K-TENT MTN. 72 (2) A.

MAPS & CROSS SECTIONS.

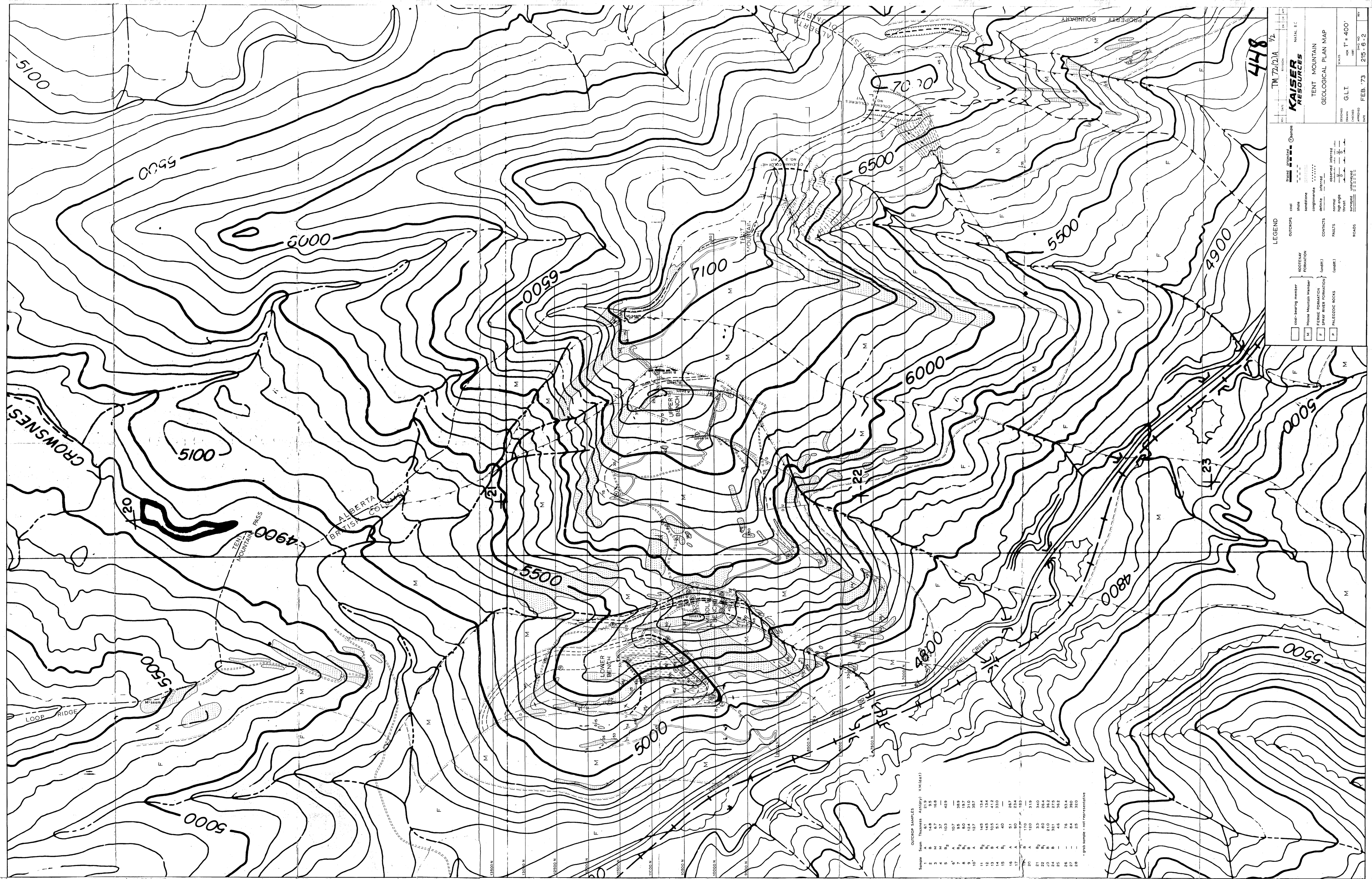
COLEMAN COLLIERIES. LIMITED.

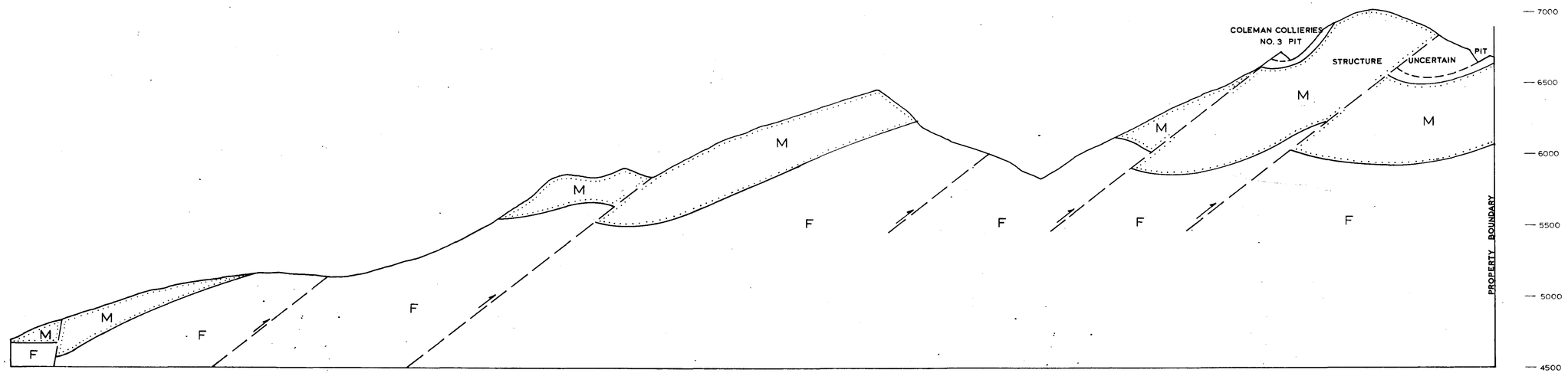
OPEN FILE

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00448

1 of 2


TM 72/D/1A ½
KAISER RESOURCES
NATAL B.C.
TENT MOUNTAIN
GEOLOGICAL PLAN MAP
SCALE HOR. 1" = 400'
DRG. NO. 215-6-2
DESIGNED G.L.T.
DRAWN
CHECKED
APPROVED
DATE FEB. '73
LEGEND
OUTCROPS coal
shale
sandstone
conglomerate
deferia
CONTACTS observed
inferred
FAULTS normal
high angle
thrust
low angle
ROADS surveyed
unsurveyed
KOOTENAY FORMATION
coal-bearing member
Moose Mountain Member
FERNIE FORMATION (SPRAY RIVER FORMATION)
PALEOZOIC ROCKS
(undiff.)
PROPERTY BOUNDARY
BRITISH COLUMBIA
ALBERTA
CROWSNEST
TENT MOUNTAIN PASS
LOOP RIDGE
TENT MOUNTAIN
UPPER BENCH
MIDDLE BENCH
LOWER BENCH
MICHEL CREEK
COUNTY ROAD
OUTCROP SAMPLES
Sample Seam Thickness Ash(dry) V.M.(daf)
1 A 4.6 21.9 —
2 A 1.4 14.5 —
3 M 6.7 16.8 —
4 M 3.7 — —
5 M_2 10.0 42.9 —
6 A 1.1 — —
7 B_2 9.5 38.9 —
8 B_2 8.0 19.7 —
9 A 8.4 14.0 —
10 B_2 12.7 33.7 —
11 B_2 14.5 13.4 —
12 B_2 14.5 13.4 —
13 B 10.5 31.2 —
14 B_1 6.1 31.0 —
15 B_1 4.0 — —
16 A 5.1 26.7 —
17 A 9.0 23.4 —
18 A 17.0 31.0 —
19 A 12.0 31.9 —
20 A 3.3 34.0 —
21 B_2 2.0 36.2 —
22 B_2 2.1 38.2 —
23 B 21.0 27.5 —
24 B 3.2 27.6 —
25 — 7.6 32.4 —
26 — 7.6 53.4 —
27 — 6.4 39.0 —
28 — 2.5 32.0 —
* grab sample - not representative



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M' Moose Mountain Member
- F FERNIE FORMATION / SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

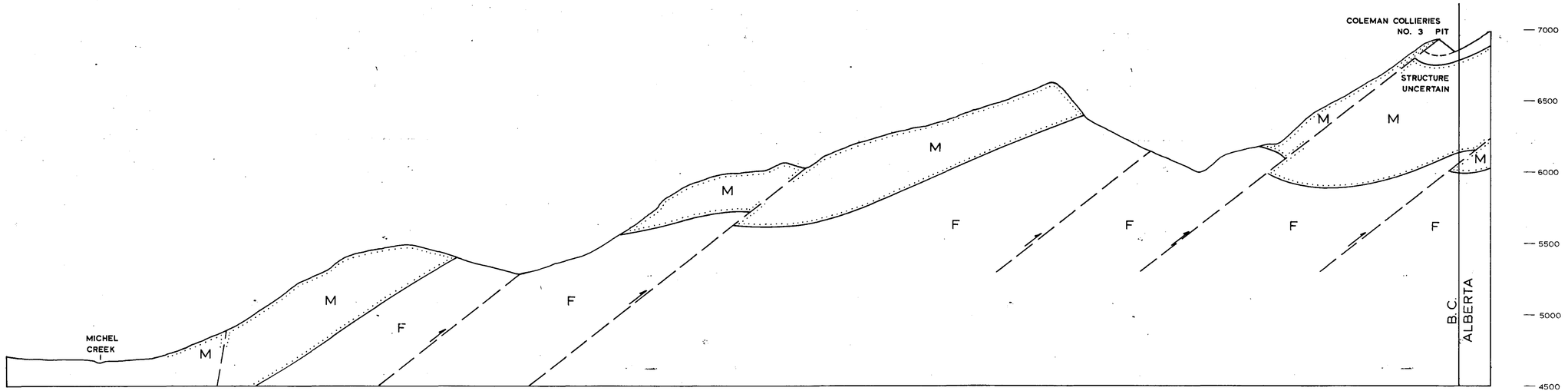
TM 72(2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 7000 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215 - 6 - 3	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

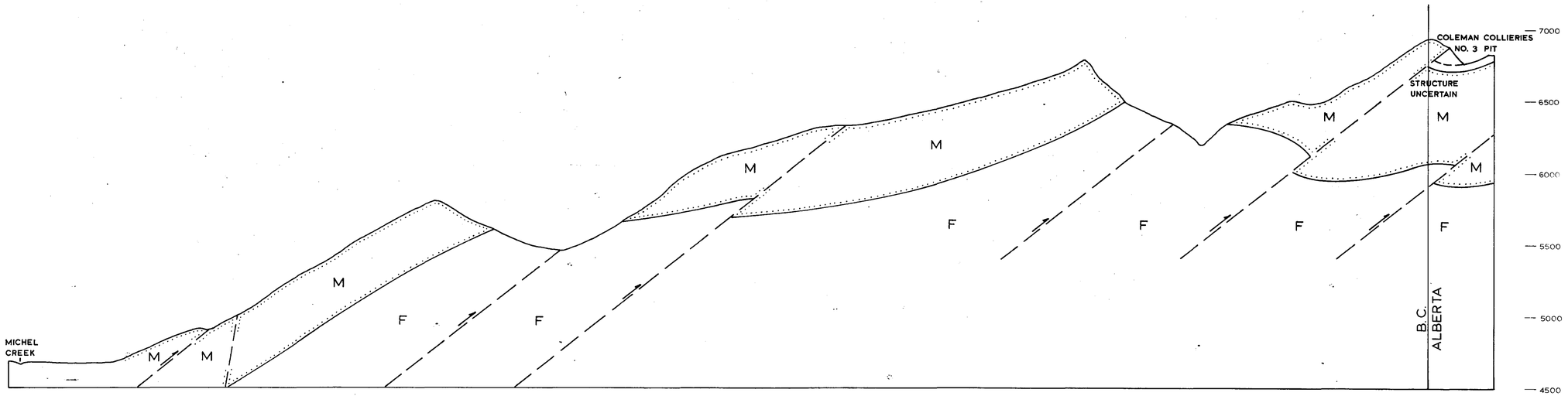
00448 1/2
K-TM 72(2)A.

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION **7500 N**

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215-6-4	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

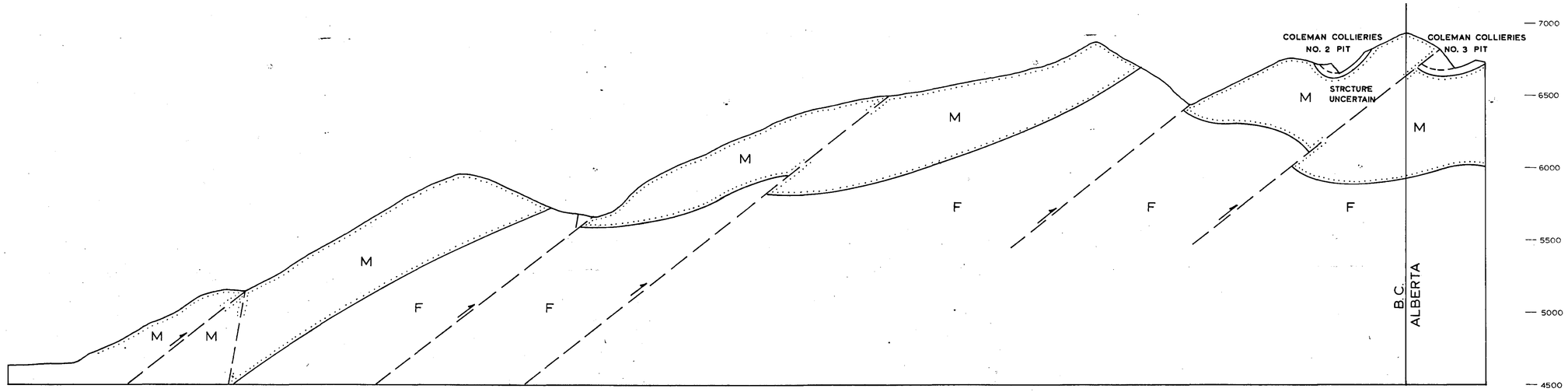
K-TM 72(2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 8000 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215-6-5	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION / SPRAY RIVER FORMATION } undiff.
- coal
- fault

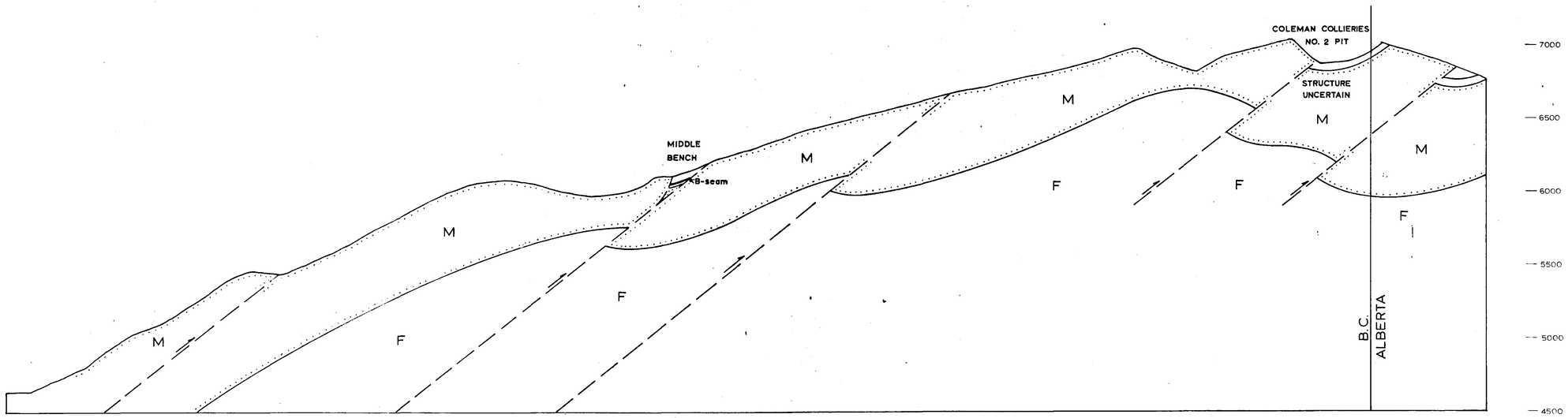
00448 1/2
K-TM 72(2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION **8500 N**

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR.	1" = 400'
CHECKED		VERT.	1" = 400'
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215 - 6 - 8	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

80443 1/2

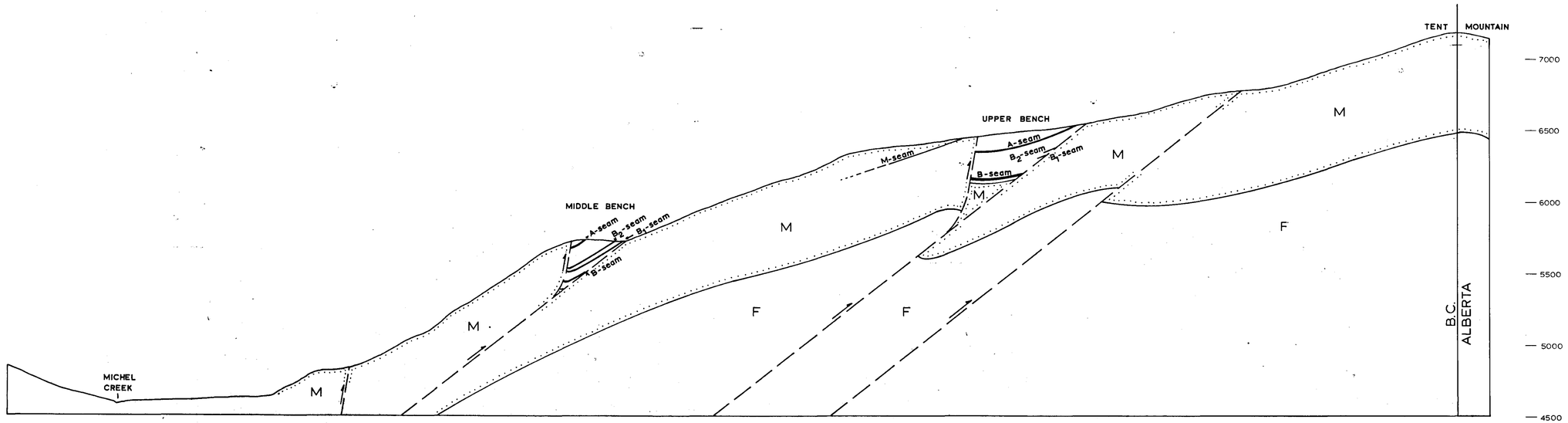
K-TM-72(2)A

KAISER RESOURCES — NATAL, B.C.

TENT MOUNTAIN

SECTION 9000N

DESIGNED		SCALES	
DRAWN	GLT	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB '73	215-E-7	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448½

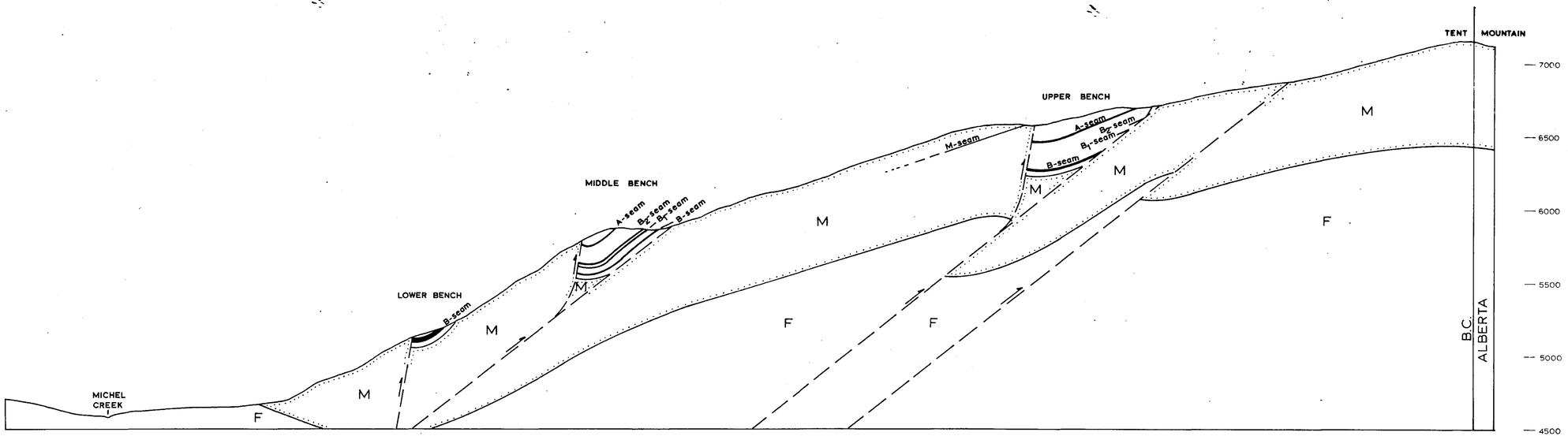
K-TM-72(2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 9500 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR.	1" = 400'
CHECKED		VERT.	1" = 400'
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215-6-8	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

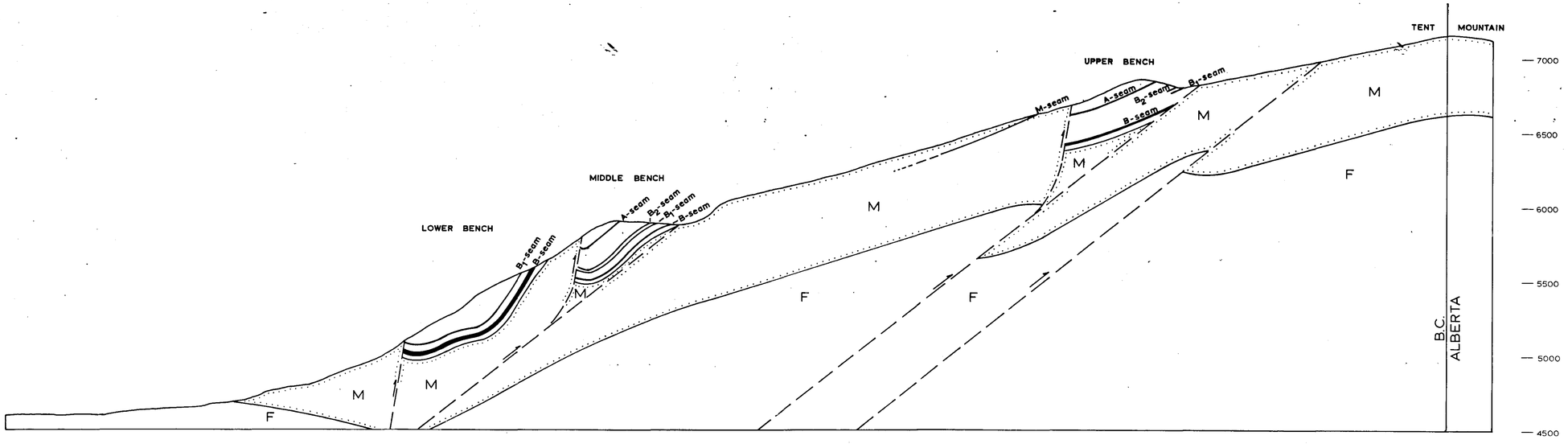
00448 1/2
K-TM 72(2)A.

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 10000 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB '73	215-6-9	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff
- coal
- fault

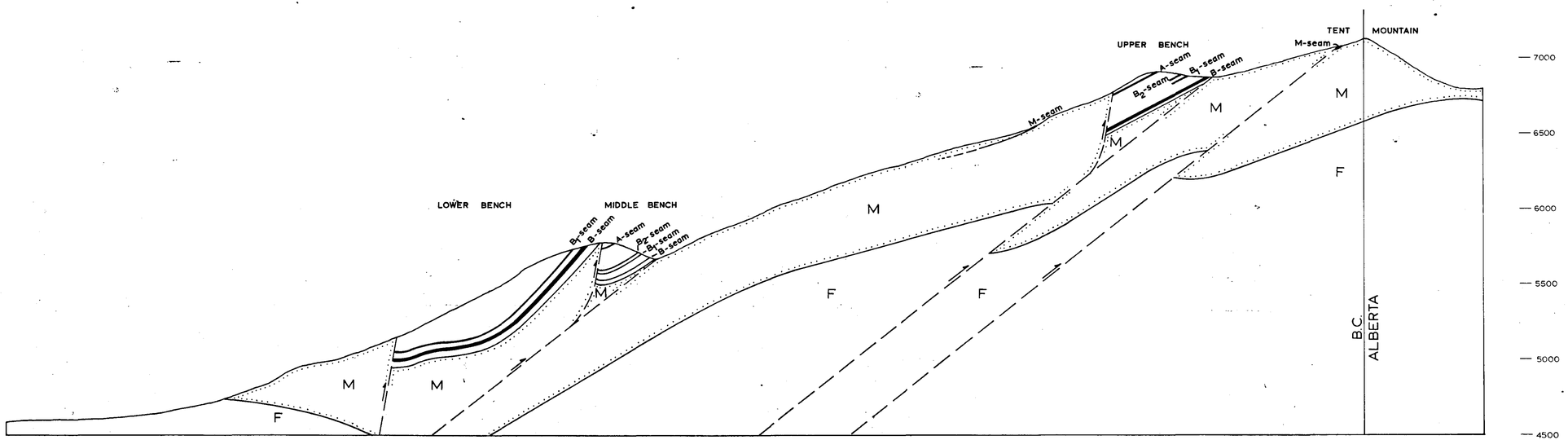
60448½
K-TM 72 (2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION **10500 N**

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215 - 6 - 10	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

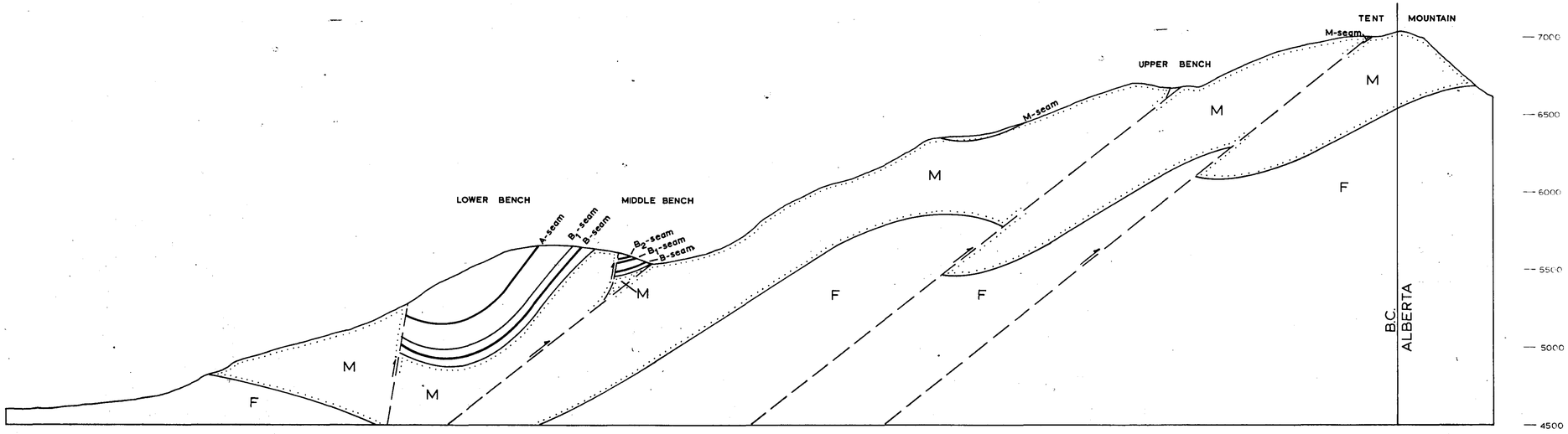
K-TM 72 (2) A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 11000 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR.	1" = 400'
CHECKED		VERT.	1" = 400'
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215 - 6 - 11	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

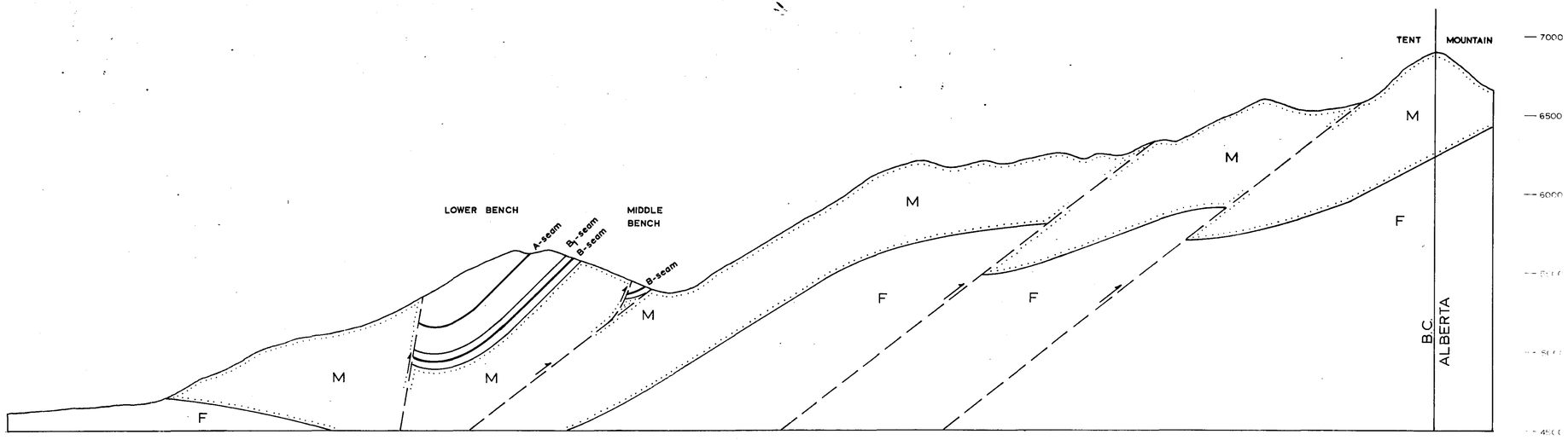
00448½
K-IA 72(2)A.

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION **11500N**

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB '73	215 - 6 - **12**	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

K-TM 72(2)A.

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

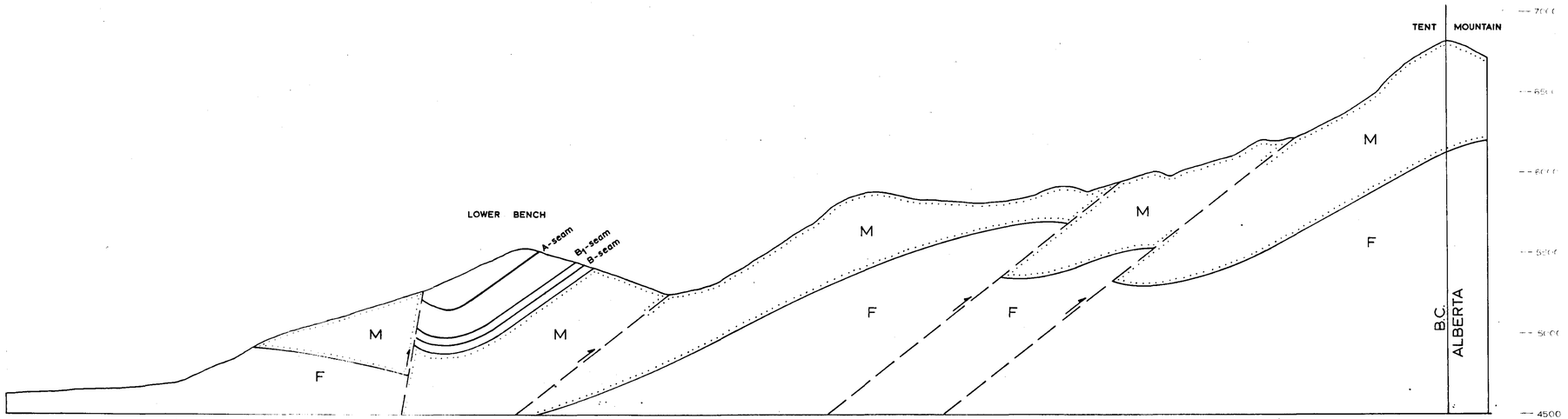
SECTION 12000 N

DESIGNED
DRAWN
CHECKED
APPROVED
DATE

SCALES
HOR
VERT

DWG NO 13

REV



LEGEND

- coal-bearing member
- M Morse Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

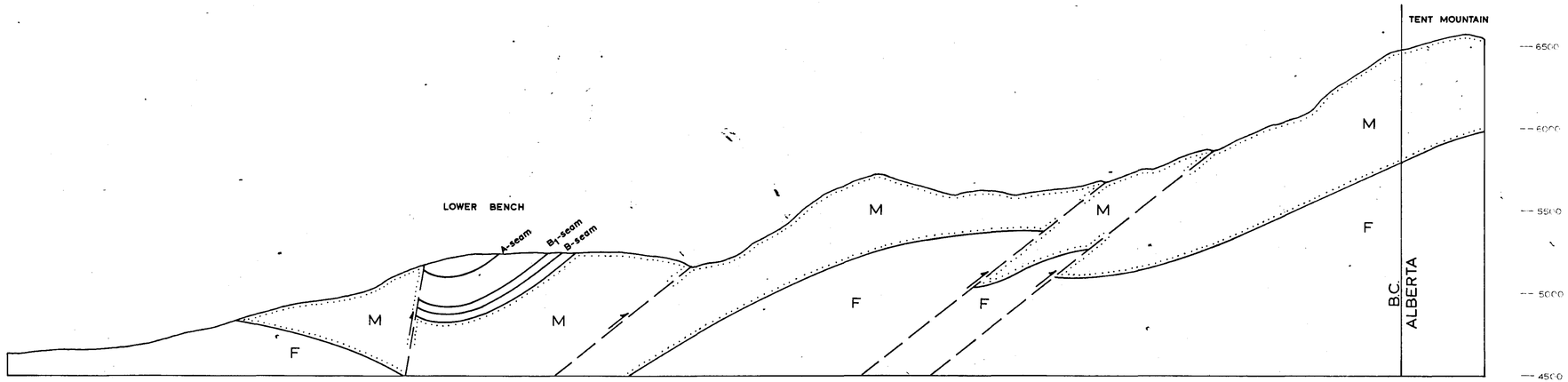
00148 1/2
K-TM 72(2)A.

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 12500 N

DESIGNED		SCALES	
DRAWN	G.L.T.	HOR. 1" = 40'0"	
CHECKED		VERT. 1" = 40'0"	
APPROVED		DWG. NO.	REV.
DATE	FEB. '73	215-6-14	



LEGEND

- coal-bearing member } KOOTENAY FORMATION
- M Moose Mountain Member
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

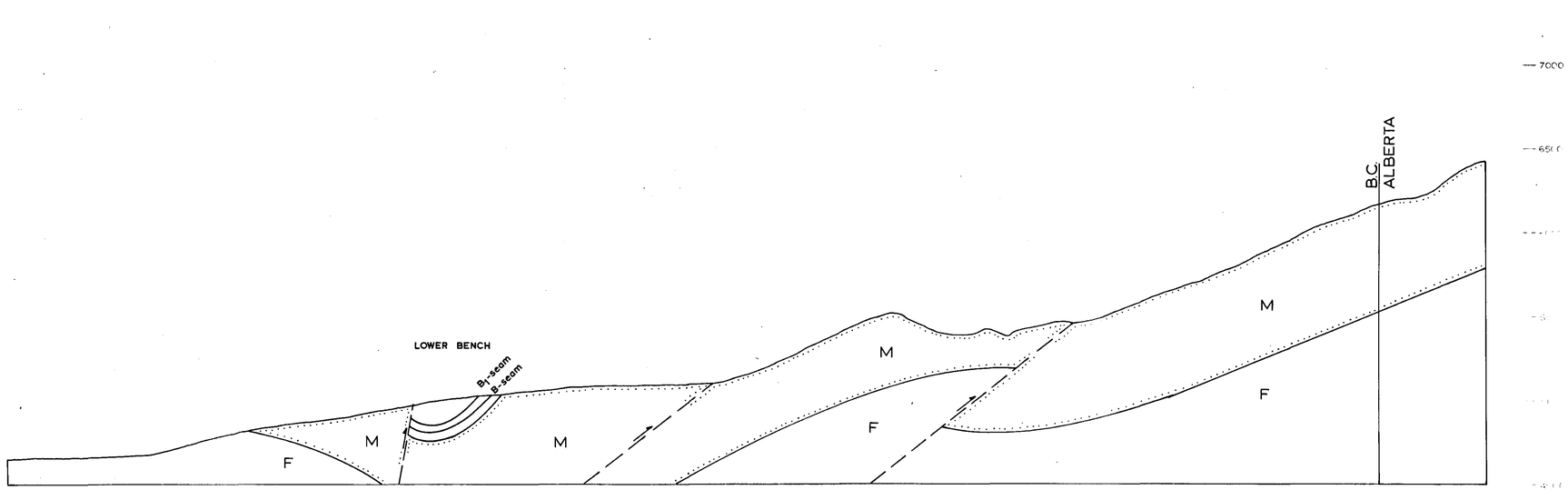
K-TM-72-(2)A

KAISER RESOURCES NATAL, B.C.

TENT MOUNTAIN

SECTION 13000 N

DESIGNED		SCALES	
DRAWN	GLT	HOR. 1" = 400'	
CHECKED		VERT. 1" = 400'	
APPROVED		DWG. NO.	REV.
DATE	FEB '73	215 - E - 15	



LEGEND

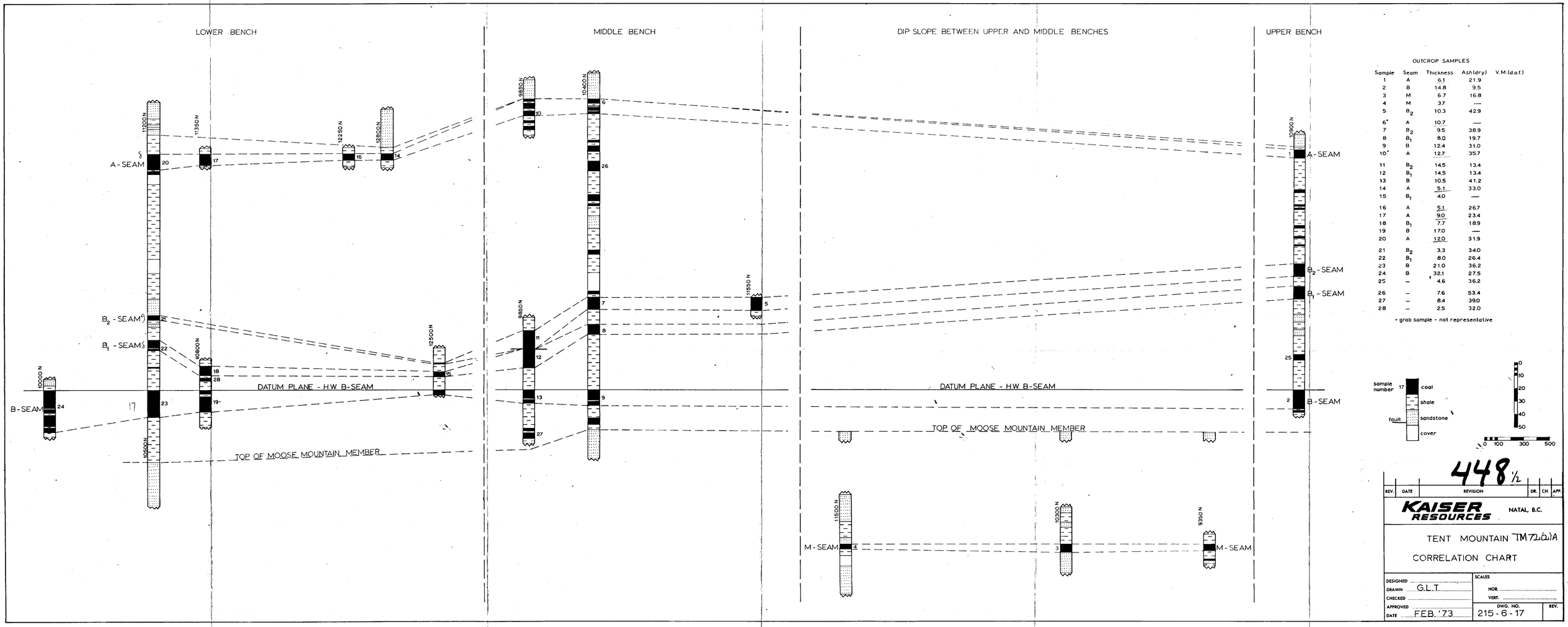
- coal-bearing member
- M Moose Mountain Member } KOOTENAY FORMATION
- F FERNIE FORMATION, SPRAY RIVER FORMATION } undiff.
- coal
- fault

00448 1/2

K-70 72 (2)A.

13500N

16



OUTCROP SAMPLES

Sample	Seam	Thickness	Ash(dry)	V.M.(d.a.f.)
1	A	6.1	21.9	
2	B	14.8	9.5	
3	M	6.7	16.8	
4	M	3.7	—	
5	B_2	10.3	42.9	
6*	A	10.7	—	
7	B_2	9.5	38.9	
8	B_1	8.0	19.7	
9	B	12.4	31.0	
10*	A	12.7	35.7	
11	B_2	14.5	13.4	
12	B_1	14.5	13.4	
13	B	10.5	41.2	
14	A	5.1	33.0	
15	B_1	4.0	—	
16	A	5.1	26.7	
17	A	9.0	23.4	
18	B_1	7.7	18.9	
19	B	17.0	—	
20	A	12.0	31.9	
21	B_2	3.3	34.0	
22	B_1	8.0	26.4	
23	B	21.0	36.2	
24	B	32.1	27.5	
25	—	4.6	36.2	
26	—	7.6	53.4	
27	—	8.4	39.0	
28	—	2.5	32.0	

* grab sample - not representative

K-TENT MTN. 72 (6) A.

RESERVE ESTIMATE CHART.

COLEMAN COLLIERIES LTD.

CONFIDENTIAL

GEOLOGICAL BRANCH
ASSESSMENT REPORT

00 448

2 of 2

AREA: TENT MOUNTAIN
TABLE No: 69

RESERVE ESTIMATE — (0-1500' COVER)

00448 2/2

OPEN FILE

SEAM NAME	AVG. THICK.	PITCH 0–15° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 15°–30° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	PITCH 30°–90° TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)
2-PIT	10"–	431	A	O	366																	
3-PIT	25	904	B	C,H,O	309				872	B	H,O	465				941	B	H,O	297			
4-PIT	6	1,059	B	C	159				1,049	B	R	157				1,149	B	R	172			
A									1,036	B	R,O,H +(ox)	304										
B"									391	B	R(ox)	49										
B'									1,369	B	R,O(ox)	270										
B									3,166	B	O,R(ox)	640										
PROVEN		431			366																	
PART. EXPL'D		1,963			468				7,883			1,885				2,090			469			
PROJECTED																						
TOTALS		2,394			834				7,883			1,885				2,090			469			

CUMULATIVE TOTALS — RECOVERABLE RESERVES										
OPEN PIT MINING			UNDERGROUND CONVENTIONAL			UNDERGROUND HYDRAULIC			TOTALS (000's TONS CLEAN)	SEAM NAME
PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED		

NOTE: (1) Average thickness computed from observations (ie. drill holes, adit and outcrop measurements.)
(2)(i) Tons in place (cu. yds.) determined from: (a) Area of unmined coal.
(b) Average thickness as determined from (1)
(ii) 1 cu. yd. of coal in place = 1·15 net tons raw.
(iii) Slope correction applied to (2)(ii)(a). (Area of unmined coal.) as follows:
(a) For 0°–15° pitch – correction of 7½° applied to area.
(b) For 15°–30° pitch – correction of 22½° applied to area.
(c) For 30°–90° pitch – correction of 45° applied to area.

(3) Reserve Classification – Definitions for KRL property.
A – Proven Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground computed from observations (ie. drill holes, adits, outcrops, mine workings) spaced at intervals of 0·5 miles or less in areas of good geological continuity, with seam thickness greater than 5 feet and under less than 2500 feet of overburden.
B – Partially Explored Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground computed partially from observations generally spaced at intervals from 0·5 to 1·5 miles apart and partially from reasonable geological projections. Minimum seam thickness is 5 feet, and maximum overburden 2500 feet. Generally equivalent to "Probable" or "Indicated" in other systems of nomenclature.
C – Projected Reserves – (In Place) –
Tons of coal (1·15 nt/cu.yd.) in the ground where litte direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

(4) Mining Method –
H – Probably better suited to hydraulic mining method. Used 50% recovery.
C – Probably suited to conventional room and pillar method. Used 15% recovery.
R – Probably suited to selective mining because of splits or proximity to other seams. Used 15% recovery.
O – Open Pit reserve. Assumed 85% recovery.

(5) Reserves Recoverable –
Proven Reserves (Recoverable) –
Proven Reserves (In Place) adjusted by well substantiated factors for mining and washing recovery.
Partially Explored Reserves (Recoverable) –
Partially Explored Reserves (In Place) adjusted by generalized factors for mining and washing recovery.

(6) Calculated yield (laboratory) at defined specific gravity arrived at by (a) bulk sample wash tests from adits and/or test pits, or (b) micro sample wash tests from adits and/or test pits.

AREA:
TABLE No: