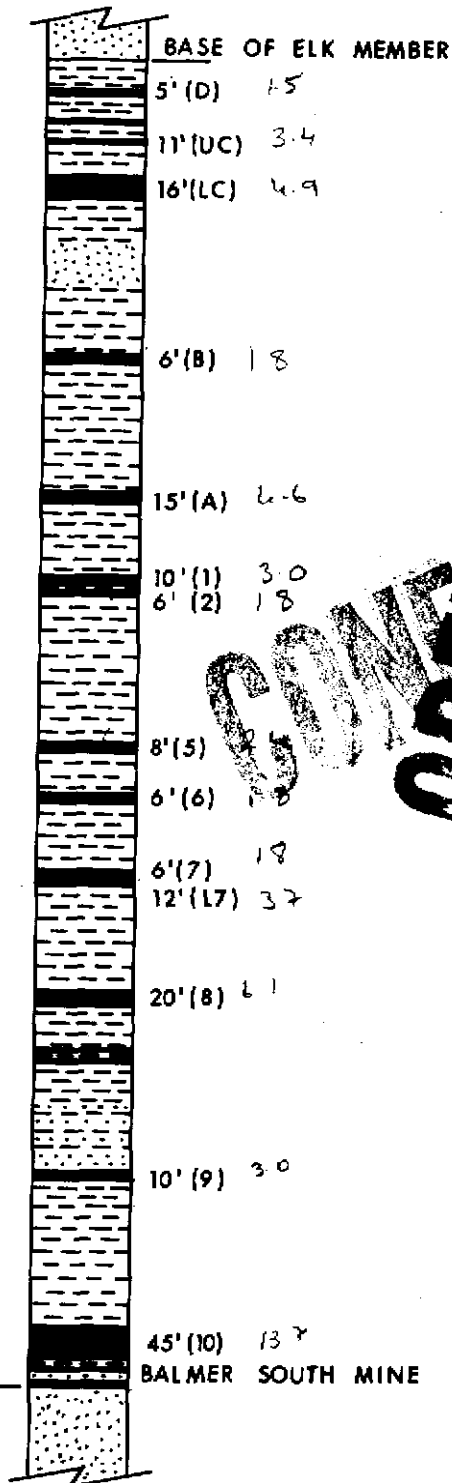


K - Michel South 74(b)A  
Reserve Estimate Charts  
Kaiser Resources Ltd.

**CONFIDENTIAL**

**GEOLOGICAL BRANCH  
ASSESSMENT REPORT**

**00 349**



**CONFIDENTIAL**

NOTE: Data projected from Sparwood Ridge Area

**LEGEND**

- COAL
  - SHALE
  - SILTSTONE
  - SANDSTONE
  - CONGLOMERATE
- COAL THICKNESS (SEAM NO.)

**KAISER RESOURCES**

GENERALIZED STRATIGRAPHIC COLUMN  
FOR  
**MICHEL SOUTH**

DWN : R.E.T.	SCALE : 1" - 300'
DATE : MAY 1975	FIG. NO. : 8

AREA: MICHEL SOUTH

TABLE N<sup>o</sup>: 34

RESERVE ESTIMATE - (0-1500' COVER)

SEAM NAME	AVG. THICK.	PITCH 0-15°						PITCH 15-30°						PITCH 30-90°						CUMULATIVE TOTALS - RECOVERABLE RESERVES									SEAM NAME										
		TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	OPEN PIT MINING			UNDERGROUND CONVENTIONAL				UNDERGROUND HYDRAULIC			TOTALS (000's TONS CLEAN)						
																							PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED		PROVEN	PARTIALLY EXPLORED	PROJECTED							
D	5							8,731	C	C																													
C	*14							16,368	C	C																													
B	6							6,063	C	C																													
A	15							10,290	C	C																													
1	10							5,329	C	C																													
5	8							13,290	C	C																													
6	6																																						
7	*21																																						
8	30																																						
9	6																																						
10	50																																						
PROVEN																																							
PART. EXPL'D																																							
PROJECTED																																							
TOTALS								60,071																															

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)(i)(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 (1.15nt/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 little 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.

00349  
 AREA:  
 TABLE N<sup>o</sup>:

AREA: MICHEL SOUTH  
 TABLE NO: 35  
 RESERVE ESTIMATE - (1500'-2500' COVER)

SEAM NAME	AVG. THICK.	PITCH 0-15°							PITCH 15-30°							PITCH 30-90°							CUMULATIVE TOTALS - RECOVERABLE RESERVES									SEAM NAME					
		TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	RESERVE CLASS.	MINING METHOD	TONS RECOVERED (000's)	CALC. YIELD	AT SP. GR.	TONS WASHED (000's)	OPEN PIT MINING			UNDERGROUND CONVENTIONAL			UNDERGROUND HYDRAULIC				TOTALS (000's TONS CLEAN)				
																							PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED						
D	5							4,610	C	C																											
C	*14							23,699	C	C																											
B	6							15,058	C	C																											
A	15							42,127	C	C																											
1	10							26,572	C	C																											
5	8							21,479	C	C																											
6	6							15,921	C	C																											
7	*21							48,599	C	C																											
8	30							46,304	C	H																											
9	6							5,156	C	C																											
10	50							32,732	C	H																											
PROVEN																																					
PART. EXPL'D																																					
PROJECTED								282,257																													
TOTALS								282,257																													

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)(i)(a). (Area of unmined coal.) as follows:  
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 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 little direct evidence is available but where geological studies have indicated the continuity of the coal bearing measures. Coal seam thickness projected from adjacent areas.

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 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.

