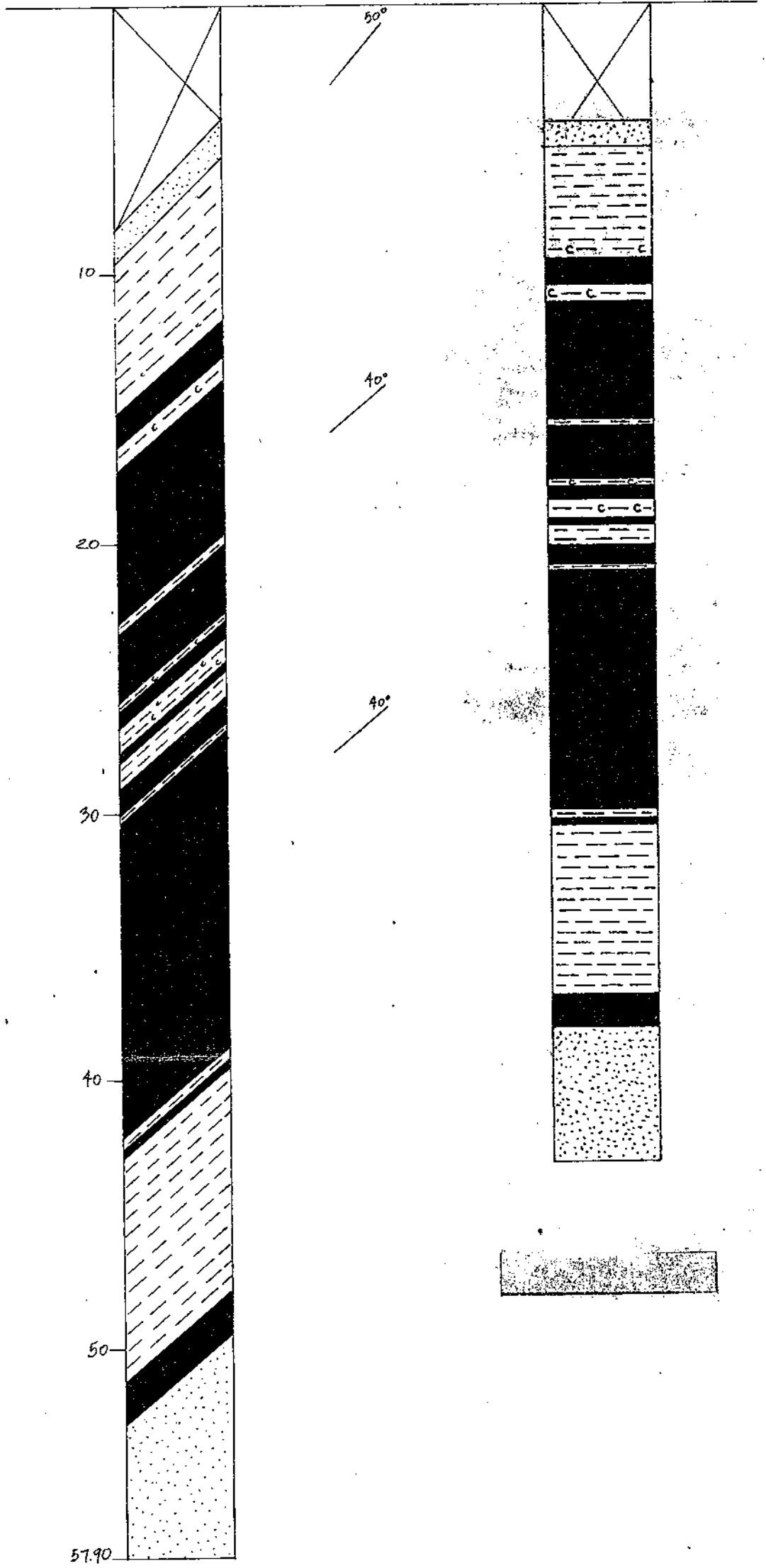
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SEAM DETAIL
1:50



APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78(2)A.

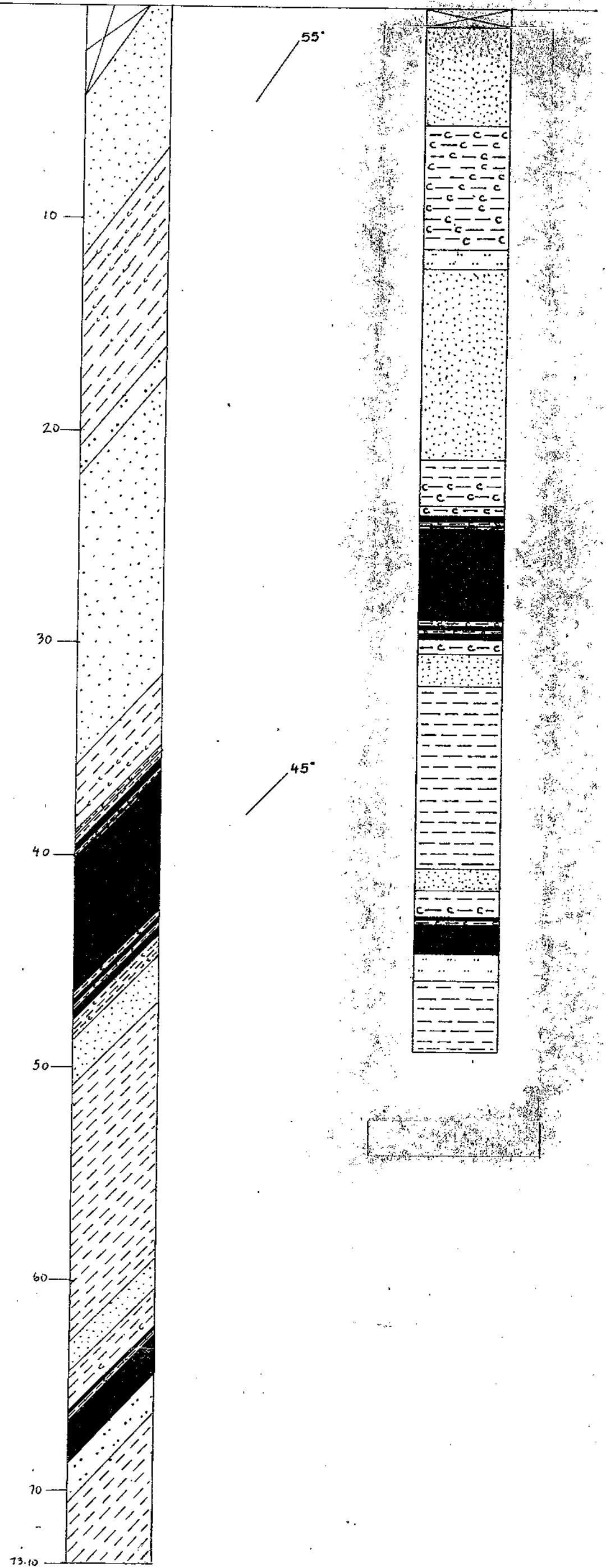
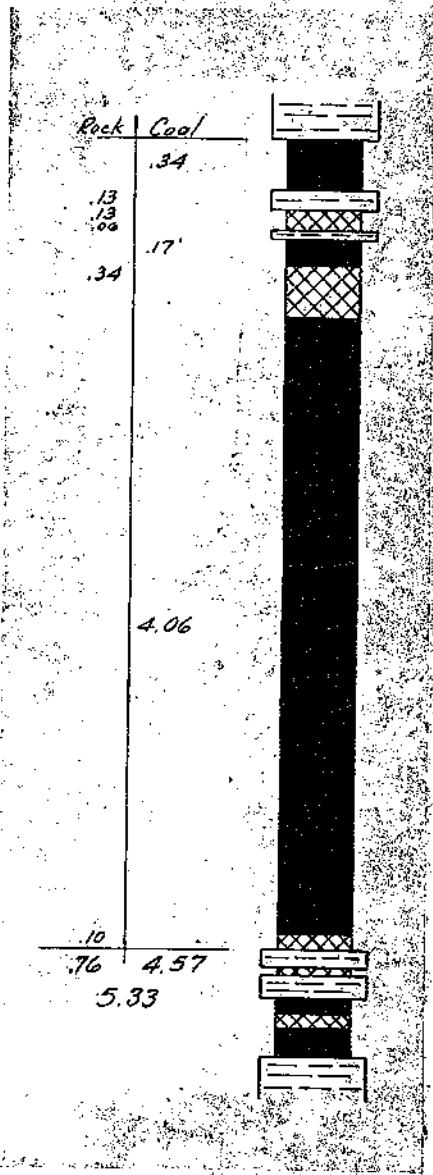
No.	DESCRIPTION	BY	DATE
REVISIONS			
SAXON COAL LIMITED			
PREPARED BY: DENISON MINES LIMITED			
SAXON DRILL LOG			
SR 1278			
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PREP'D BY:	DATE:	DRAWING NUMBER:	
APPR'D BY:	DATE:	SAXON 78-0821-001	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78(2)A

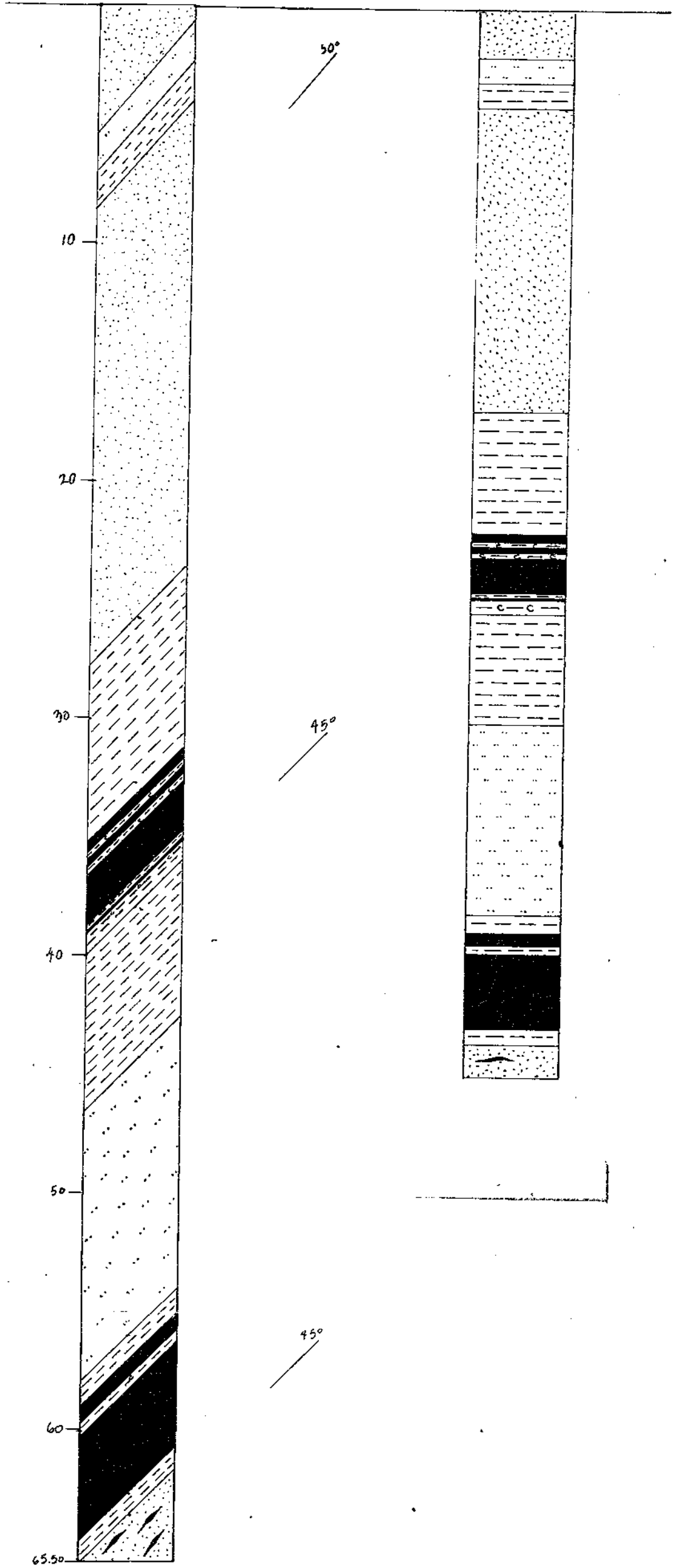
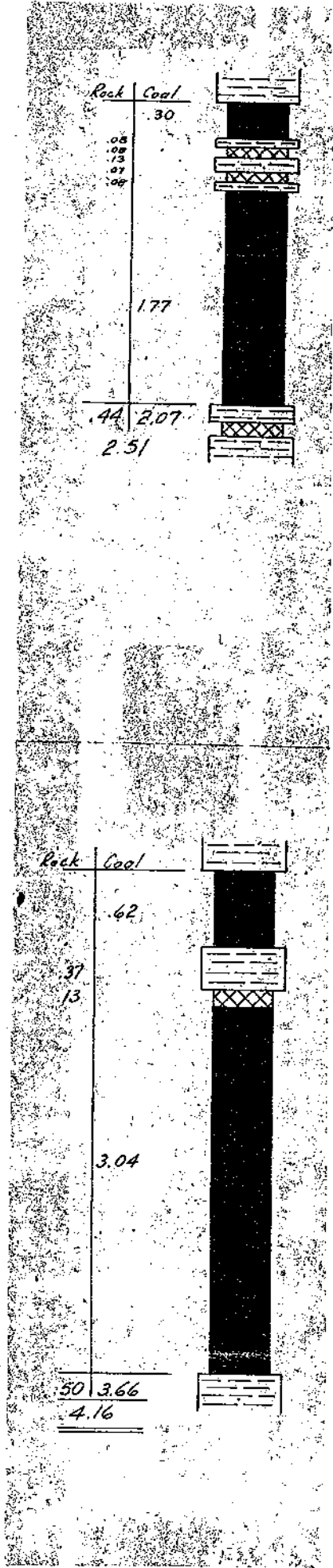
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PREPARED BY DENISON MINES LIMITED			
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PREP'D BY:	DATE:	DRAWING NUMBER:	
APP'D BY:	DATE:		

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78 (2)A.

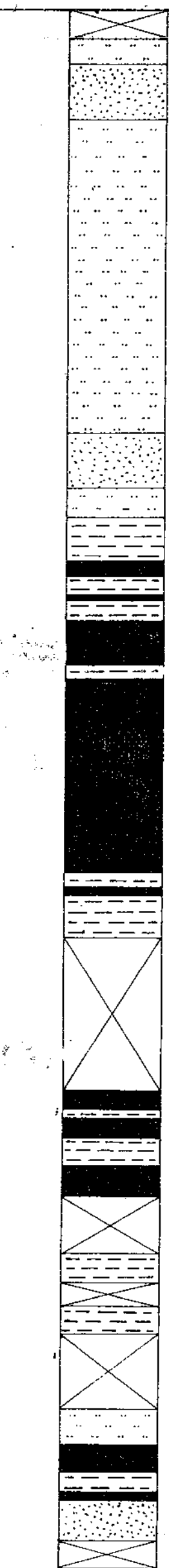
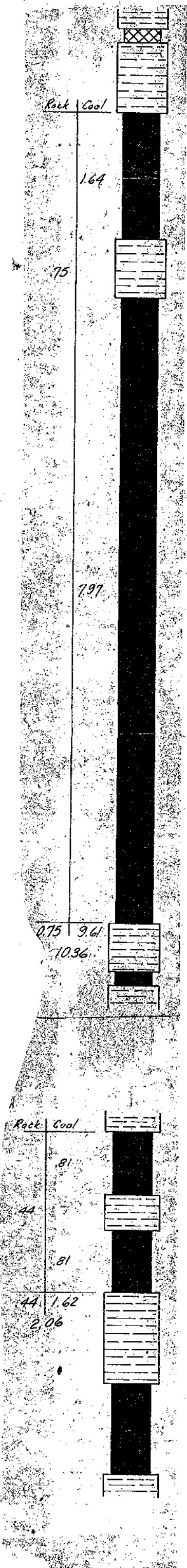
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PREPARED BY DENISON MINES LIMITED			
SAXON DRILL LOG SR 0978			
DRAWN BY: R.C.	DATE: DEC '78	SCALE 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APPR'D BY:	DATE:	SAXON 78-0821-R01	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PC-SAXON 78 (2) A.

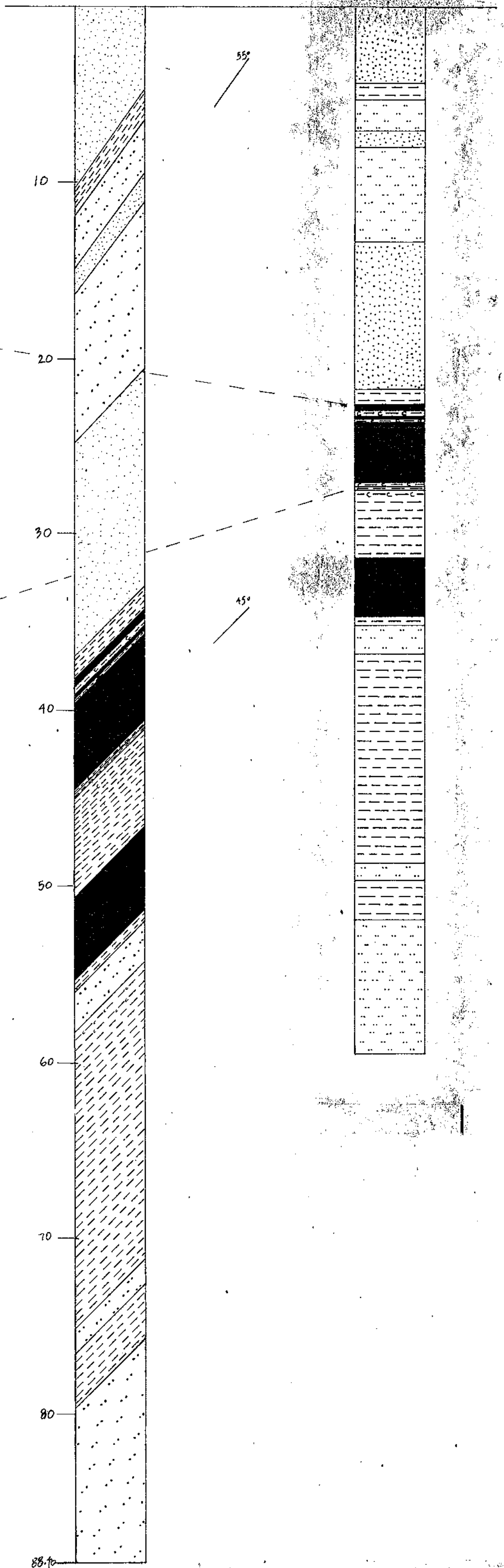
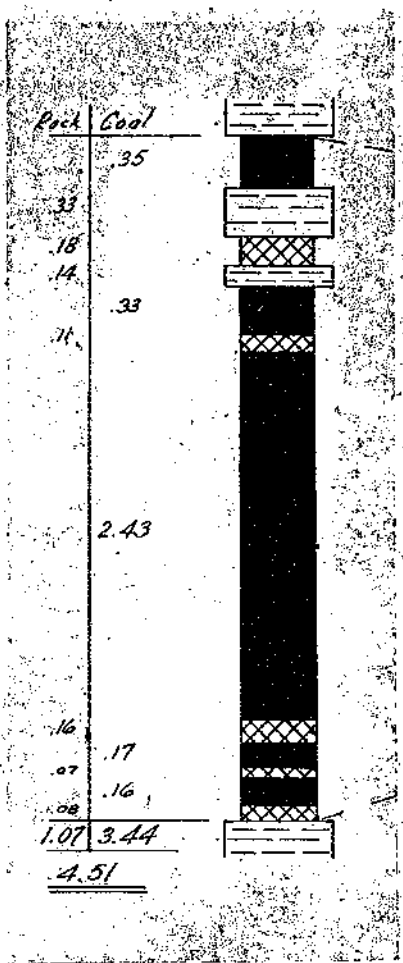
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REVISIONS			
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PREPARED BY: DENISON MINES LIMITED			
SAXON DRILL LOG SR 0878			
DRAWN BY: R.C.	DATE: DEC '78	SCALE: 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APPR'D BY:	DATE:	SAXON 78-0821-R01	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78 (2)A

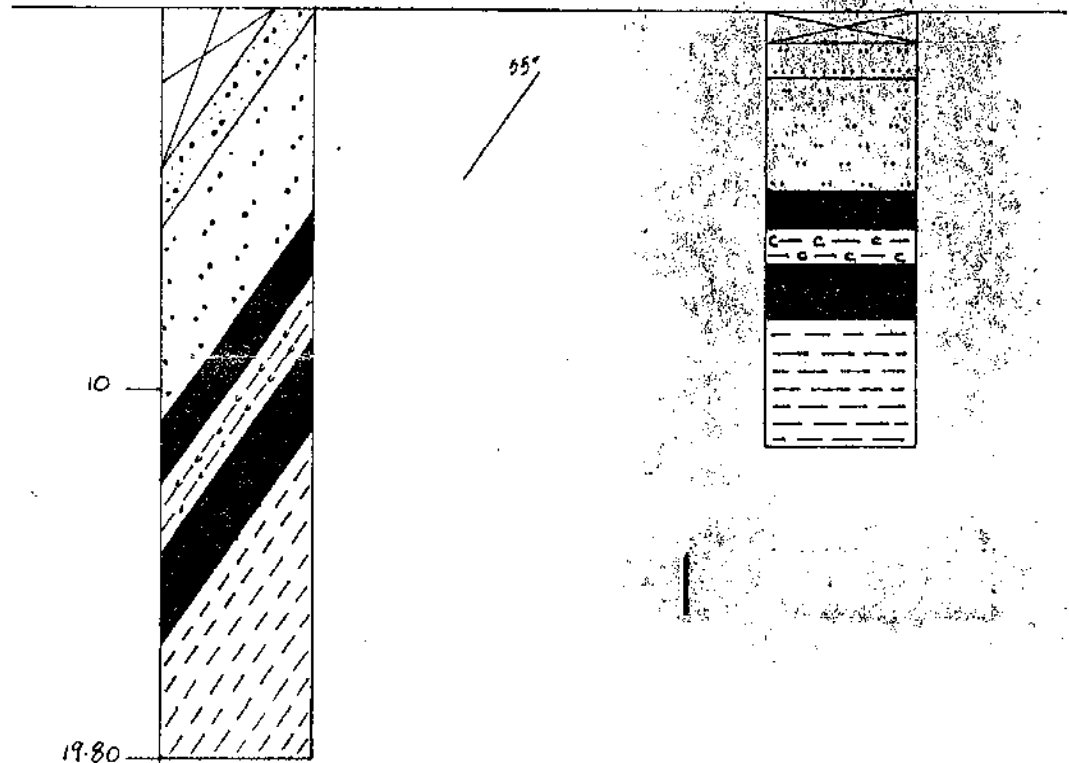
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REVISIONS			
SAXON COAL LIMITED			
PREPARED BY DENISON MINES LIMITED			
SAXON DRILL LOG SR 0778			
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PREP'D BY:	DATE:	DRAWING NUMBER	
APP'D BY:	DATE:	SAXON 78-0621-101	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



RR-SAXON 78(2)A

No.	DESCRIPTION	BY	DATE
R E V I S I O N S			

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON DRILL LOG

SR 0678

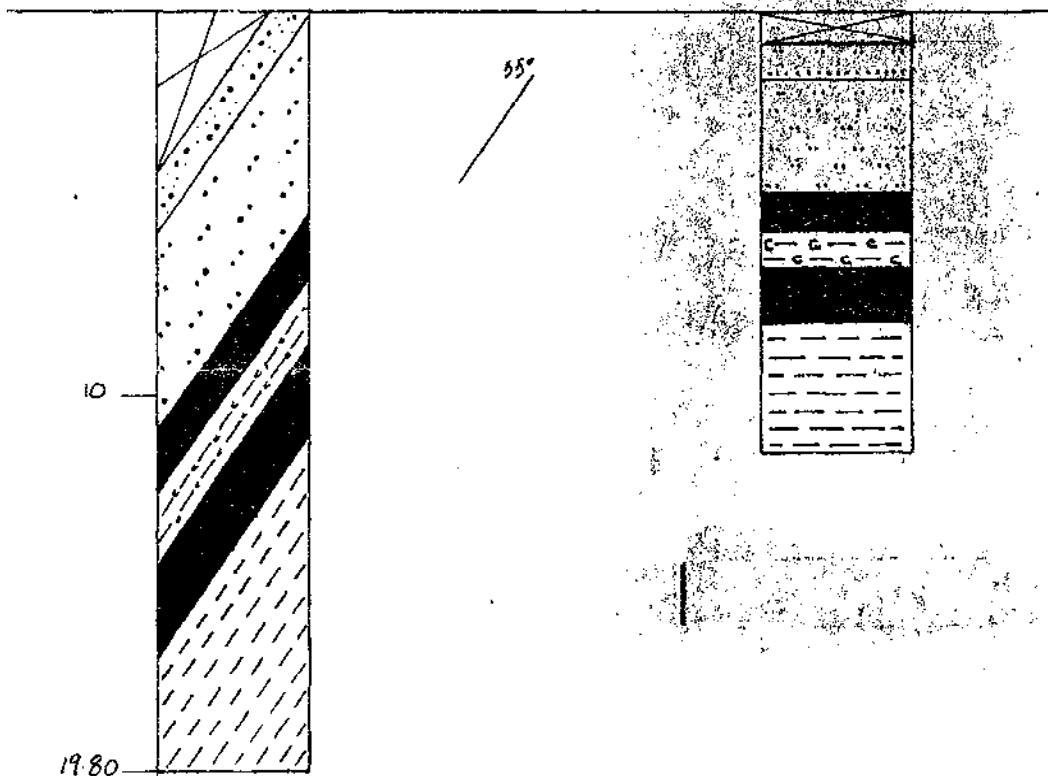
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PREP'D BY:	DATE:	DRAWING NUMBER
APP'R'D. BY:	DATE:	SXON 78-0821-R01

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78(2)A

No.	DESCRIPTION	BY	DATE
R E V I S I O N S			

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED



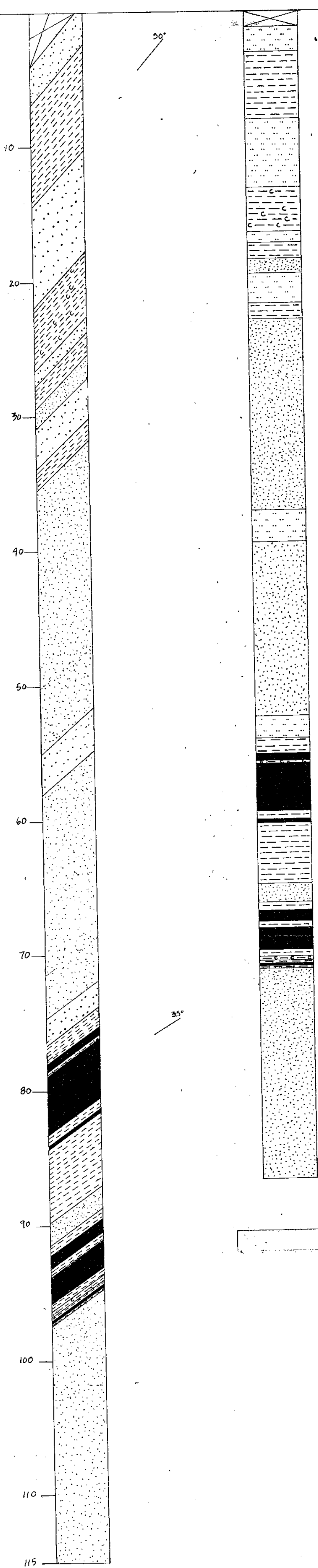
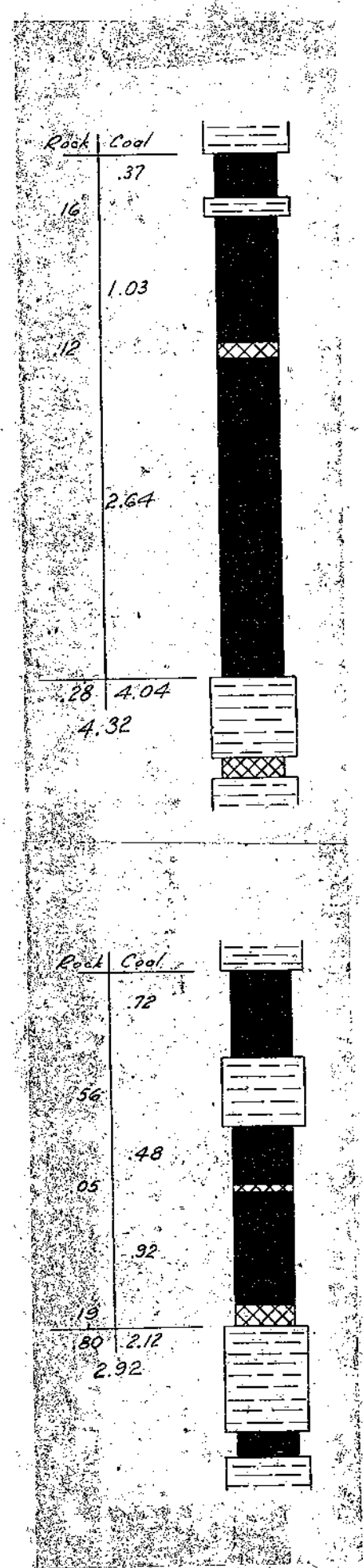
SAXON DRILL LOG
SR 0678

DRAWN BY: R. C.	DATE: DEC '78	SCALE: 1:50, 1:200
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0821-R01

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200

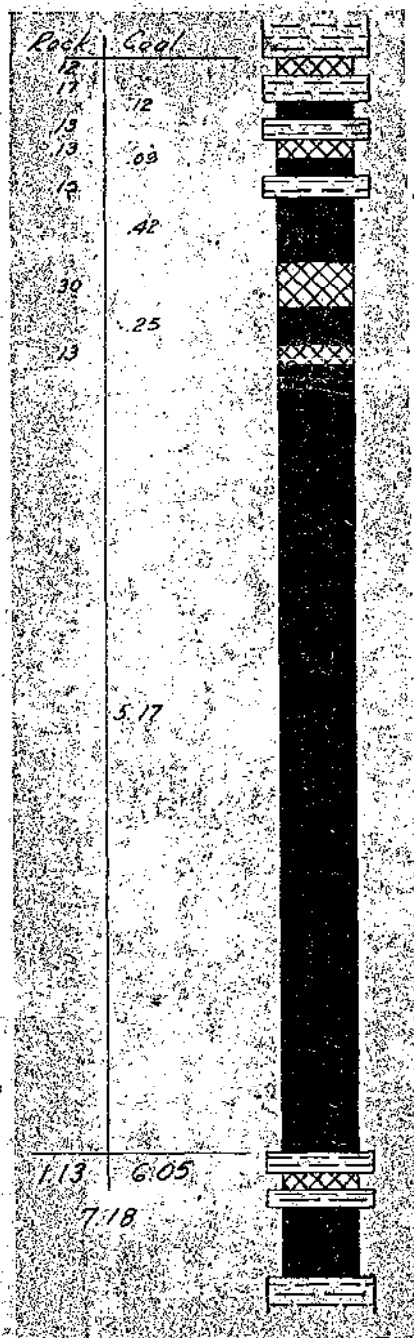


DR-SAXON 78(2)A

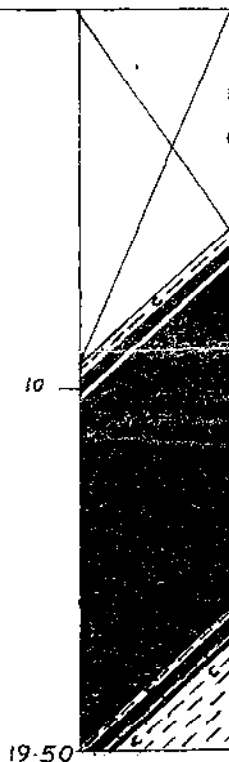
No.	DESCRIPTION	BY	DATE
REVISIONS			
SAXON COAL LIMITED			
PREP'D BY: DENISON MINES LIMITED			
SAXON DRILL LOG SR 0578			
DRAWN BY: R.C.	DATE: DEC '78	SCALE: 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APP'D BY:	DATE:	SAXON 78-0821-R01	

629

SEAM DETAIL
1:50



APPARENT THICKNESS
1:200



TRUE THICKNESS
1:200



RR-SAXON 78 (2) A.

No.	DESCRIPTION	BY	DATE
REVISIONS			

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED



SAXON DRILL LOG
SR 0278

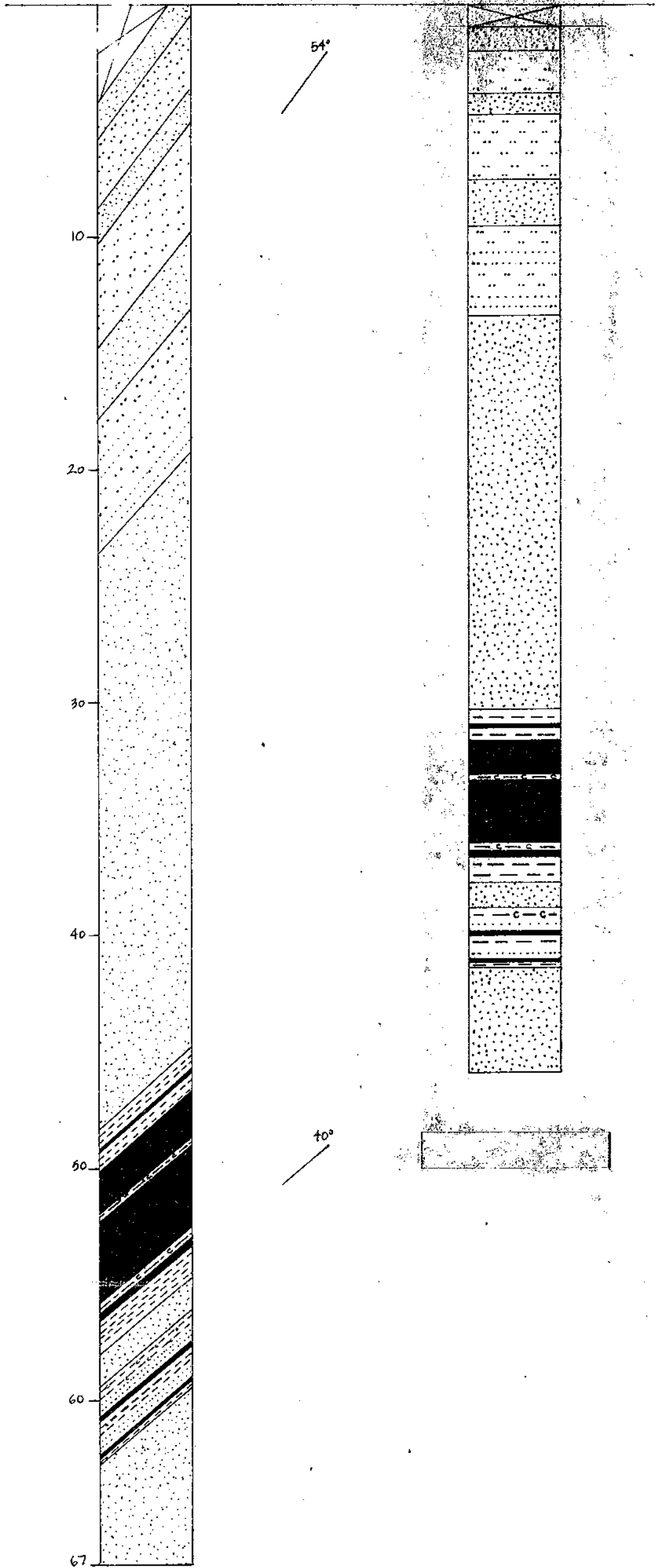
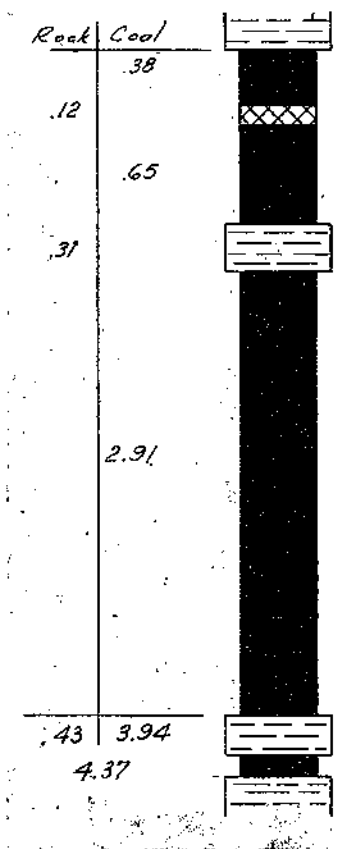
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PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 78-0821-R01

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



DR-SAXON 78(2)A

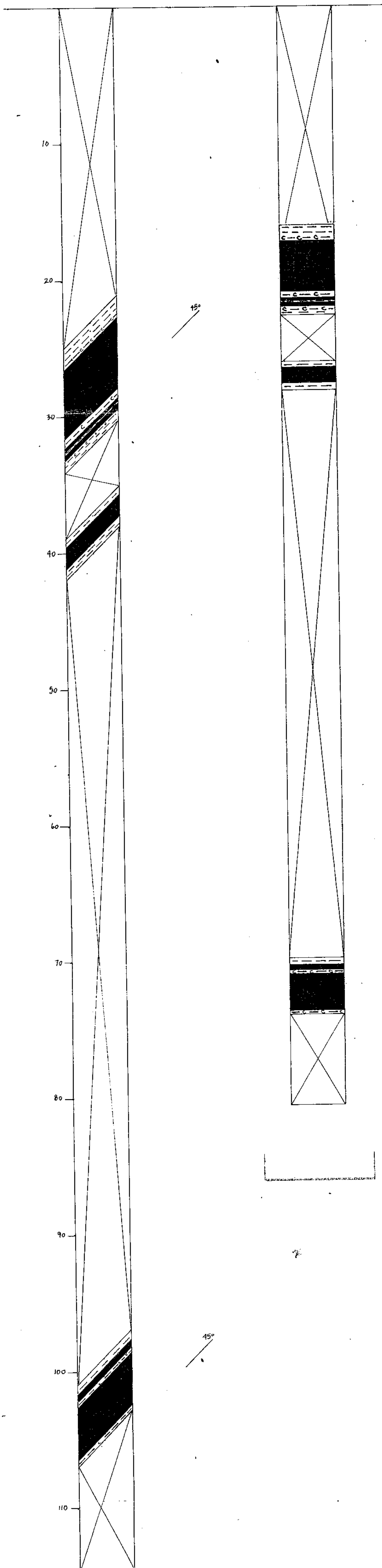
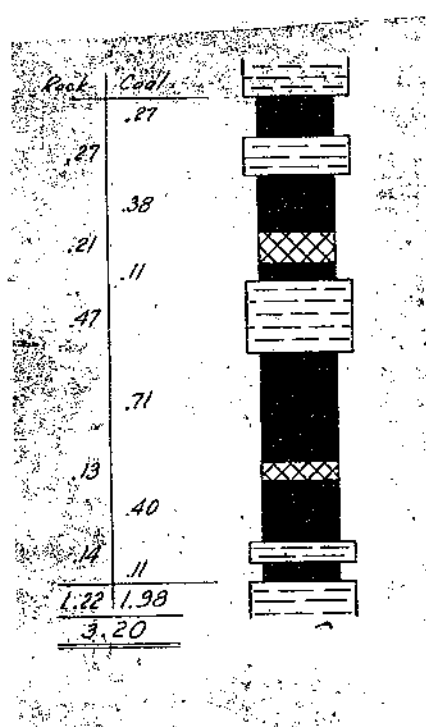
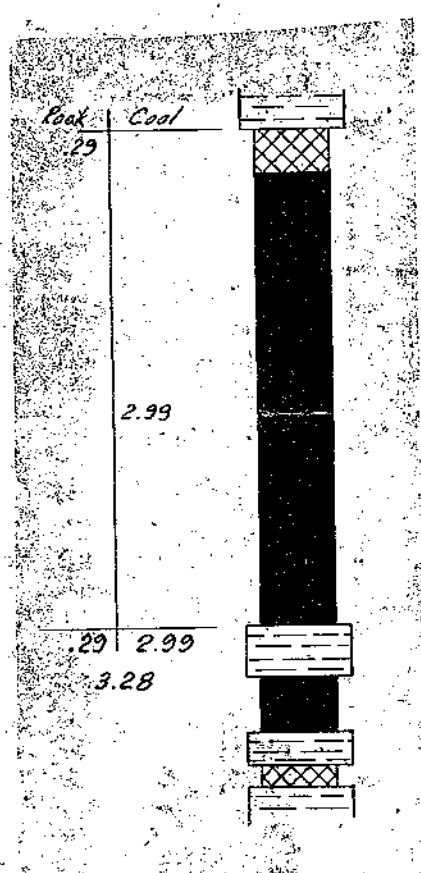
No.	DESCRIPTION	BY	DATE
REVISIONS			
SAXON COAL LIMITED			
PREPARED BY: DENISON MINES LIMITED			
SAXON DRILL LOG SR 0478			
DRAWN BY: R.C.	DATE: DEC '78	SCALE: 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APPR'D BY:	DATE:	SAXON 78-0821-RO	

629

SEAM DETAIL
1:50

APPARENT THICKNESS
1:200

TRUE THICKNESS
1:200



PR-SAXON 78(2)A

No.	DESCRIPTION	BY	DATE
REVISIONS			
SAXON COAL LIMITED			
PREPARED BY: DENISON MINES LIMITED			
SAXON DRILL LOG SR 0178			
DRAWN BY: R. C.	DATE: DEC '78	SCALE: 1:50, 1:200	
PREP'D BY:	DATE:	DRAWING NUMBER:	
APP'R'D BY:	DATE:	SAXON 78-0821-R01	

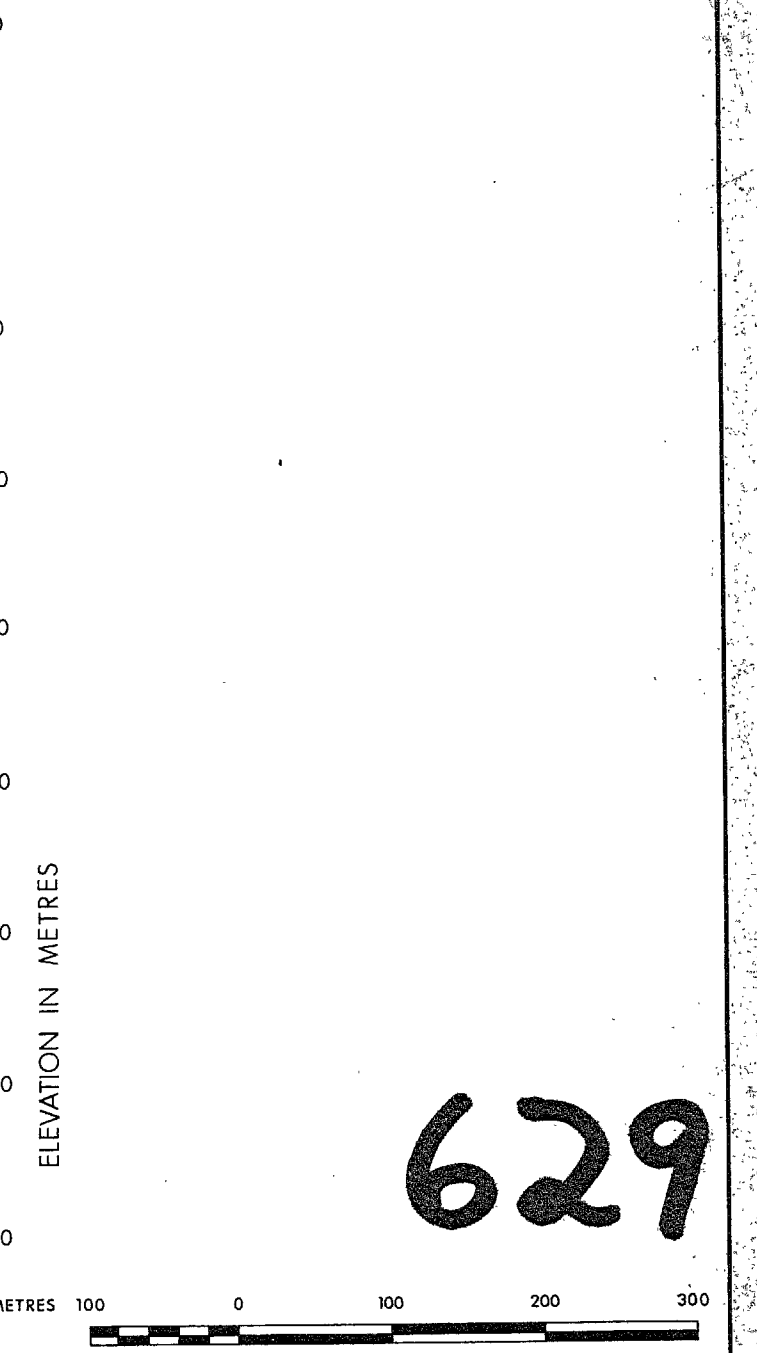
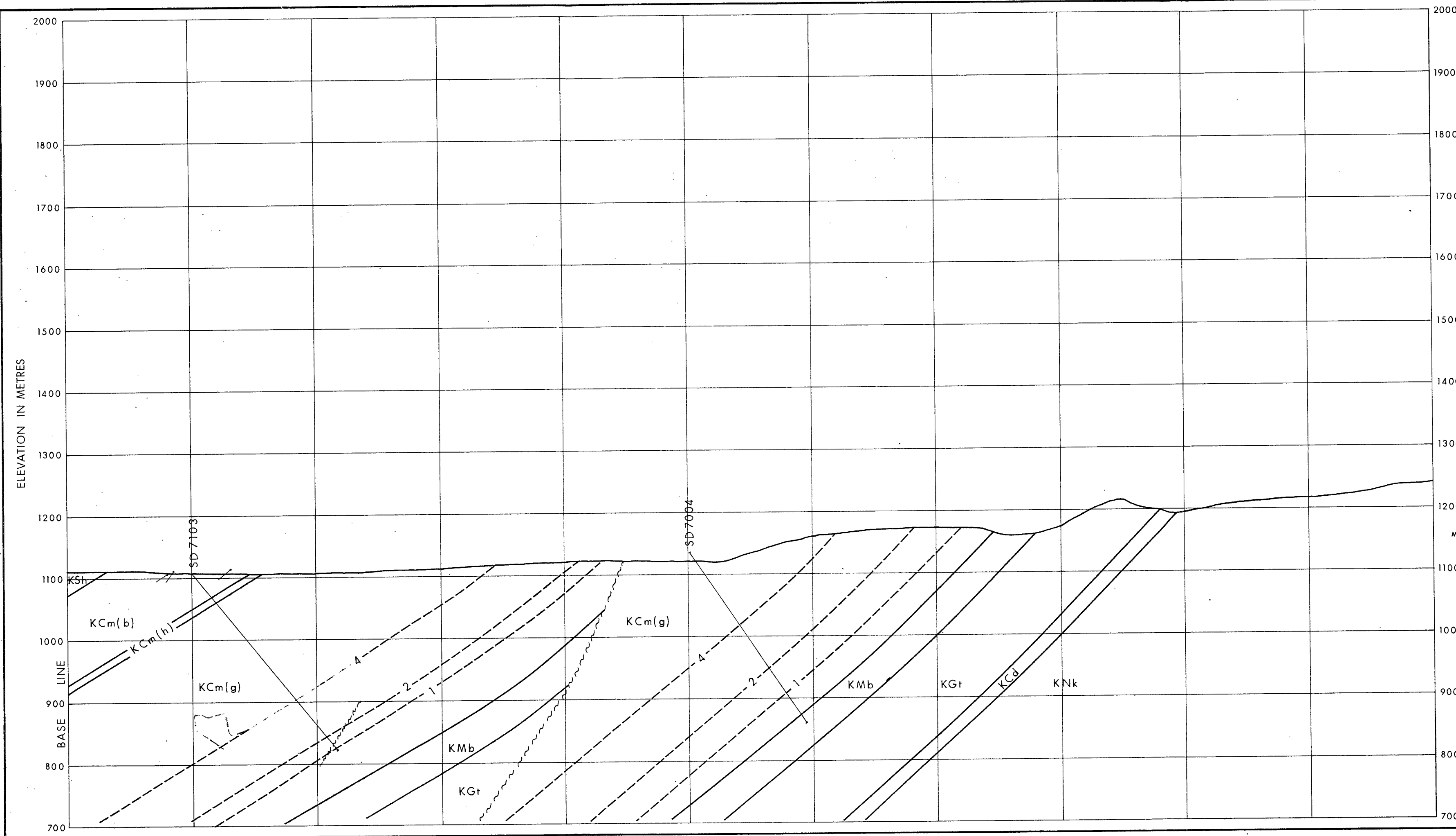
629

LOGS

00629

PR-SAXON

78A



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

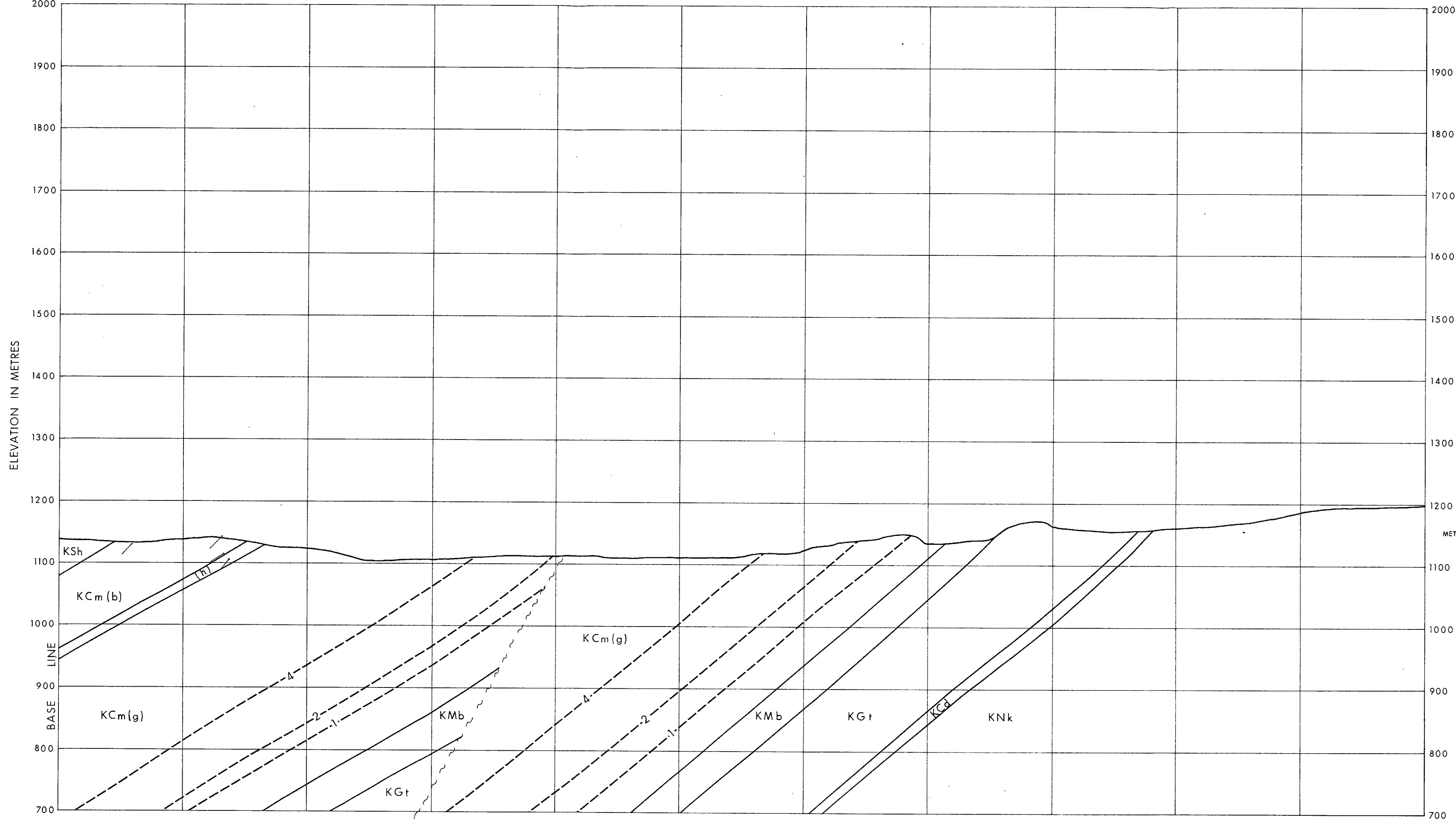
PR-SAXON 78(2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7857

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000.
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'R'D BY:	DATE:	SXON 77-0750-R03



629

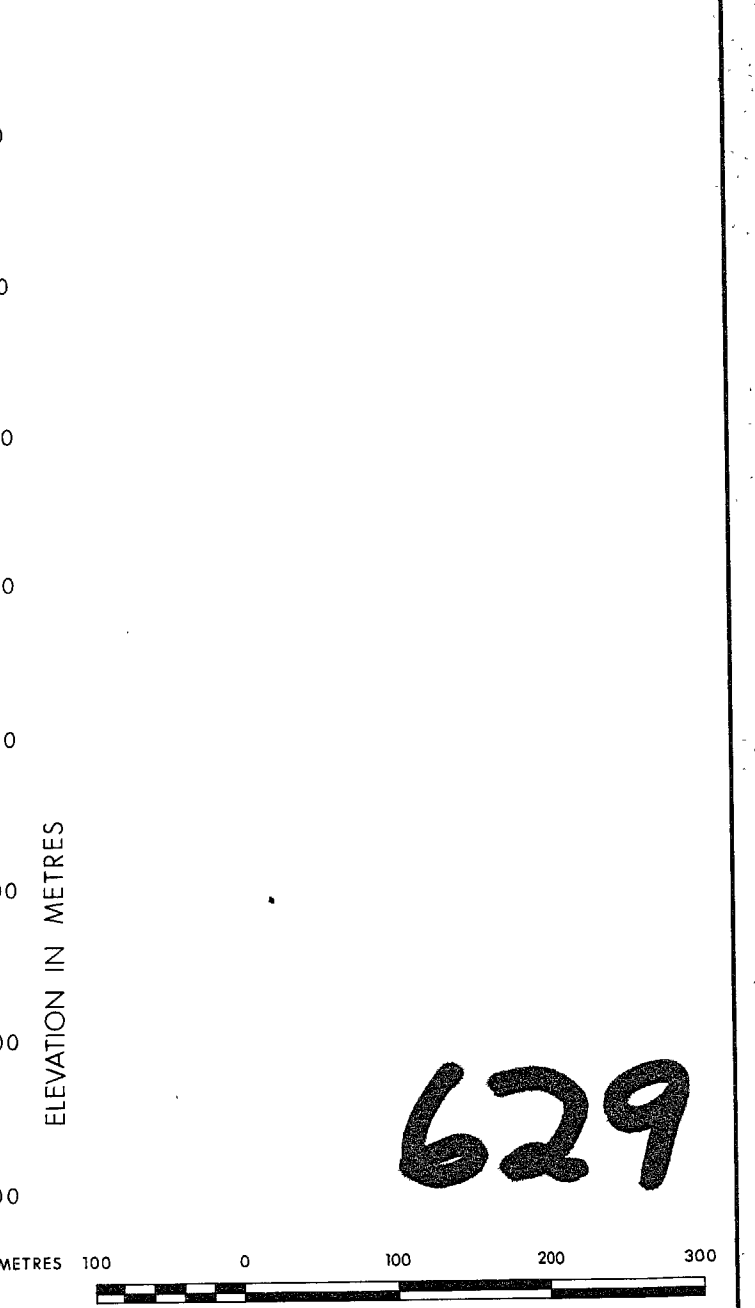


NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 78/21A.
SAXON COAL LIMITED
 PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7856

DRAWN BY: E.J.T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

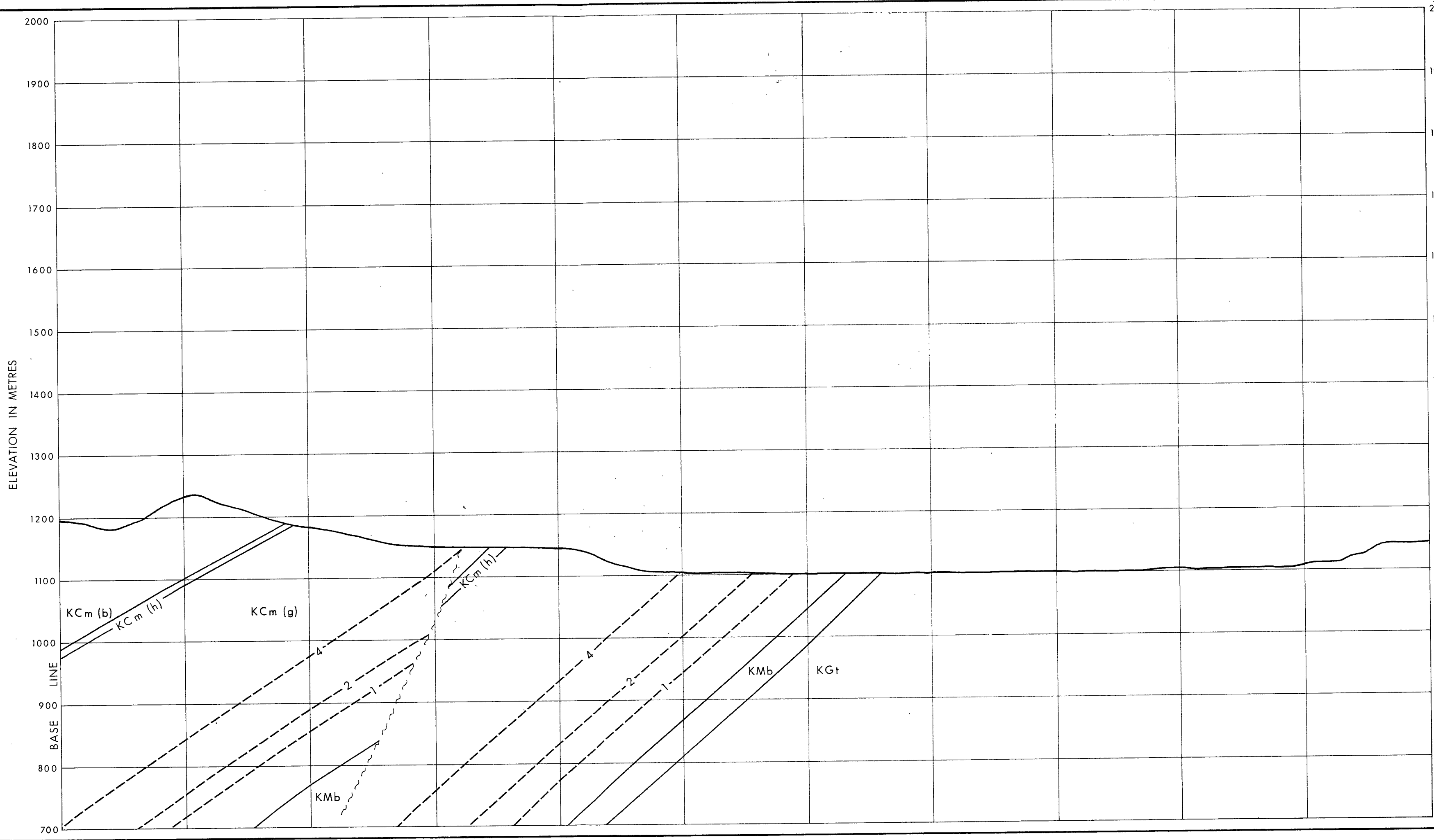
PR-SAXON 78(2)A

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7855

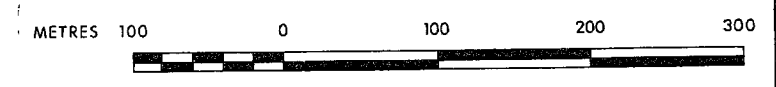
DRAWN BY: E.J.T.	DATE: Nov 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700

ELEVATION IN METRES

629



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

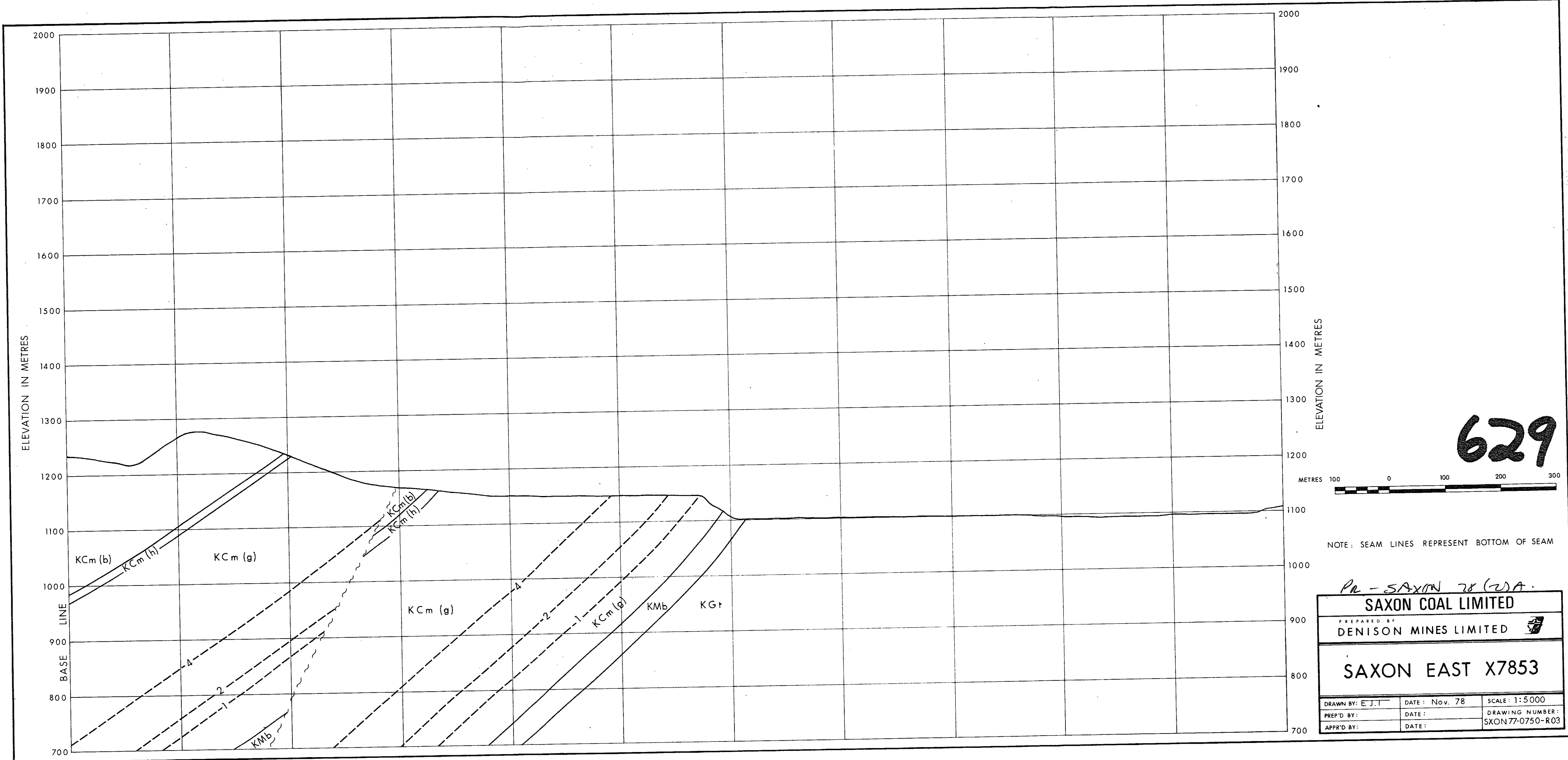
PR-5AXON 78(2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

SAXON EAST X7854

DRAWN BY: E.J.T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



629



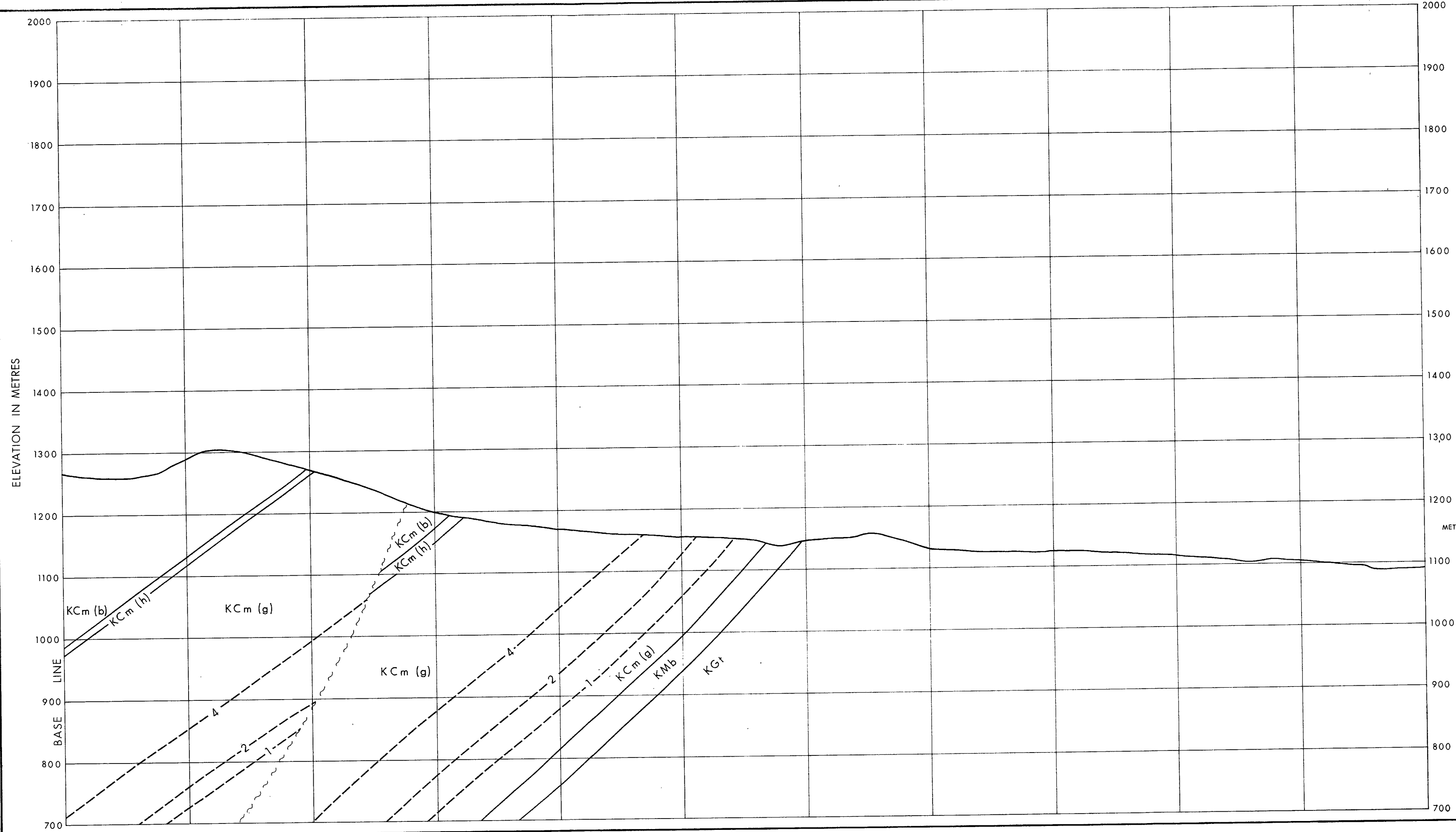
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2)A

SAXON COAL LIMITED
 PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7853

DRAWN BY: E.J.T	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



ELEVATION IN METRES

629



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

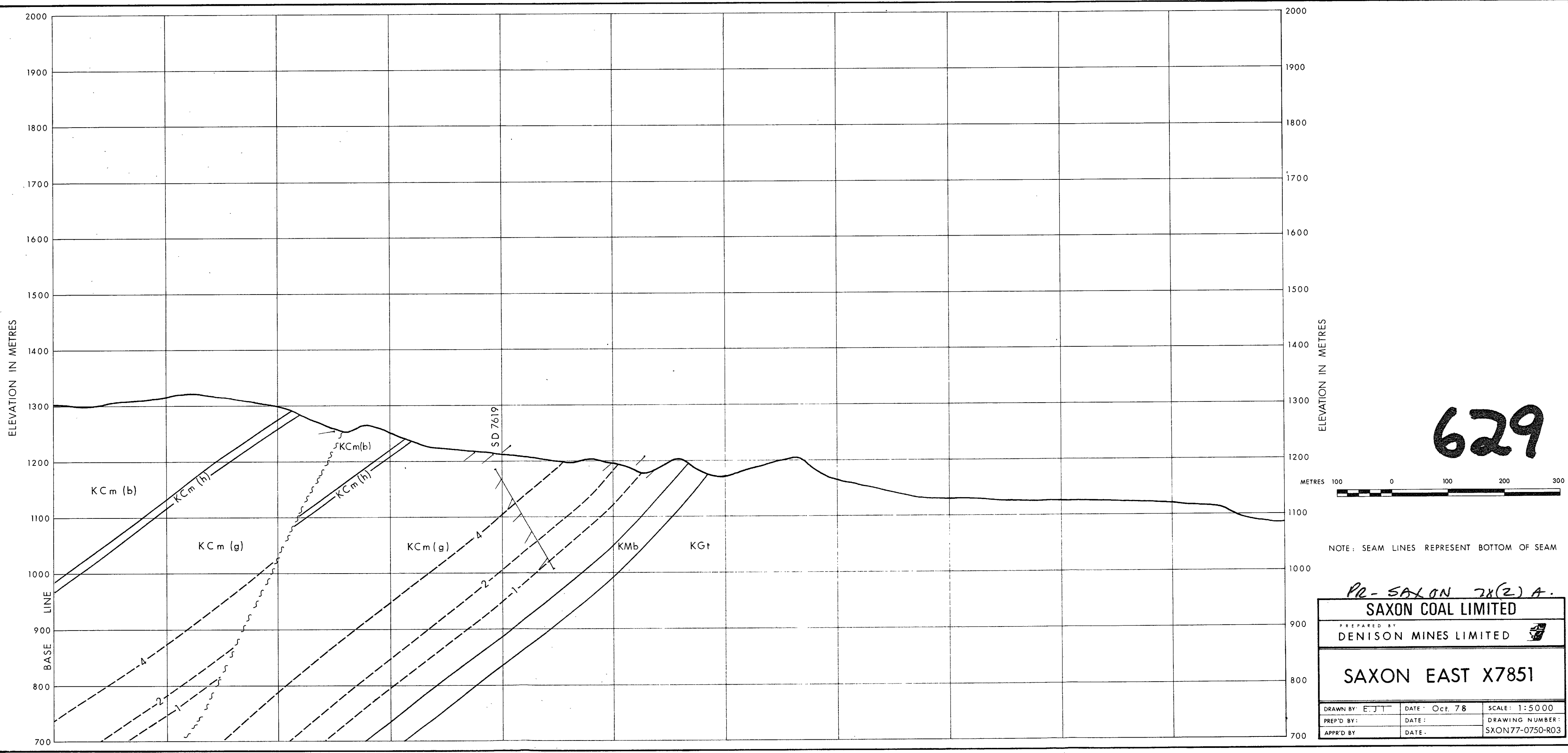
PR - SAXON 78(2)A

SAXON COAL LIMITED

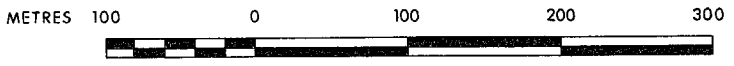
PREPARED BY DENISON MINES LIMITED

SAXON EAST X7852

DRAWN BY: EJT.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03

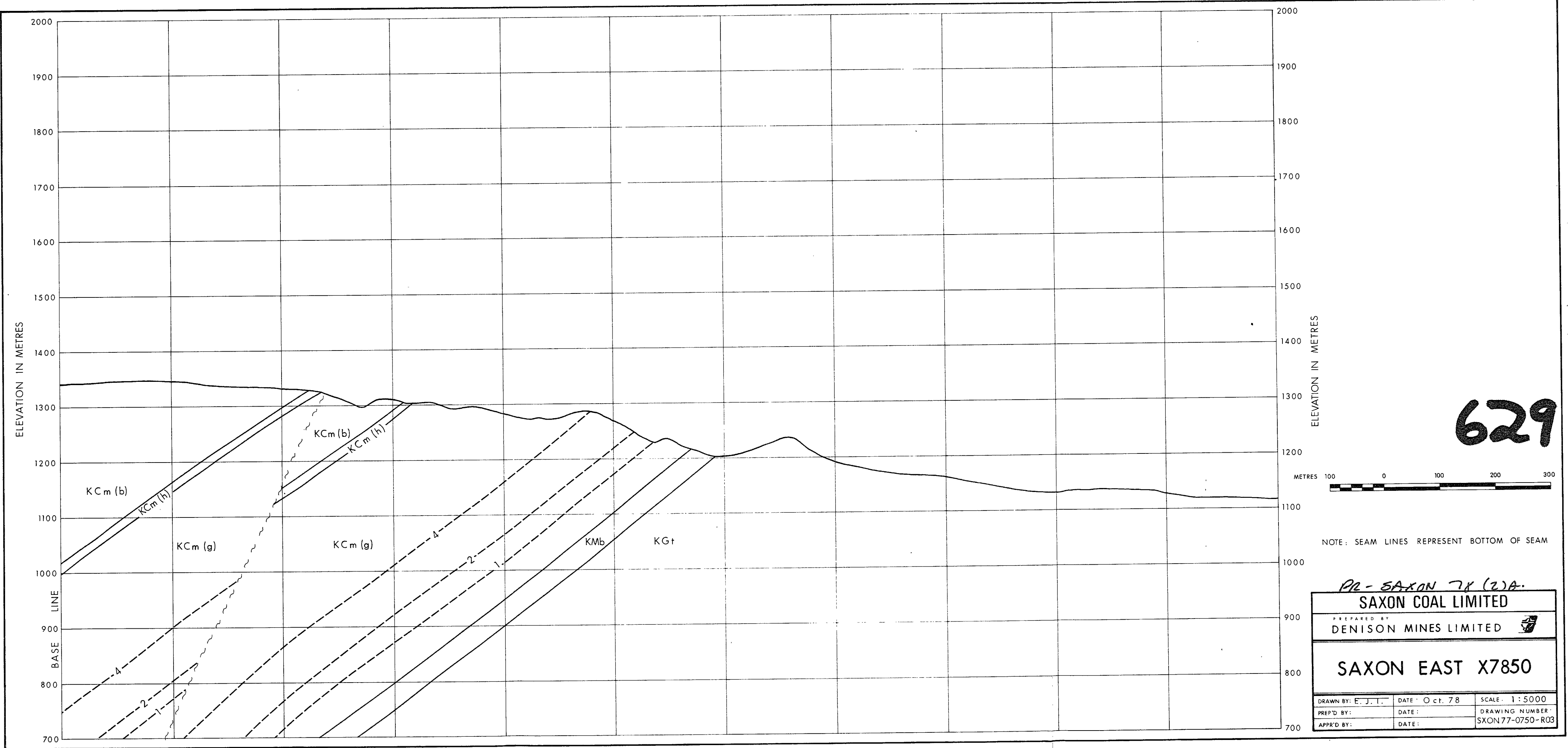


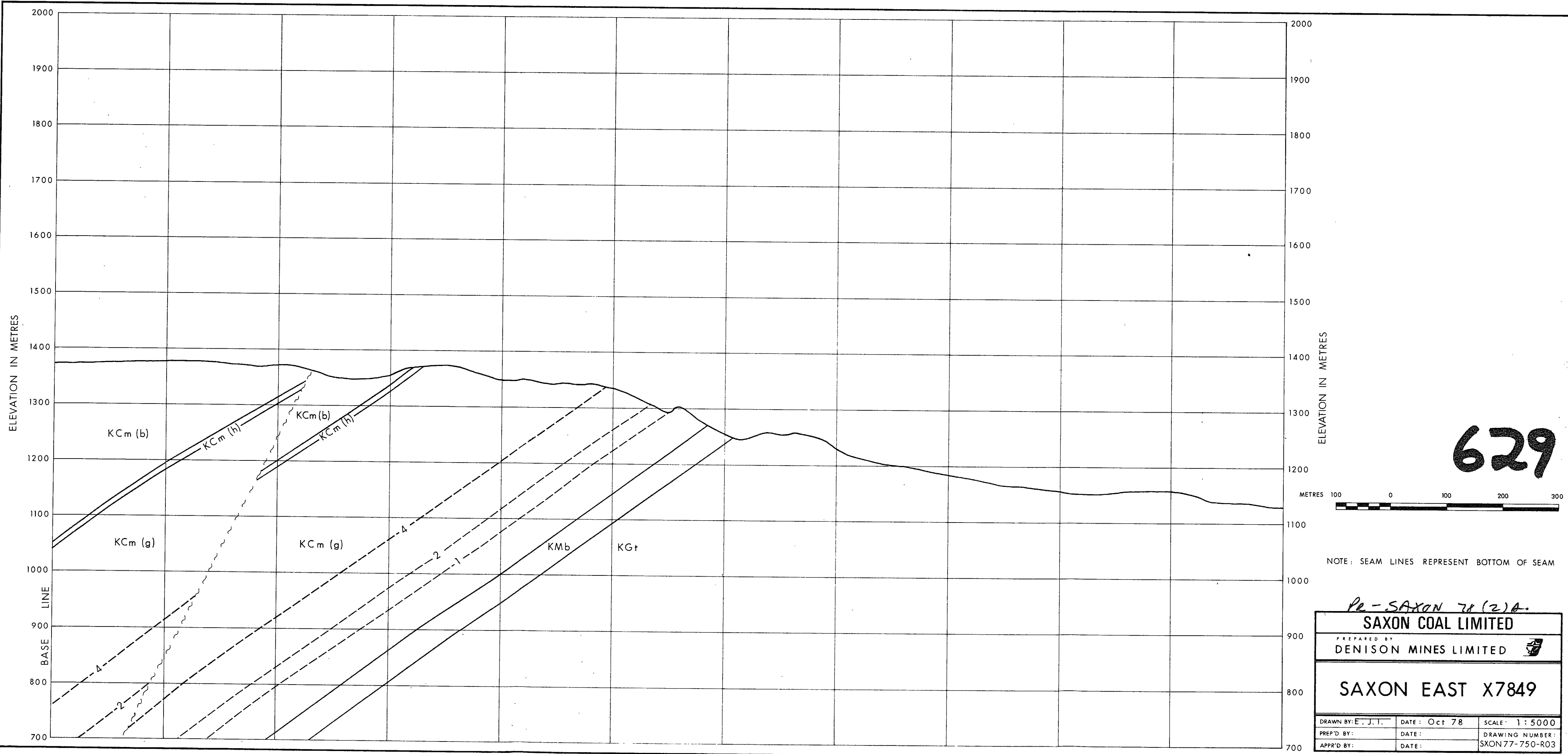
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

<i>PR - SAXON 28(2) A.</i>		
SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7851		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'R'D BY:	DATE:	SXON77-0750-R03





NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

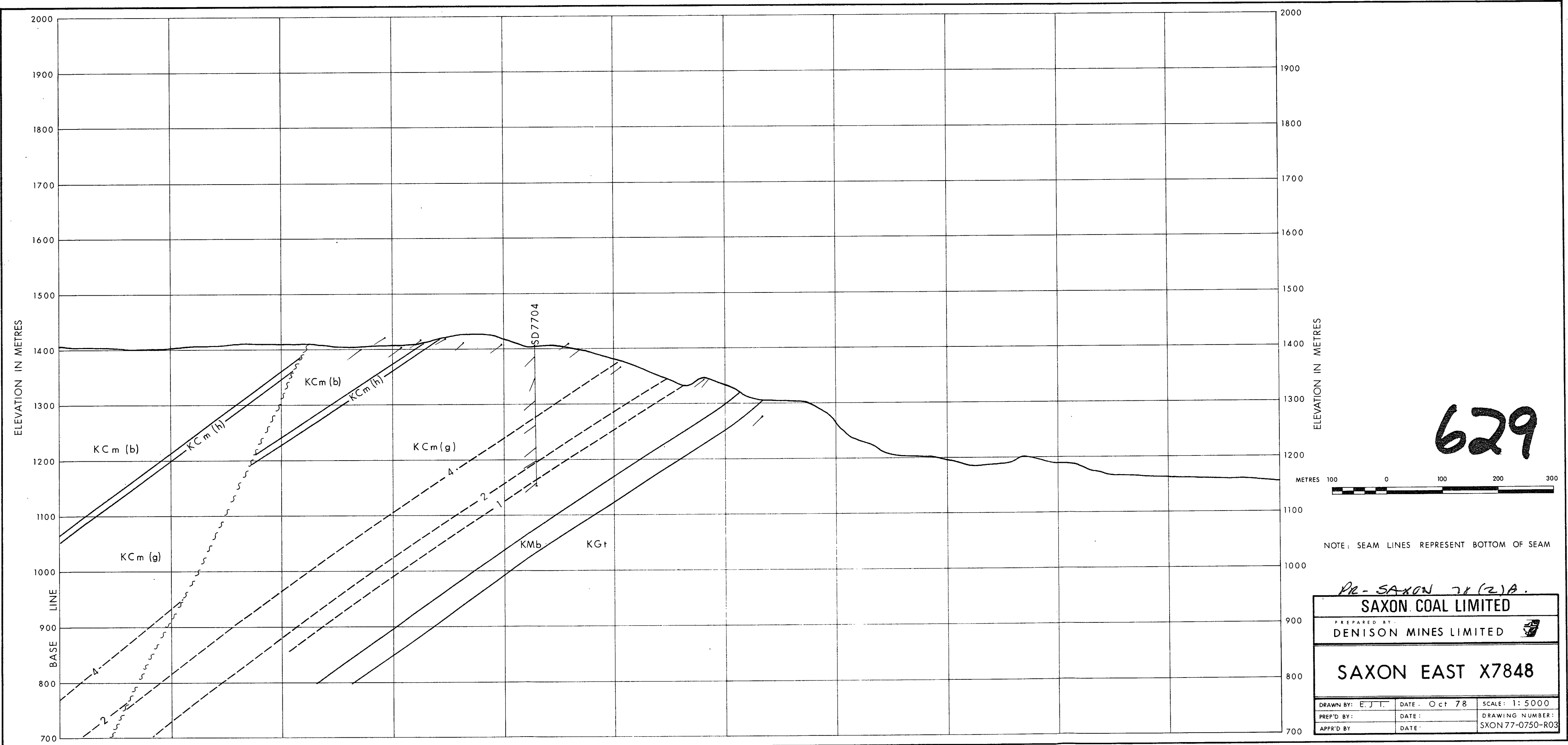
Pr - SAXON 78 (2) A.

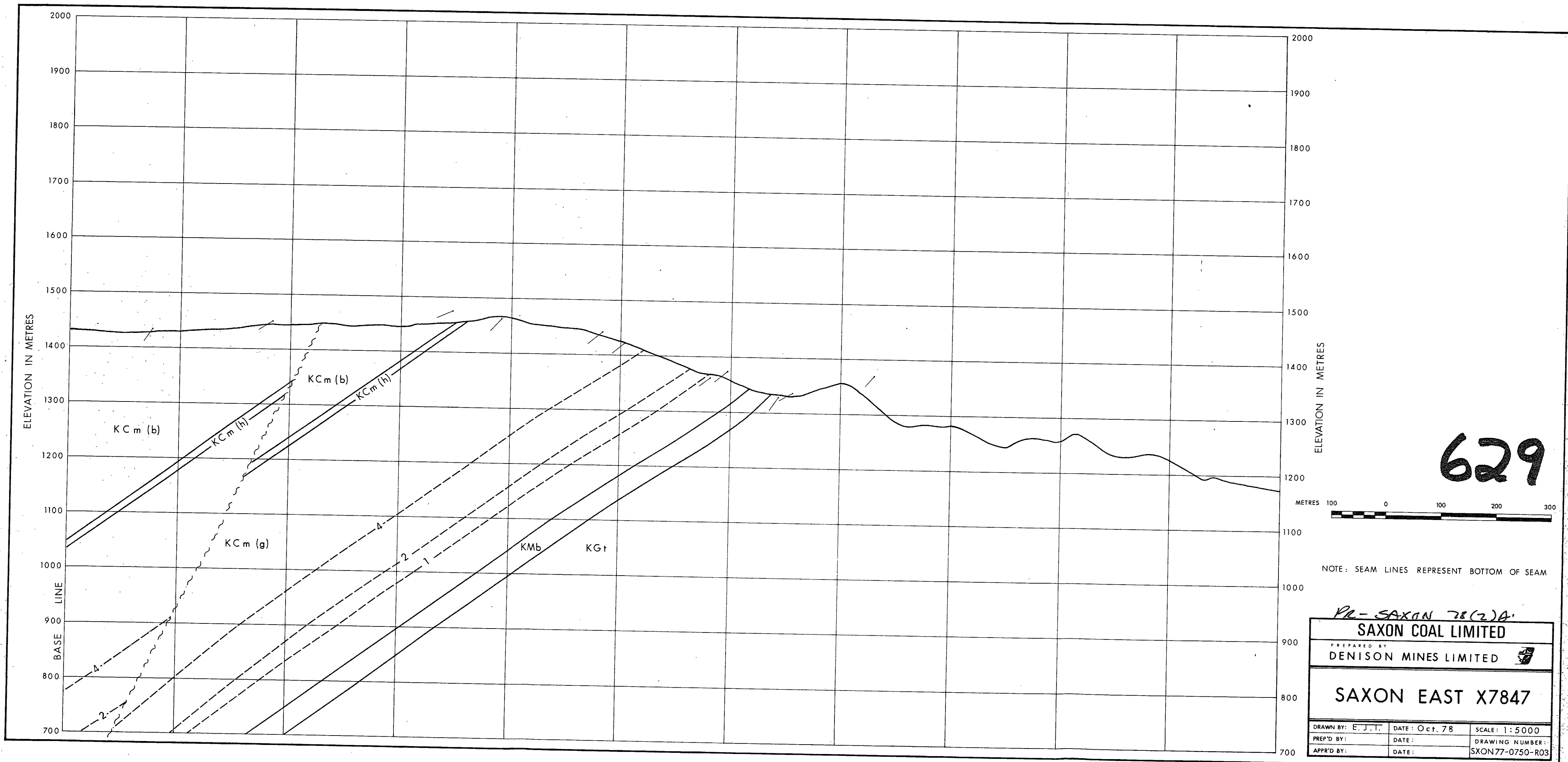
SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7849

DRAWN BY: E. J. I.	DATE: Oct 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON77-750-R03





NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

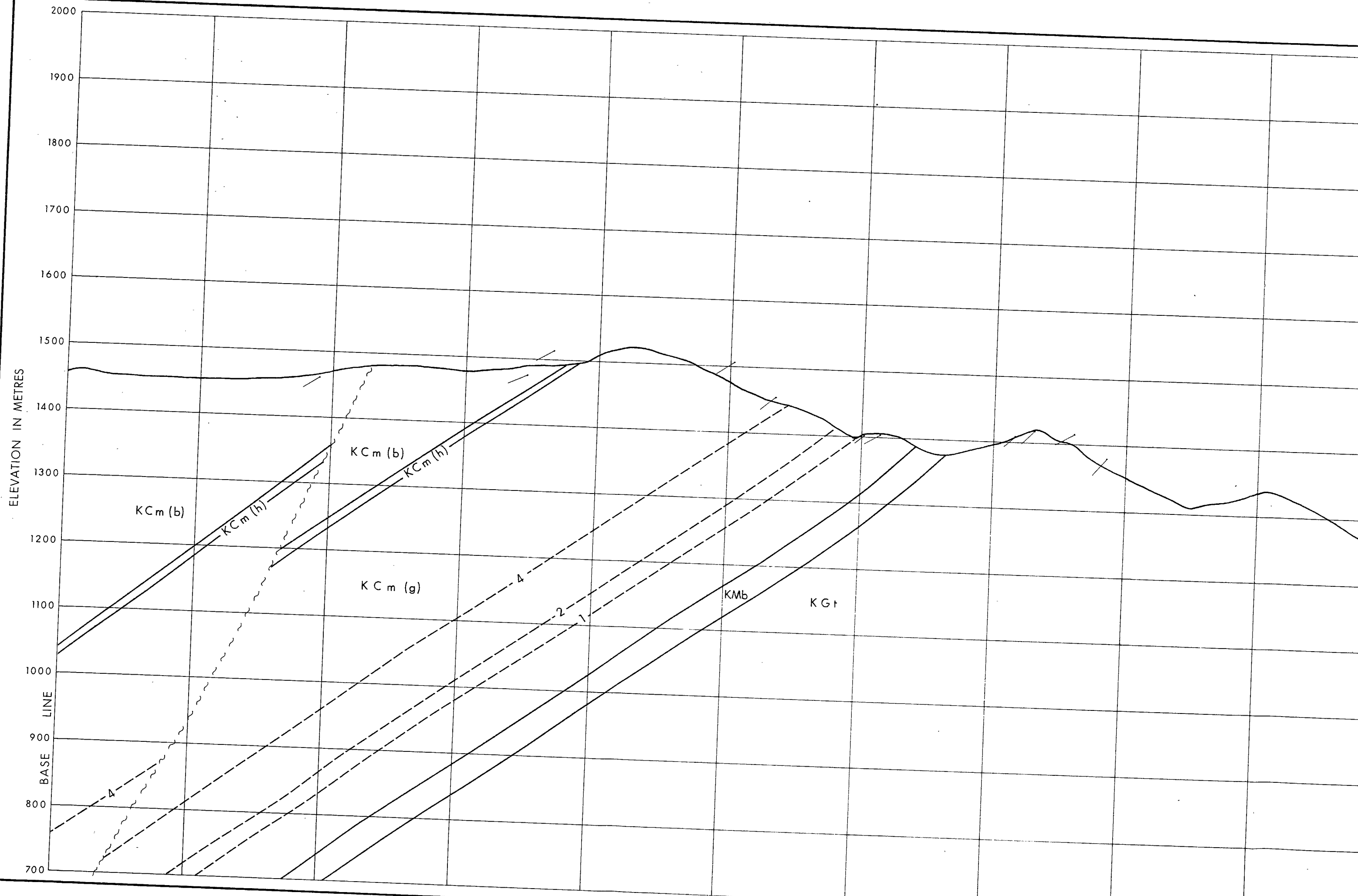
PR-SAXON 78(2)A

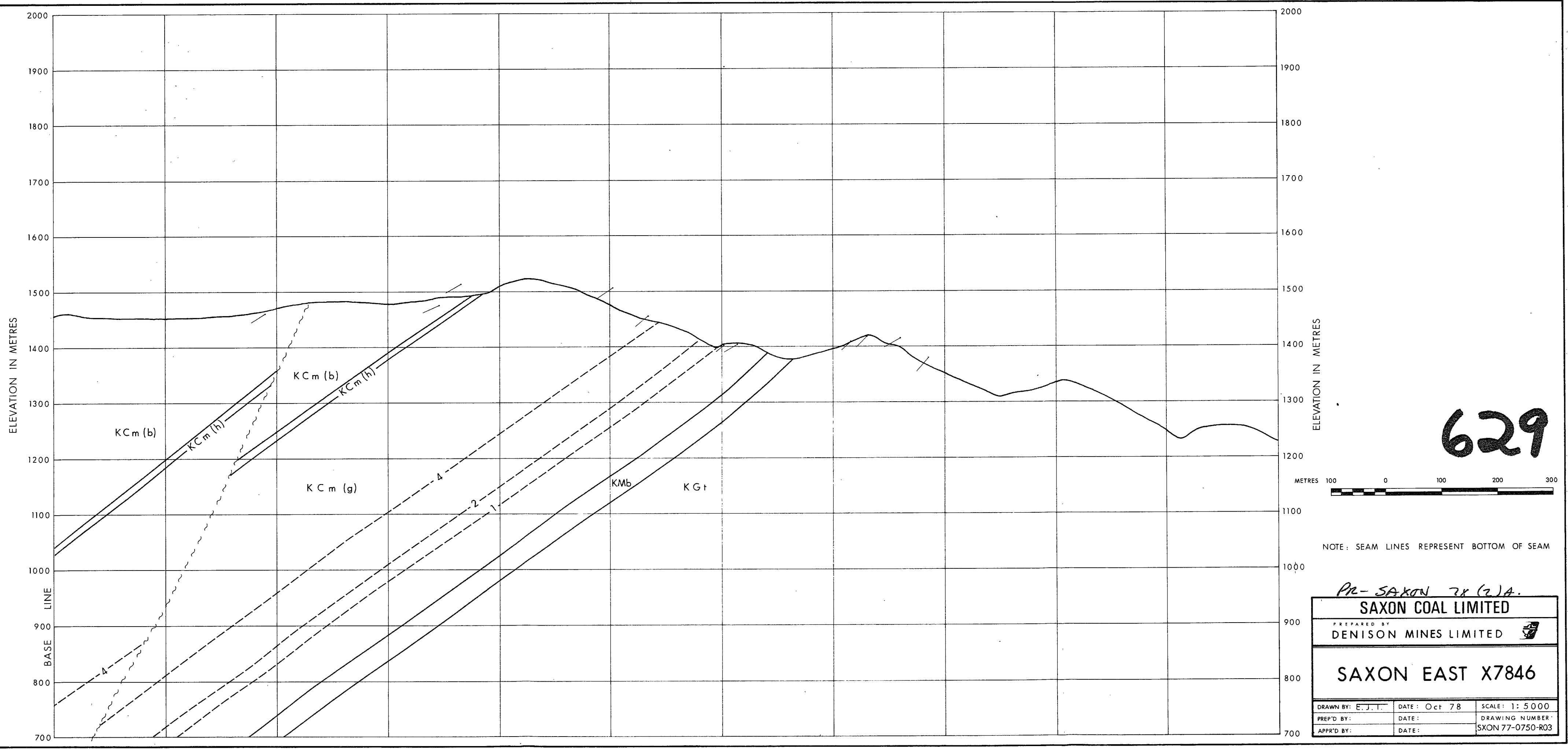
SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

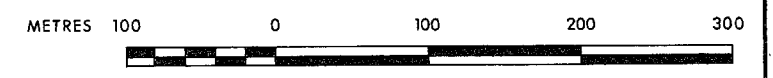
SAXON EAST X7847

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'R'D BY:	DATE:	SXON77-0750-R03





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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

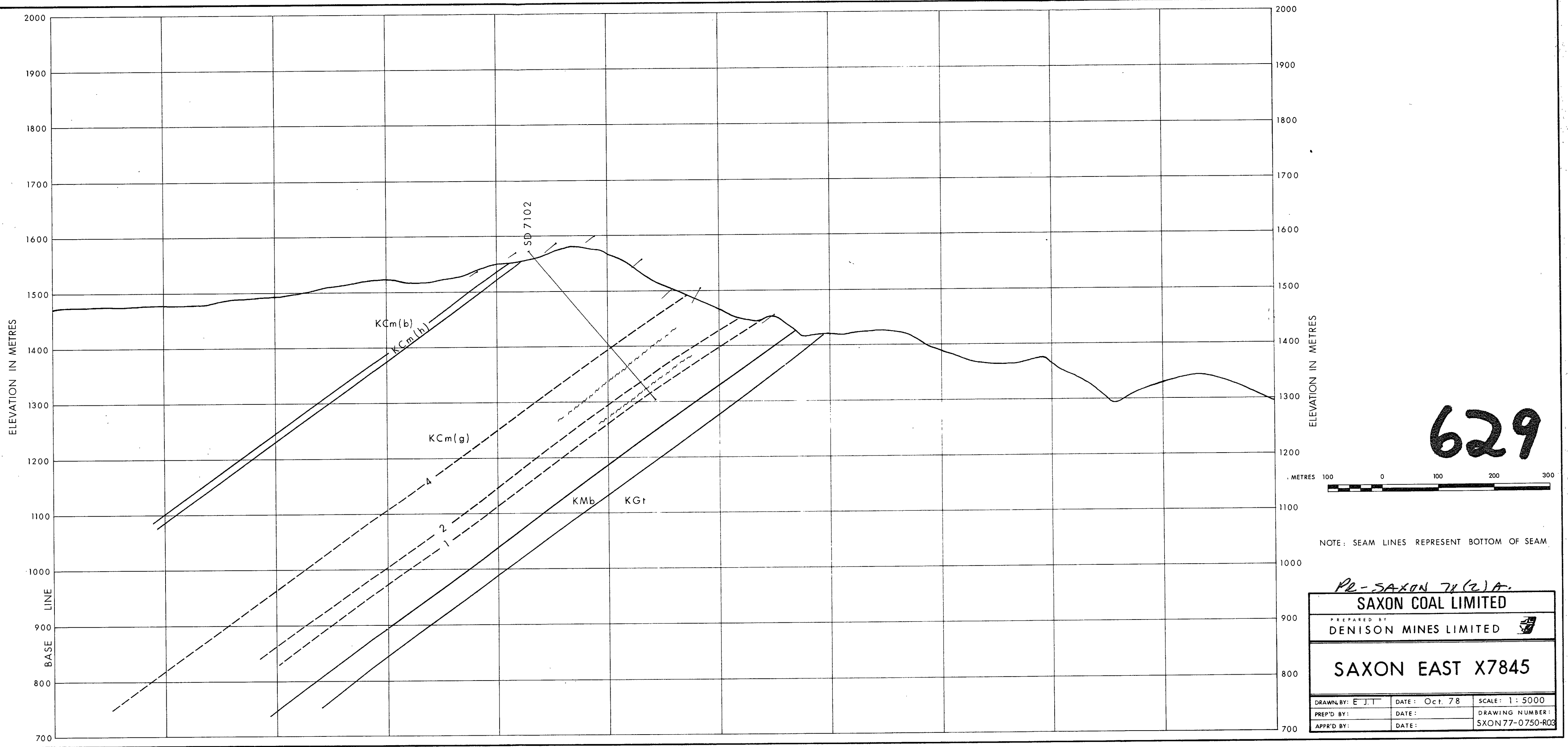
PR-SAXON 2x (2)A.

SAXON COAL LIMITED

PREP'D BY DENISON MINES LIMITED

SAXON EAST X7846

DRAWN BY: E.J.T.	DATE: Oct 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



629



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

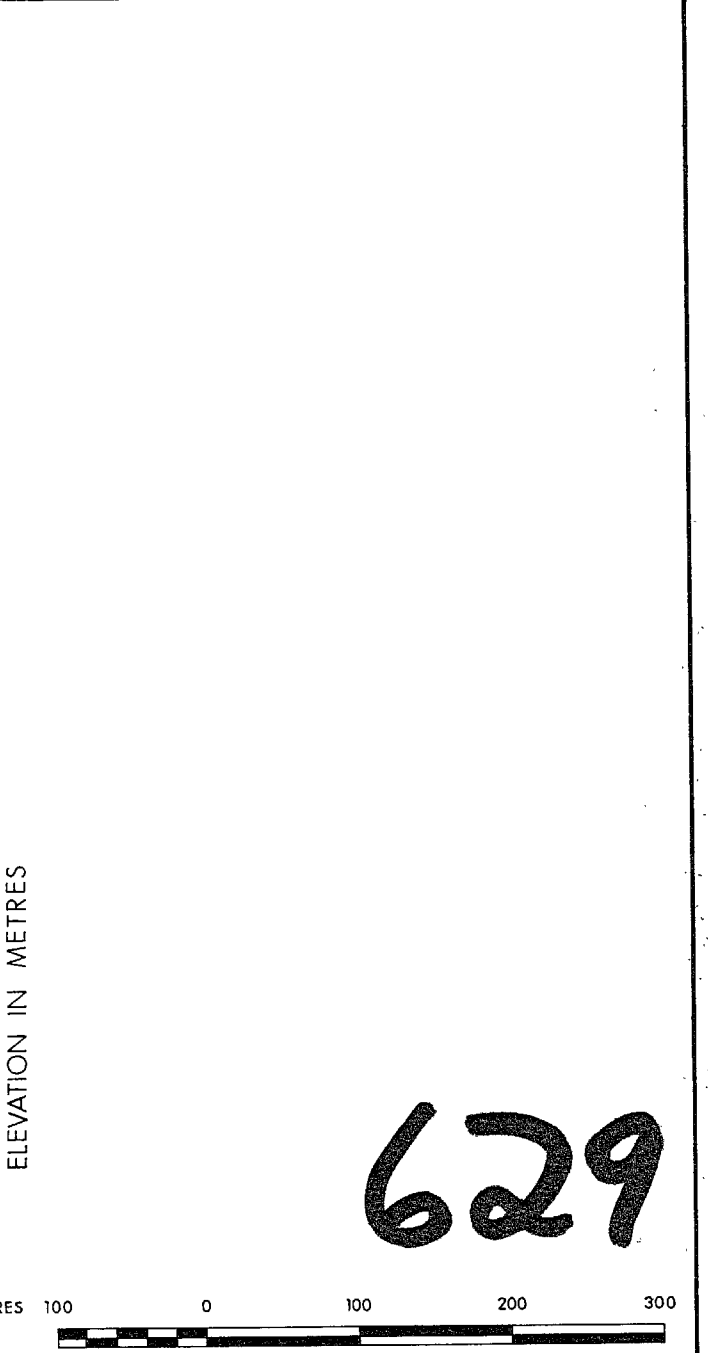
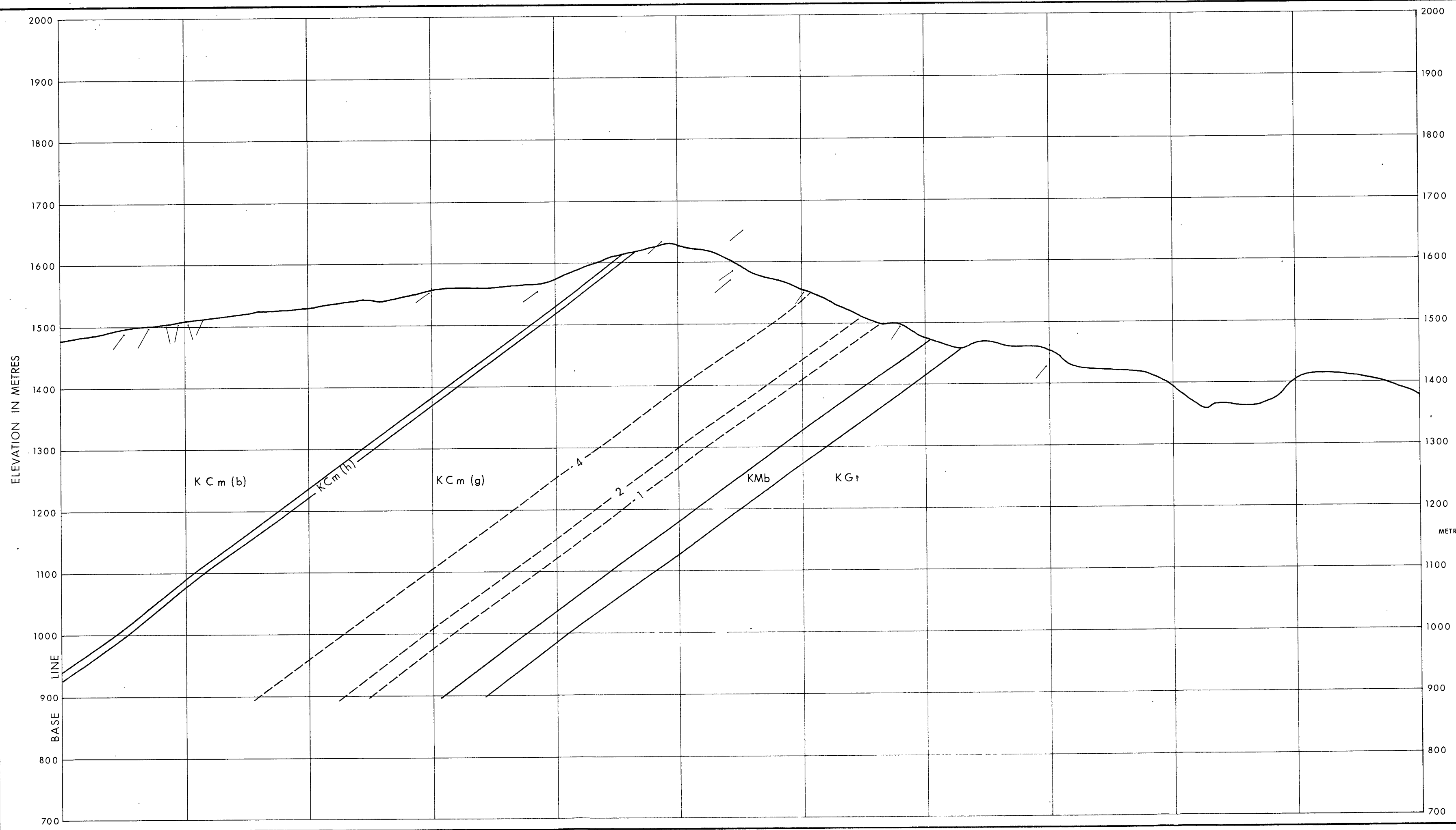
PR-SAXON 71(2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7845

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

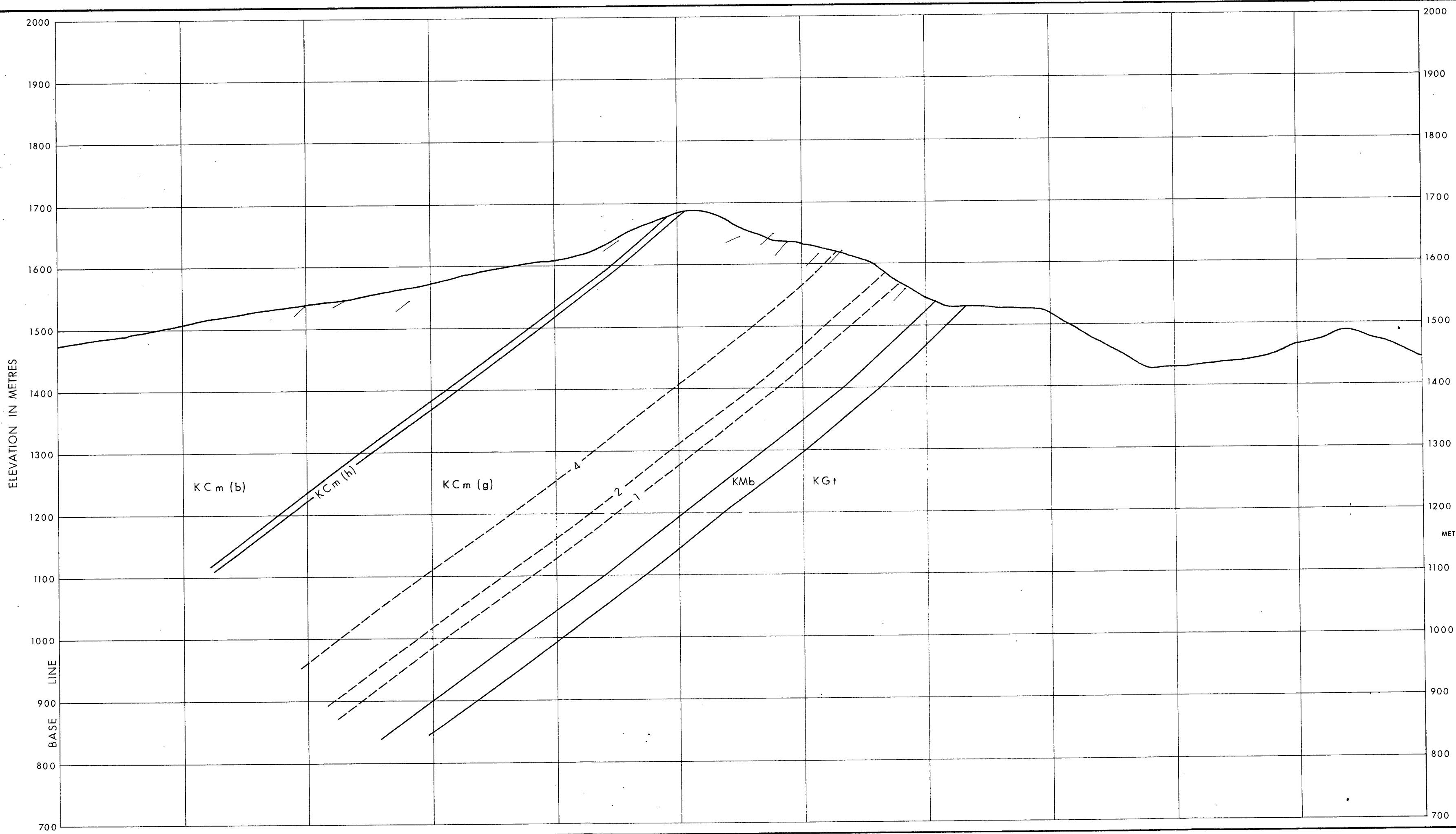
PK-SAXON 78(2)A.

SAXON COAL LIMITED

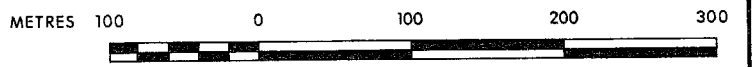
PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7844

DRAWN BY: E.J.T.	DATE: Nov 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



629



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

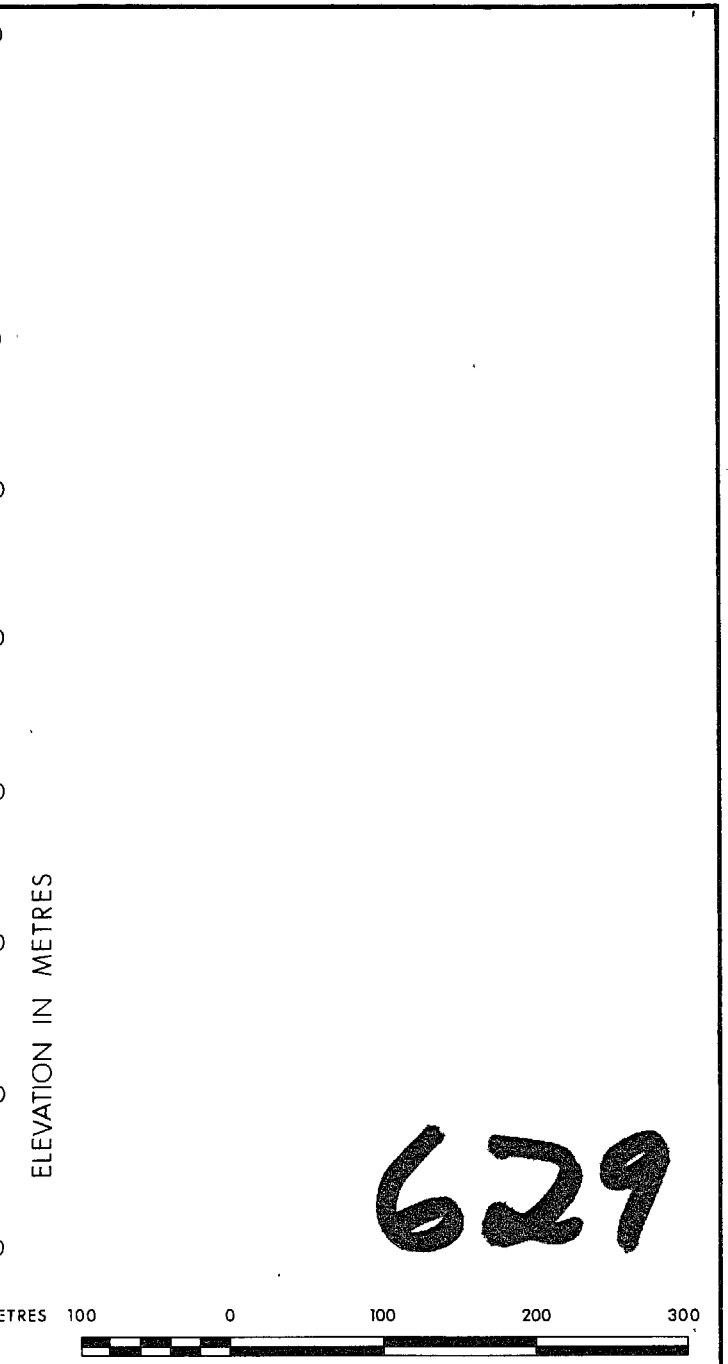
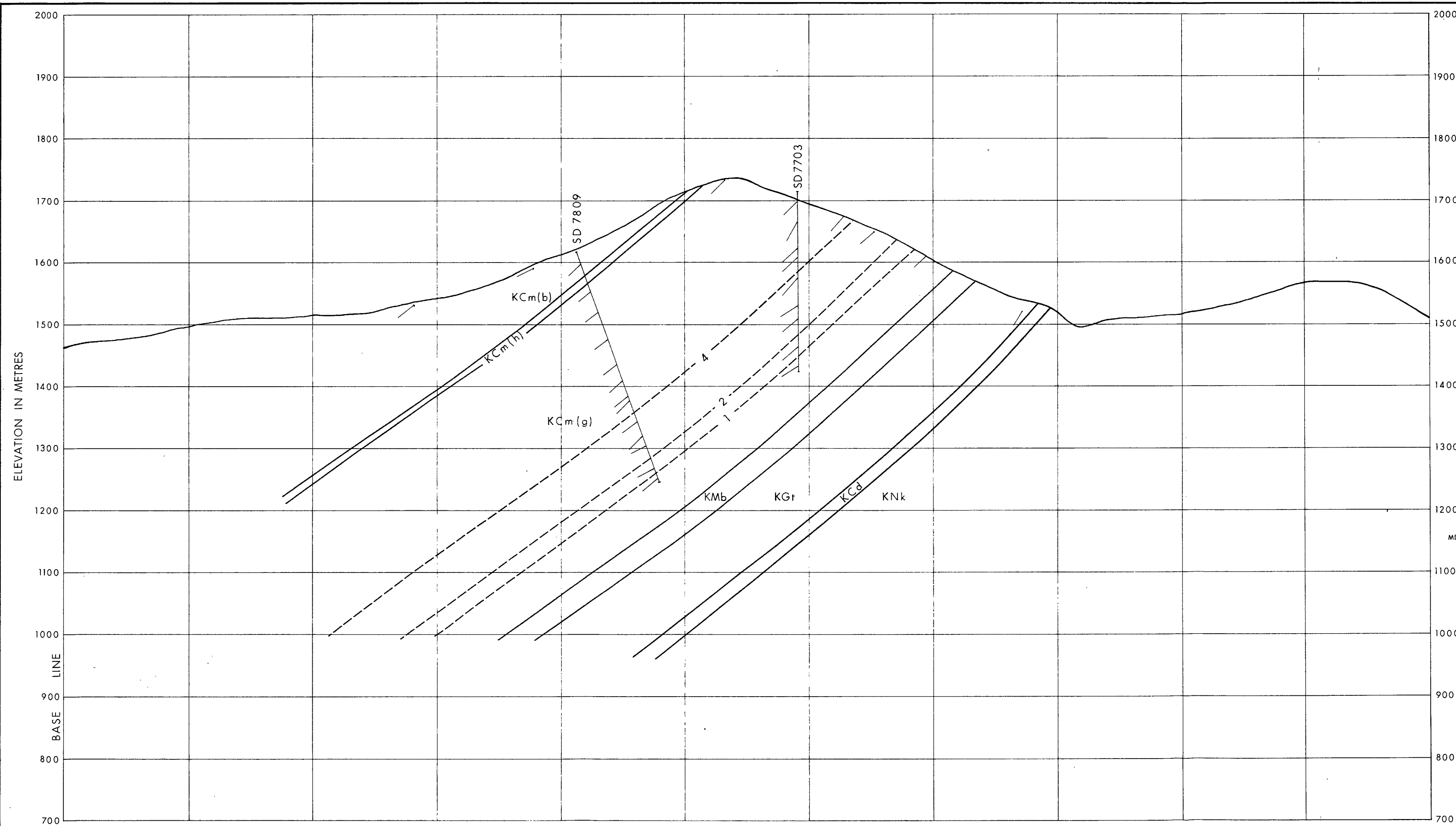
RR-SAXON 78(2)A

SAXON COAL LIMITED

PREP'D BY: DENISON MINES LIMITED

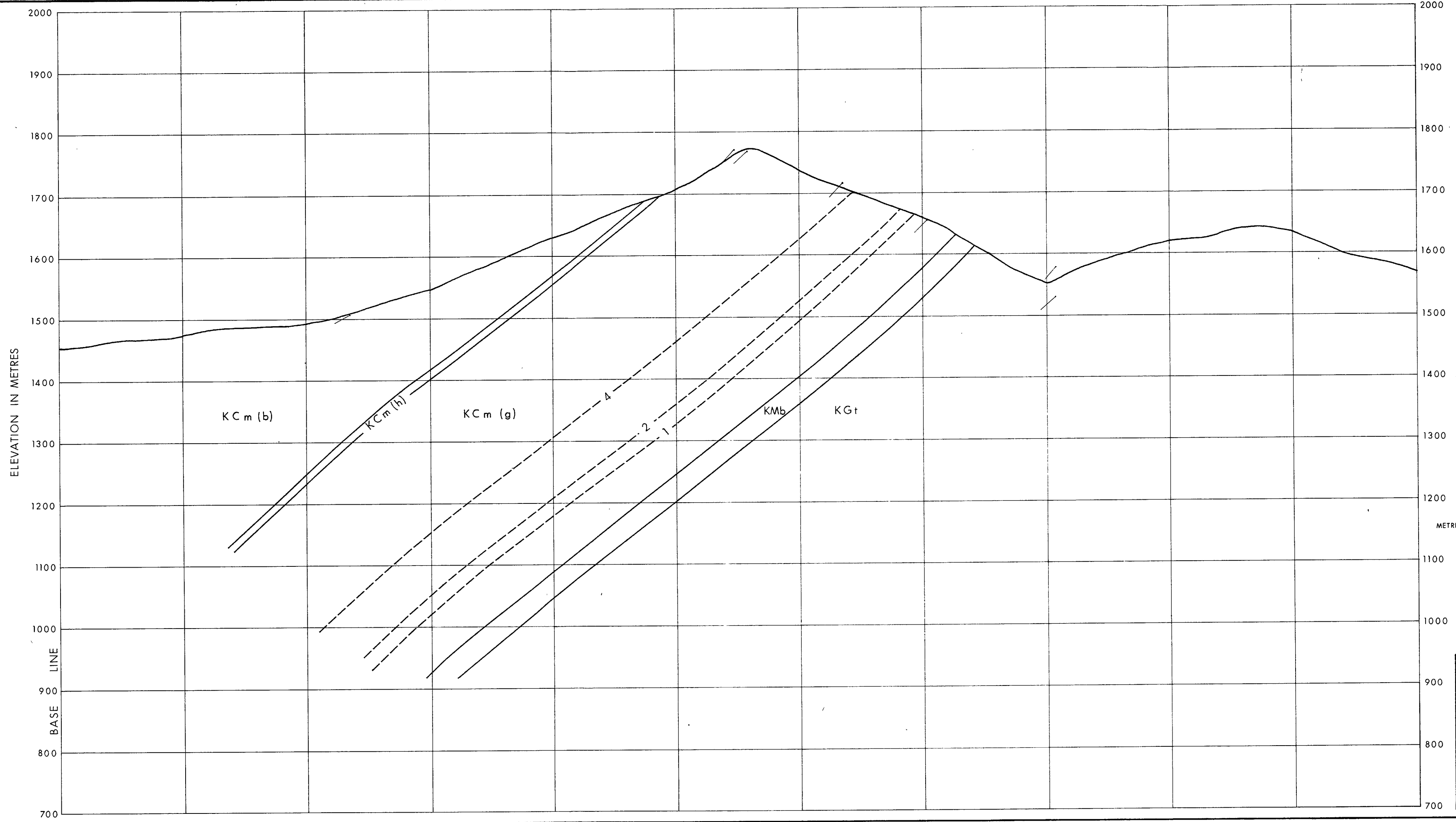
SAXON EAST X7843

DRAWN BY: E.J.T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03

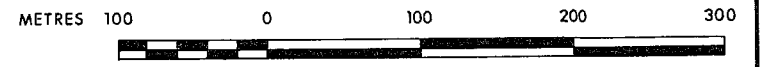


PR - SAXON 7X (2)A.

SAXON COAL LIMITED		
<small>PREPARED BY</small> DENISON MINES LIMITED		
SAXON EAST X7842		
DRAWN BY: EJT	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

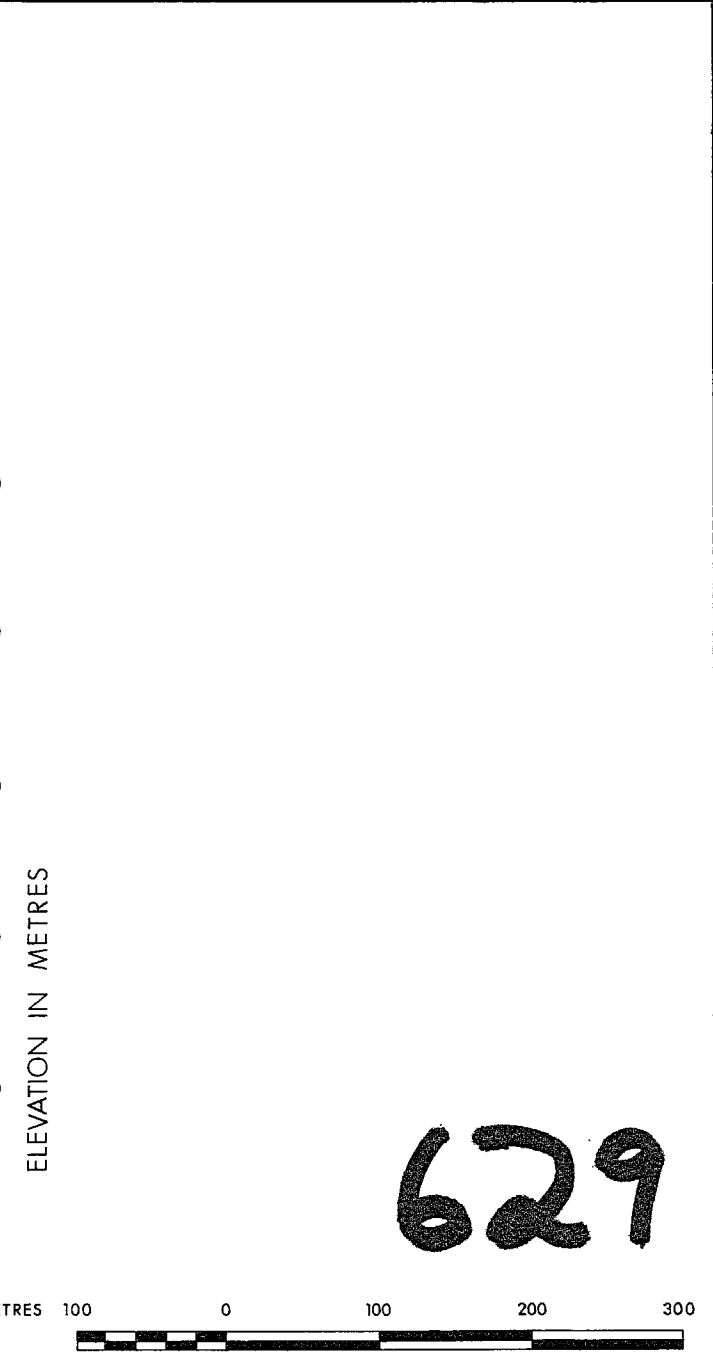
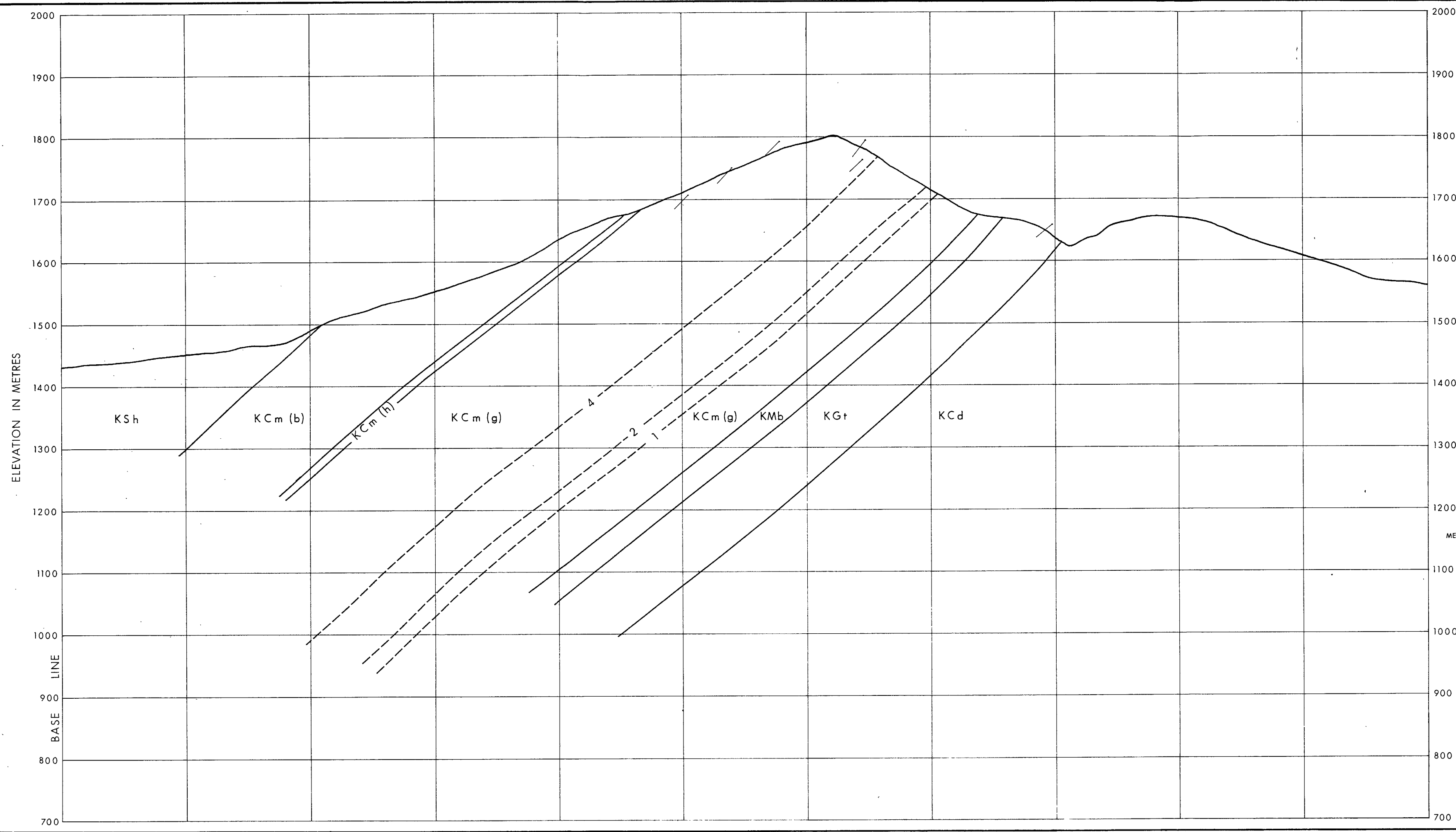
PR-SAXON 78 (2)A

SAXON COAL LIMITED

PREP'D BY: DENISON MINES LIMITED

SAXON EAST X7841

DRAWN BY: E. J. T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03

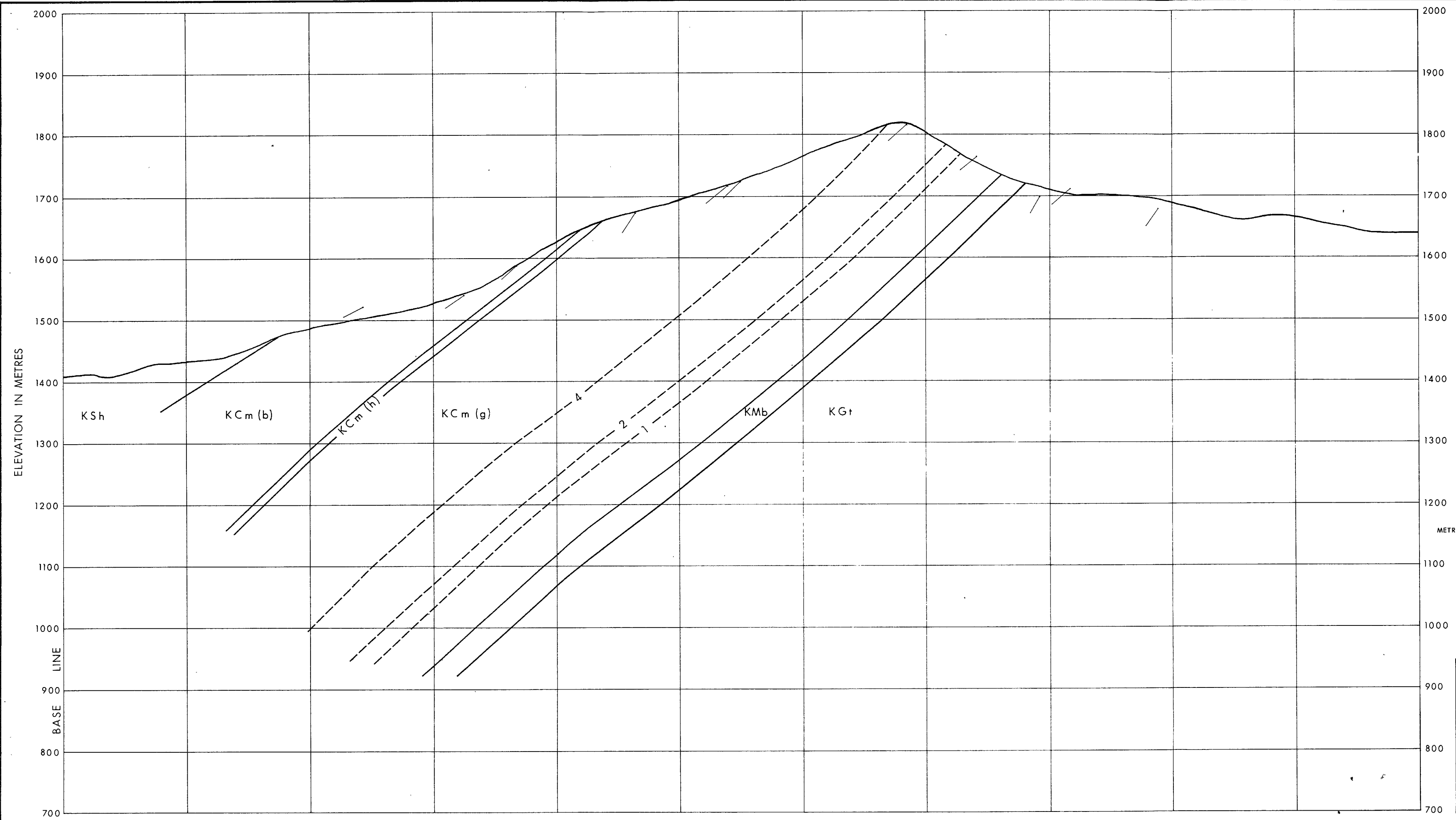


PREPARED BY
SAXON COAL LIMITED
 DENISON MINES LIMITED

PRE-SAXON 78(2)A.

SAXON EAST X7840

DRAWN BY: EJT	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



ELEVATION IN METRES

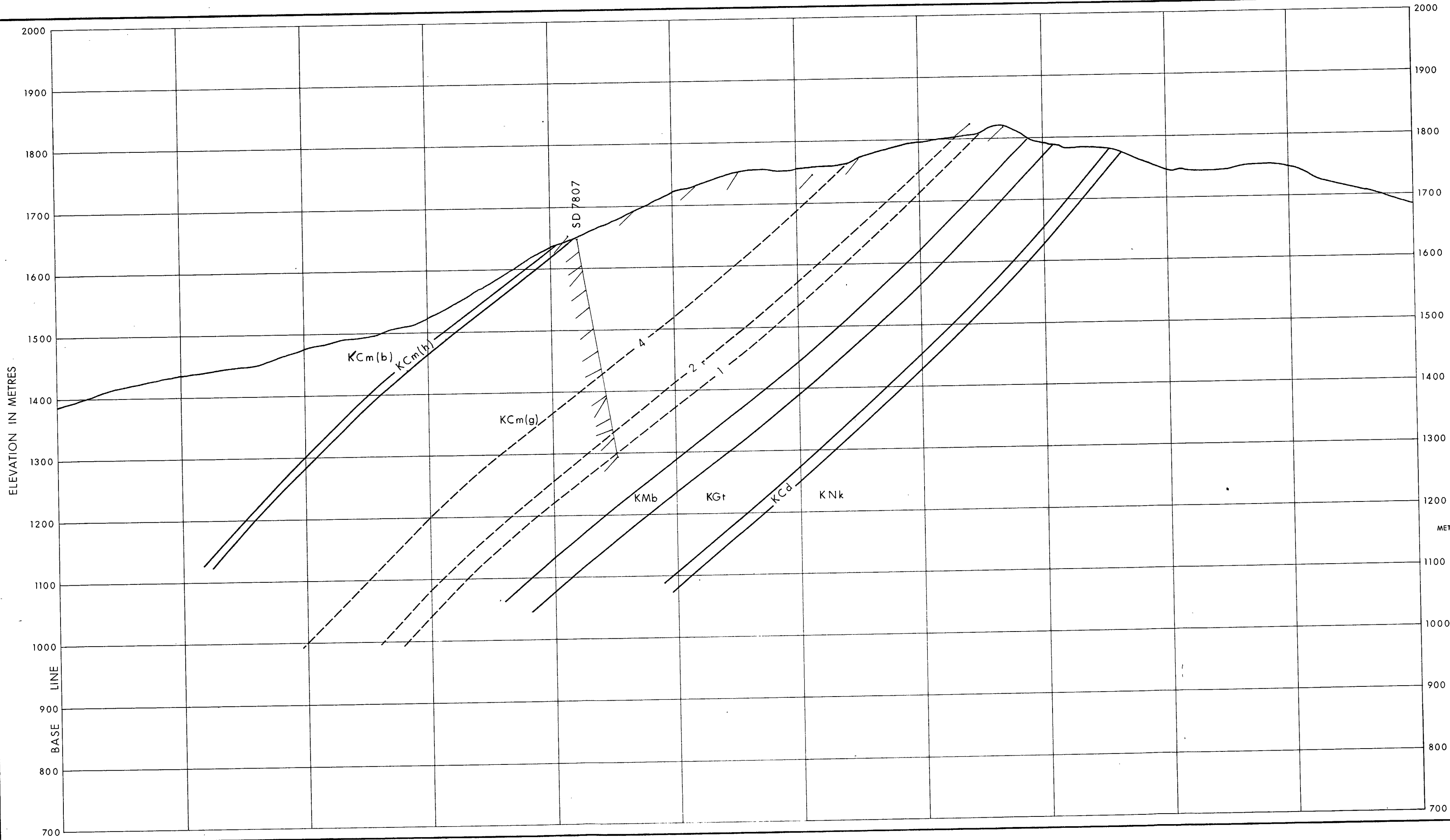
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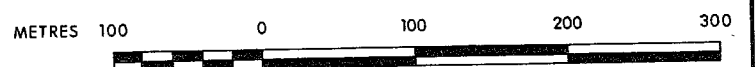
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2)A.

SAXON COAL LIMITED		
PREP'D BY DENISON MINES LIMITED		
SAXON EAST X7839		
DRAWN BY: E.J.T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750- R03



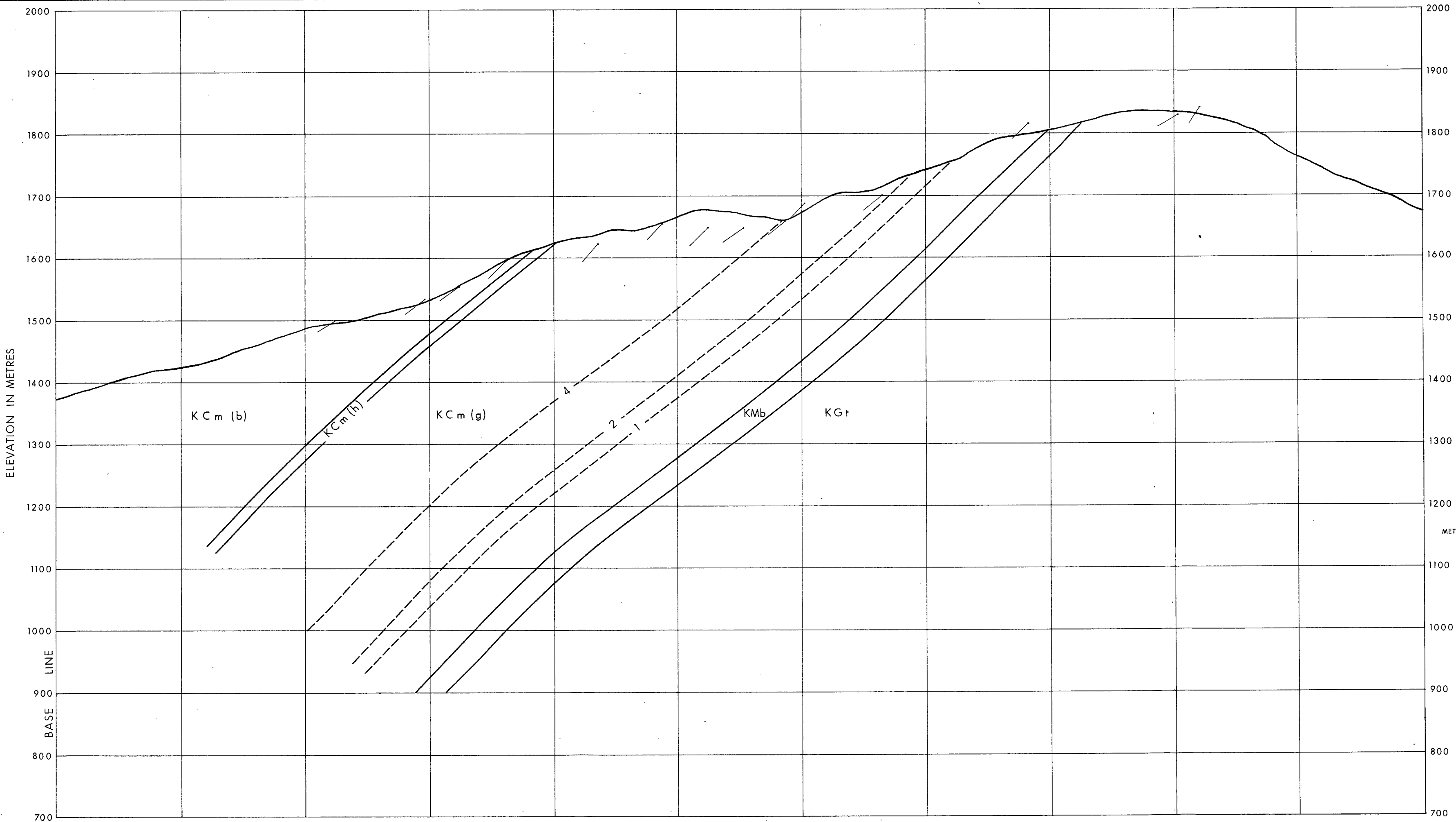
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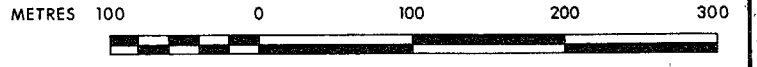
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2) A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7838		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



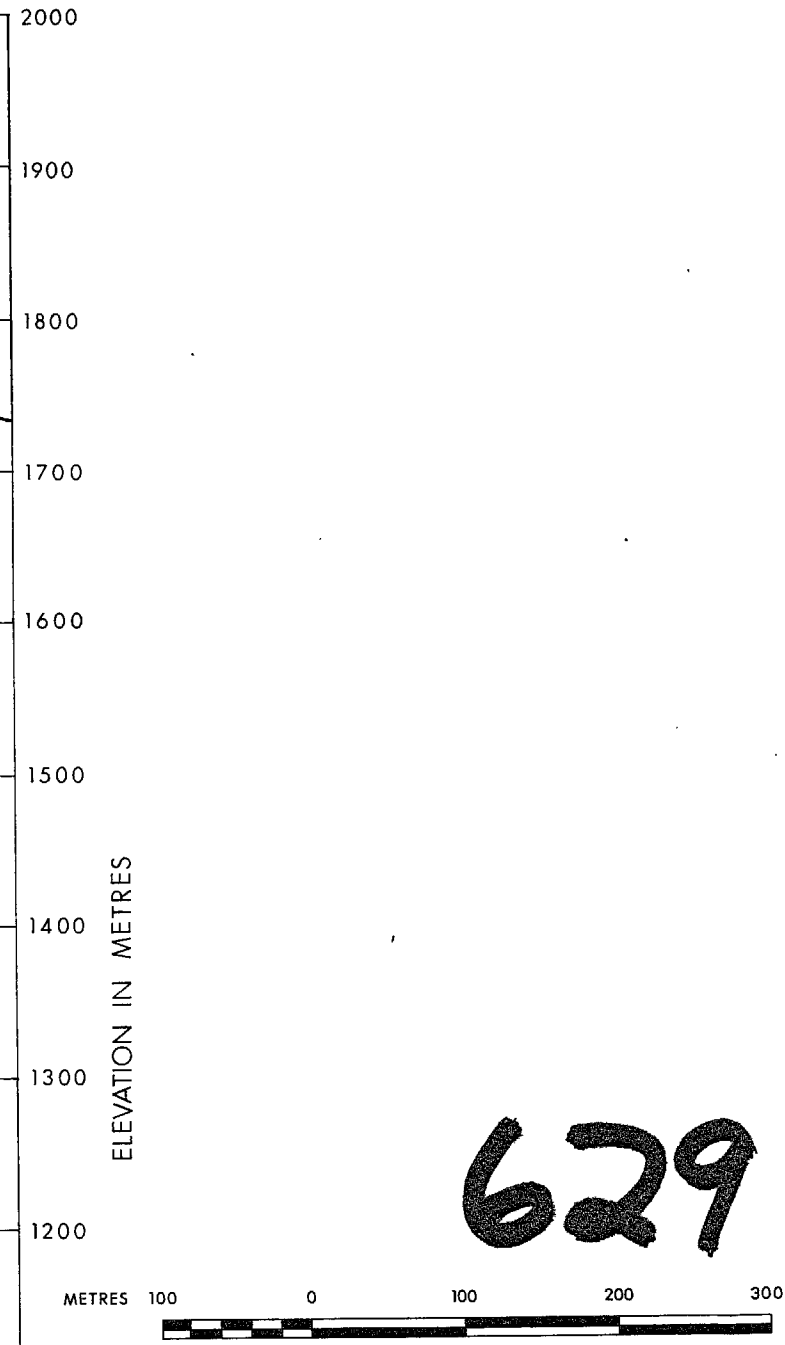
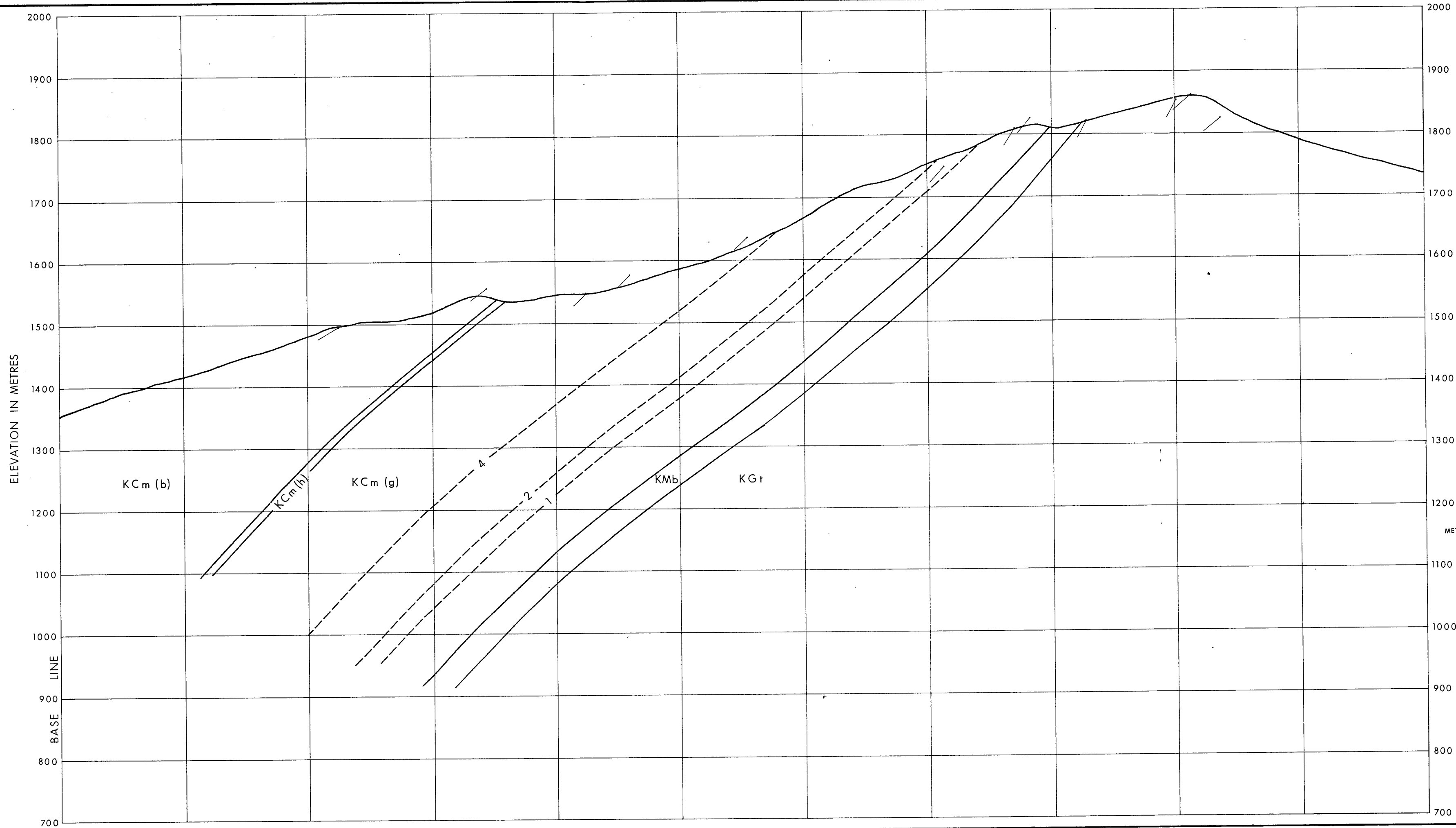
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR- SAXON 78(2)A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7837		
DRAWN BY: EJT	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

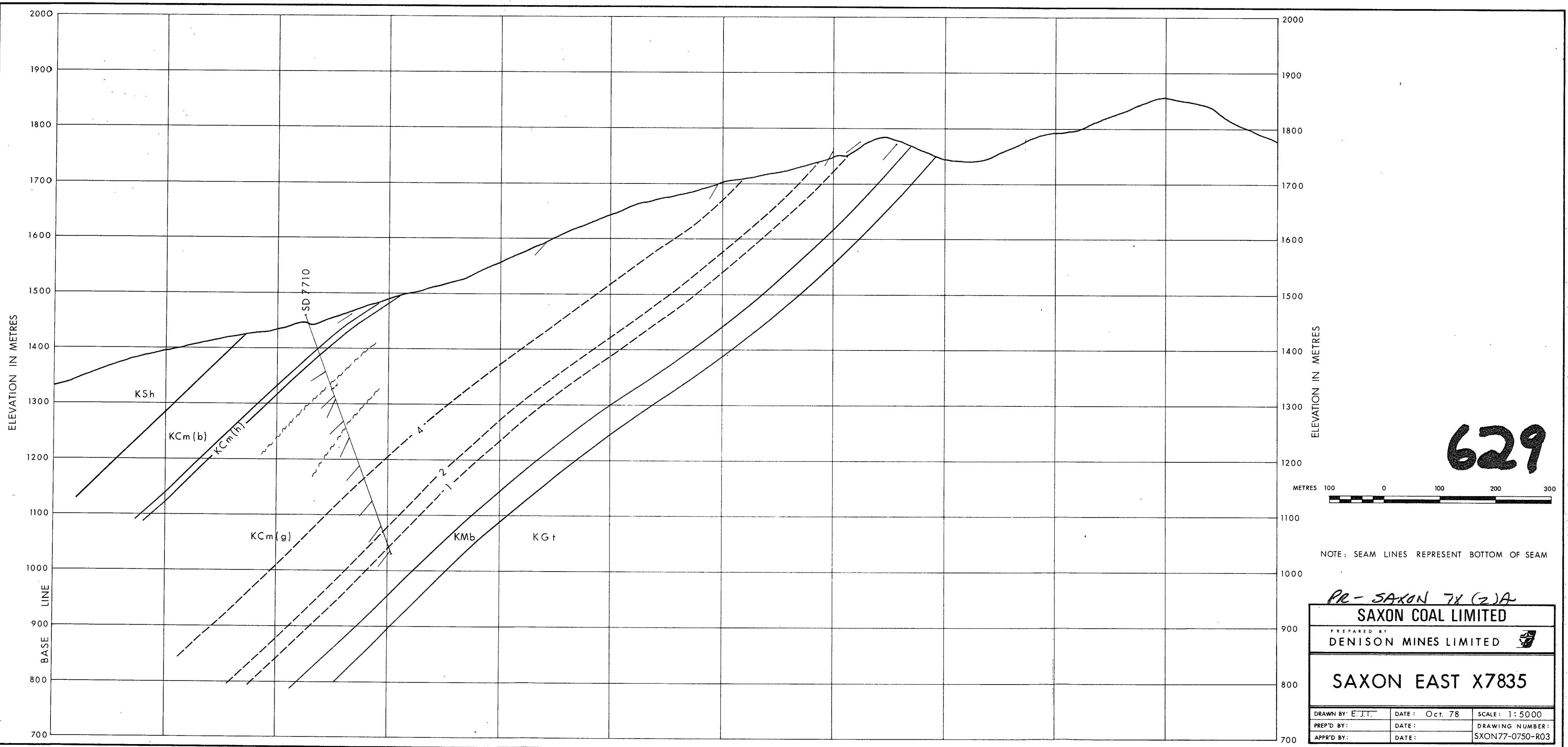
PR-SAXON 7K (2)A

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7836

DRAWN BY: EJT	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



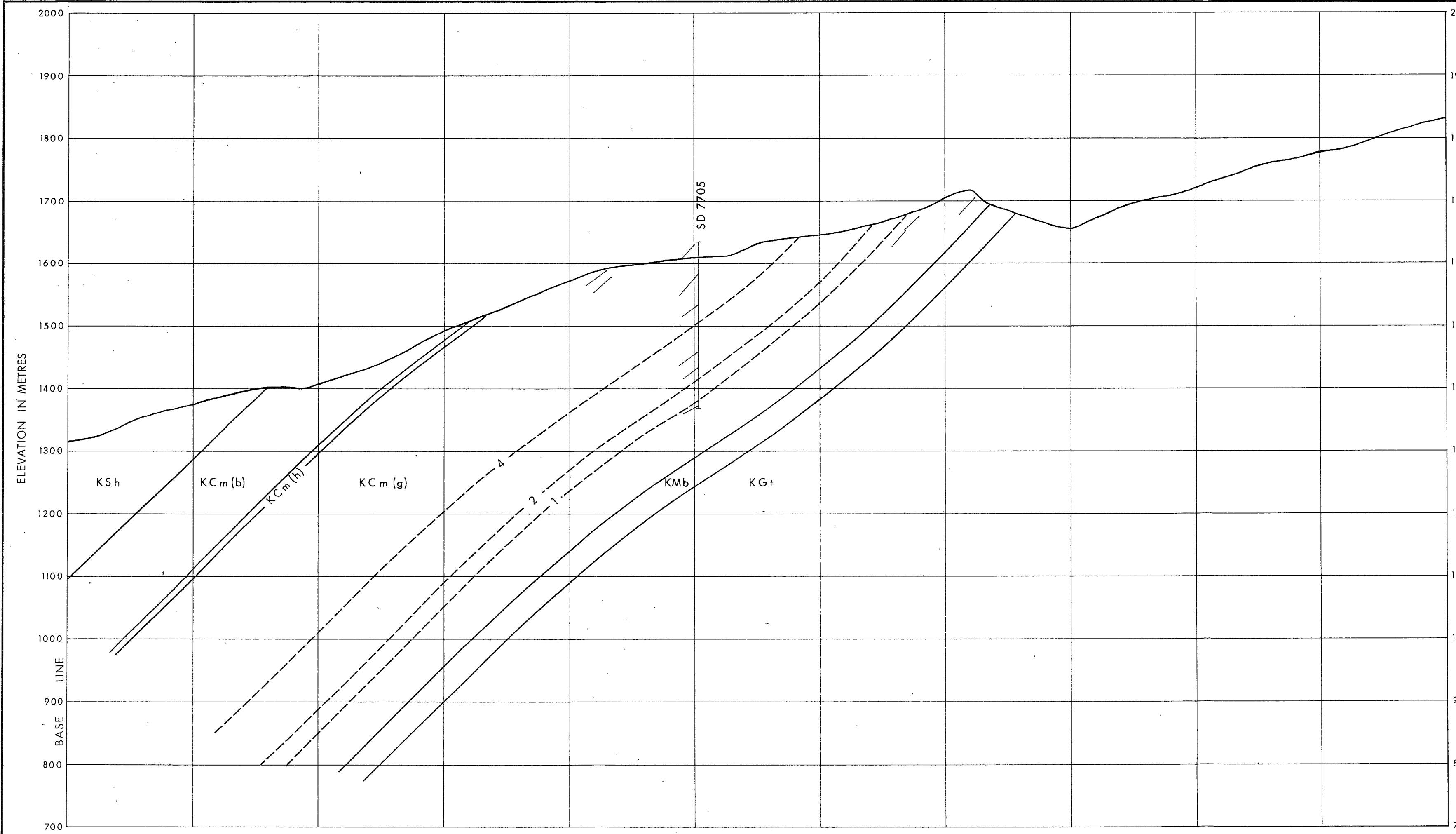
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2)A

SAXON COAL LIMITED
 PREPARED BY
 DENISON MINES LIMITED

SAXON EAST X7835

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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METRES 100 0 100 200 300

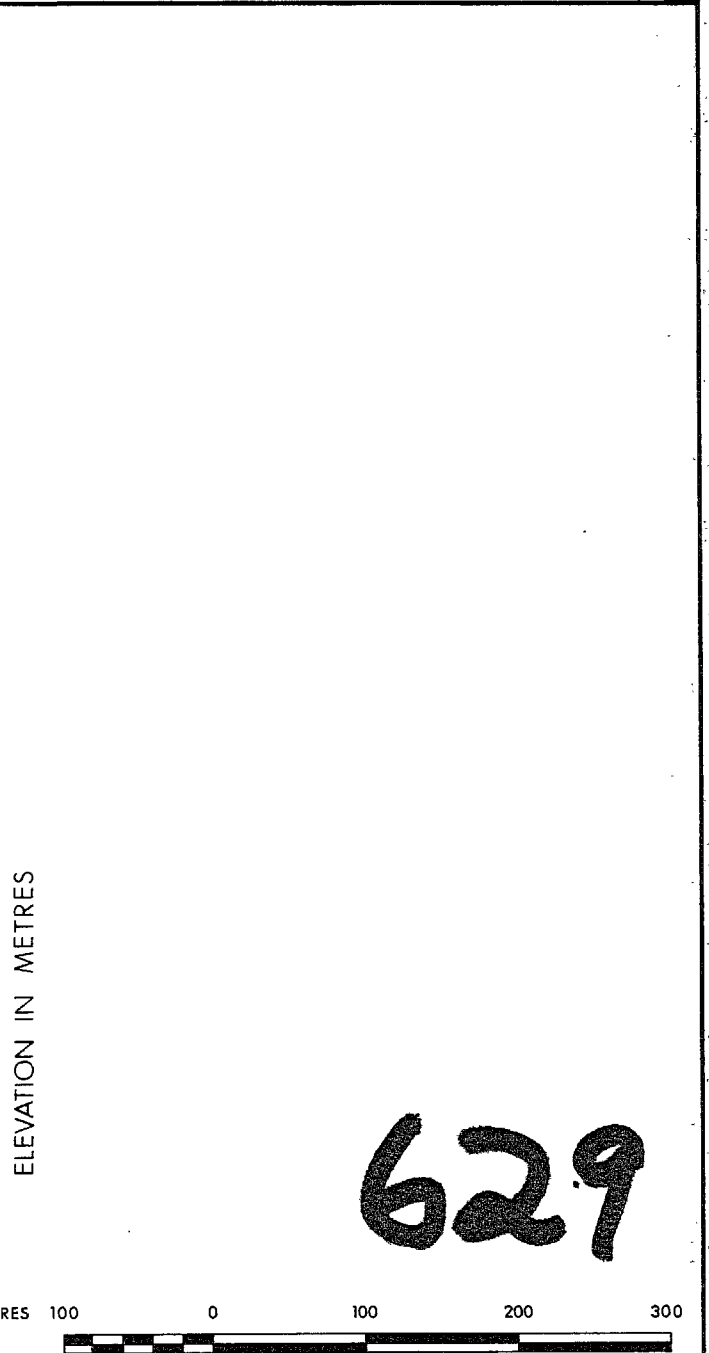
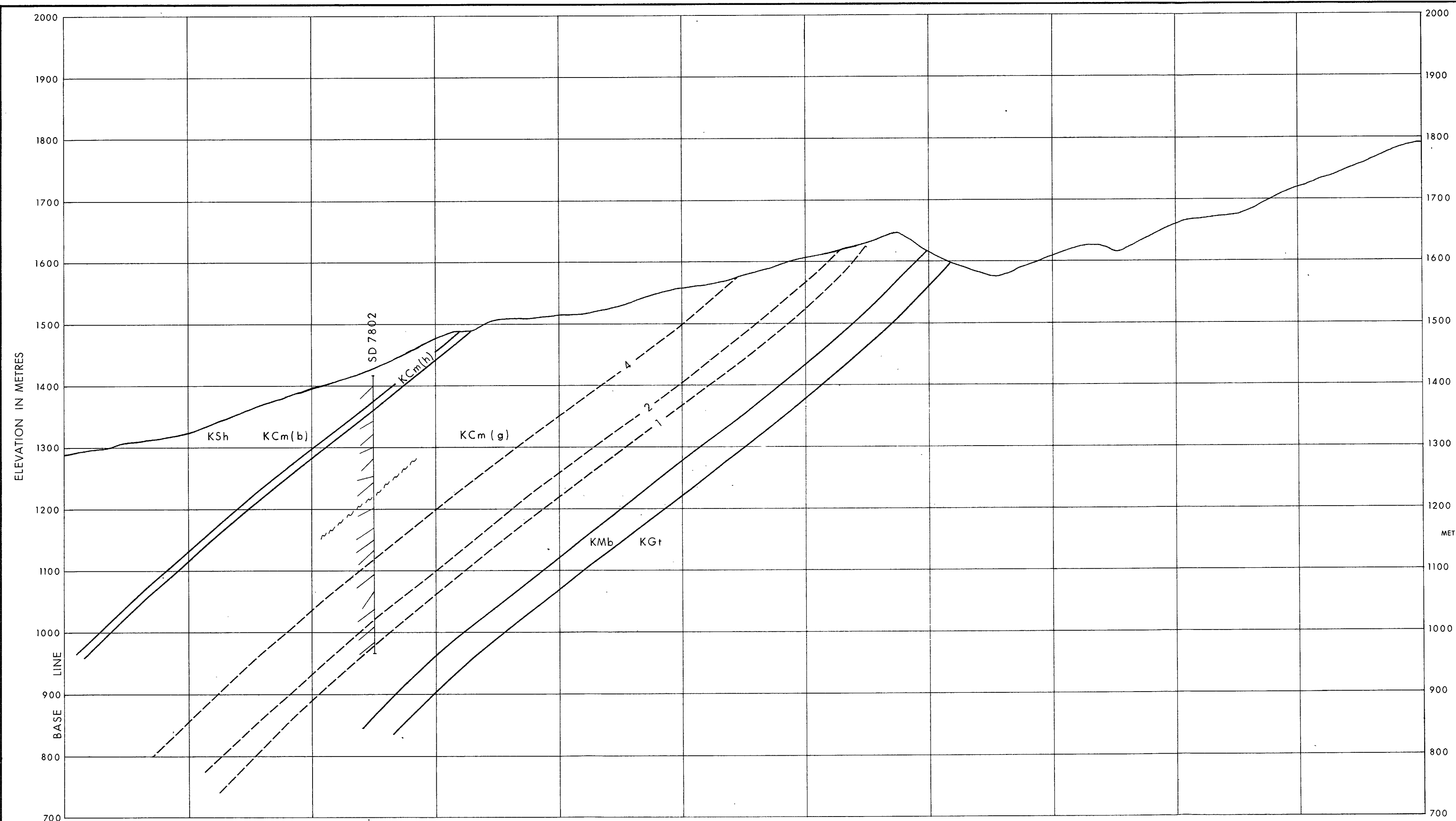
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 78(2)A
SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

SAXON EAST X7834

DRAWN BY: E.J.T.	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

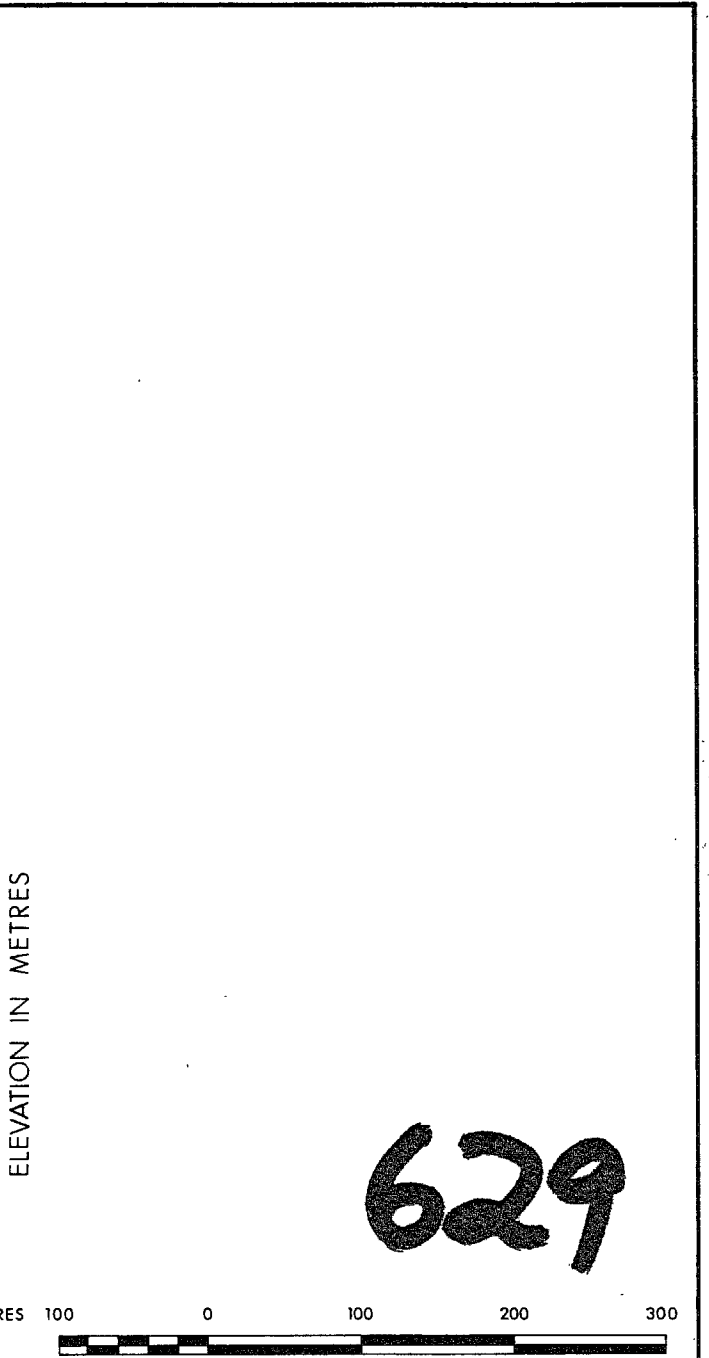
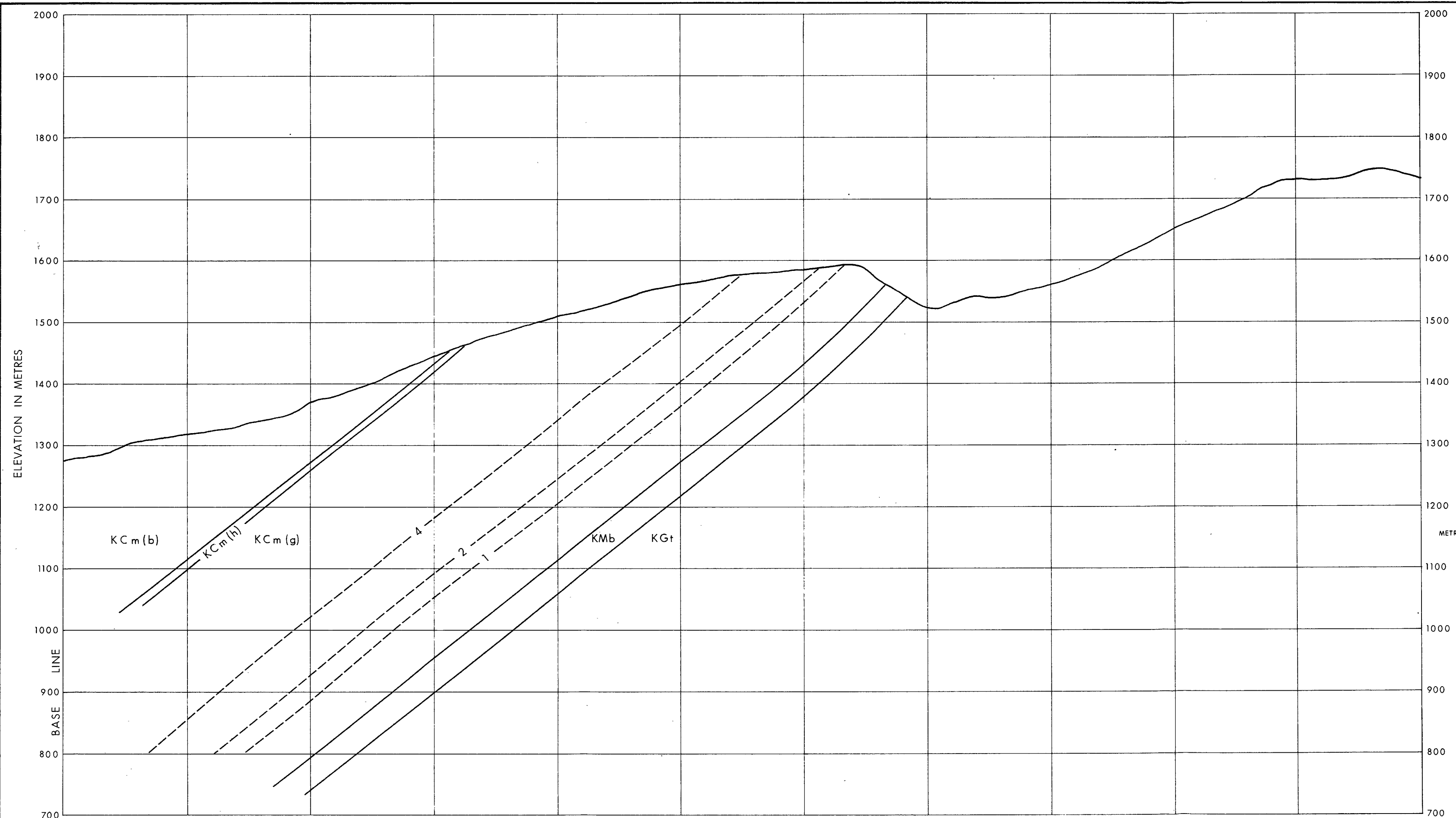
PR - SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7833

DRAWN BY: E.J.T.	DATE: Oct 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

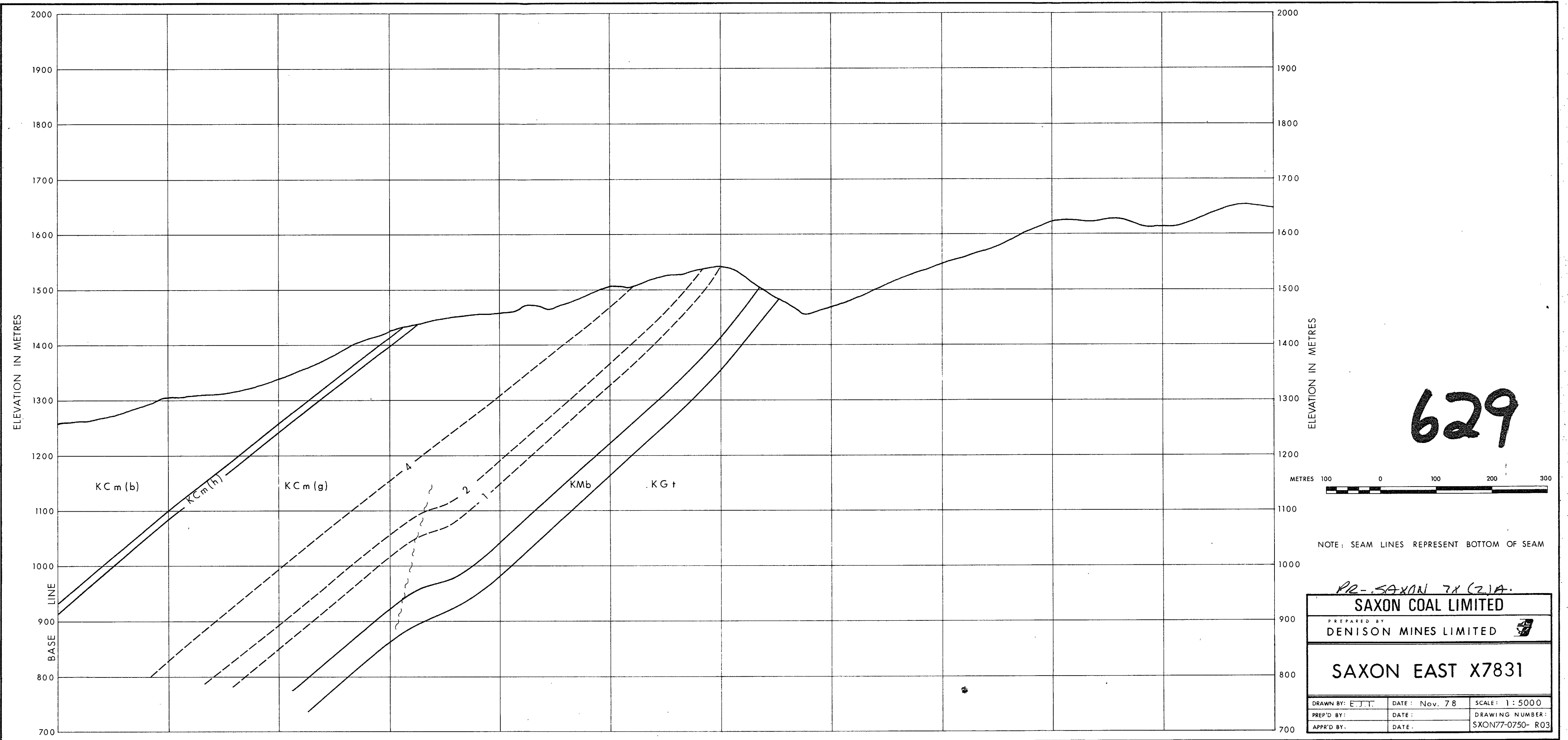
PR-SAXON 78(2)A.

SAXON COAL LIMITED

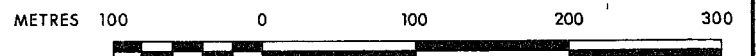
PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7832

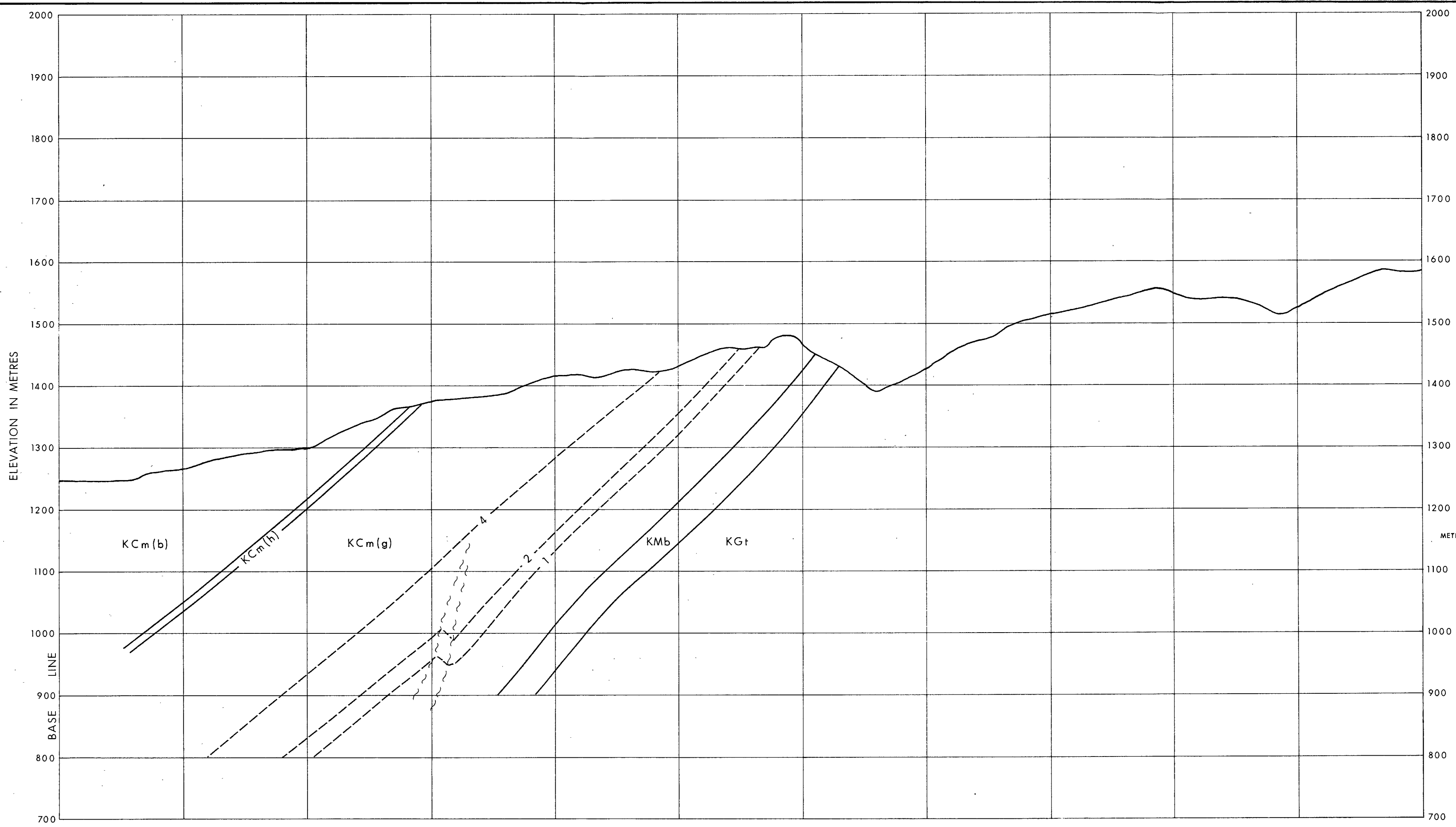
DRAWN BY: E.J.T.	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

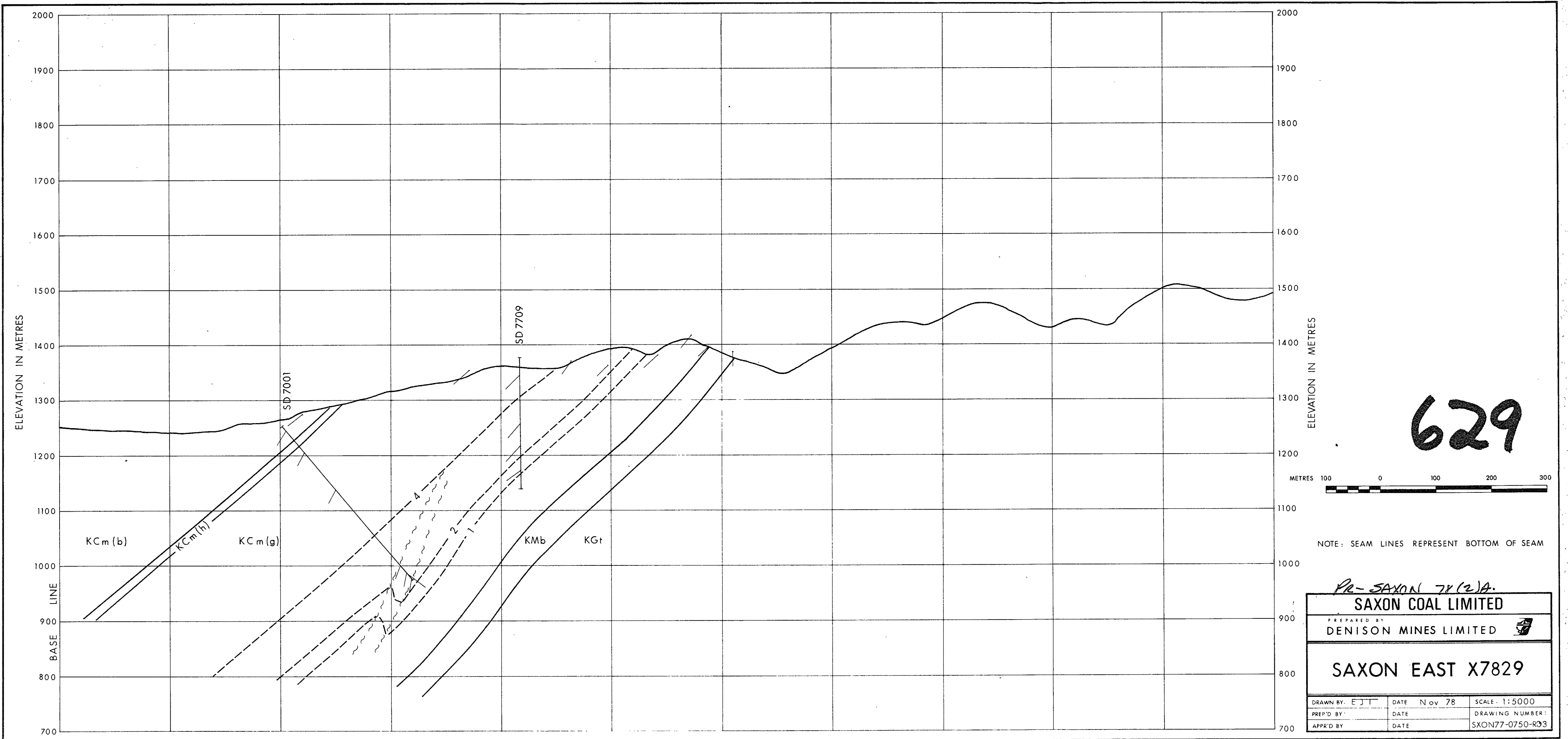
PR-SAXON 78(2)A.

SAXON COAL LIMITED

PREPARED BY DENISON MINES LIMITED

SAXON EAST X7830

DRAWN BY: E. J. T.	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

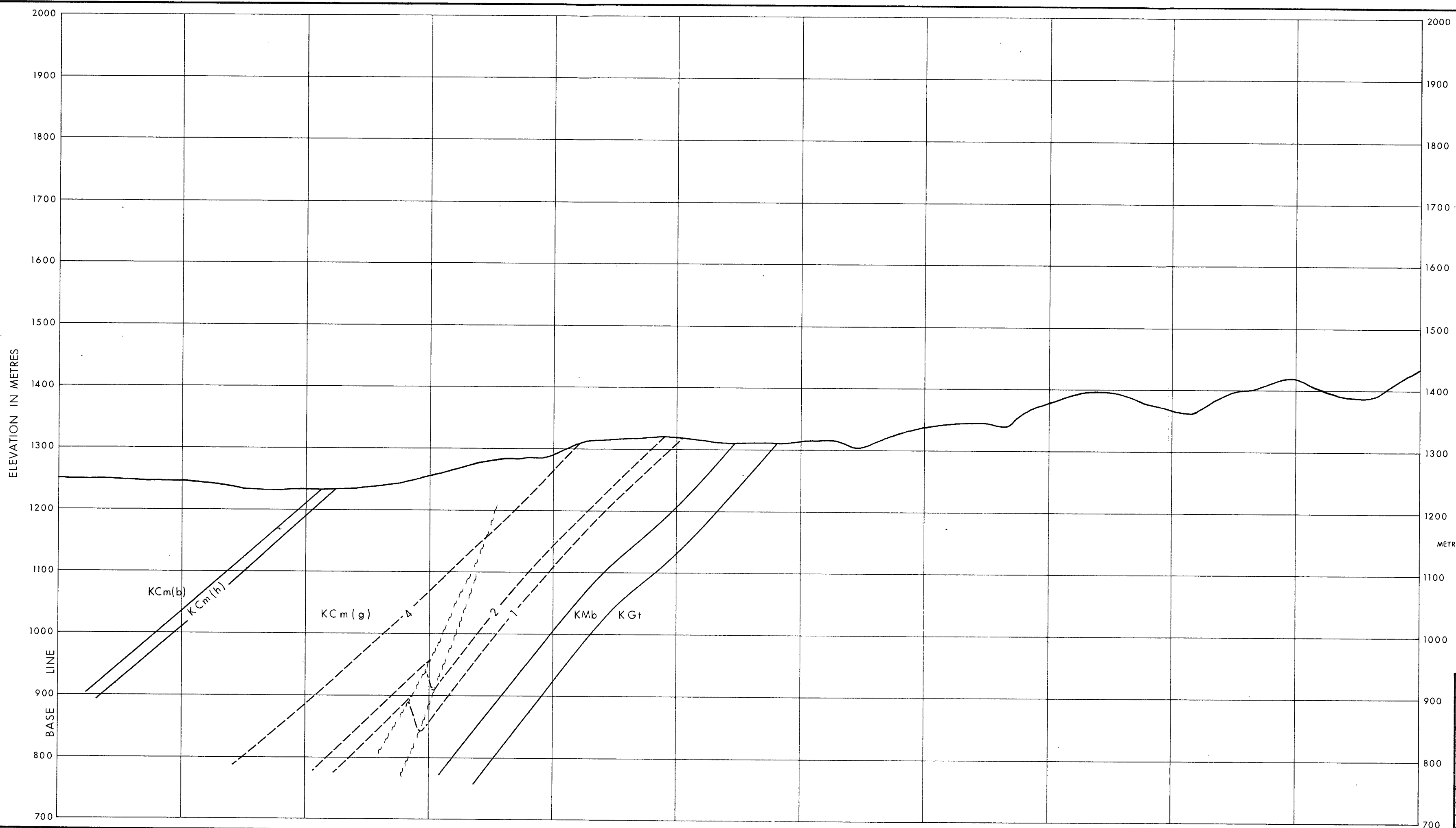
PR-SAXON 7x(2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7829

DRAWN BY: EJT	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

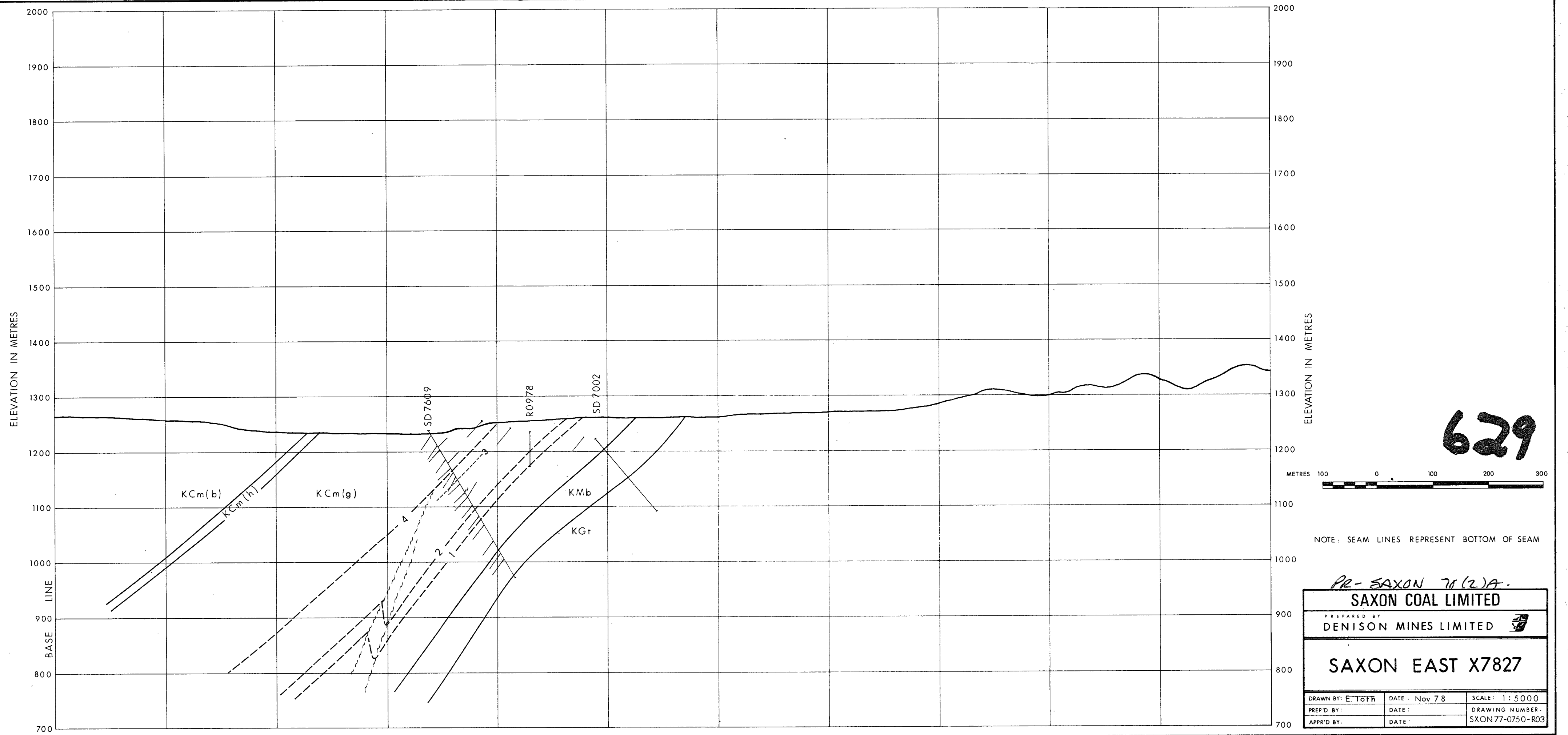
PR. SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7828

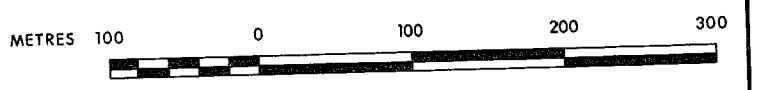
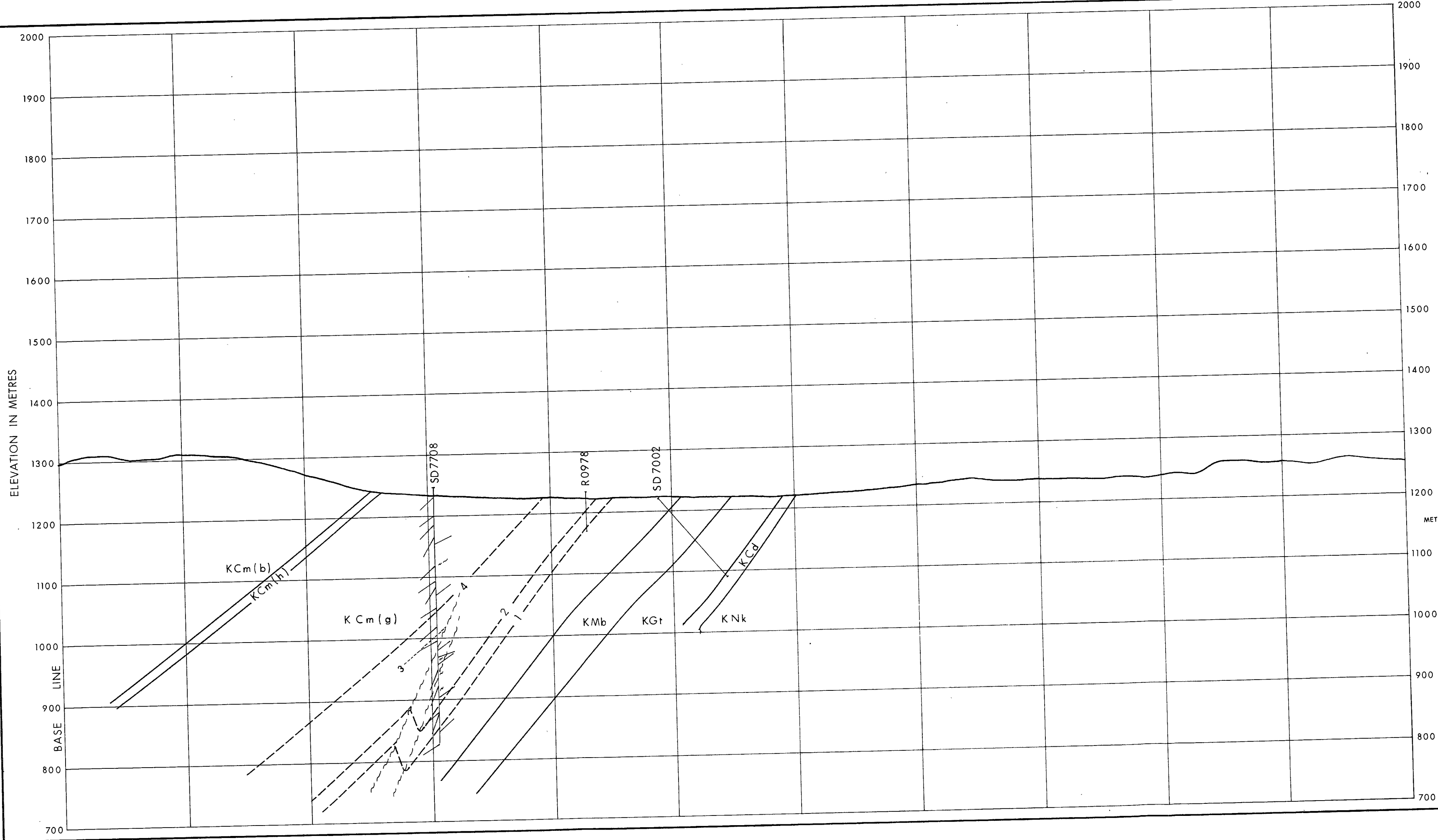
DRAWN BY: E TOFF	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 78(2)A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7827		
DRAWN BY: E. TOFR	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

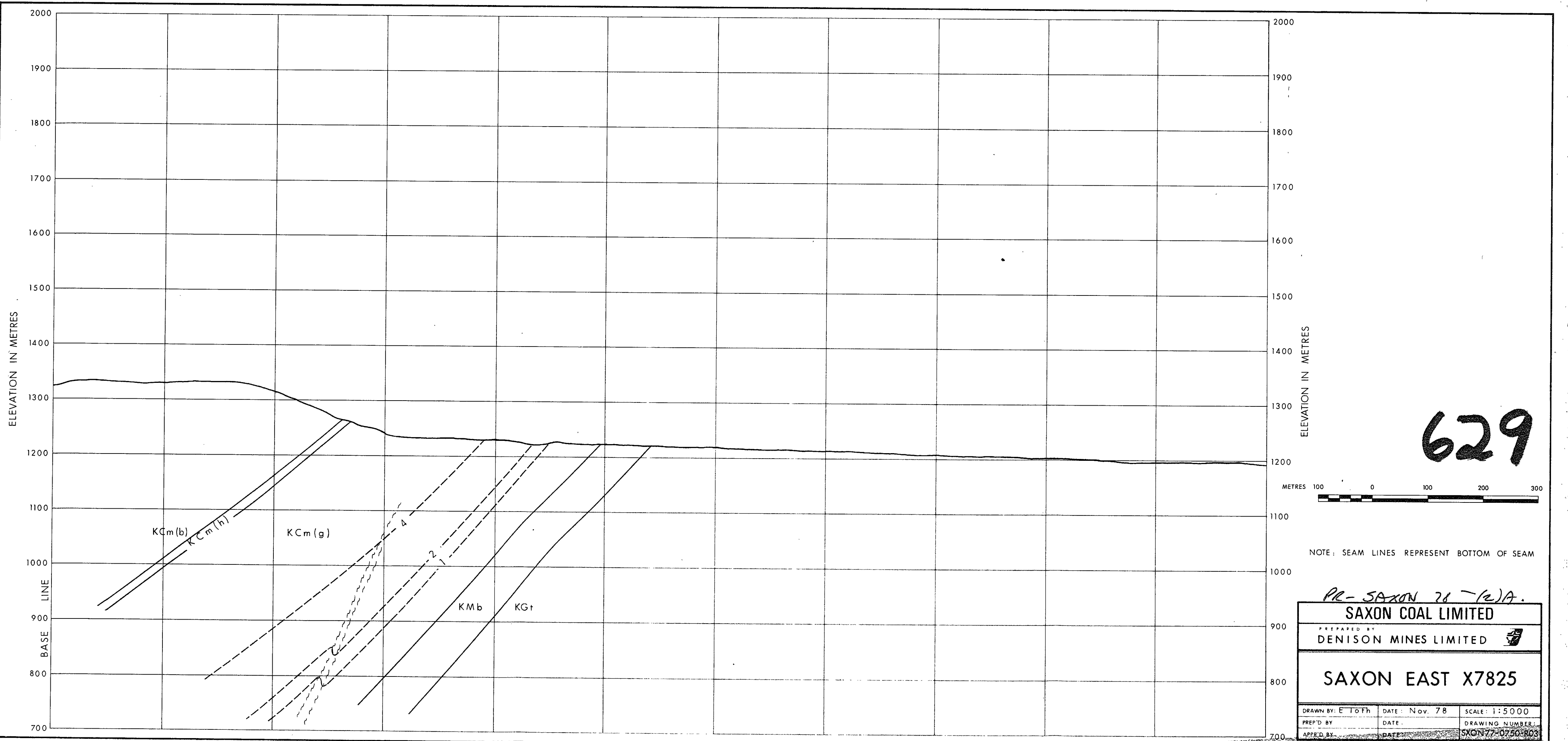
PR-SAXON 78 (2)A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7826

DRAWN BY: E. Toth	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



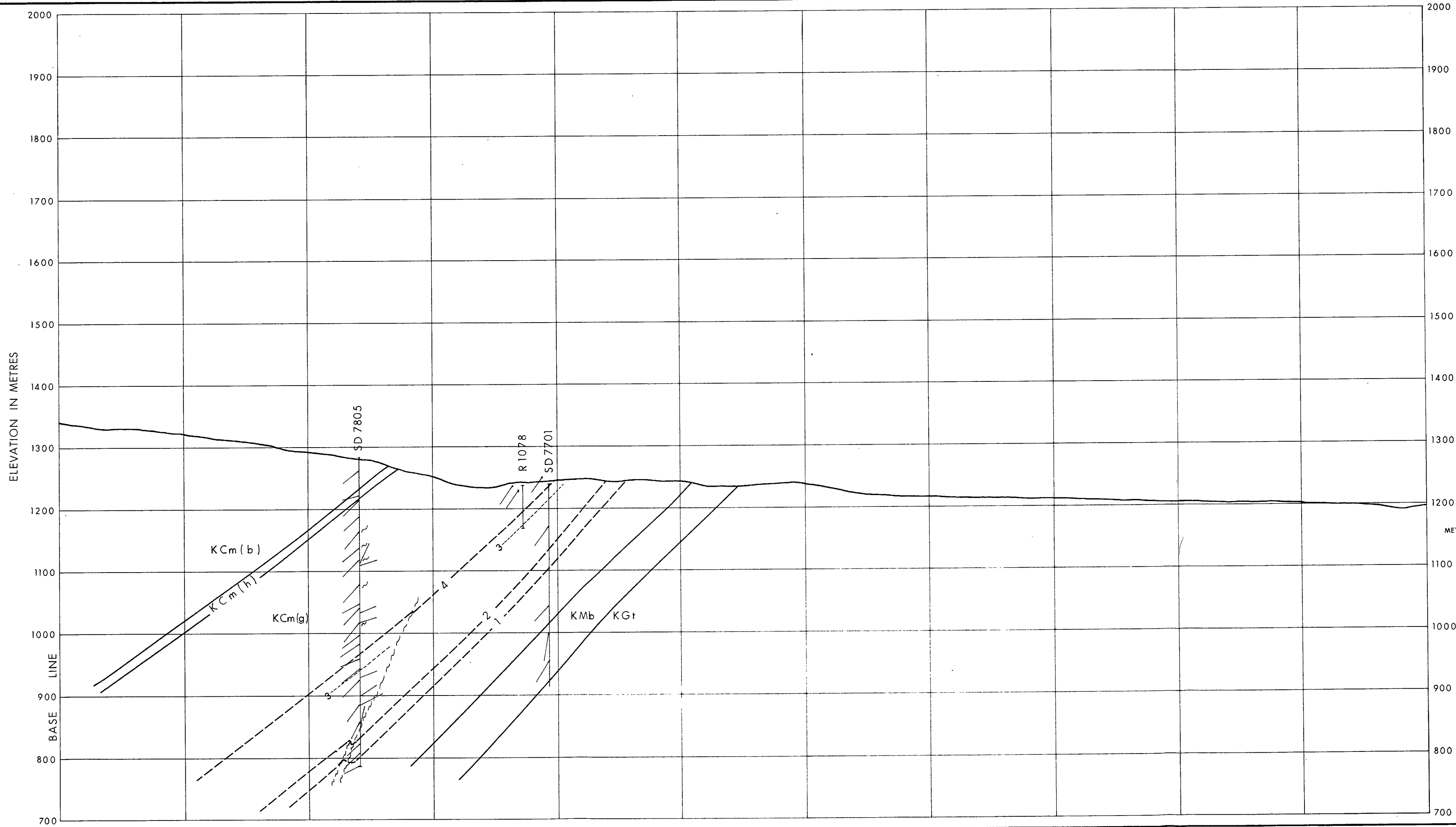
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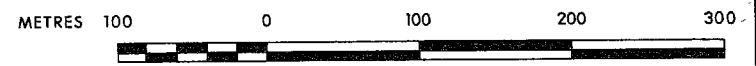
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 28 (2)A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7825		
DRAWN BY: E Toth	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY	DATE:	DRAWING NUMBER:
APP'D BY	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

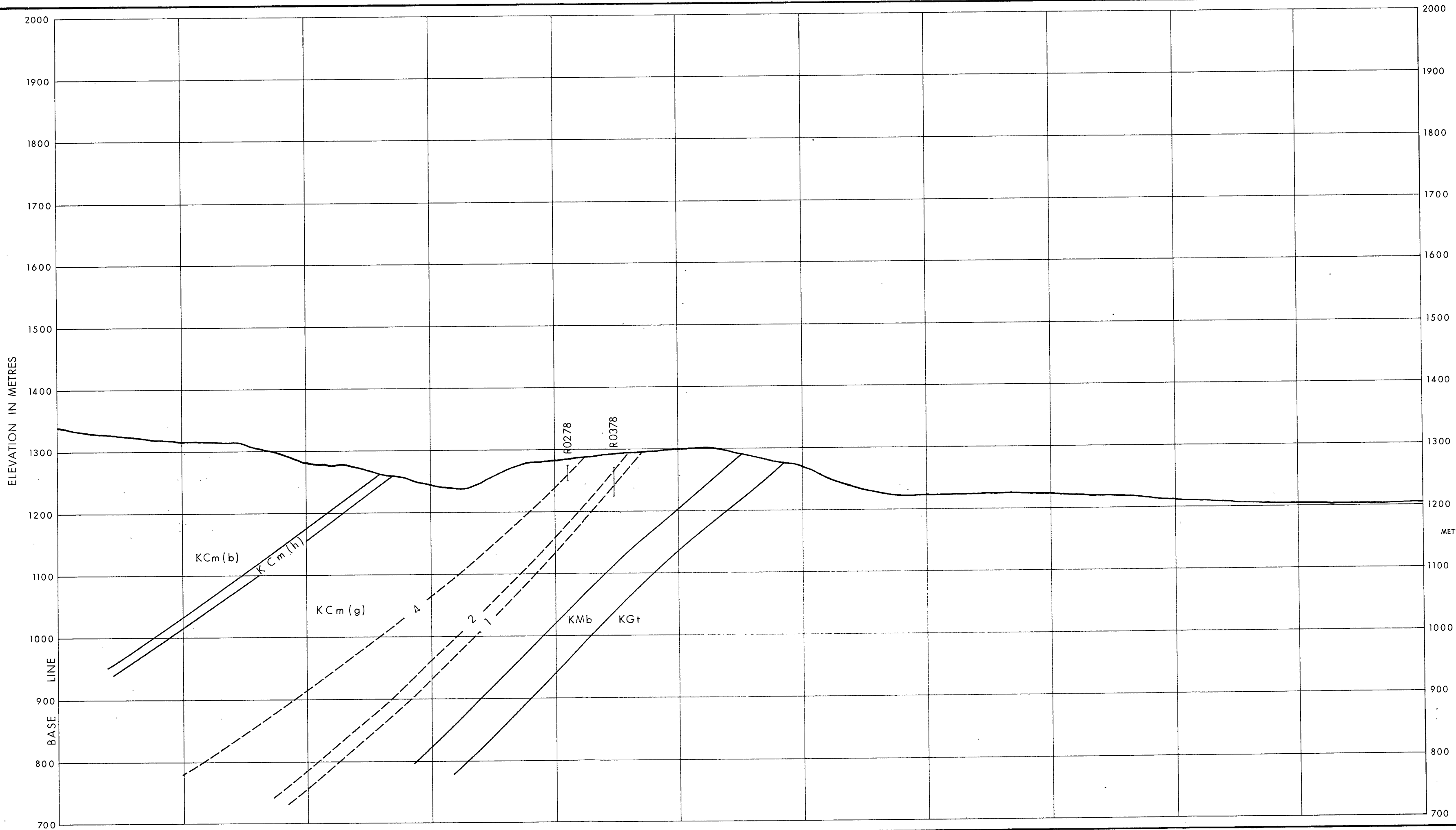
PR-SAXON 78 (2)A.

SAXON COAL LIMITED

PREP'D BY DENISON MINES LIMITED

SAXON EAST X7824

DRAWN BY: E. TOFF	DATE: Nov 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

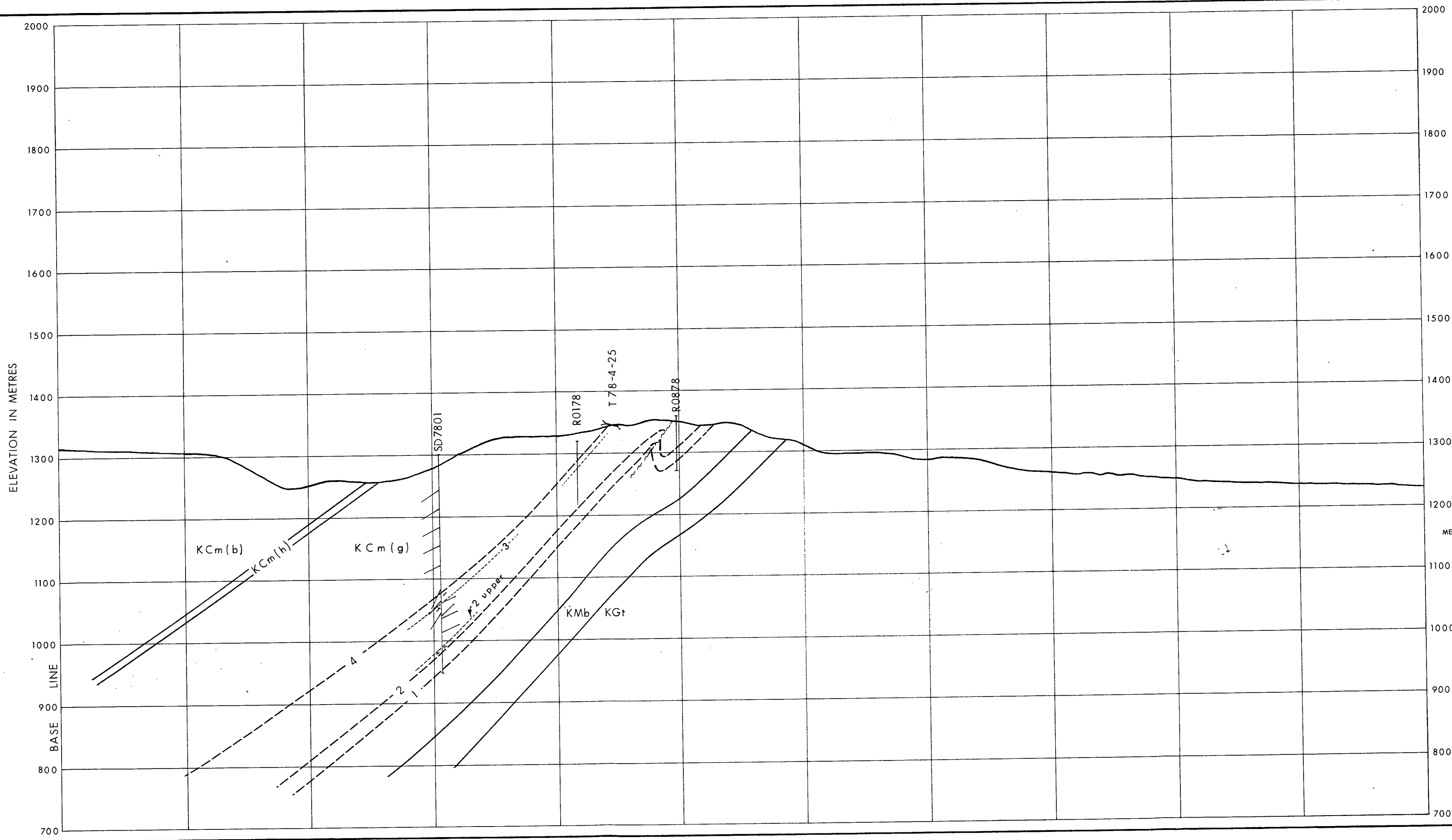
PR-5AXON 78(2)A

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7823

DRAWN BY: ETOFH	DATE: Nov. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'R'D BY:	DATE:	SXON77-0750-R03

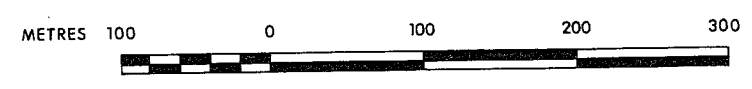


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ELEVATION IN METRES

ELEVATION IN METRES

BASE LINE



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

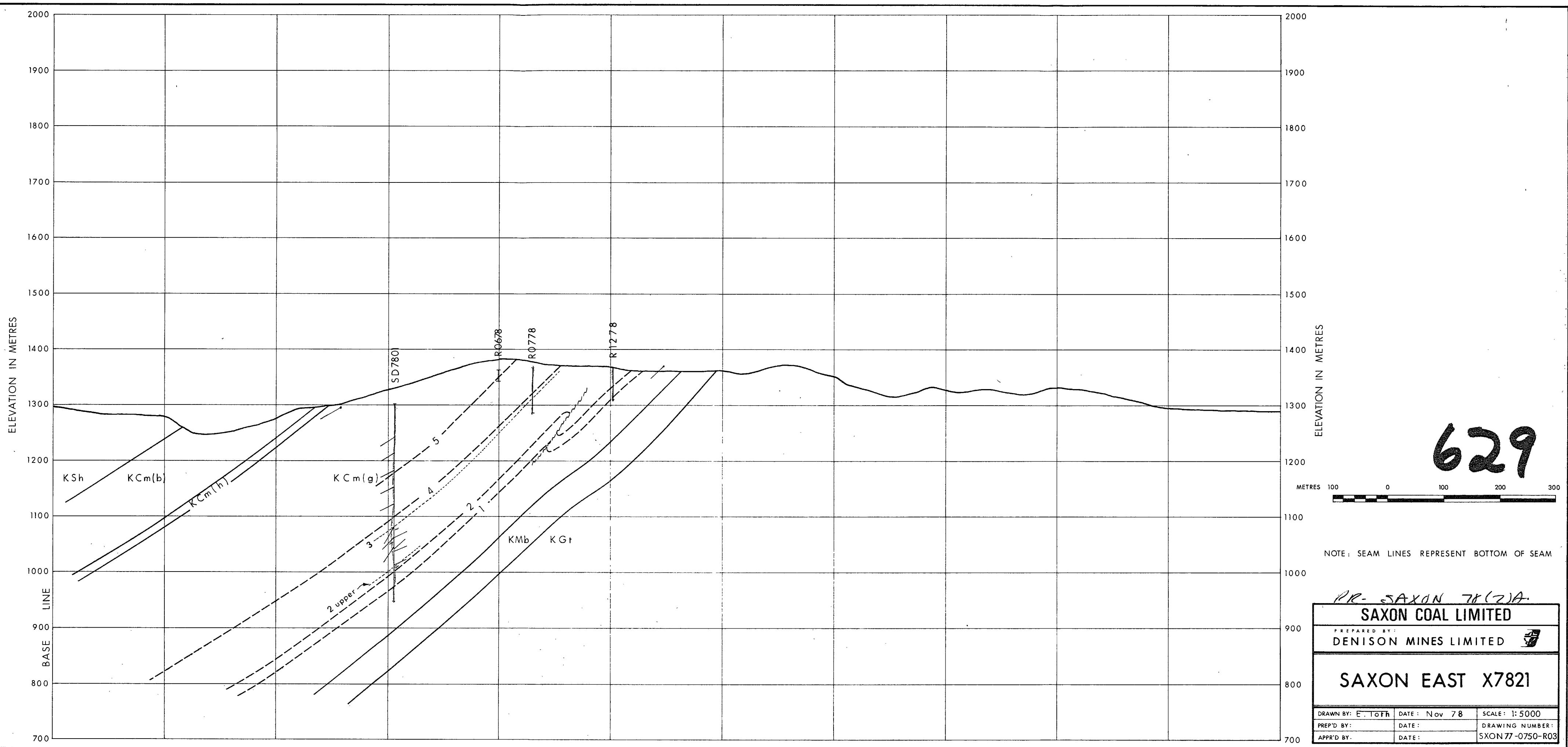
RR-SAXON 78(2)A.

SAXON COAL LIMITED

PREP'D BY: DENISON MINES LIMITED

SAXON EAST X7822

DRAWN BY: E. ToFF	DATE: Nov. 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

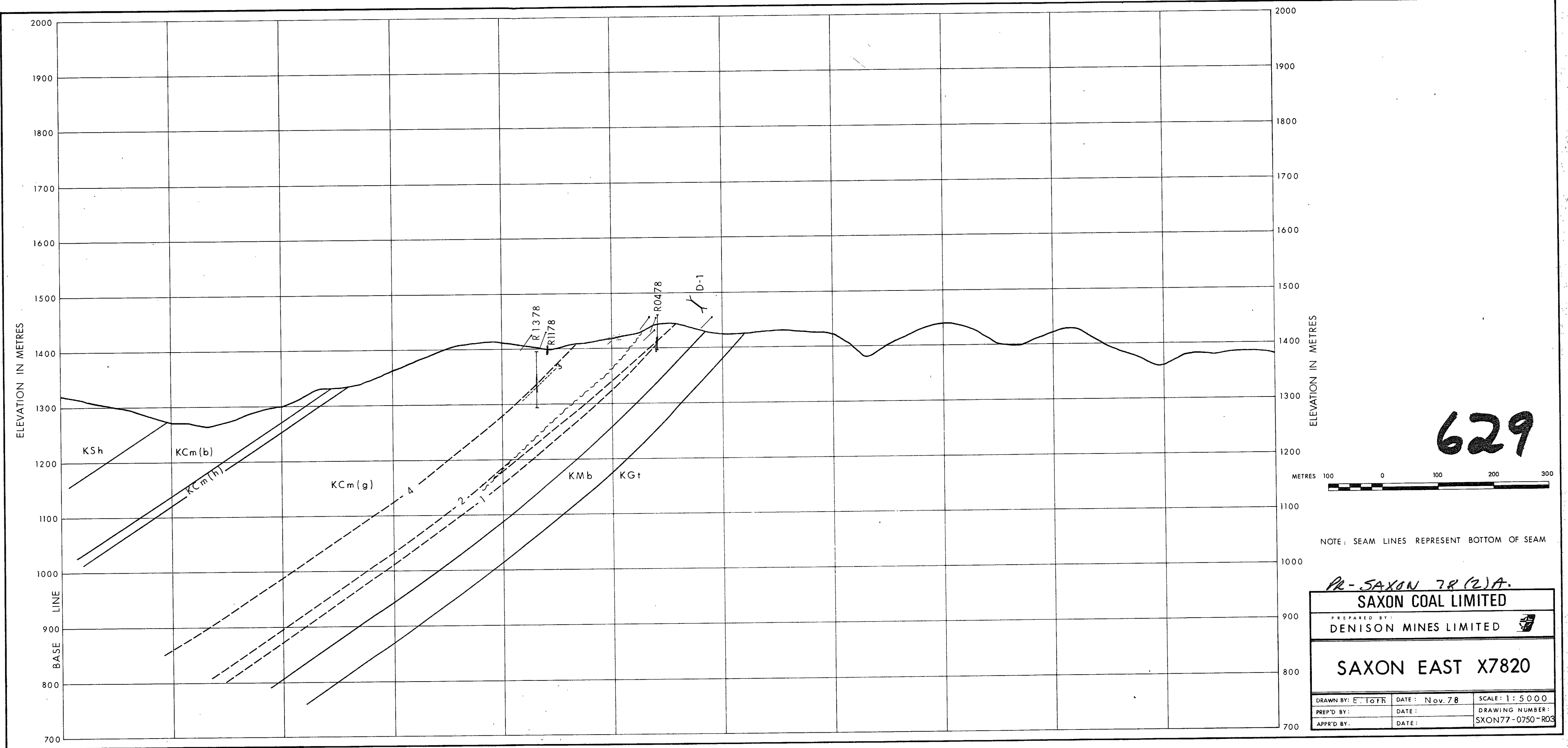
PR- Saxon 78(2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

SAXON EAST X7821

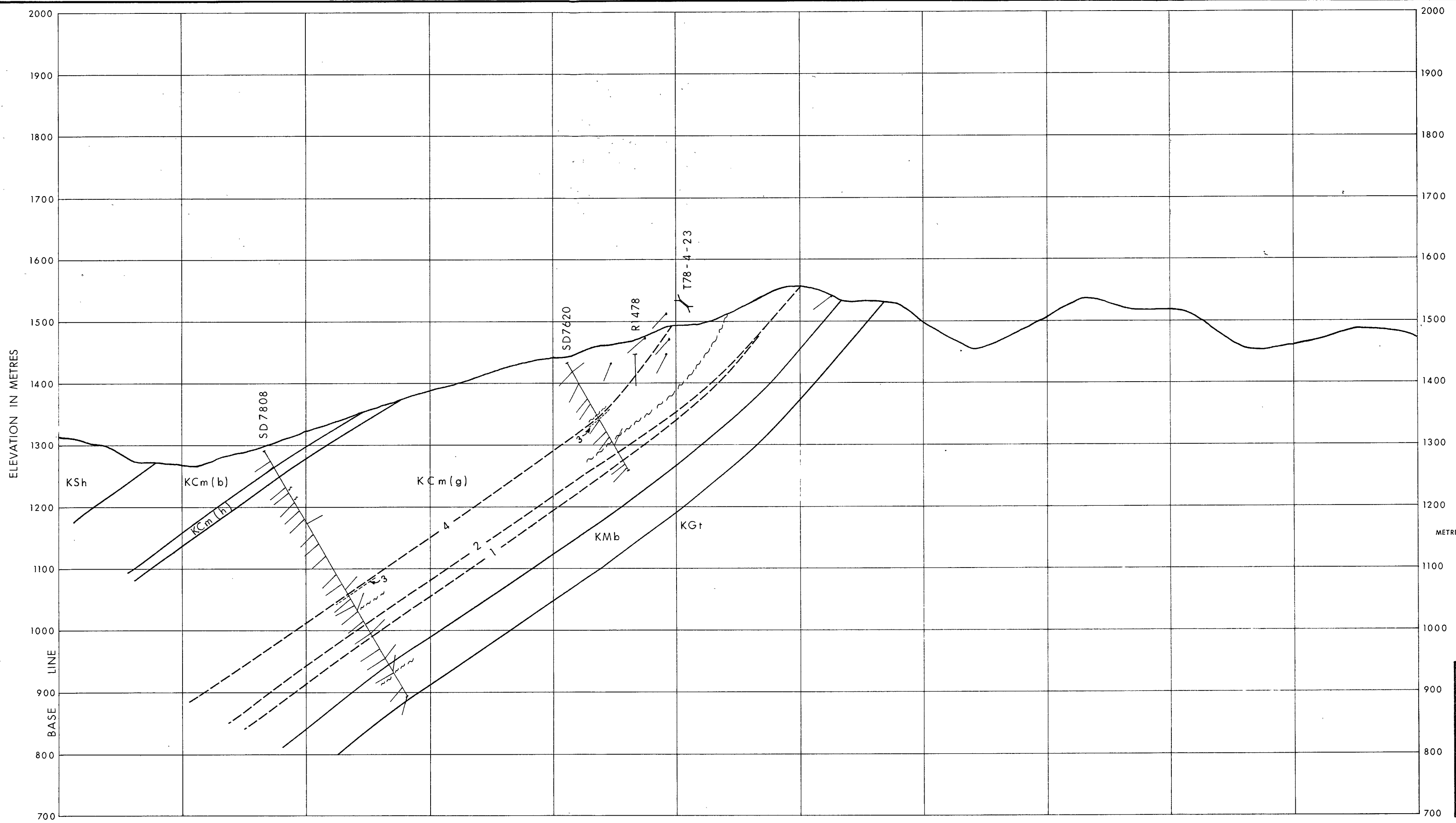
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APP'D BY:	DATE:	



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM



ELEVATION IN METRES

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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

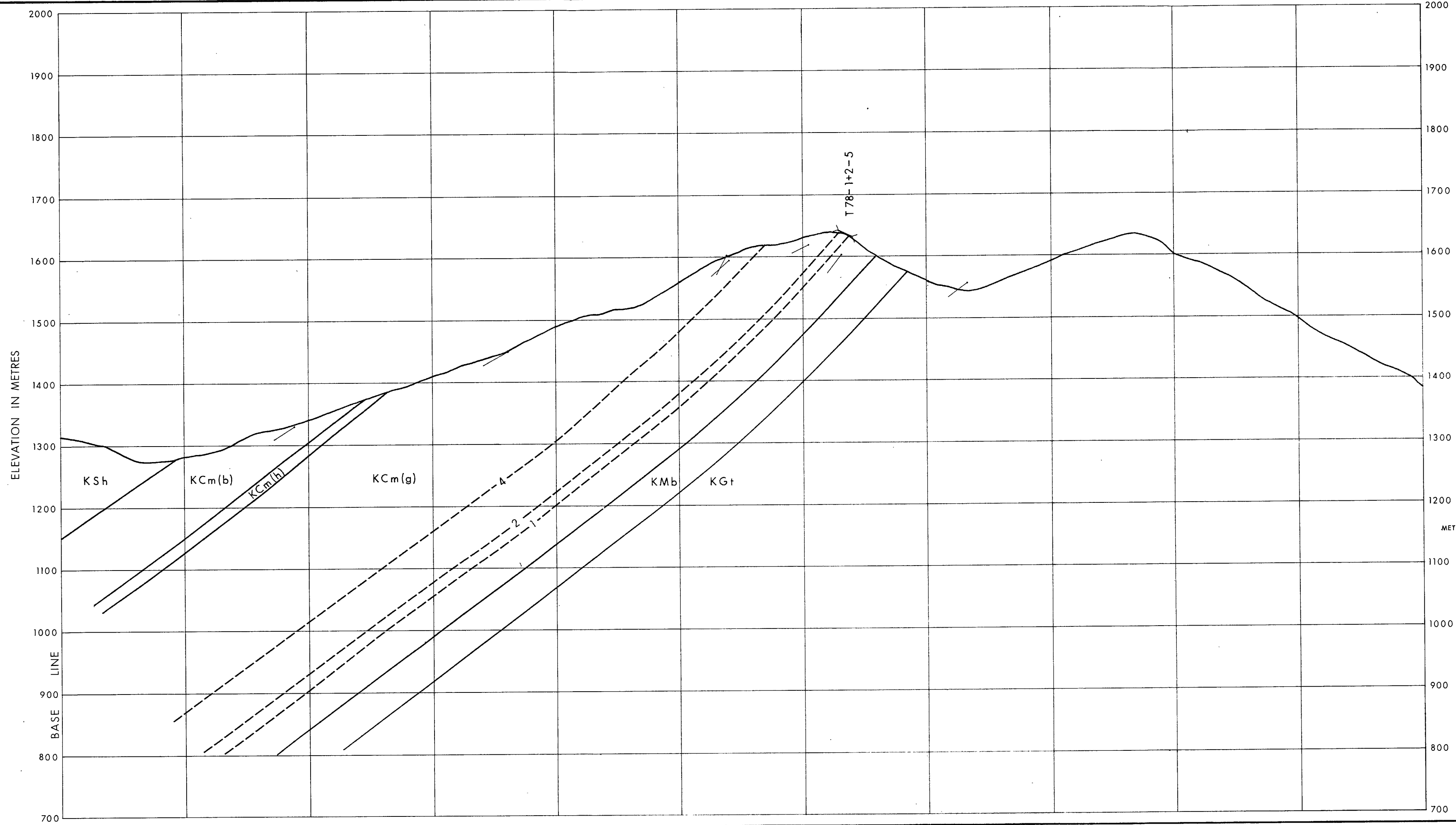
PR - SAXON 7X(2)A.

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

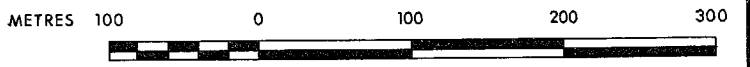
SAXON EAST X7819

DRAWN BY: E. T. G. F.	DATE: Nov. 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



ELEVATION IN METRES

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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

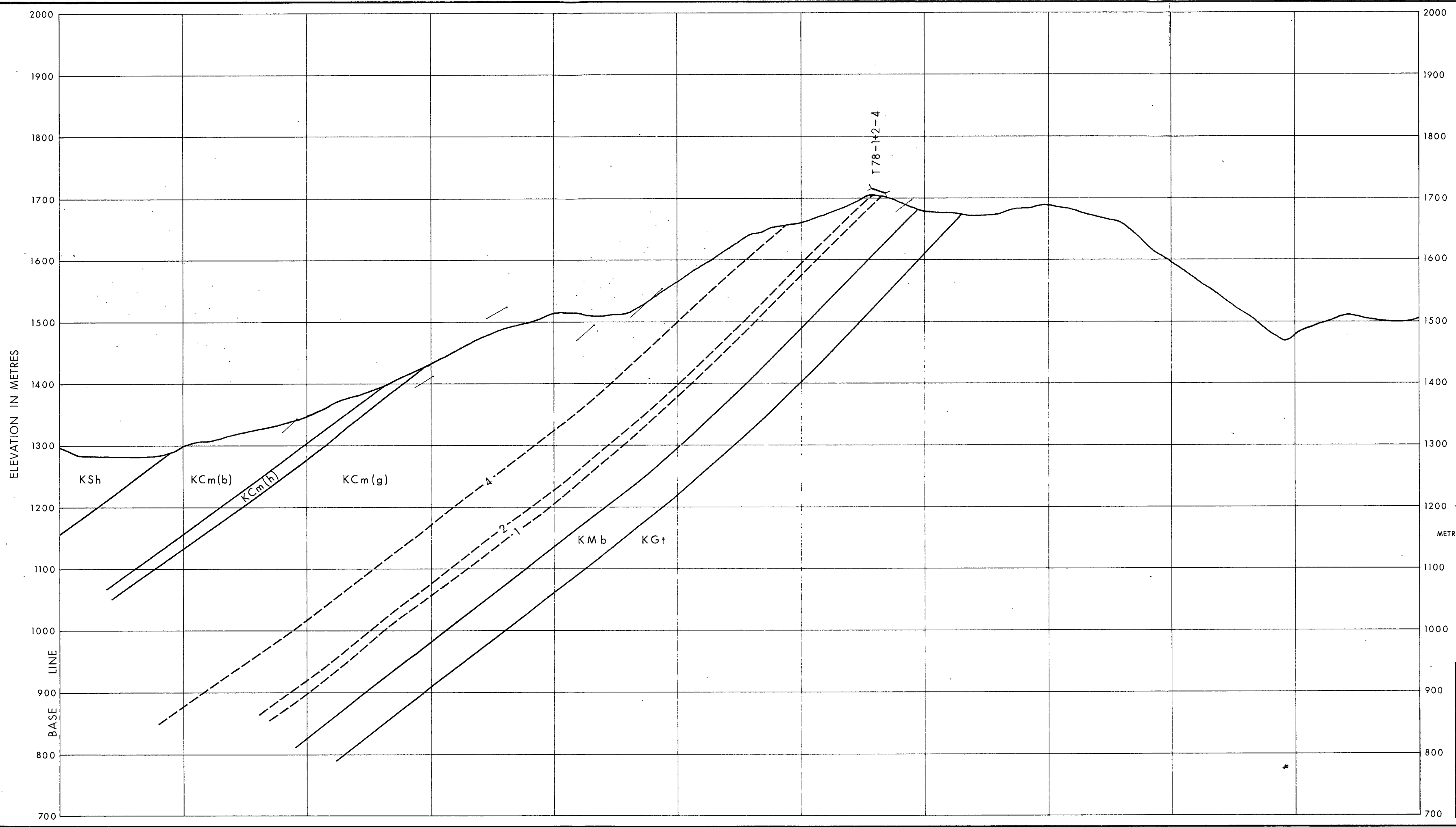
PR-SAXON 7x(2)A.

SAXON COAL LIMITED

PREPARED BY DENISON MINES LIMITED

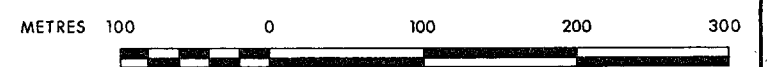
SAXON EAST X7818

DRAWN BY: R.Z.	DATE: Oct. 78	SCALE: 1:5000
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APPR'D BY:	DATE:	SXON77-0750-R03



ELEVATION IN METRES

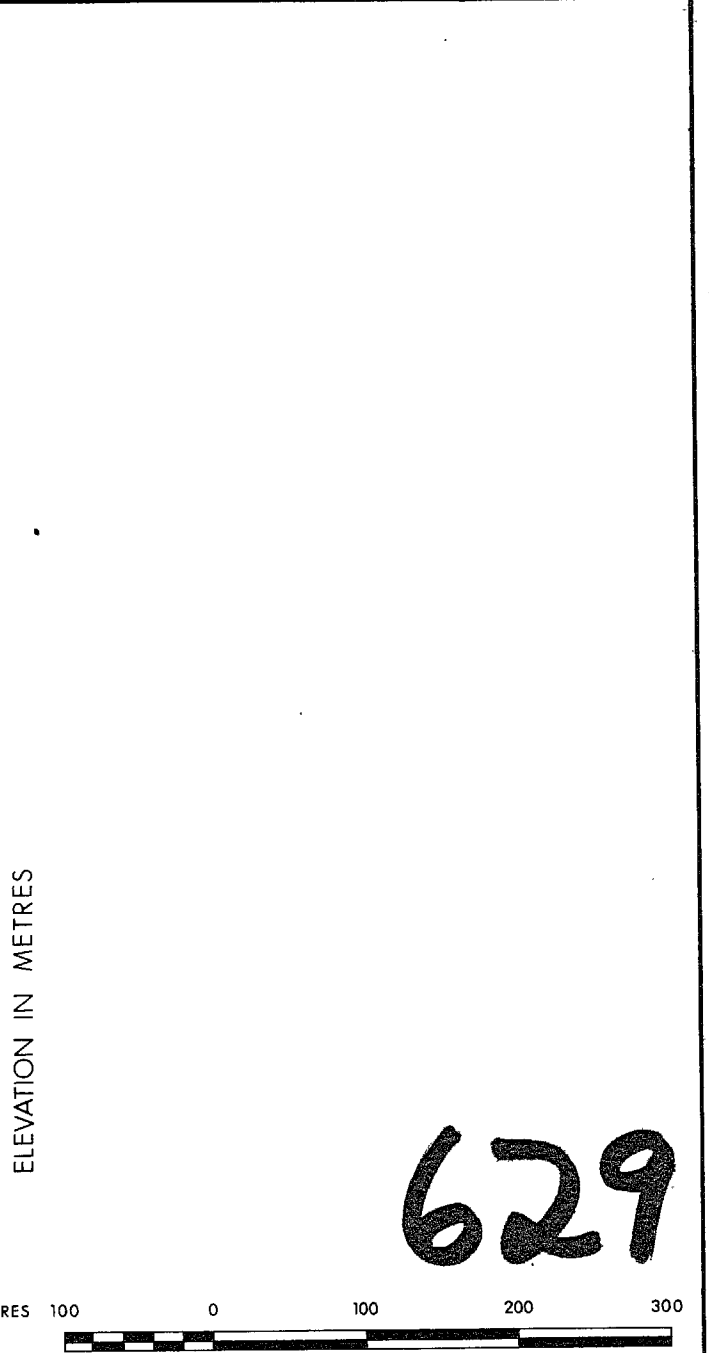
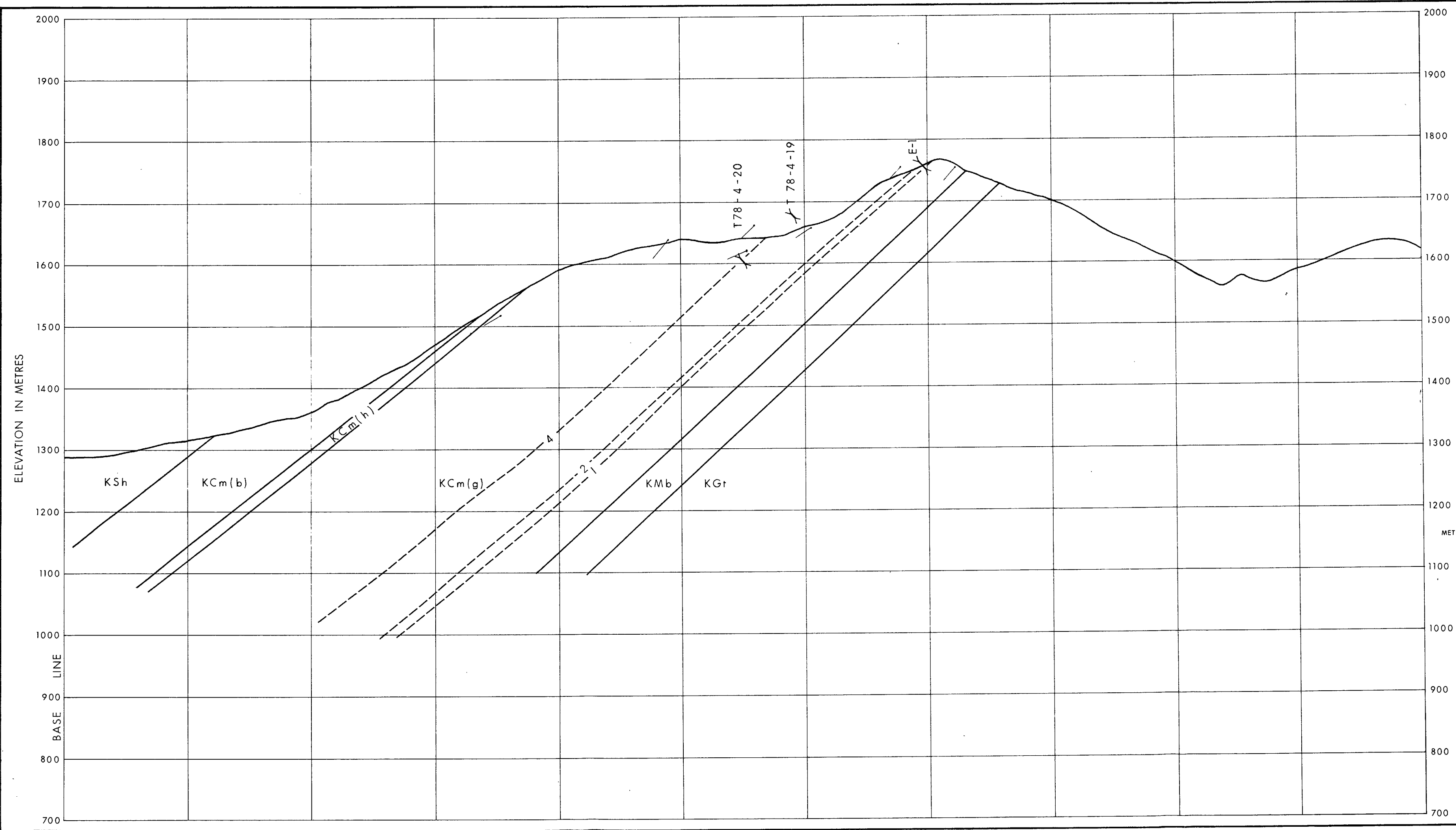
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2) A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7817		
DRAWN BY: R.Z.	DATE: Nov. 78	SCALE: 1:5 000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



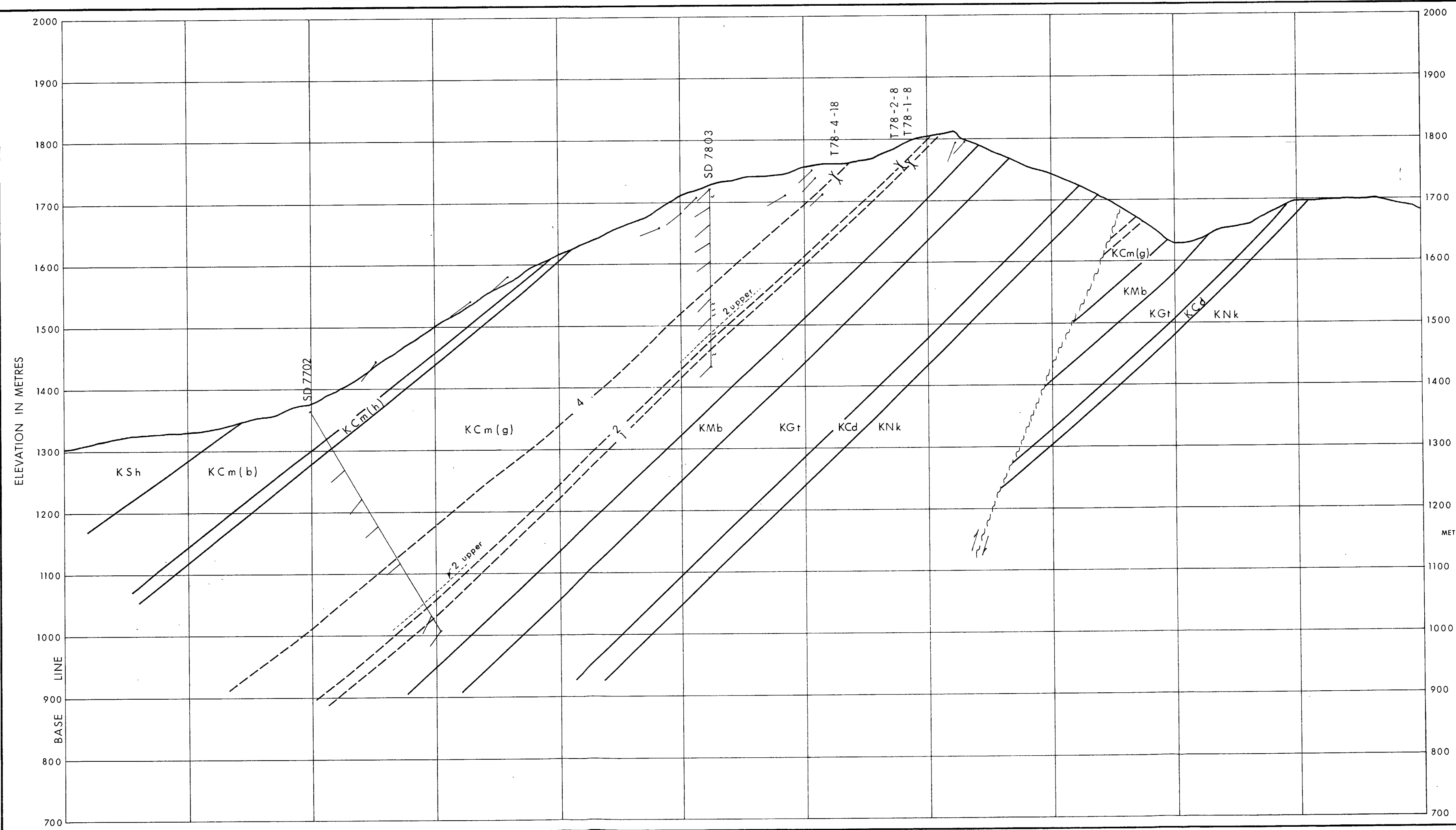
PR - SAXON 78(2)A.

SAXON COAL LIMITED

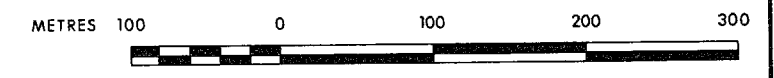
PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7816

DRAWN BY: E. J. T.	DATE: Oct. 78	SCALE: 1 : 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

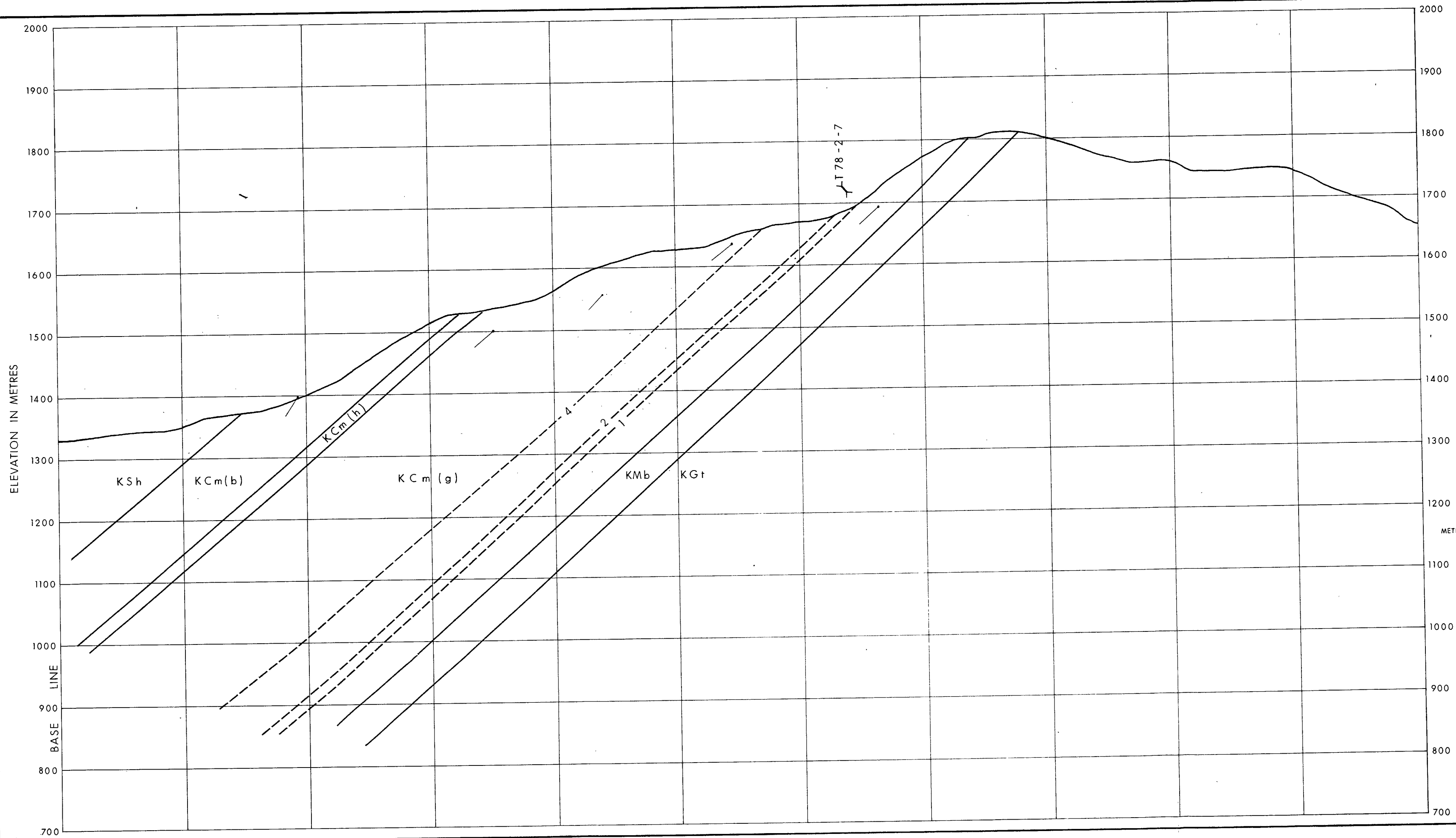
PR - SAXON 78 (2)A

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7815

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'R'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

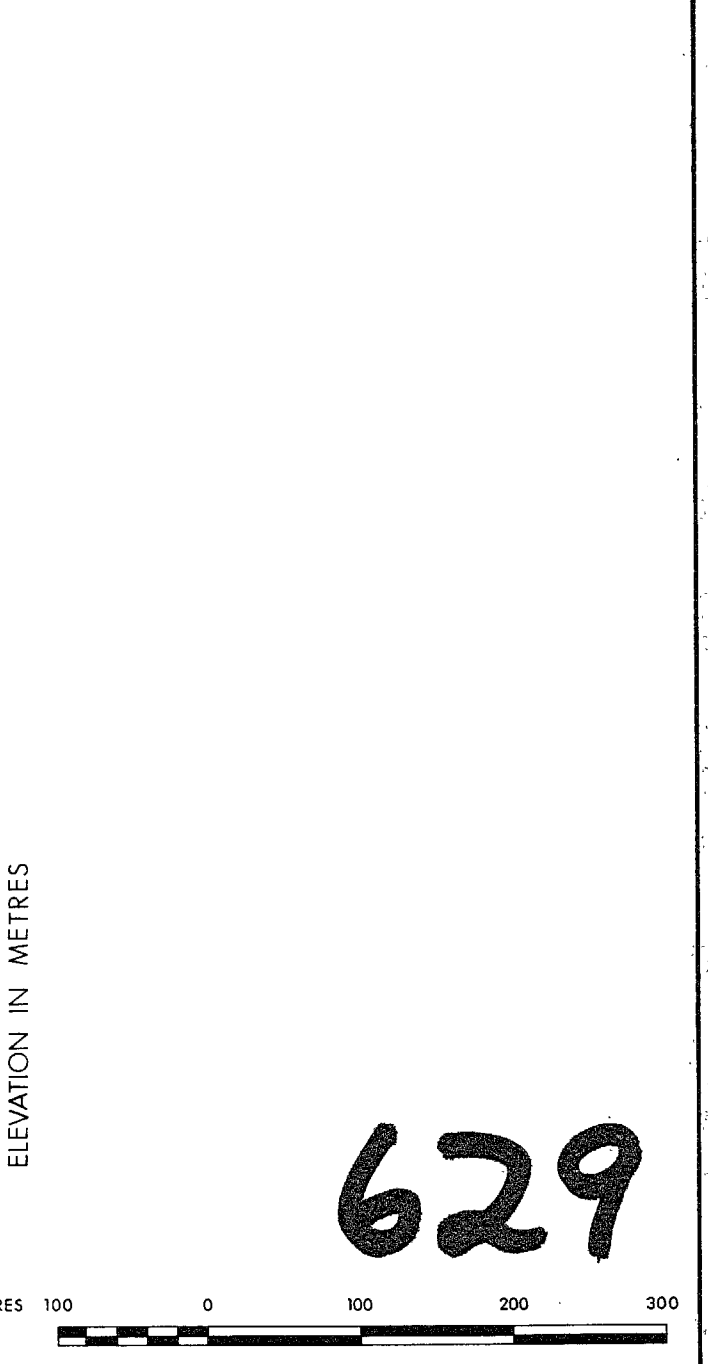
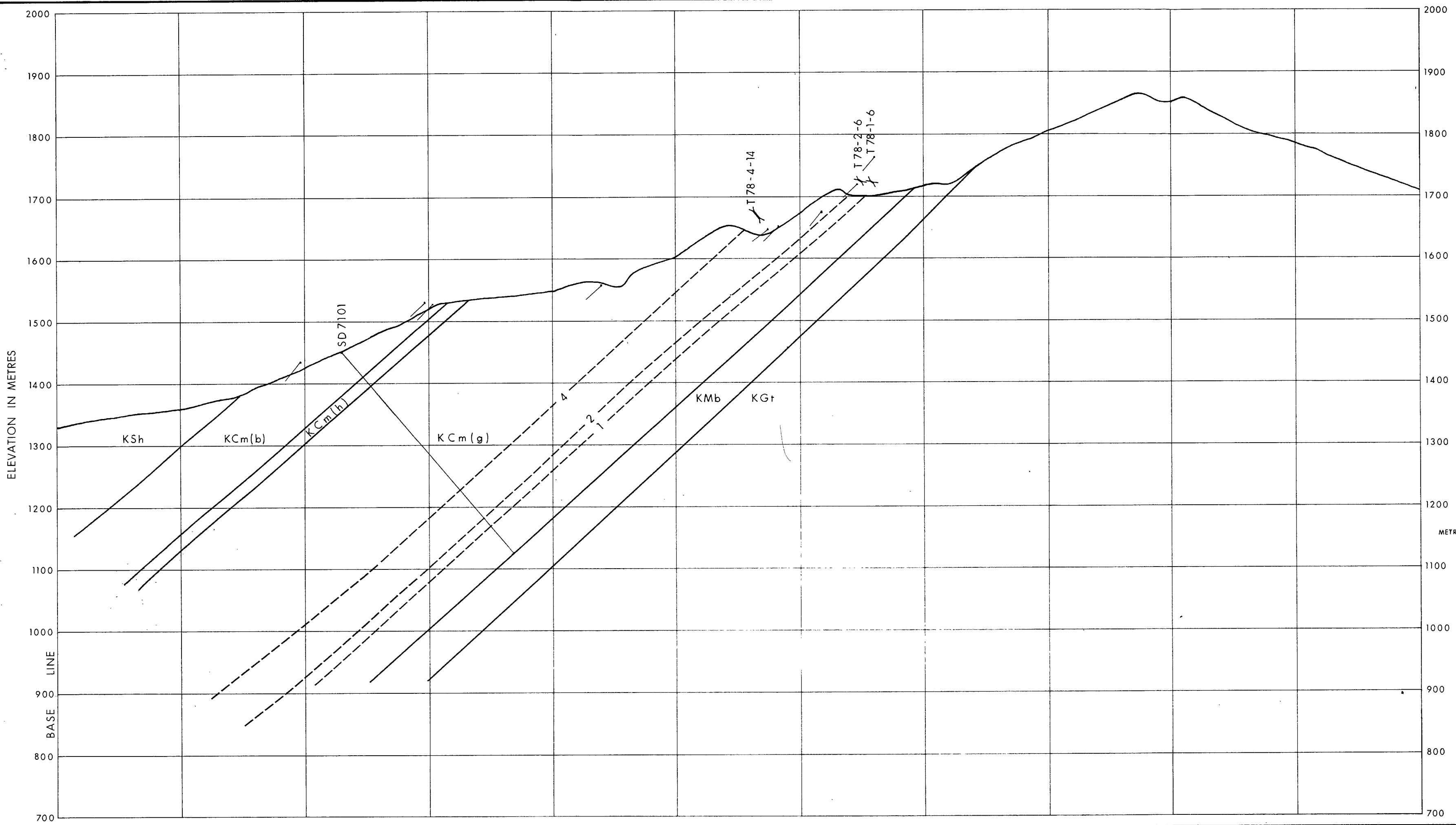
PR - SAXON 78 (2) A.

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7814

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2) A.

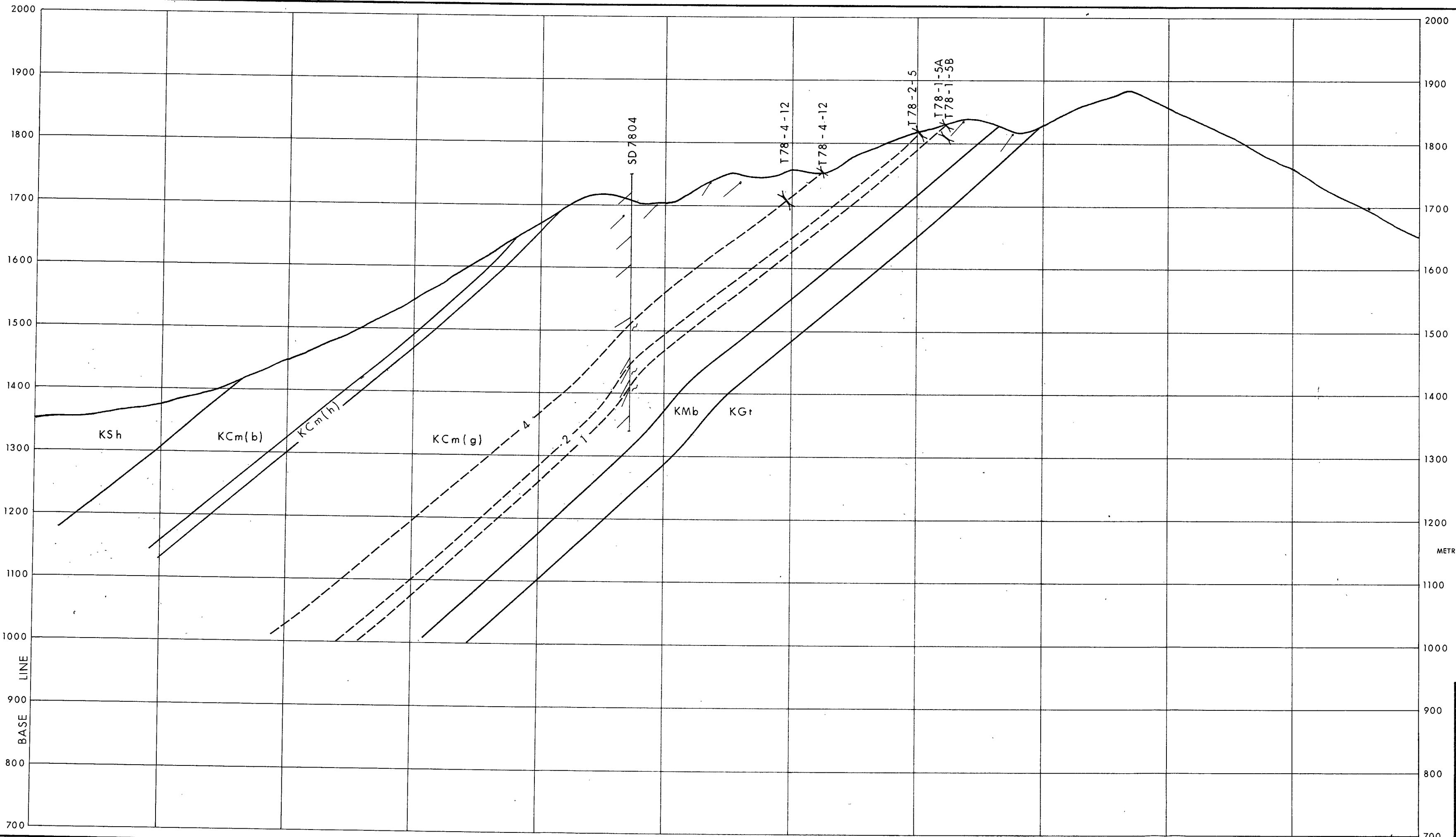
SAXON COAL LIMITED

PREPARED BY DENISON MINES LIMITED

SAXON EAST X7813

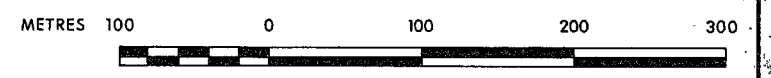
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PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03

ELEVATION IN METRES



ELEVATION IN METRES

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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

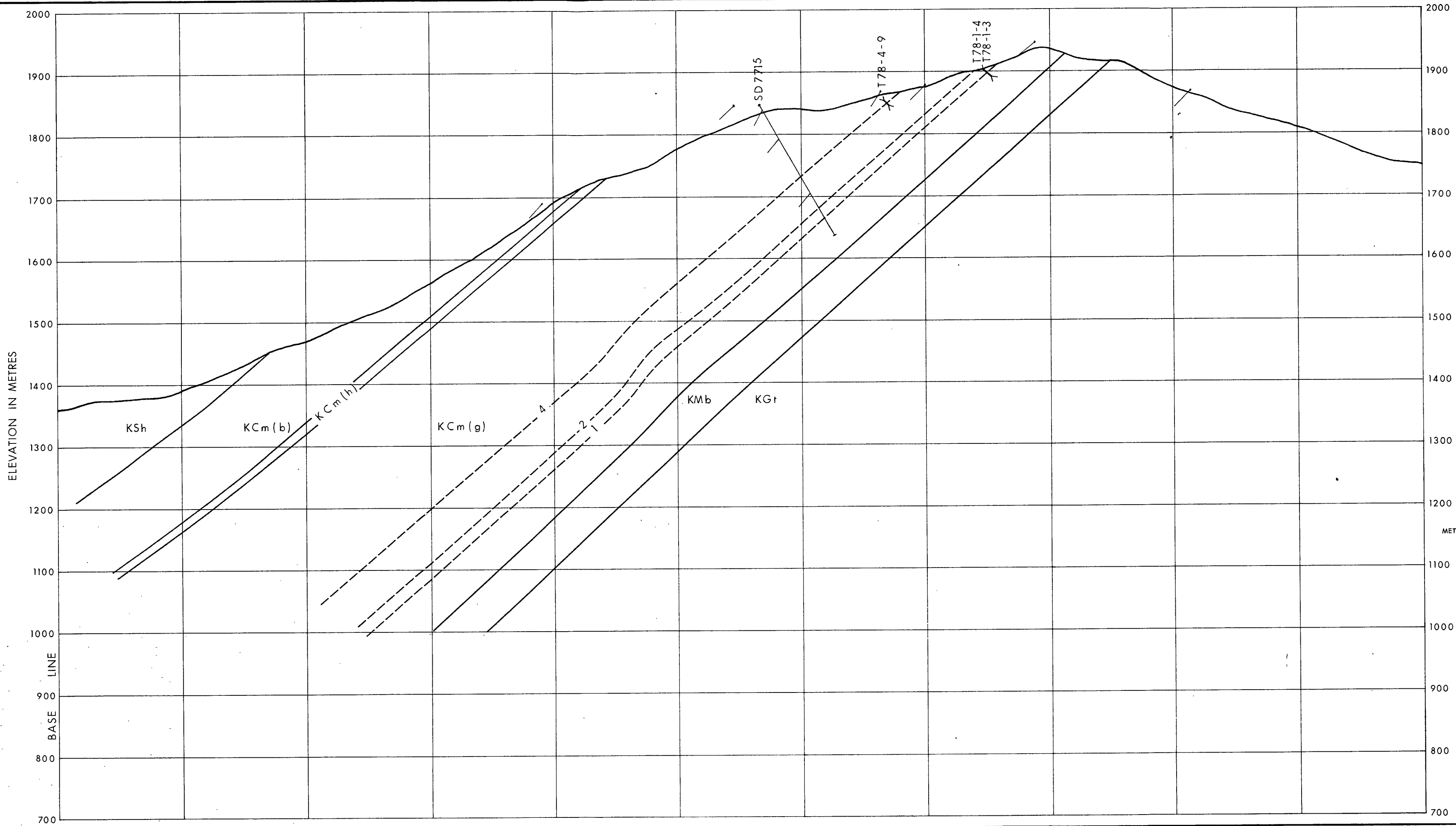
PR - SAXON 78 (2)A

SAXON COAL LIMITED

PREPARED BY:
DENISON MINES LIMITED

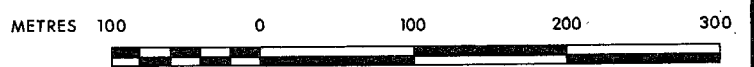
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APPR'D BY:	DATE:	SXON77-0750-R03



ELEVATION IN METRES

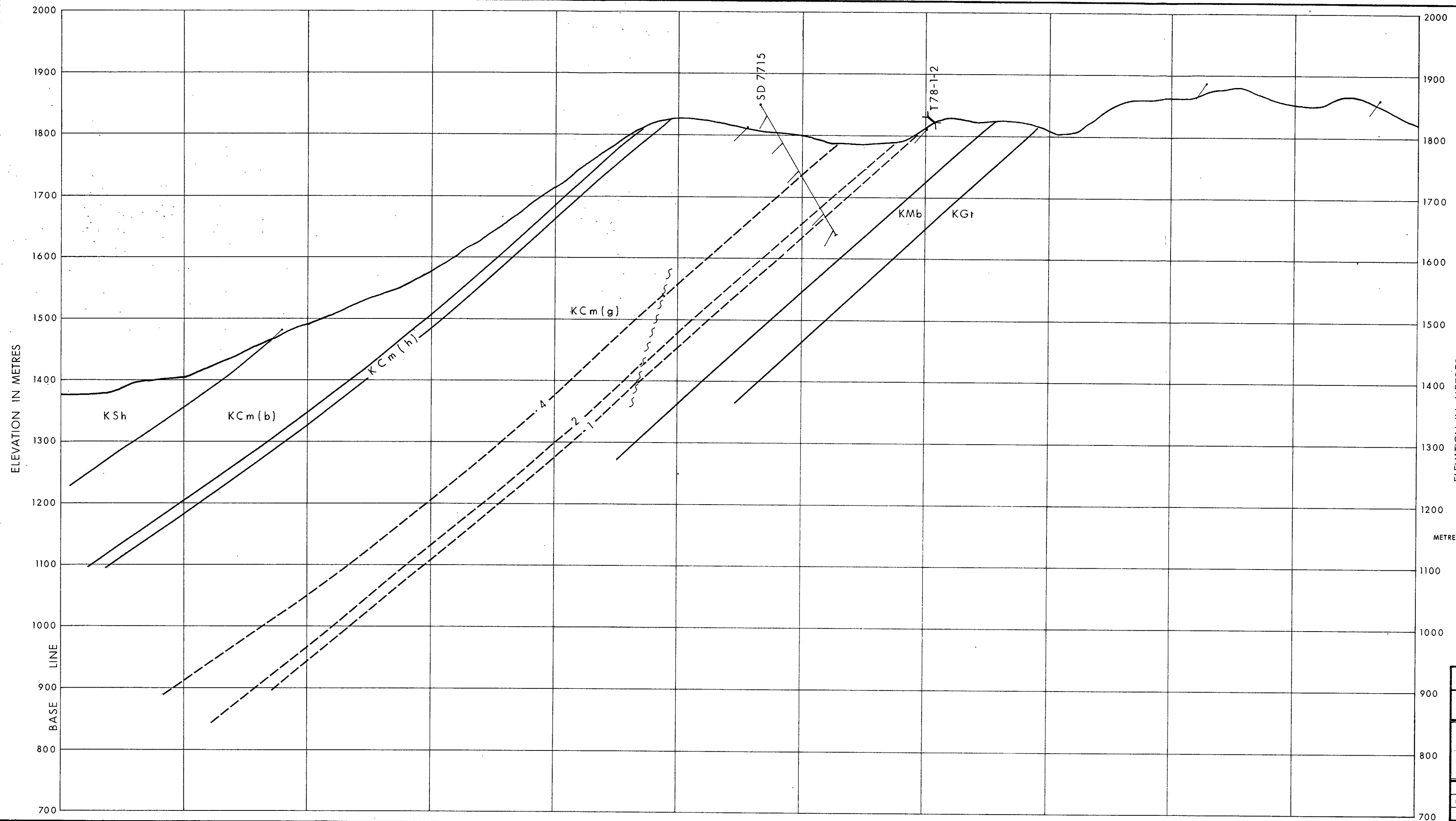
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78 (2) A.

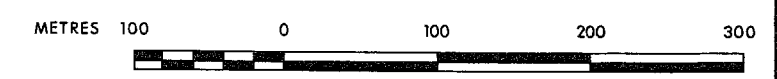
SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
SAXON EAST X7811		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



ELEVATION IN METRES

ELEVATION IN METRES

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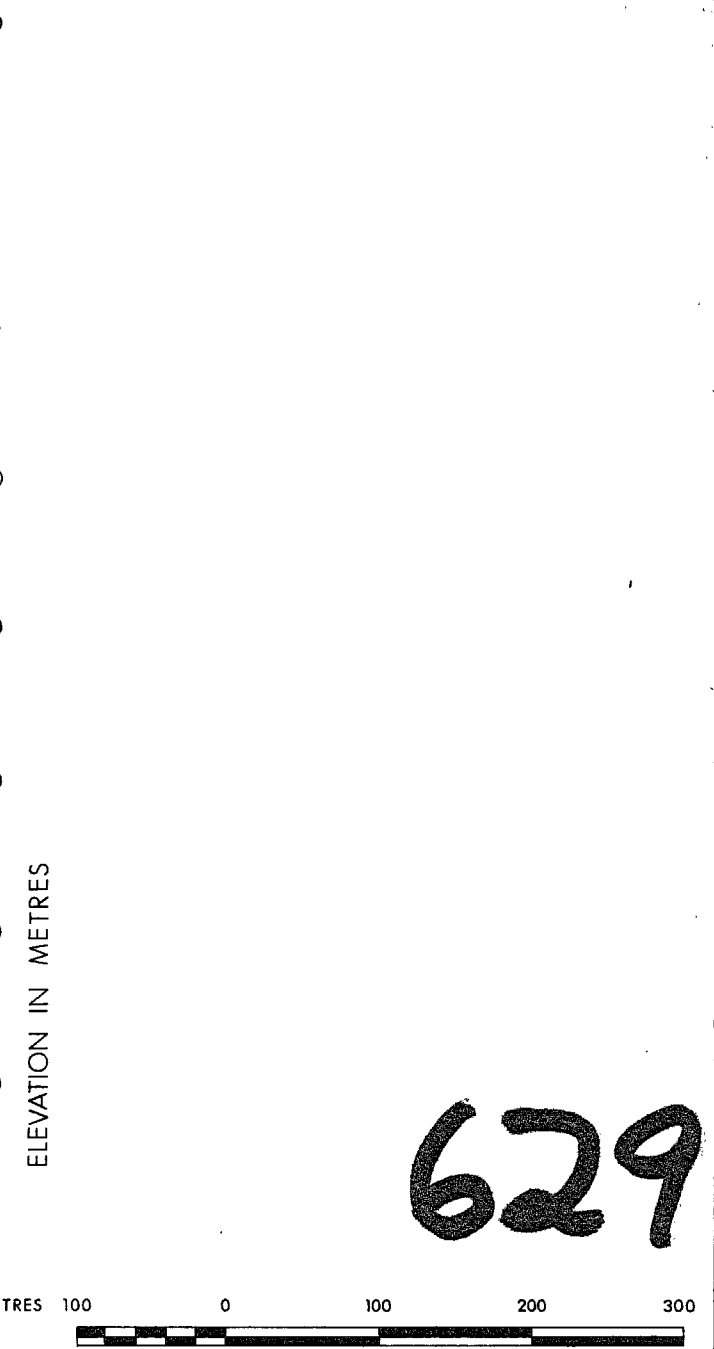
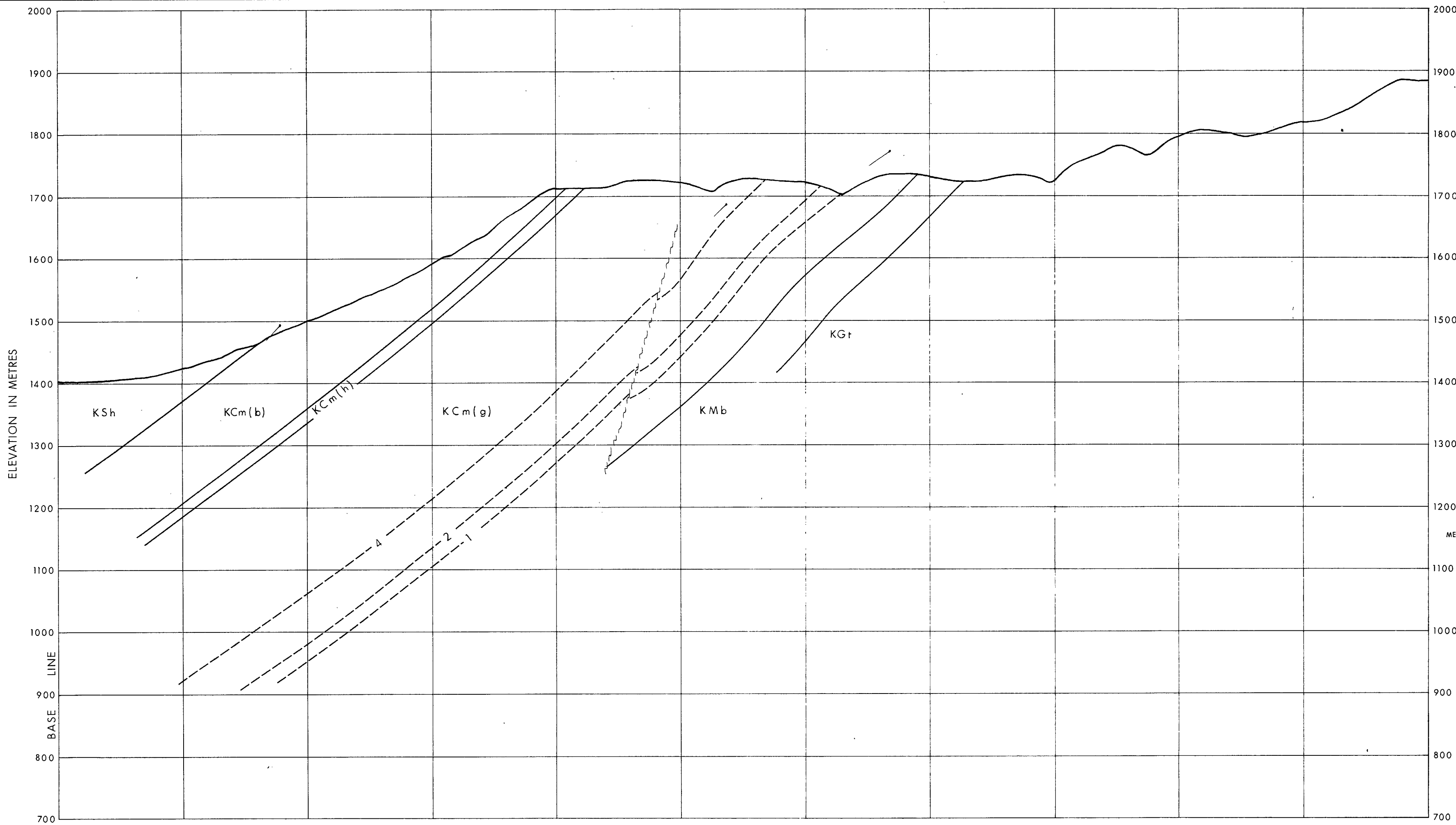
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78(2)A

SAXON COAL LIMITED
 PREPARED BY:
DENISON MINES LIMITED

SAXON EAST X7810

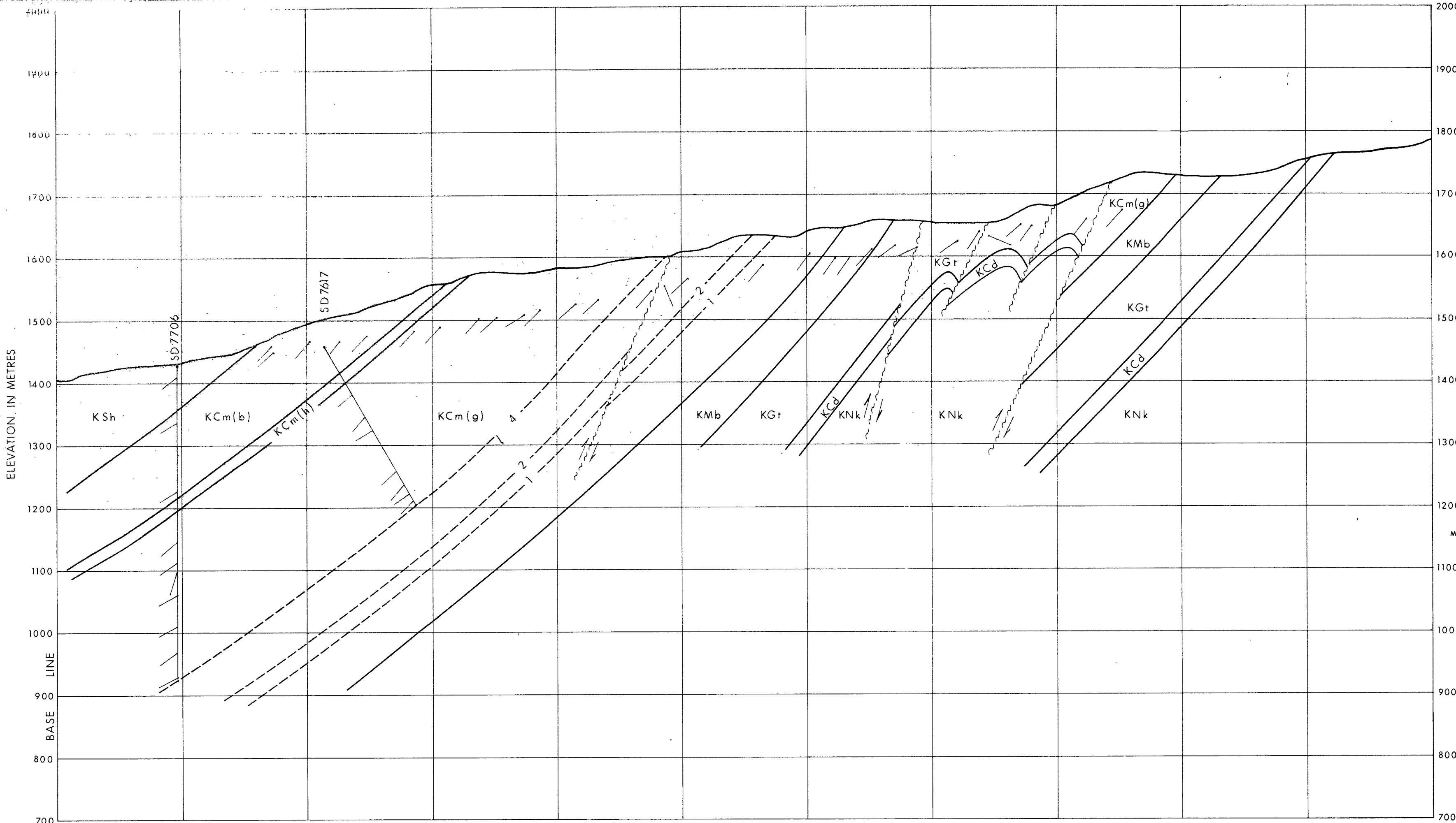
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PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



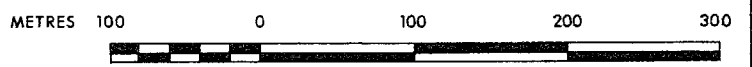
NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM.

Pr. SAXON 78 (2)A

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7809		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



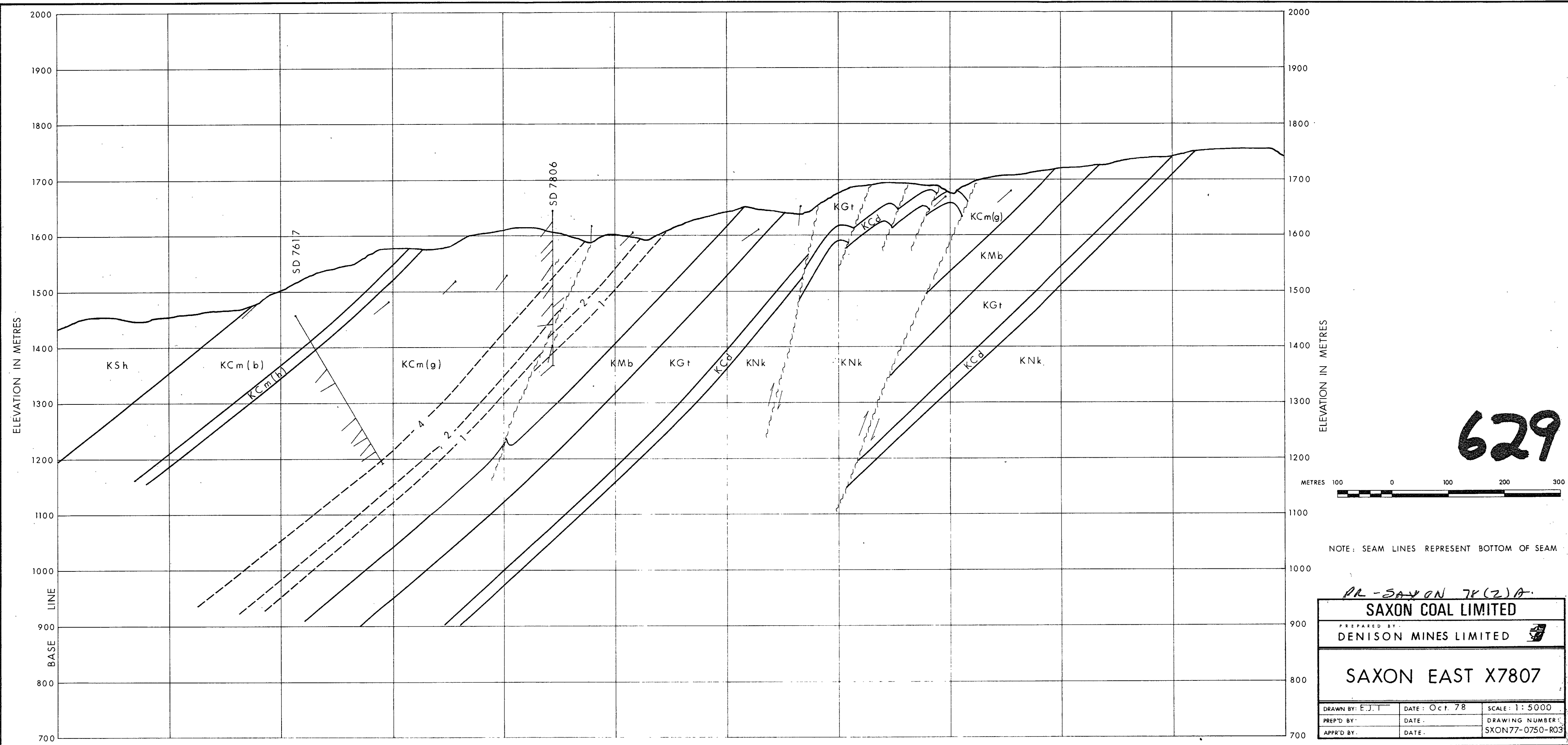
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 78(2)A.

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7808		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

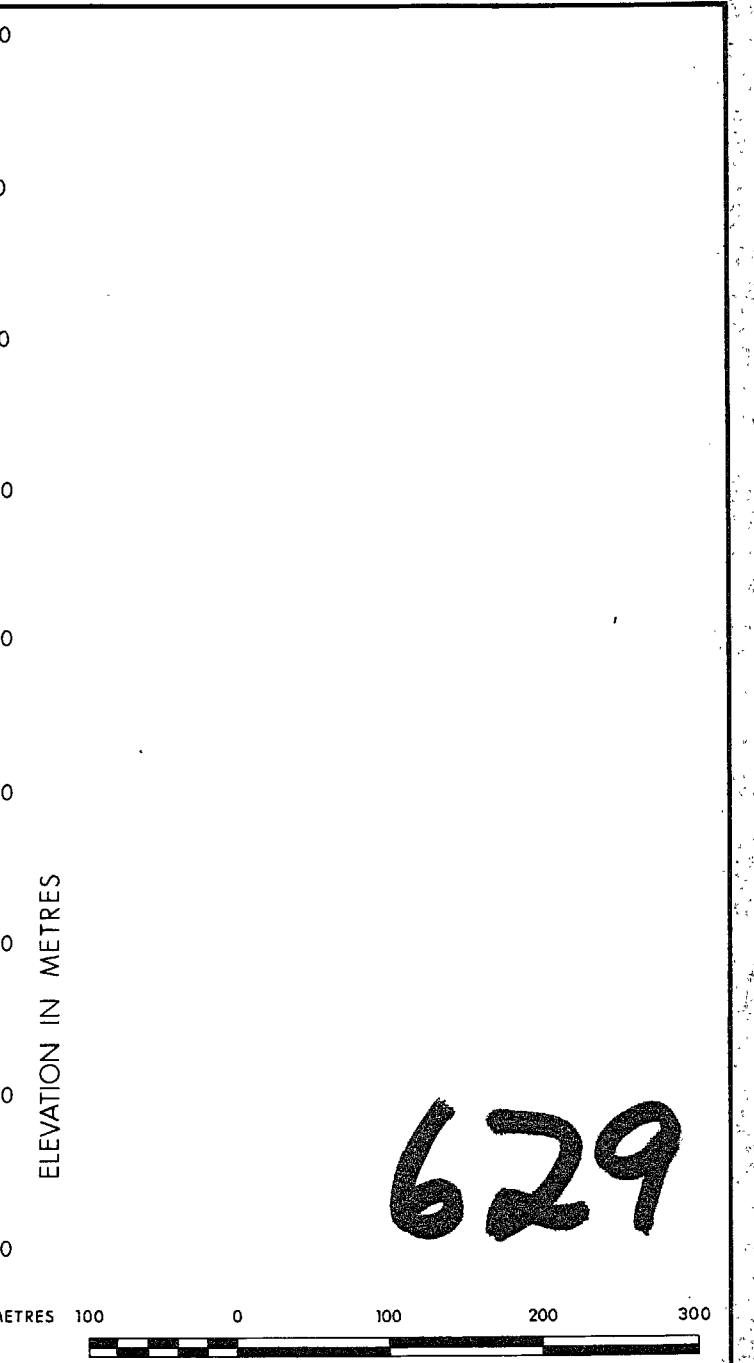
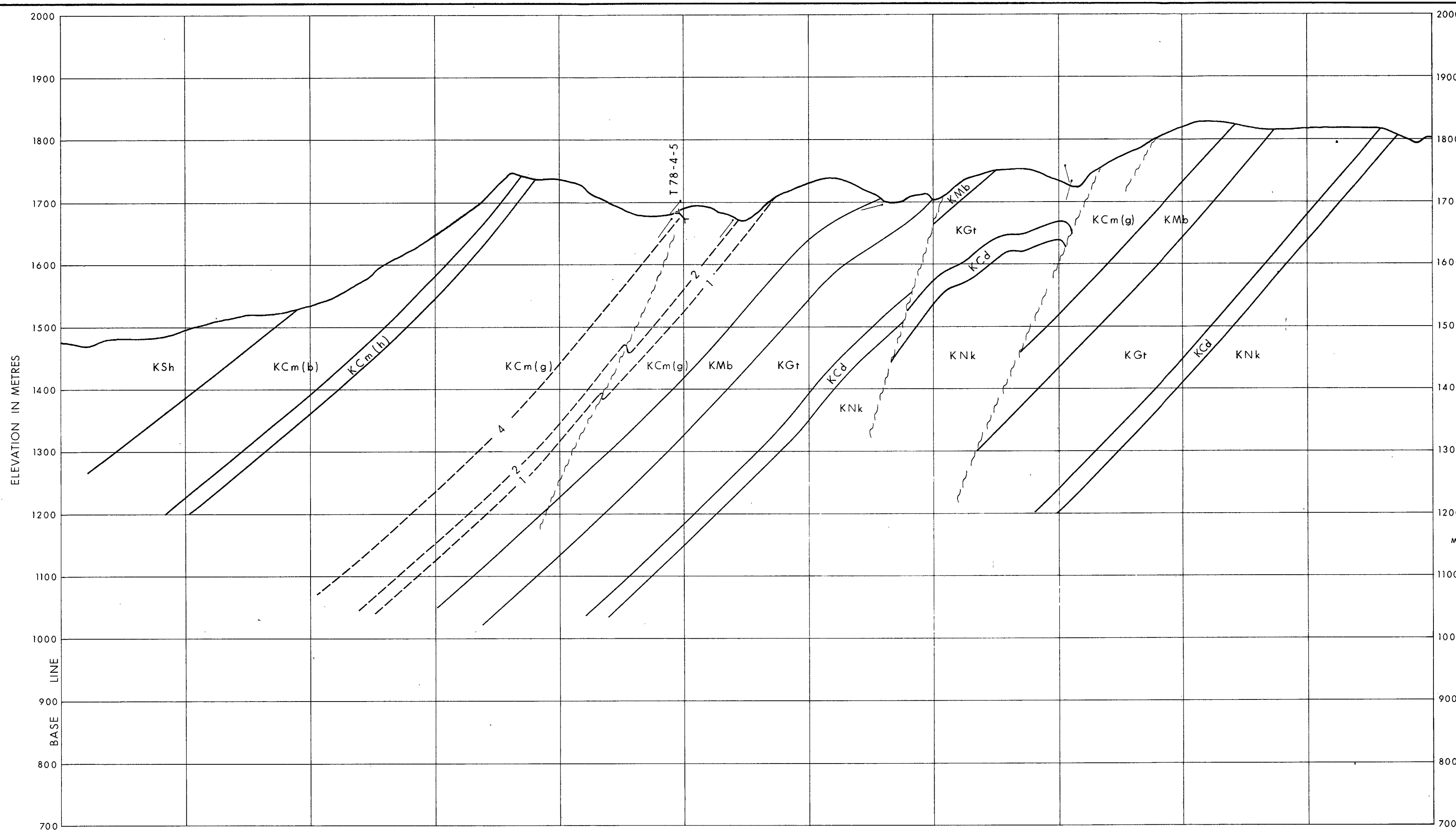
PR-SAXON 78(2)A

SAXON COAL LIMITED

PREPARED BY
DENISON MINES LIMITED

SAXON EAST X7807

DRAWN BY: E.J.T	DATE: Oct. 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

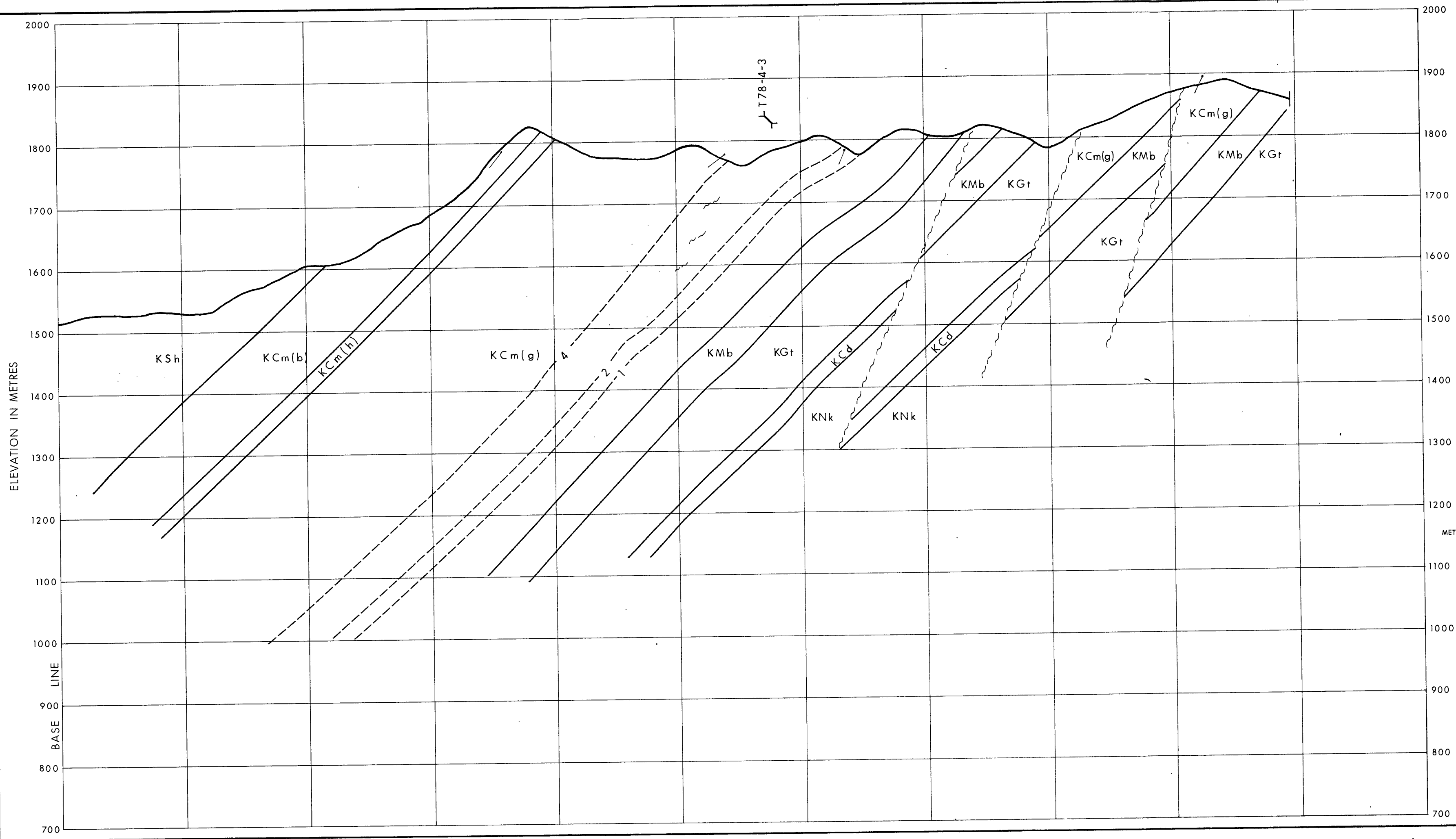
PR - SAXON 78(2)A

SAXON COAL LIMITED

PREP'D BY: DENISON MINES LIMITED

SAXON EAST X7806

DRAWN BY: E.J.T.	DATE: Oct 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03

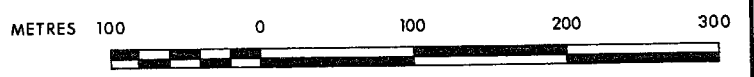


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ELEVATION IN METRES

ELEVATION IN METRES

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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

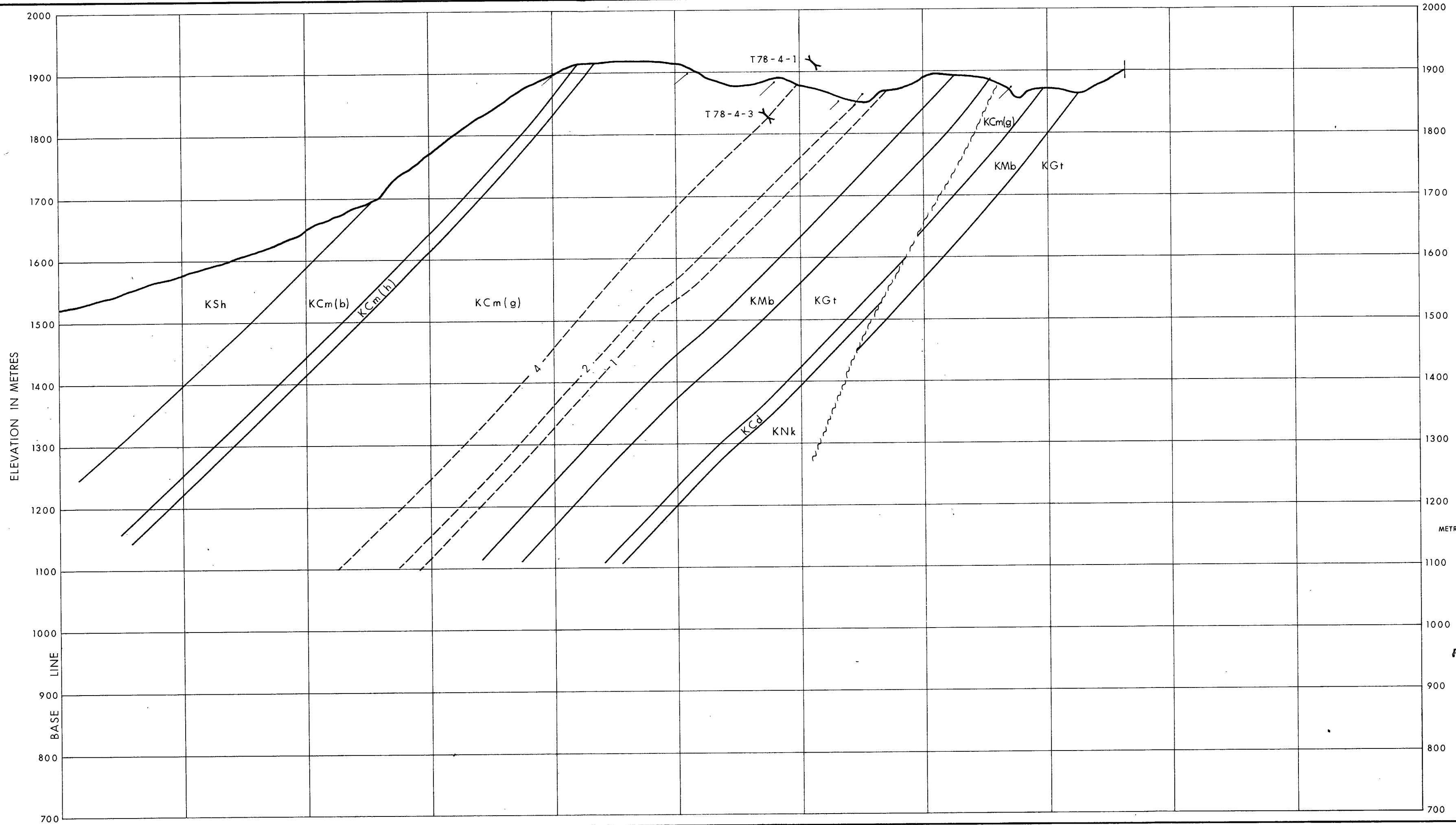
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SAXON COAL LIMITED

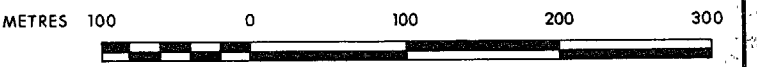
PREPARED BY:
DENISON MINES LIMITED

SAXON EAST X7805

DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1: 5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



ELEVATION IN METRES

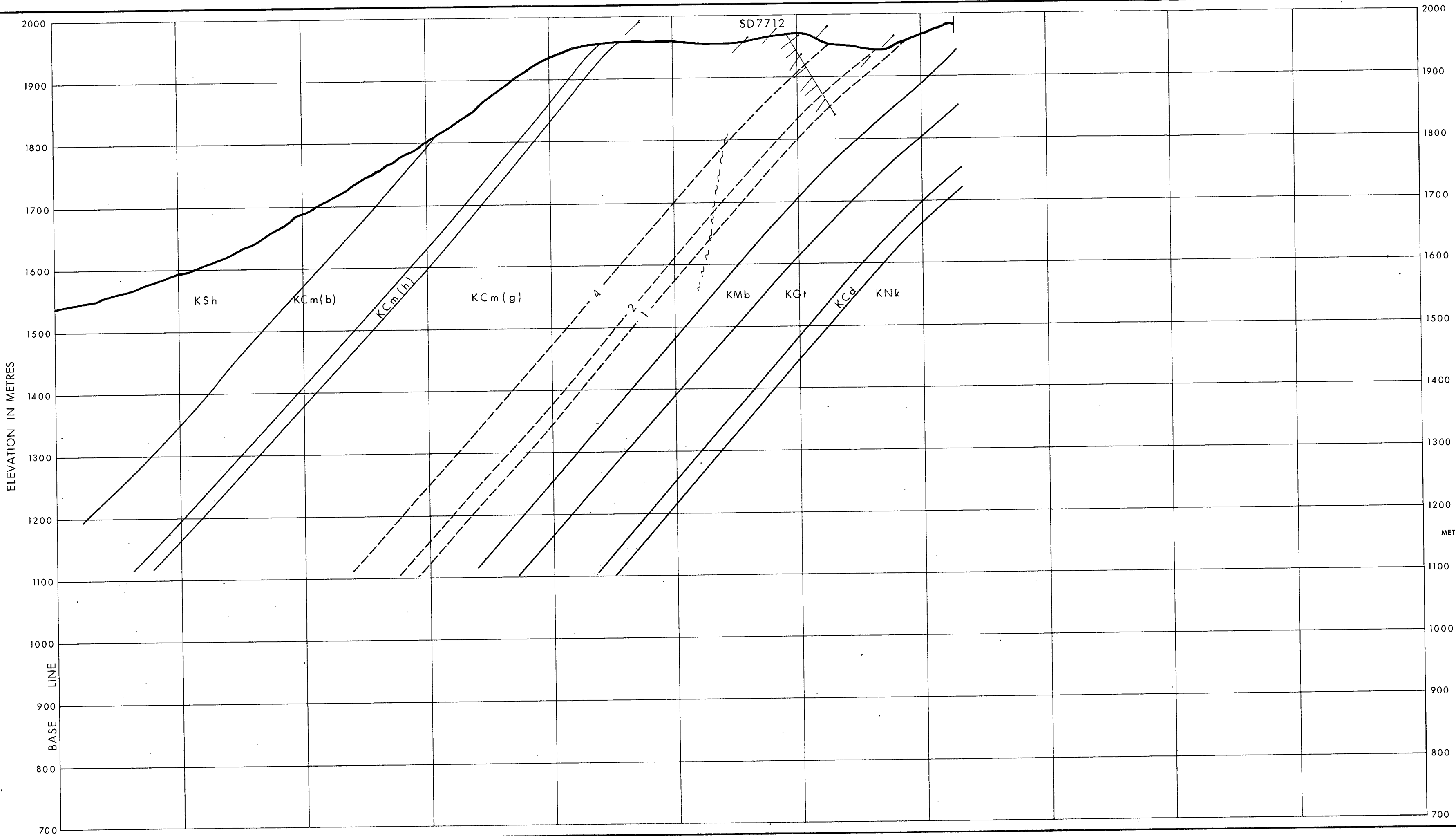


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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

RR. SAXON 78 (2)A.

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
SAXON EAST X7804		
DRAWN BY: E. J. T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



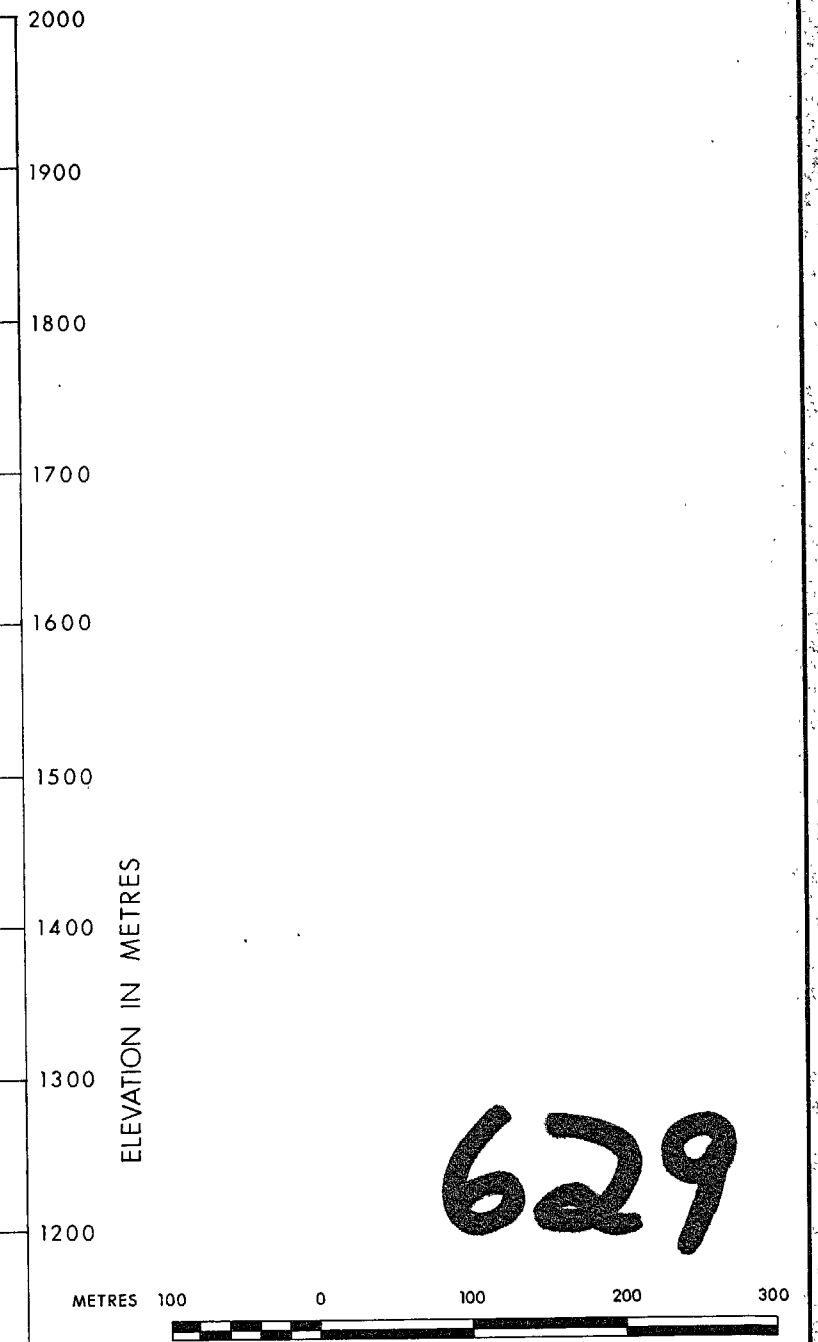
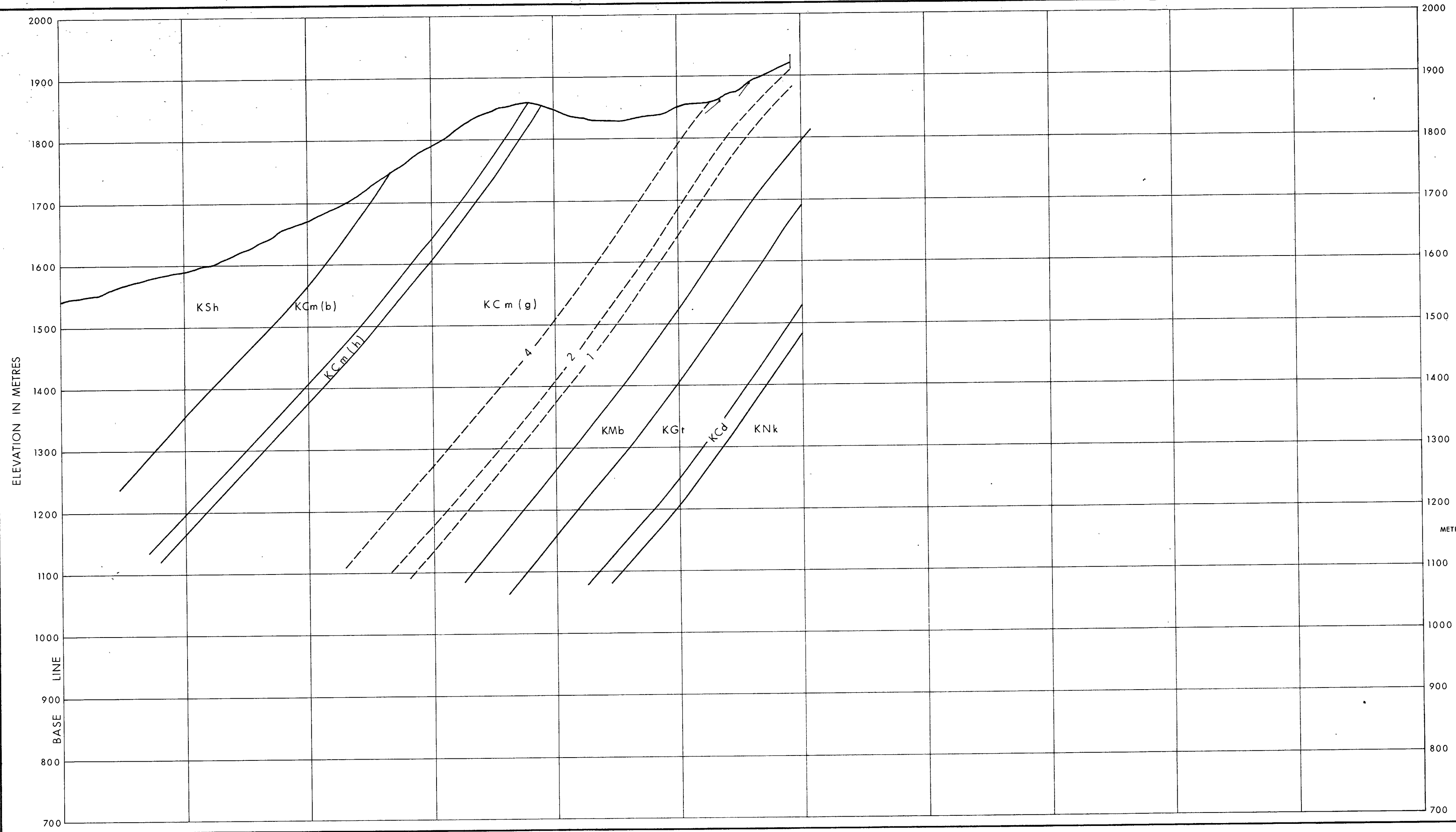
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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR-SAXON 78(2)A

SAXON COAL LIMITED		
PREPARED BY DENISON MINES LIMITED		
SAXON EAST X7803		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON 77-0750-R03



NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR - SAXON 78(2)A.

SAXON COAL LIMITED		
PREPARED BY: DENISON MINES LIMITED		
SAXON EAST X7802		
DRAWN BY: E.J.T.	DATE: Oct 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APP'D BY:	DATE:	SXON 77-0750-R03



78(2)A
VOL. 1

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NOTE: SEAM LINES REPRESENT BOTTOM OF SEAM

PR. SAXON 78(2)A.

SAXON COAL LIMITED		
PREP'D BY DENISON MINES LIMITED		
SAXON EAST X7801		
DRAWN BY: E.J.T.	DATE: Oct. 78	SCALE: 1:5000
PREP'D BY:	DATE:	DRAWING NUMBER:
APPR'D BY:	DATE:	SXON77-0750-R03



SAXON COAL LIMITED (1978)

VOLUME II - PART A

Appendix III - Descriptive logs

SD-7801 - SD 7804

OPEN FILE

GOLD COMMISSIONER
RECEIVED and RECORDED

JAN 12 1979

M.R. #

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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