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K-FERNIE COAL AREA 61(2)A South East B.C.

DRAWINGS ATTACHED TO
FERNIE COAL MINE SURVEY
REPORT

(Copy 2)

MITSUI MINING CO. LTD. March 1970

~~LG 7-2~~

K-FERNIE COAL AREA 68(2)A

DRAWINGS ATTACHED TO

FERNIE COAL MINE

SURVEY REPORT

MARCH, 1970

MITSUI MINING CO., LTD.

DEVELOPMENT DEPT.

LIST OF DRAWINGS

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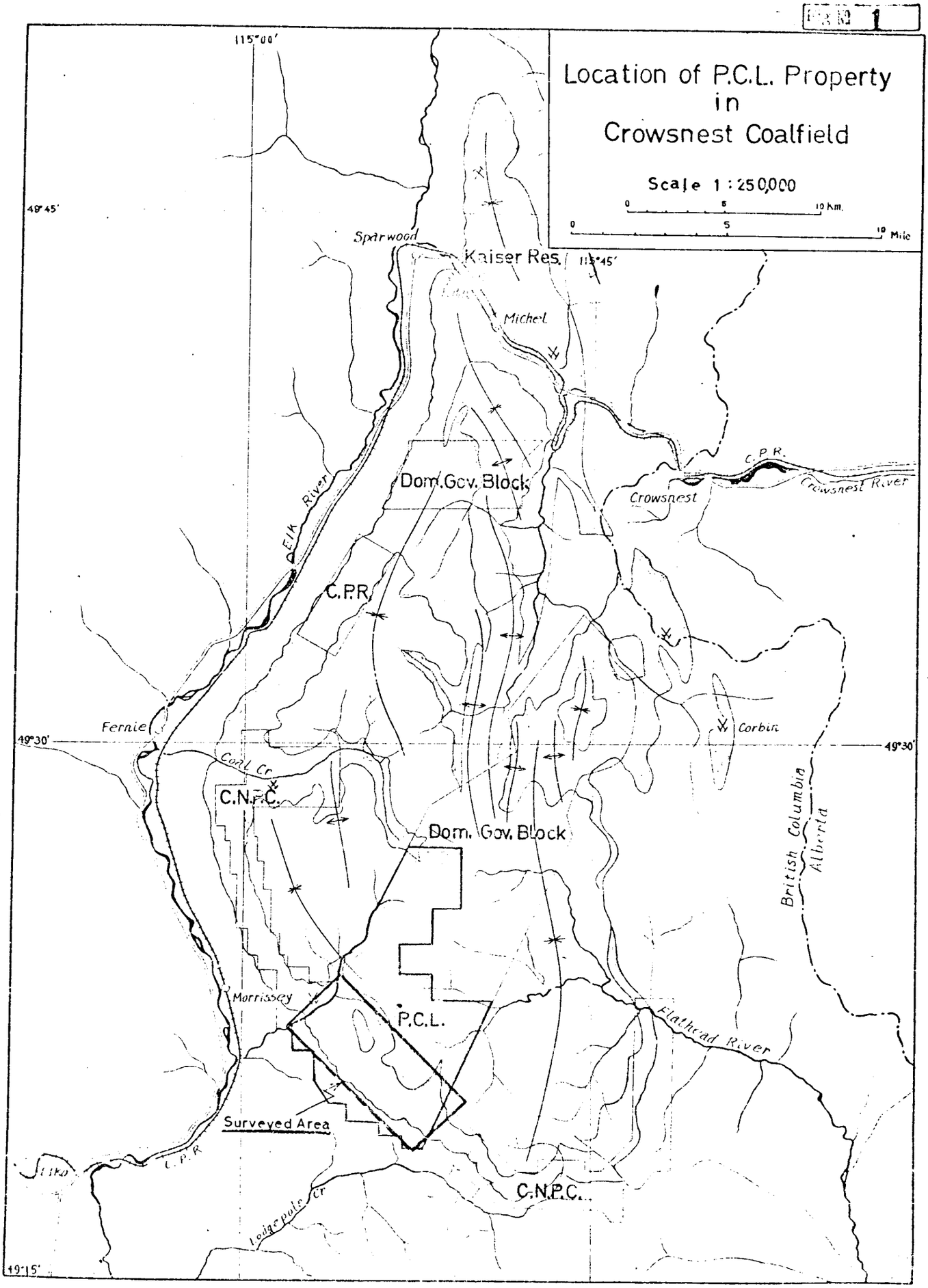

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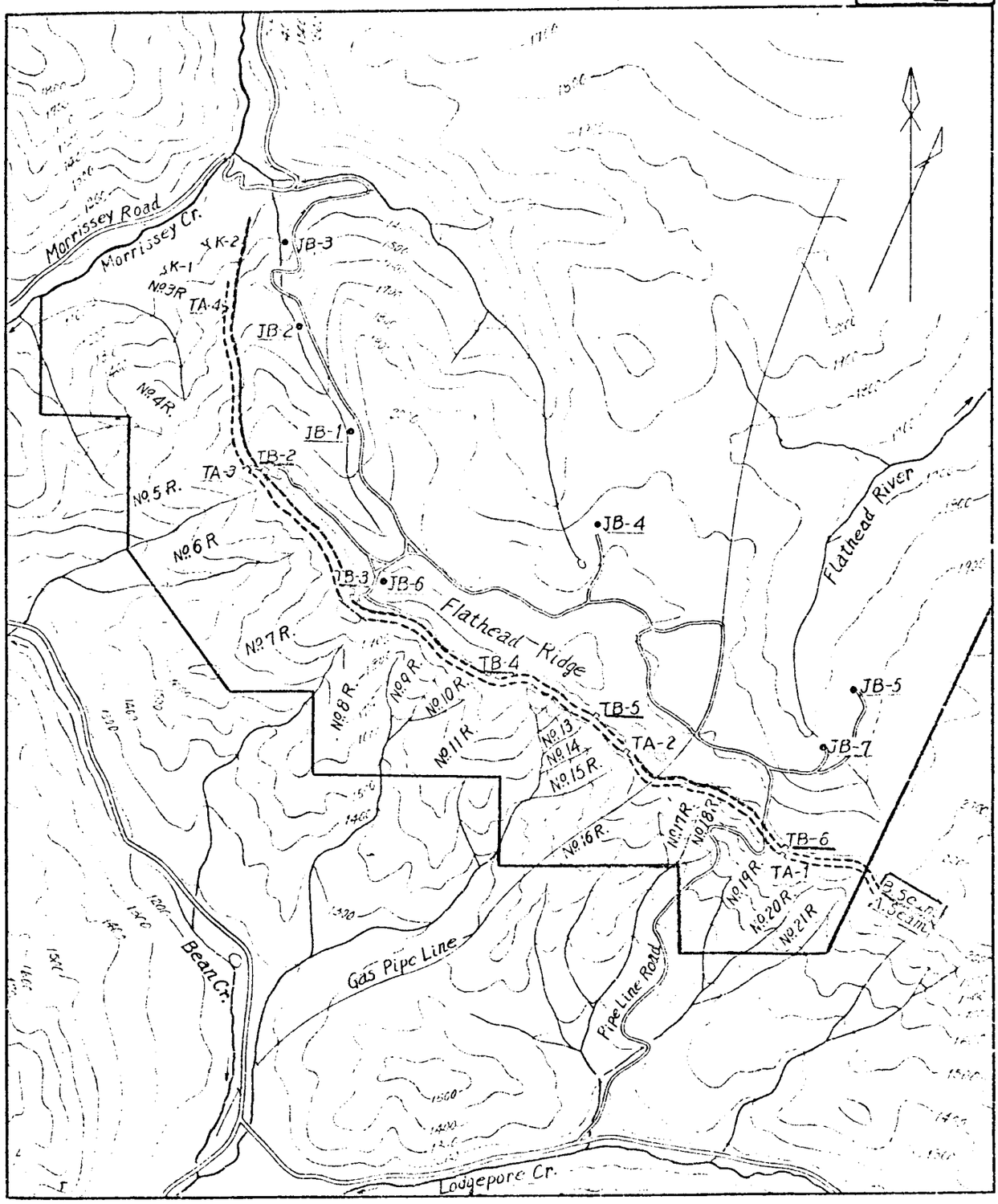
Topographic & Geographic Map of the Suveyed Area

Scale 1 : 50,000

Fig. № 2



SCALE 1:50,000

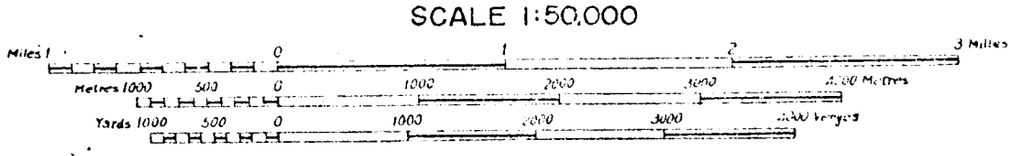


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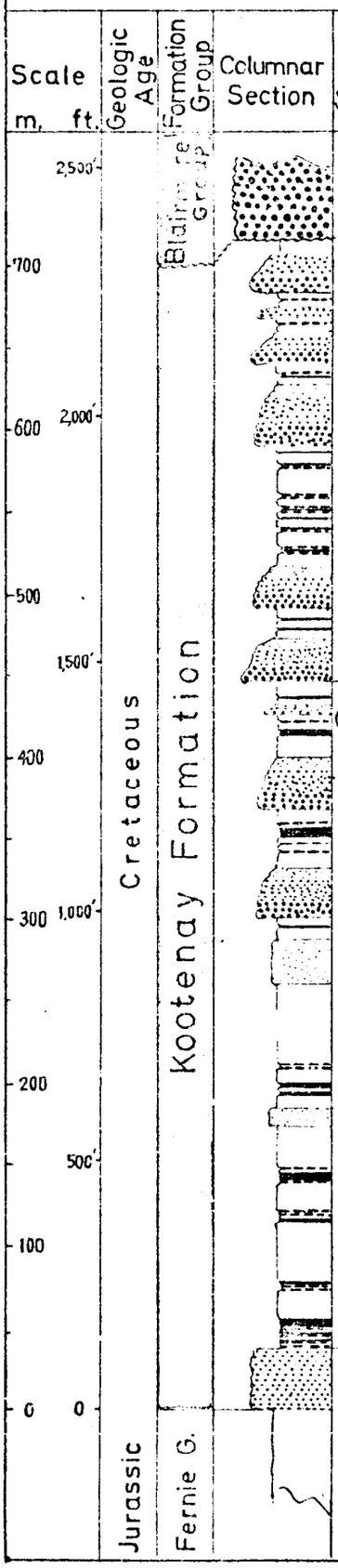
Fig. № 3

Compiled Standard Geologic Columnar Section



Lithologic Character	Remark
Conglomerate & conglomeratic sediments	
	Erosion unconformity
Upper Member Alternation of conglomerate, sandstone, shale, and inferior coal seams. Grading cyclothems are prominent.	Member thickness varies between 280 and 300m, increases toward northwestern side.
Main Coal Bearing Member Alternation of sandstone, shale, and rather persistent workable coal seams. Grading cyclothems are prominent.	Member thickness varies between 120 and 220m, increases toward northwestern side.
Lower Member Shale rich argiraceous sediments intercalating 2 to 5 thick coal seams with numeros thin partings.	Member thickness varies between 190 and 280m.
Lowermost Member Persistert ridge making sandstone.	
	Conformity
Homogenous gray shale.	

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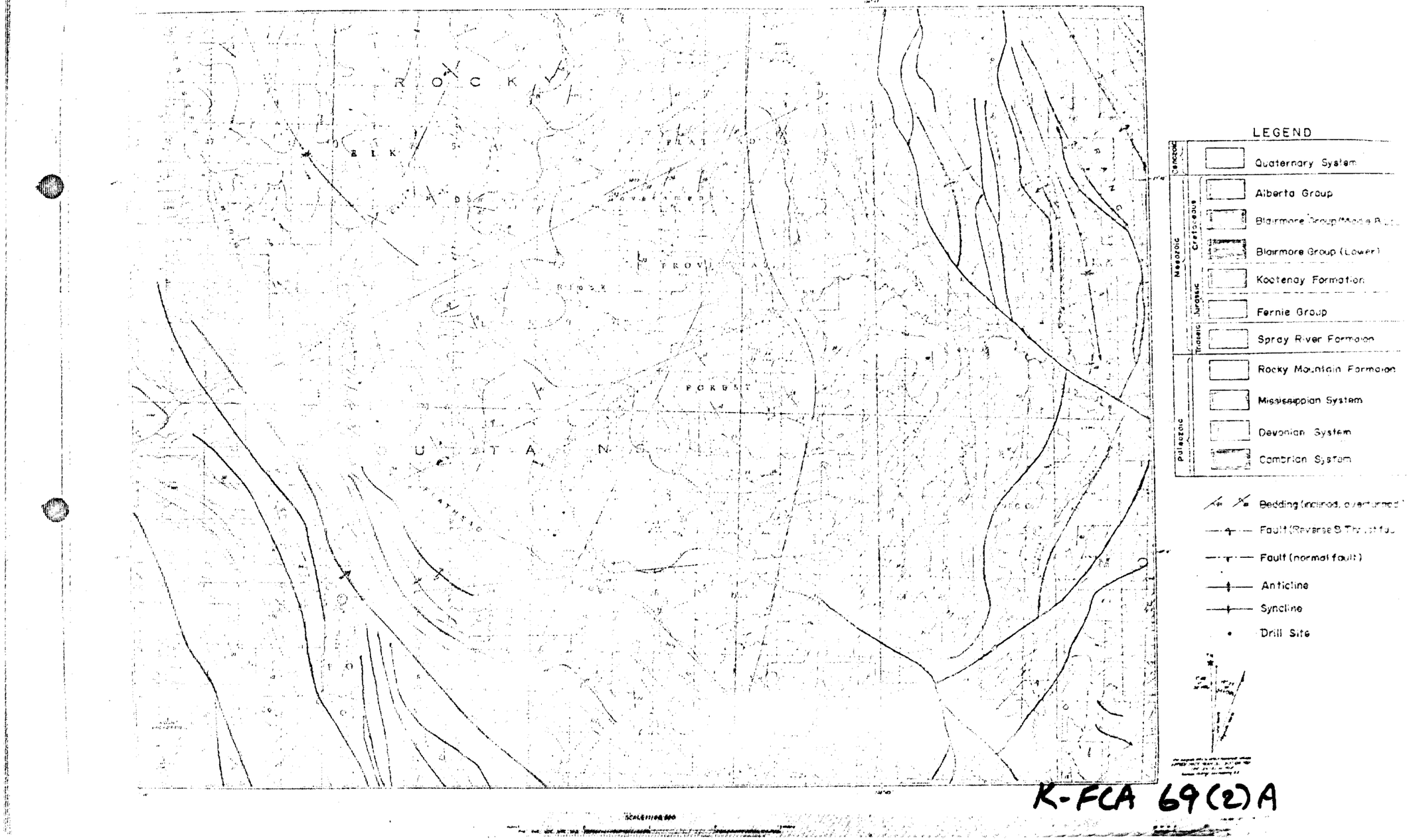
Correlated Columnar Sections of Kootenay Formation

Fig. No. 1

Scale 1:3,000


ROCKY
MOUNTAINS
FOOTHILLS
PLAINS
FOREST
RESERVE
ELK
LEGEND
Cenozoic
Quaternary System
Mesozoic
Cretaceous
Alberta Group
Blairmore Group (Middle & U...
Blairmore Group (Lower)
Jurassic
Kootenay Formation
Fernie Group
Triassic
Spray River Formation
Rocky Mountain Formation
Paleozoic
Mississippian System
Devonian System
Cambrian System
Bedding (inclined, overturned)
Fault (Reverse & Thrust fau...
Fault (normal fault)
Anticline
Syncline
Drill Site

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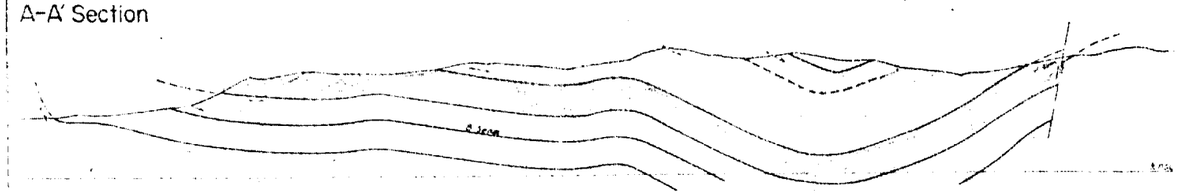
Geologic Cross Sections

Scale 1:100,000 H:V=1:1

A-A' Section



B-B' Section

C-C' Section

Alberta G. | Blairmore G. (Up. & Mid.) | Blairmore G. (Low.) | Kootenay F. | Fernie G.

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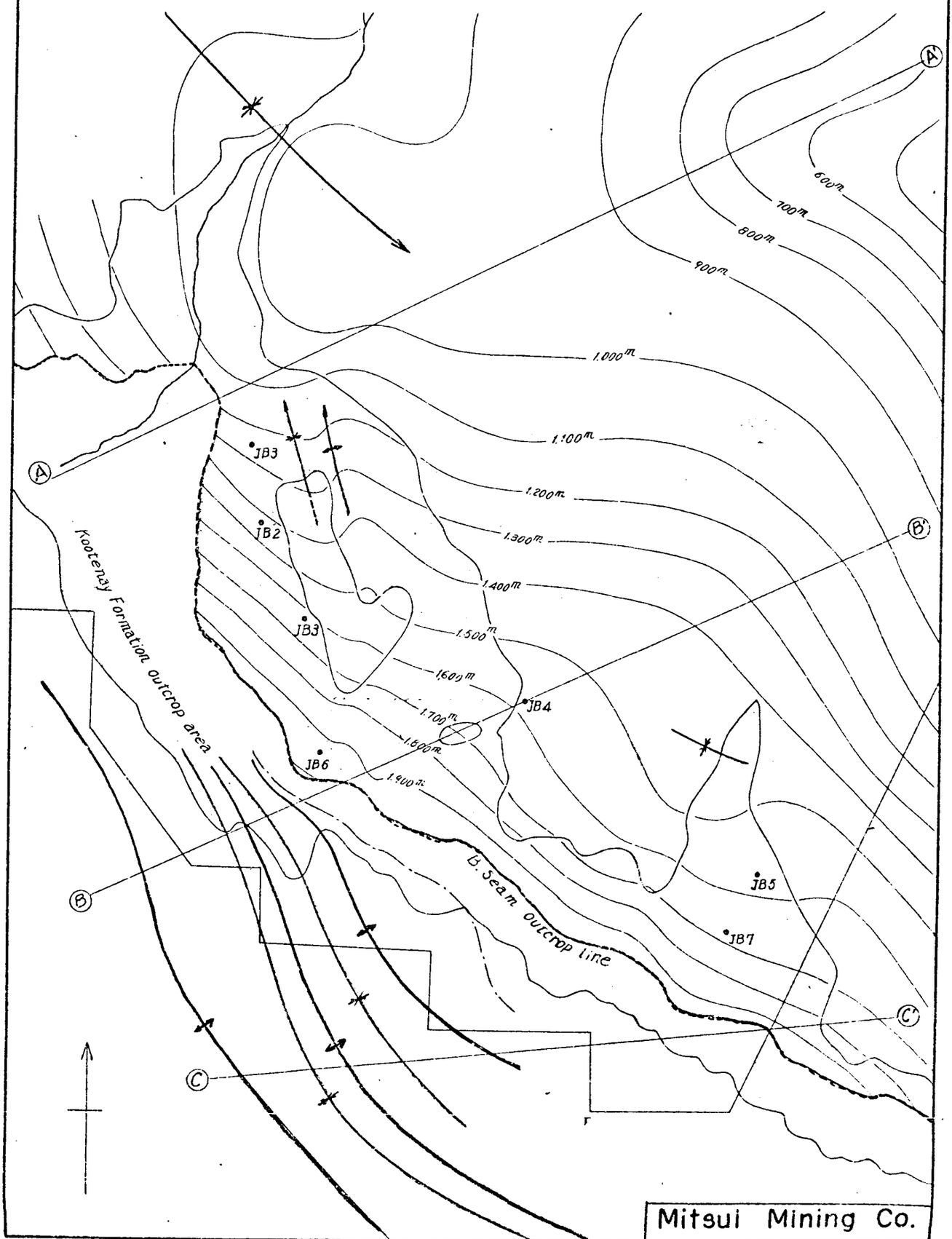
Fig. No. 6

Tentatively Estimated Seam Contour of B-Seam

Scale 1 : 50,000



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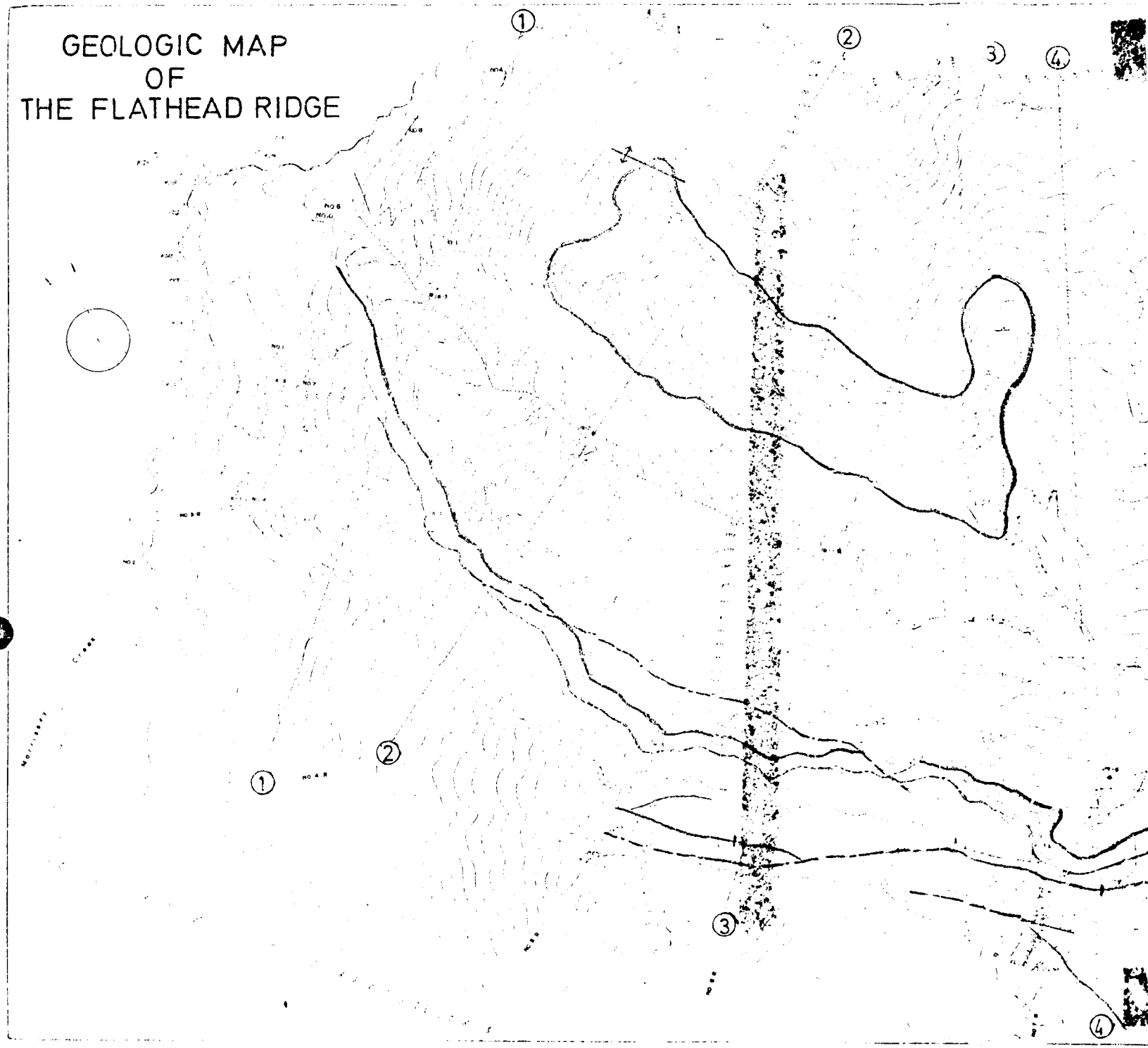
GEOLOGIC MAP
OF
THE FLATHEAD RIDGE
①
②
③
④

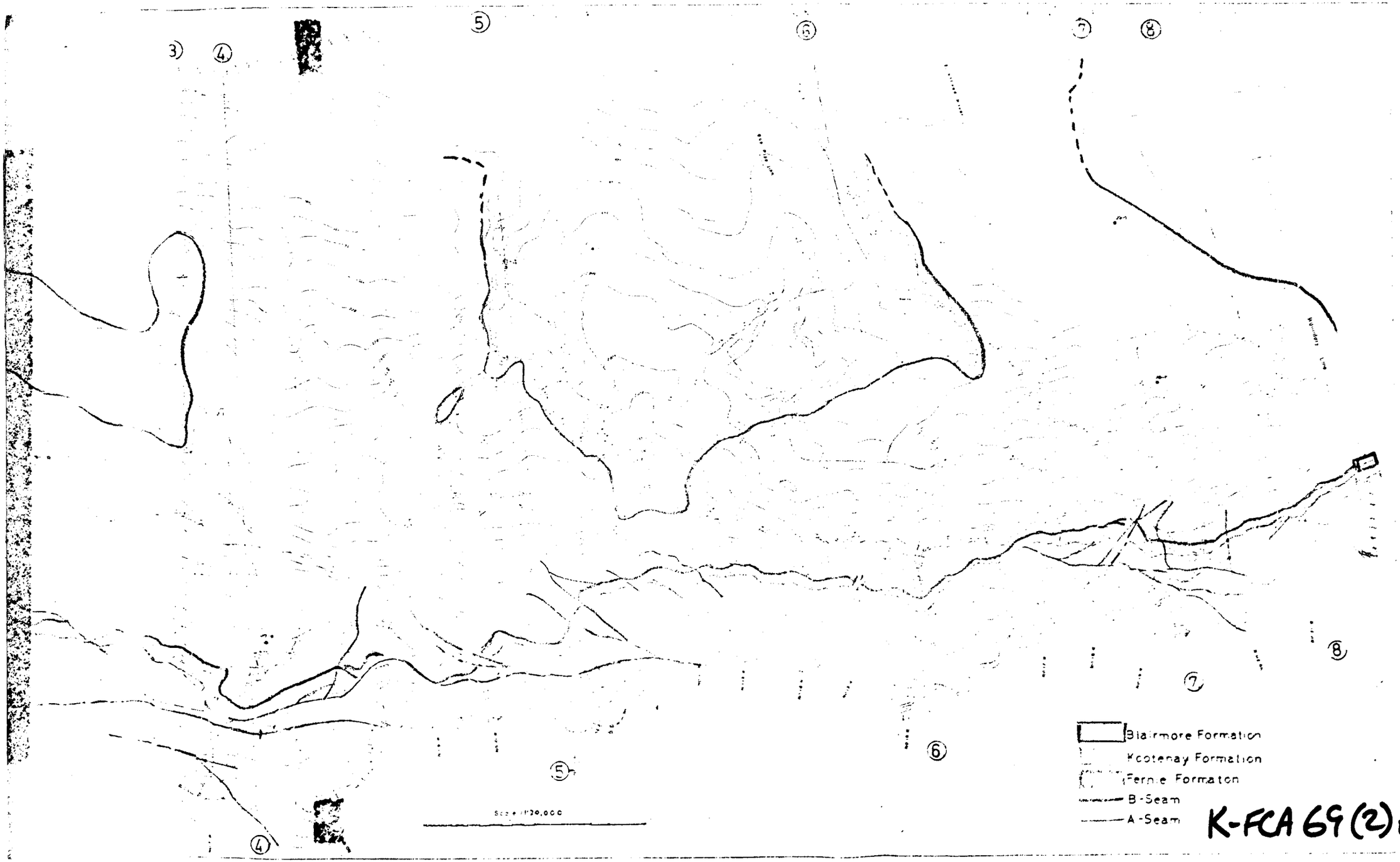
3
4
5
6
7
8
Blairmore Formation
Kootenay Formation
Fernie Formaton
B-Seam
A-Seam

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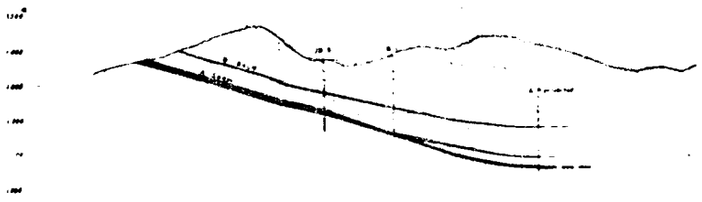
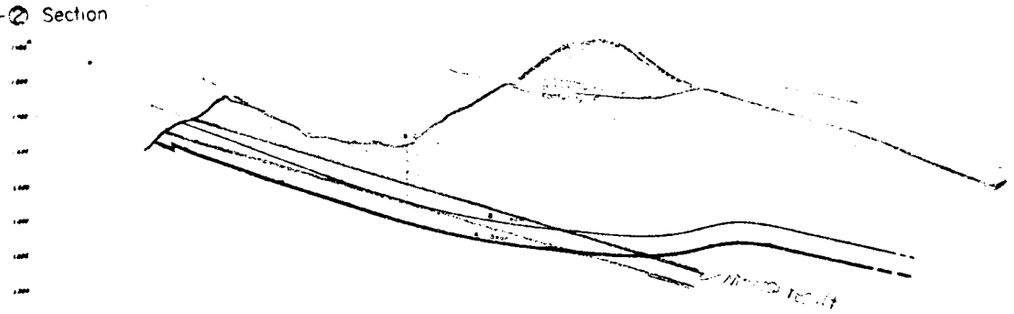
Fig. 3

Geologic Cross Sections

Scale 1:20,000 H. V = 1:1



②–② Section



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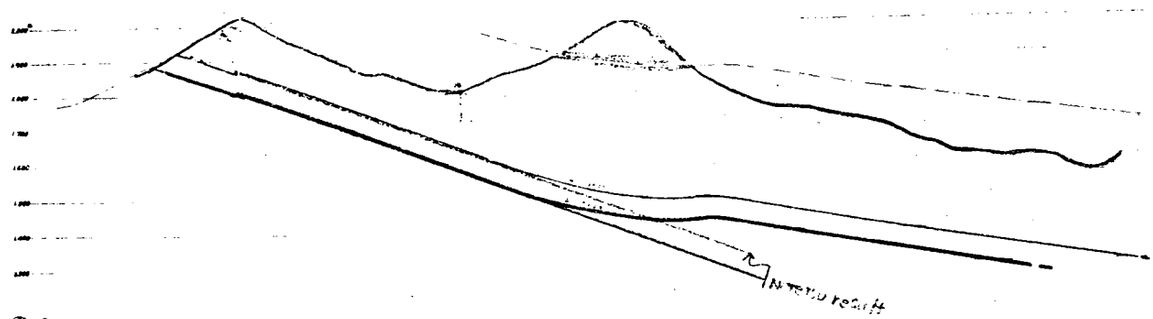

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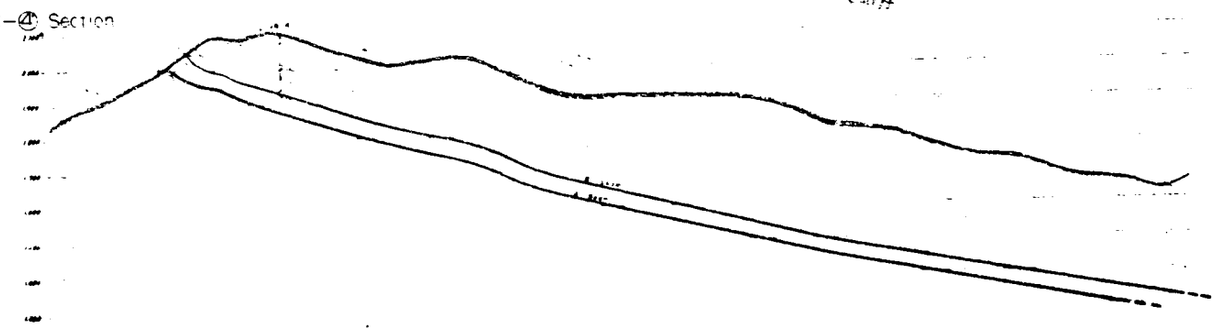

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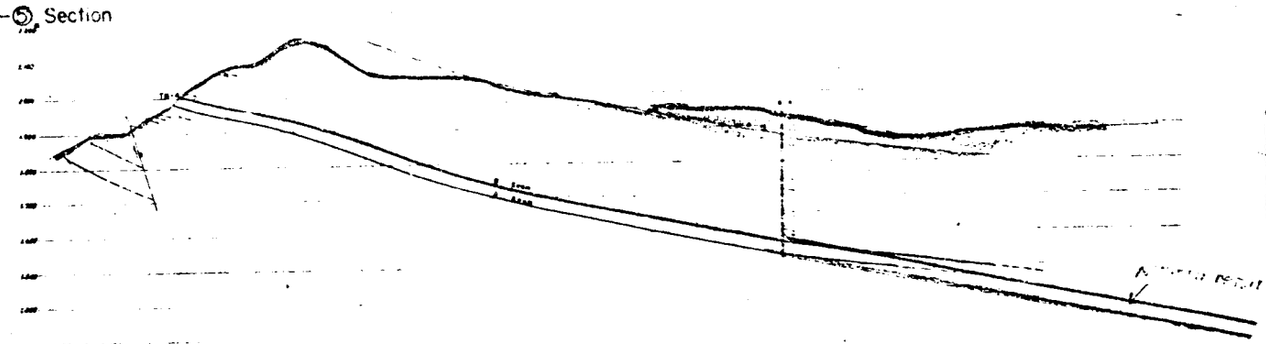

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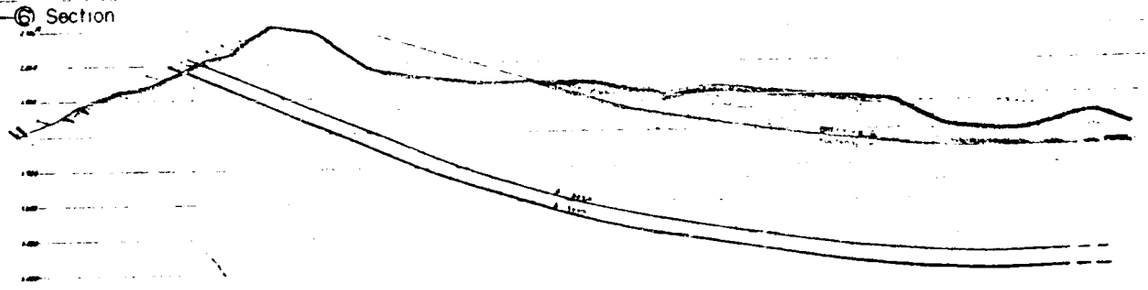
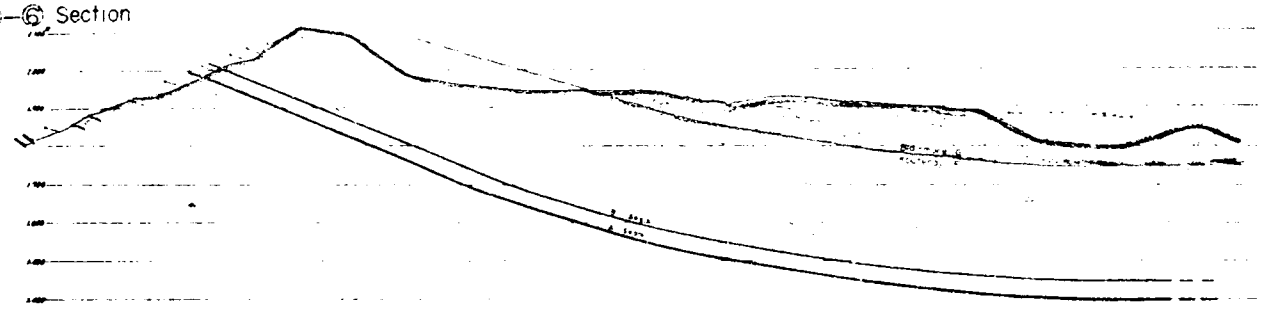
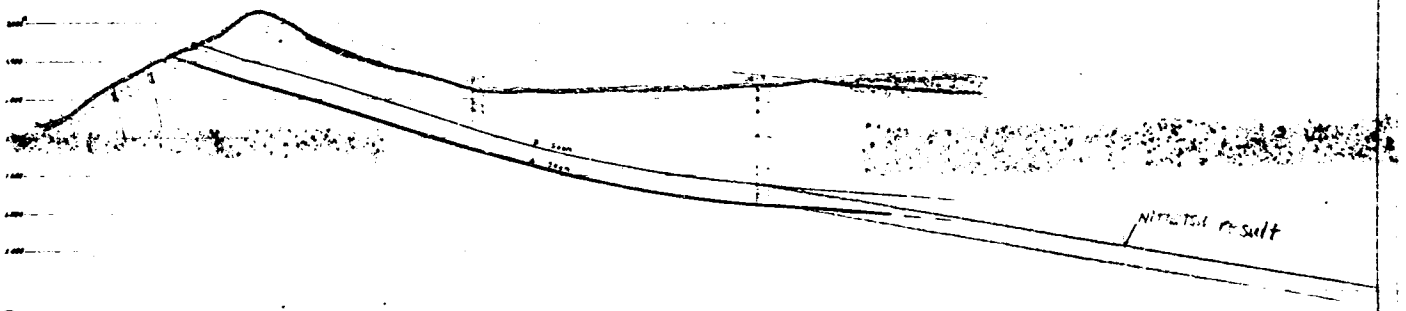


⑦–⑦ Section

⑤–⑥ Section



⑦–⑦ Section



⑧–⑧ Section

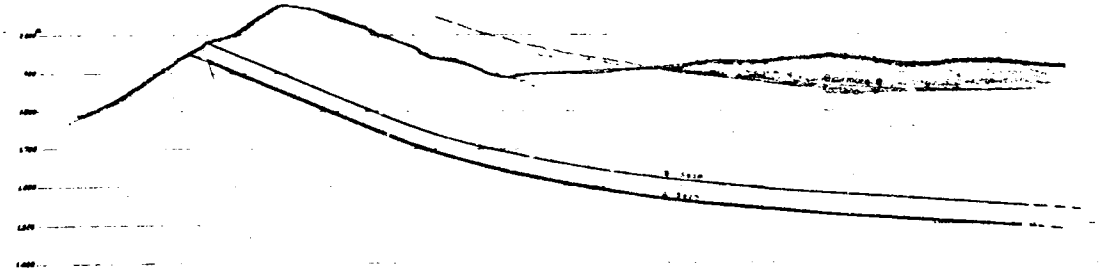


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Fig № 9

Correlated Columnar Sections of Main Coal Seams

Scale 1:100.

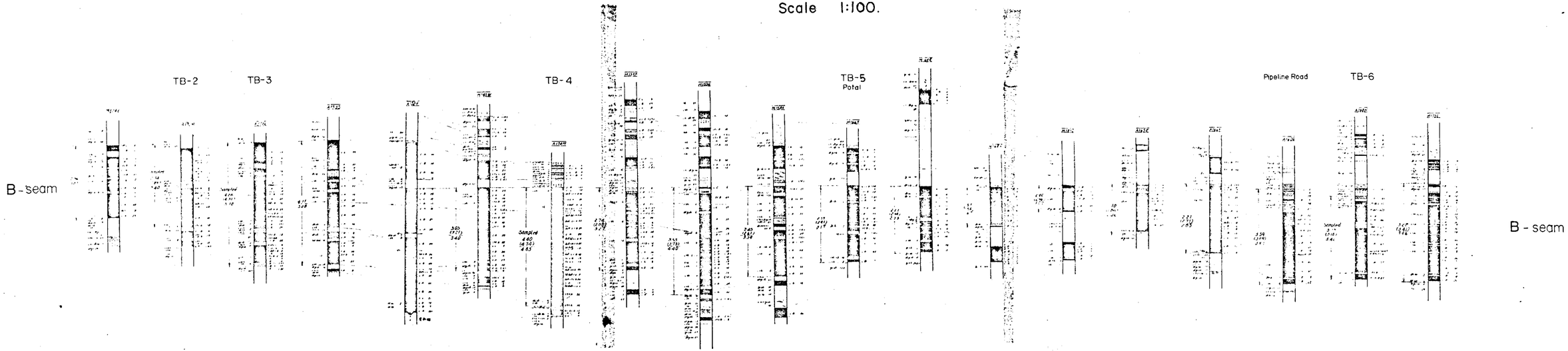

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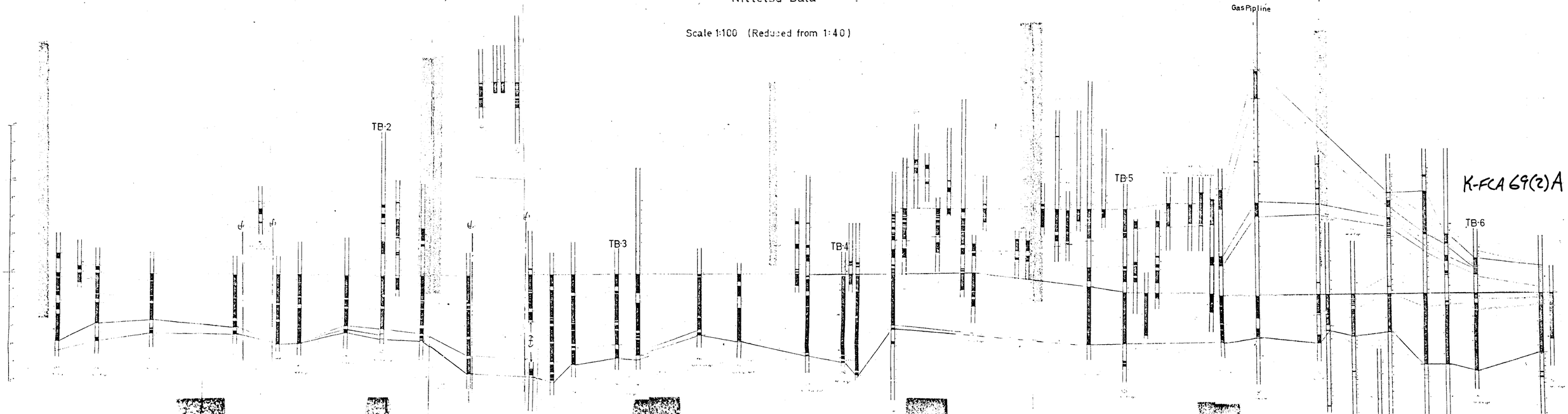
Fig № 10

Revised Correlation of B-Seam on Nittetsu Data

Scale 1:100 (Reduced from 1:40)



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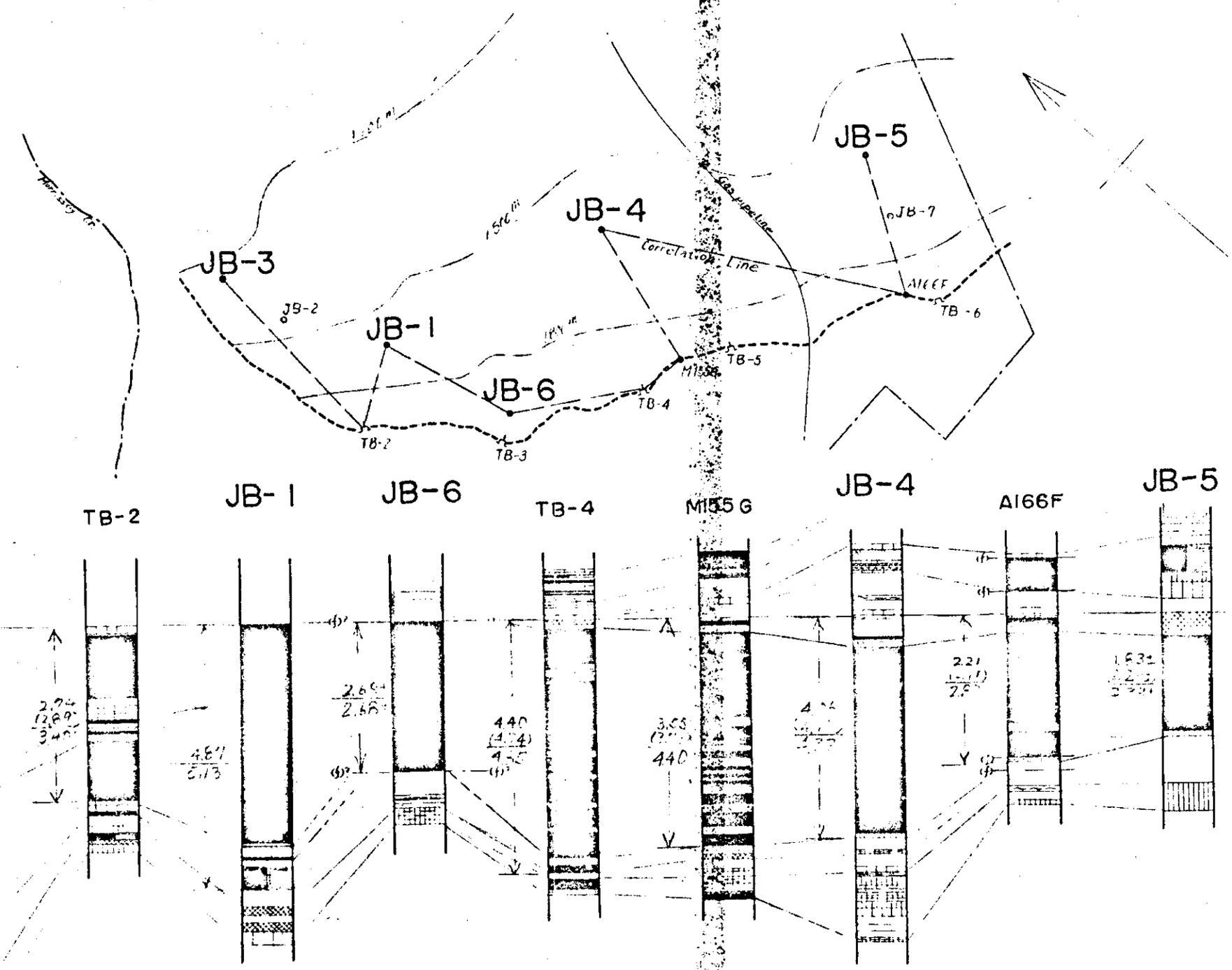
Correlation of B-Seam Intersected by Drill Holes



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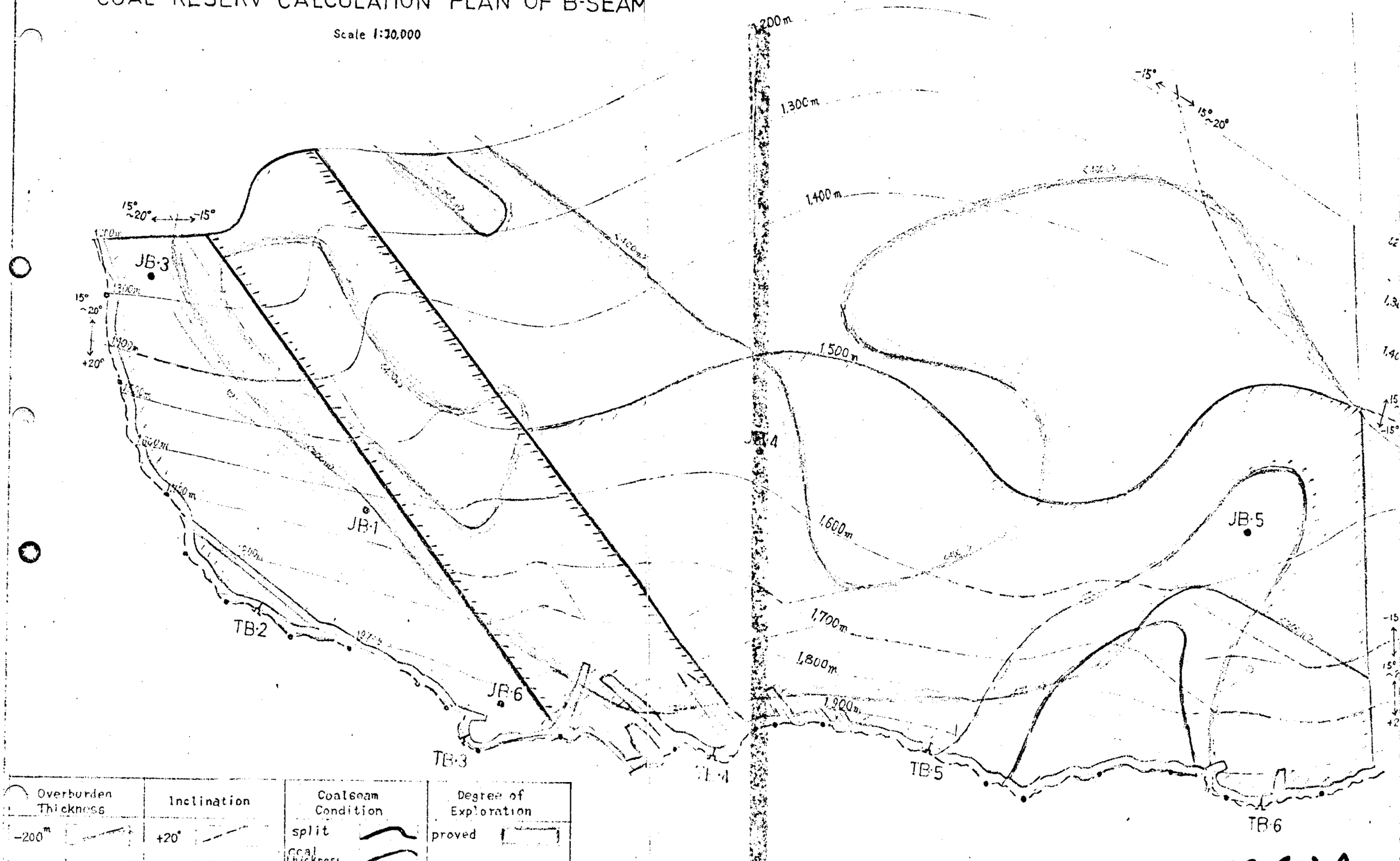
COAL RESERV CALCULATION PLAN OF B-SEAM

Scale 1:30,000



Overburden Thickness	Inclination	Coalseam Condition	Degree of Exploration
-200m	+20°	split	proved
200~400m	20~15°	Coal thickness -2.5m	unstable
+400m	-15°	favorable	unproved
		unknown	

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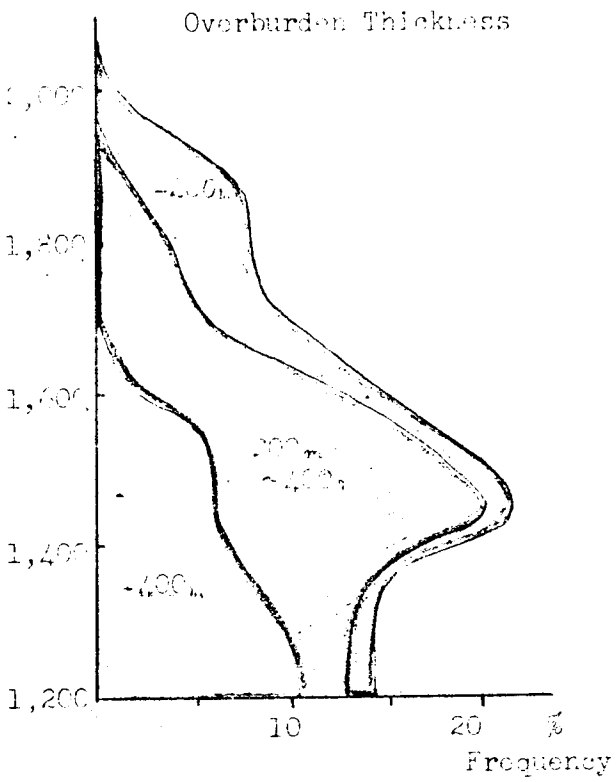
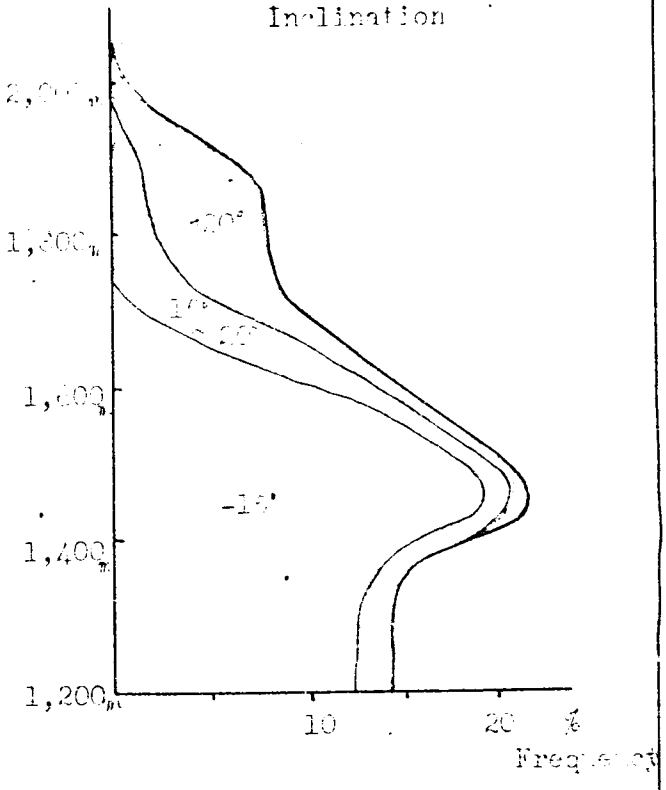
Fig. No 13

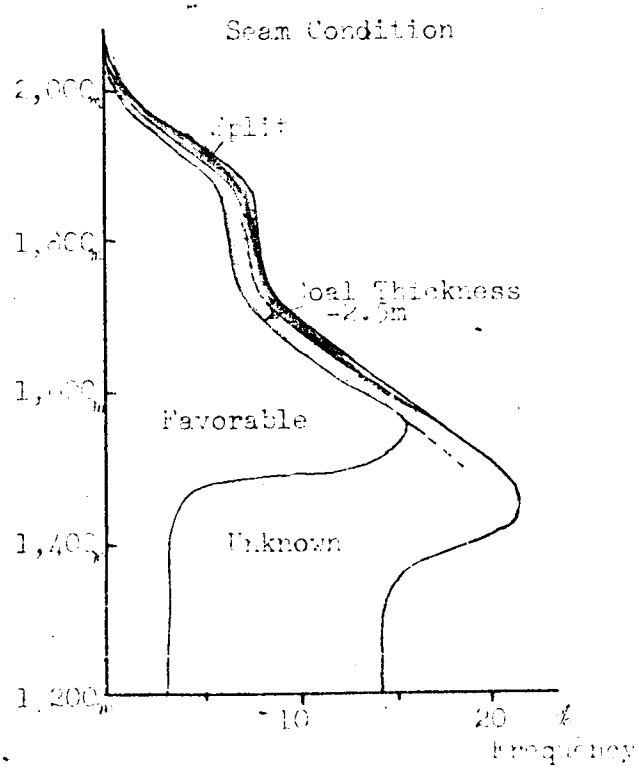
ALTITUDEWISE RELATIVE VARIATION

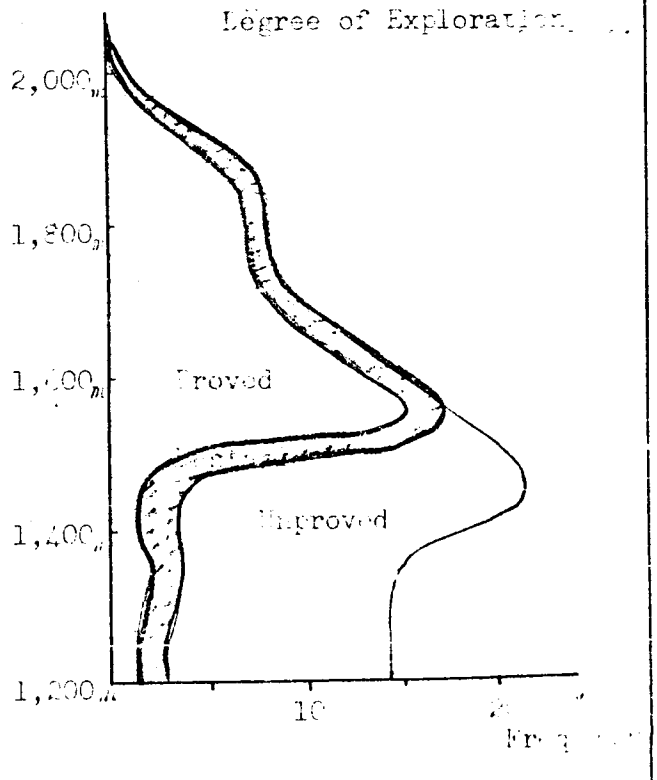
OF

THE DISTRIBUTION OF B-SEAM

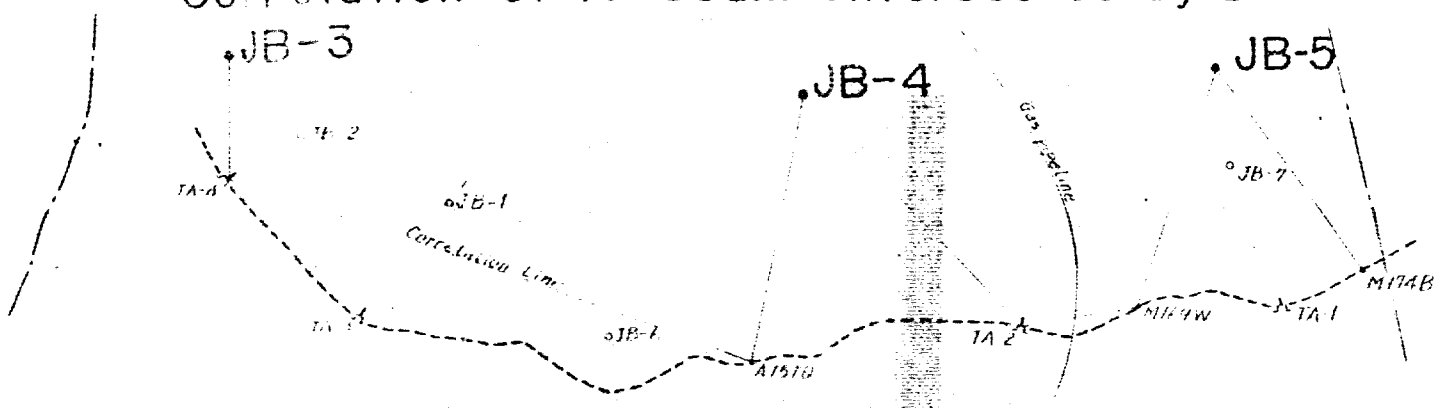


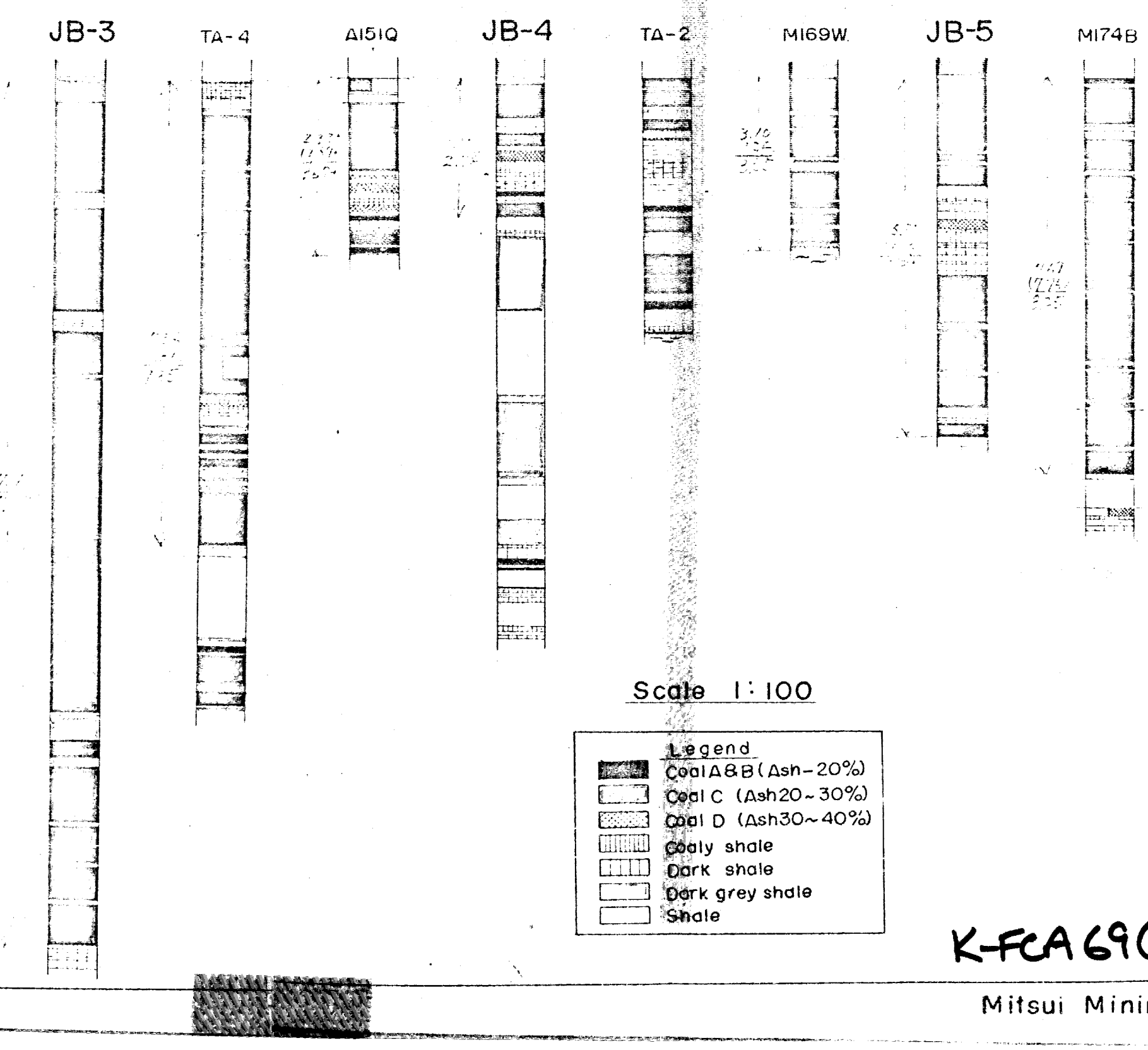






Correlation of A-Seam Intersected by Drill Holes





Scale 1:100

Legend
- Coal A&B (Ash-20%)
- Coal C (Ash20~30%)
- Coal D (Ash30~40%)
- Coaly shale
- Dark shale
- Dark grey shale
- Shale

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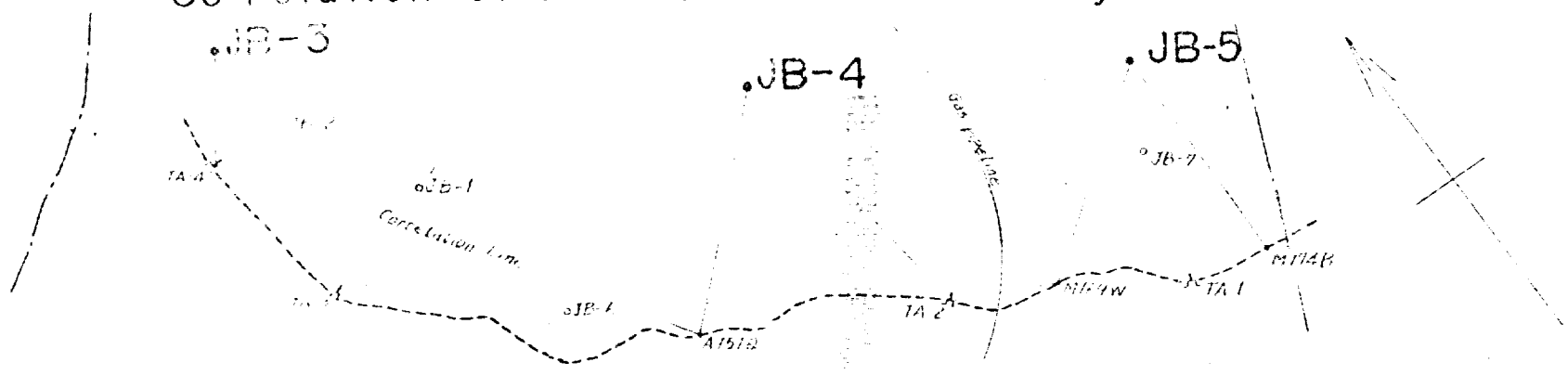
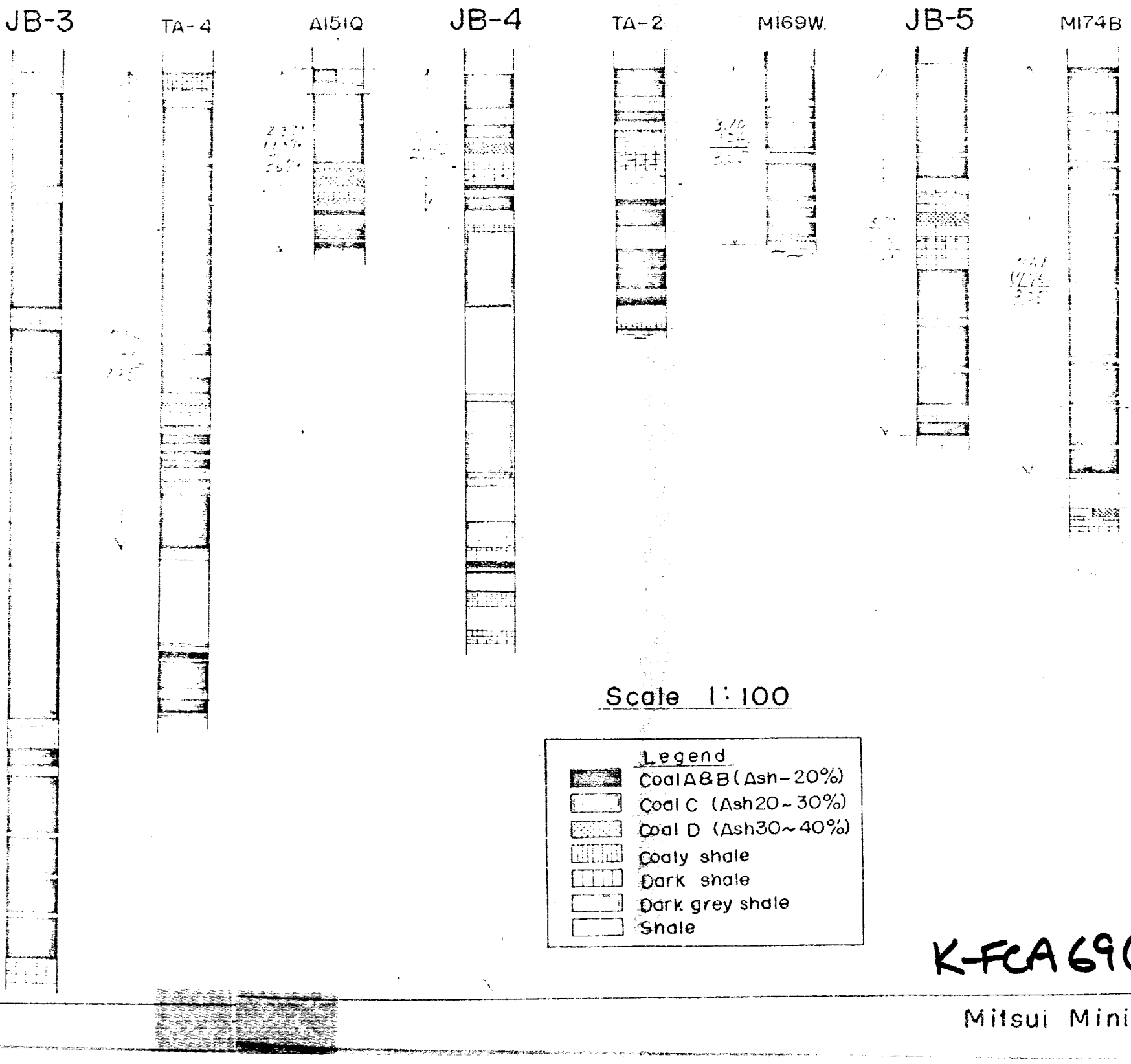
Correlation of A-Seam Intersected by Drill Holes





Scale 1:100

Legend
- Coal A&B (Ash-20%)
- Coal C (Ash20~30%)
- Coal D (Ash30~40%)
- Coaly shale
- Dark shale
- Dark grey shale
- Shale

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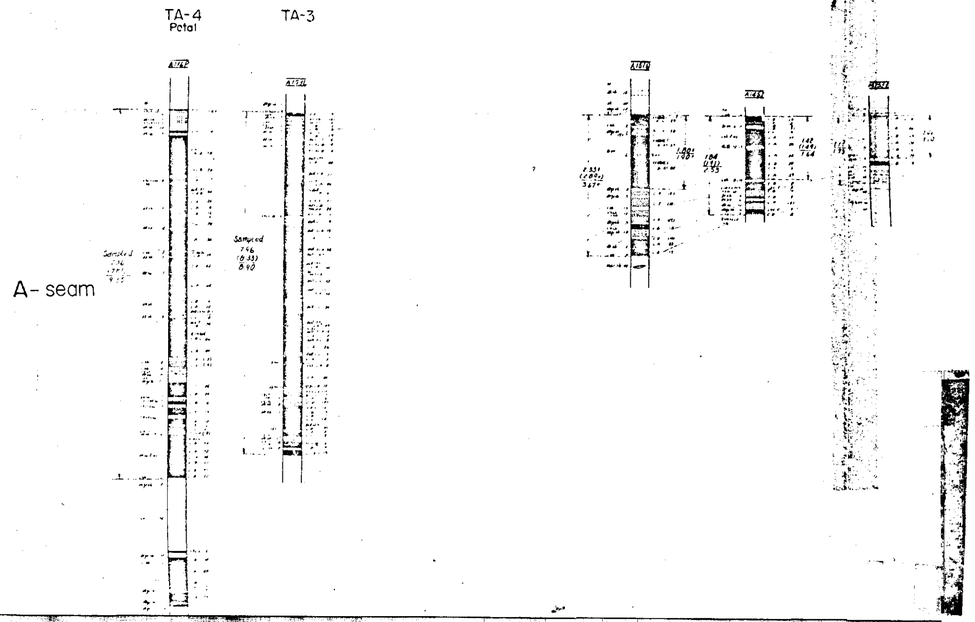
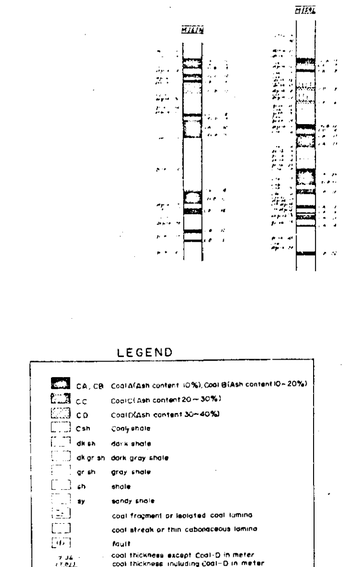
Fig. 14 A





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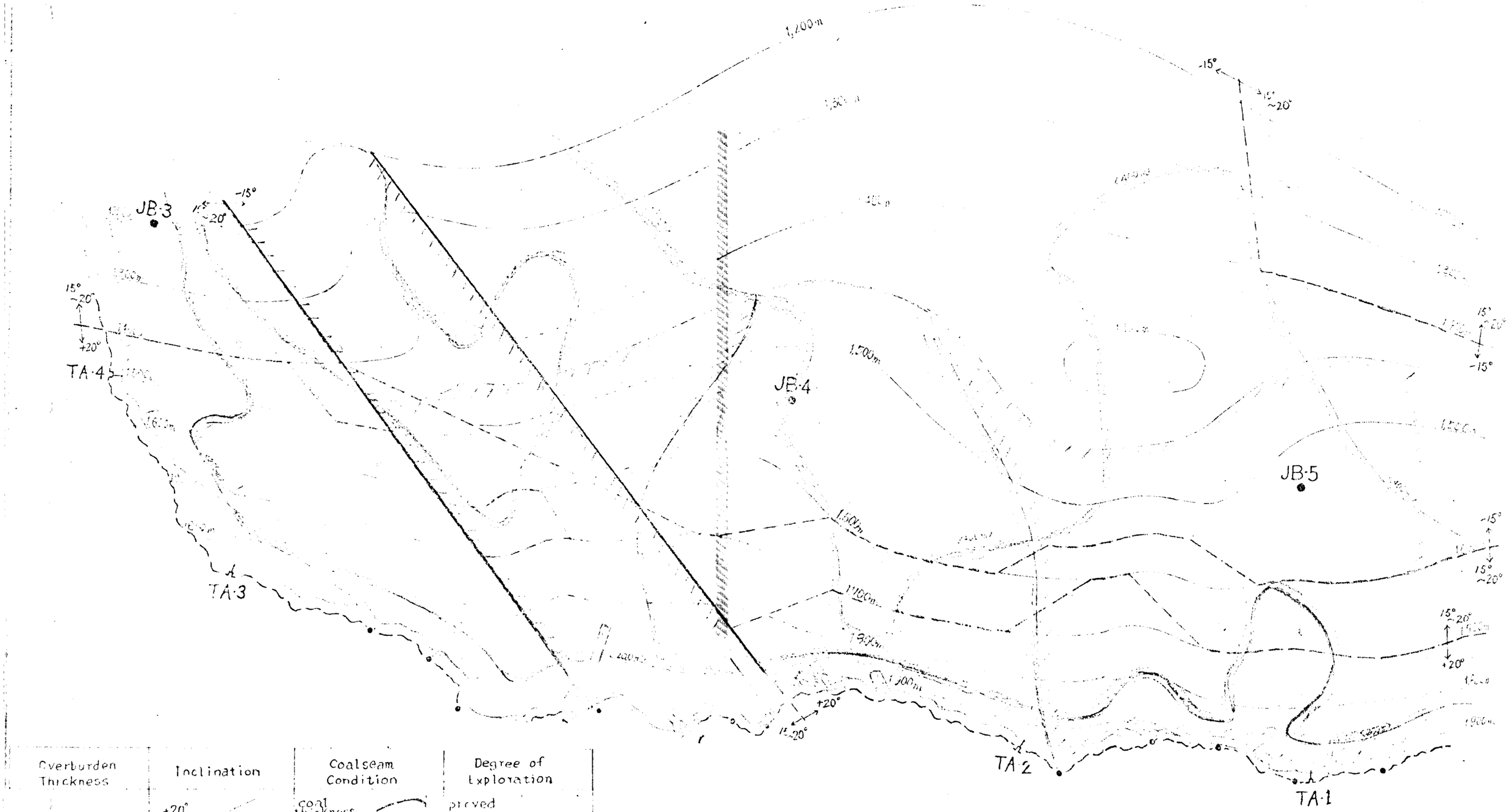
COAL RESERV CALCULATION PLAN OF A-SEAM

Scale 1:20,000



Overburden Thickness	Inclination	Coalseam Condition	Degree of Exploration
	+20°	coal thickness -2.5 m	proved
200~400m	20~15°	favorable	unstable
1400m	-15°	unknown	unproved

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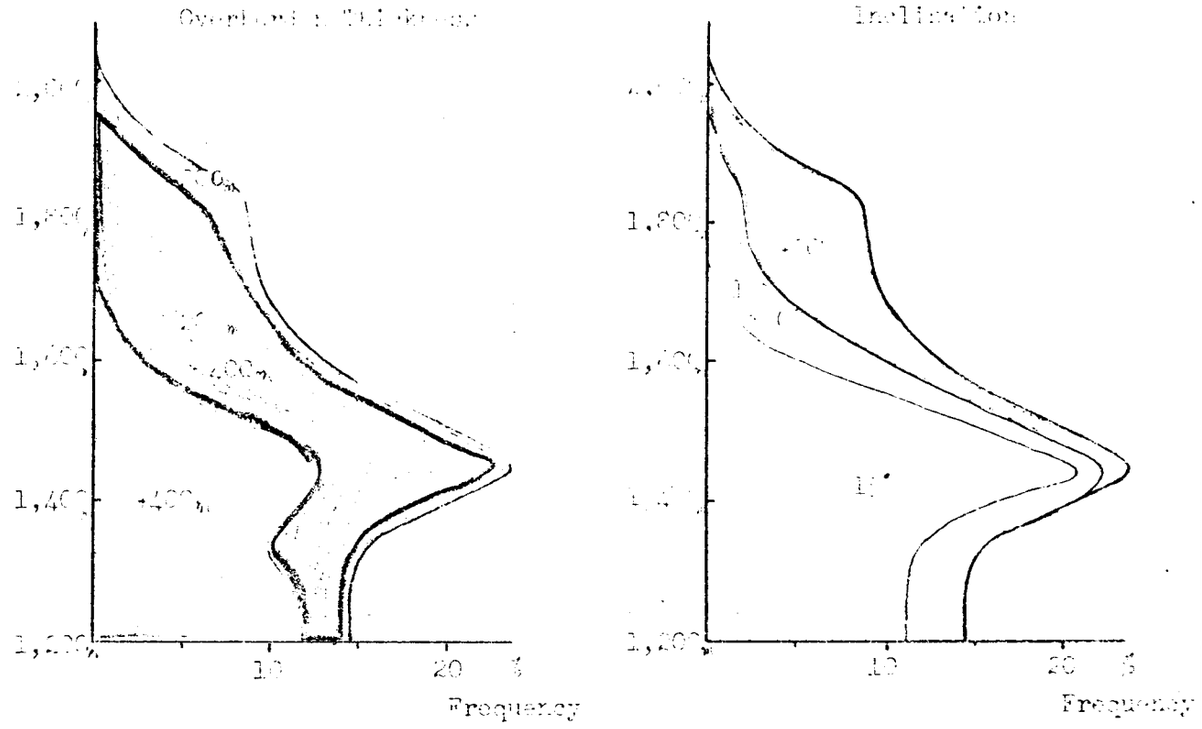
Fig № 16



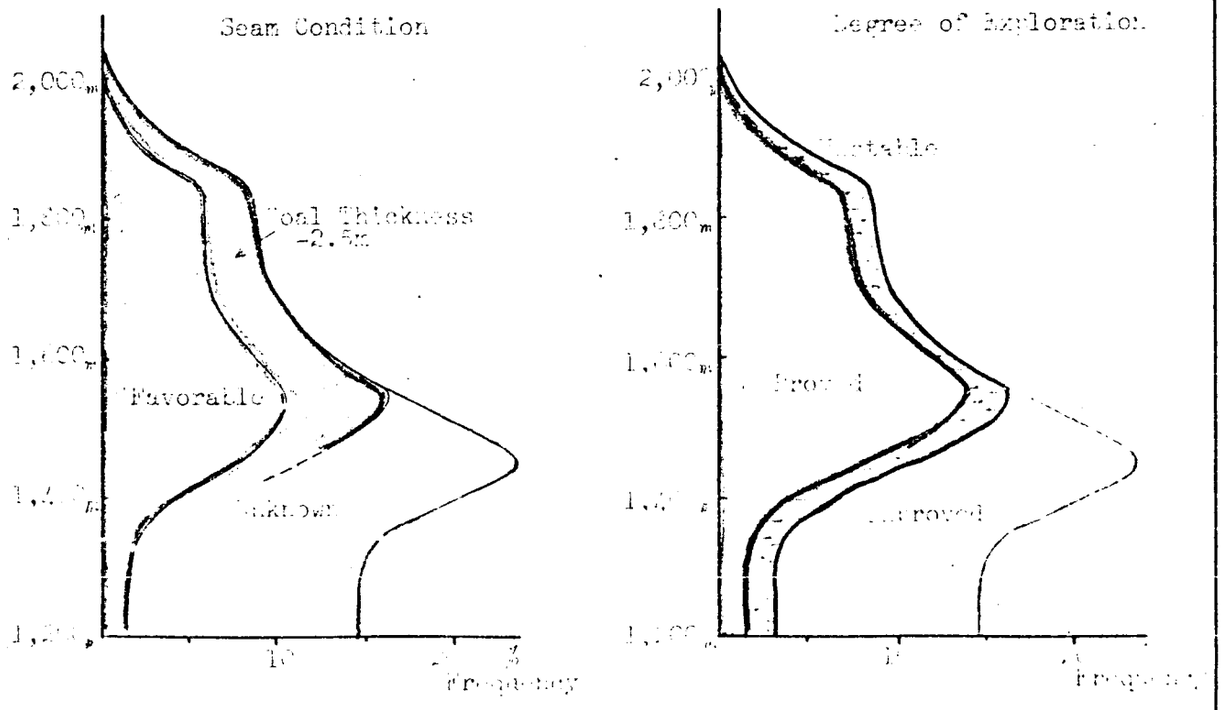


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Fig. No 17

Stratigraphic Variation of V.M.(d.a.f.) in Kootenay Coal

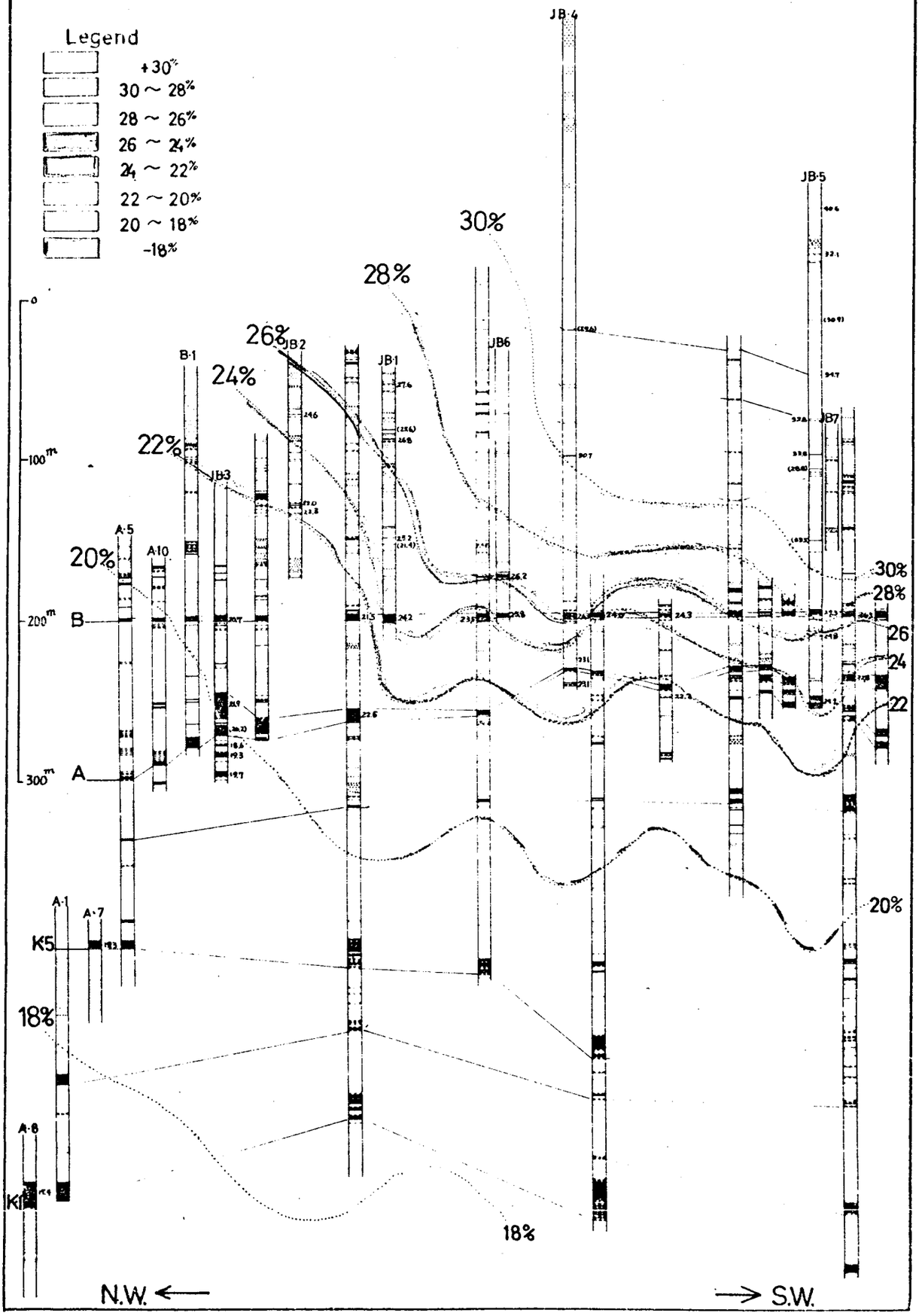

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Fig № 18

RELATIONSHIP BETWEEN V.M. AND I.I.

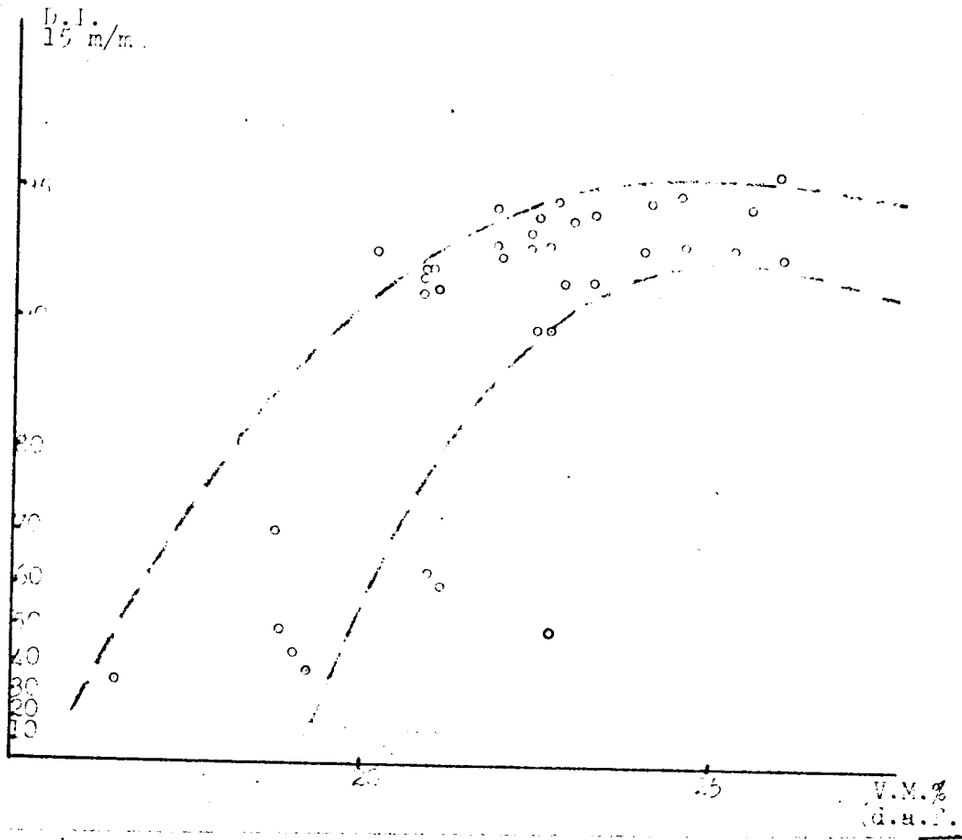
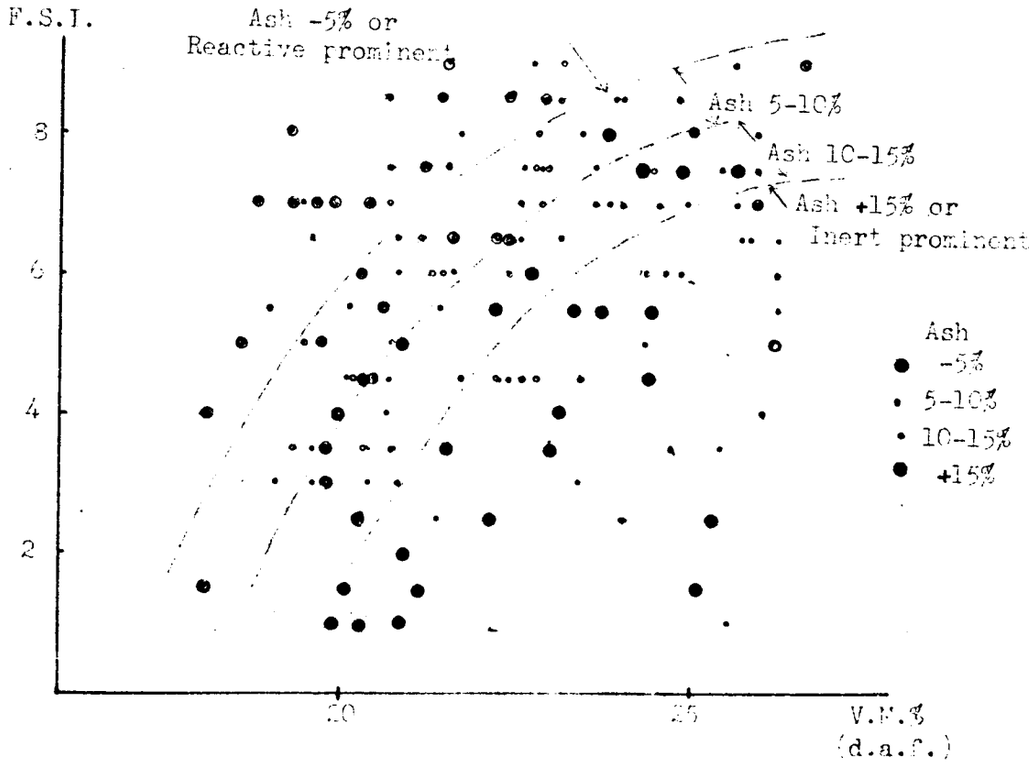


Fig № 19

RELATIONSHIP BETWEEN V.M. AND F.S.I.



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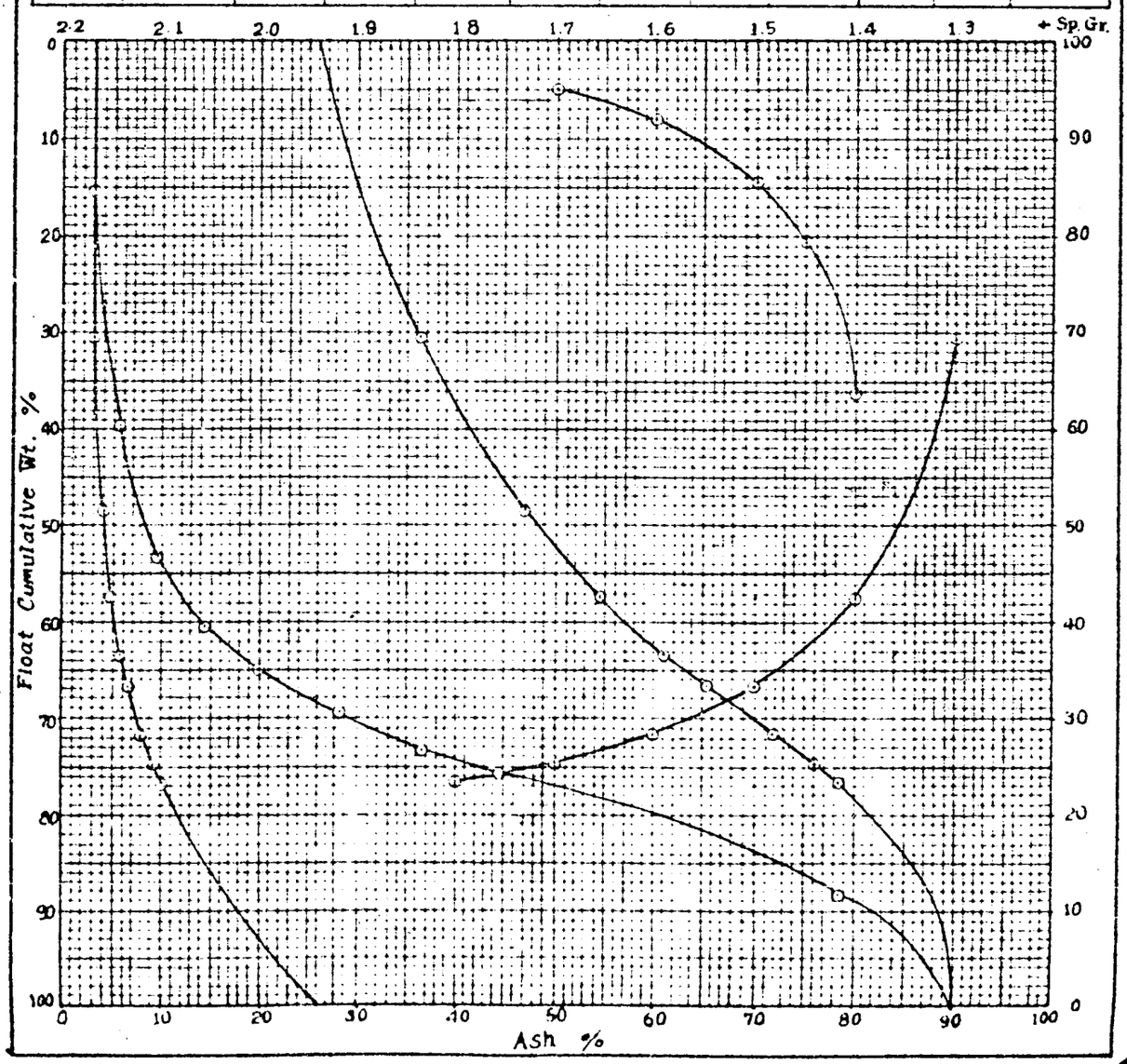
FLOAT SINK TEST

Fig № 20

Name.		Remark		Page.	
Date.				Size mm	

Sp.Gr.	Observed. W%	Observed. A%	Observed. Σ Wn·1 + ½ Wn	Float WA	Float ↓ΣWA	Float ↓ΣW	Float ↓ΣWA / ΣW	Sink 100 - ↓ΣW	Sink ↓ΣWA / ΣW	±0.1 Distribution
-1.3										
1.35										
1.40										
1.45										
1.50										
1.55										
1.60										
1.65										
1.70										
+1.70										



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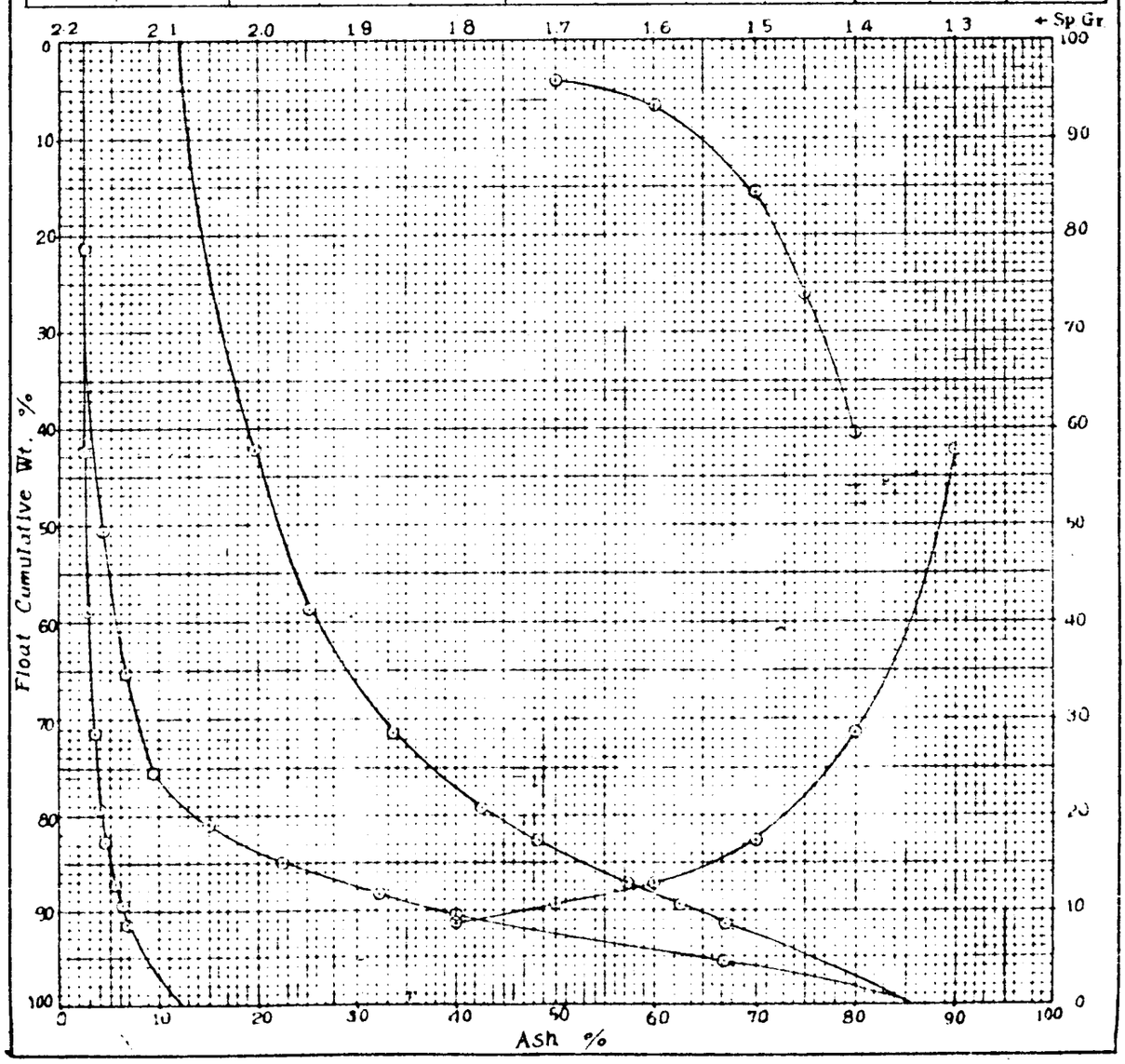
FLOAT SINK TEST

Fig.№ 21

Name		Remark.		Page.	
Date.				Size mm	

	Sp Gr.	Observed. W%	A%	ΣWn·1 + ½Wn	Float WA	↓ΣWA	↓ΣW	↓ΣWA / ΣW	Sink 100 − ↓ΣWA / ↓ΣW	↓ΣWA / ΣW	±0.1 Distribution



K. FCA 69(2)A