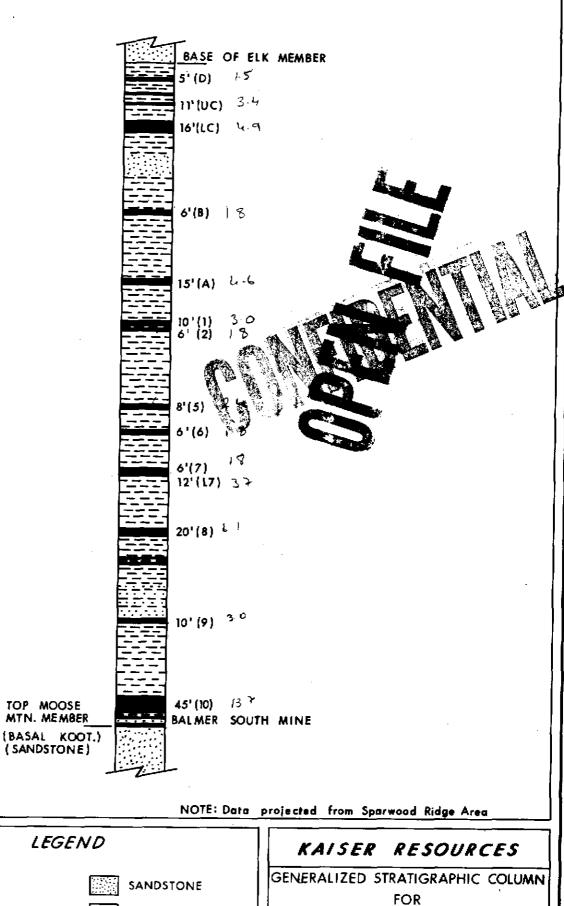
K. Michel South 74(6)A Reserve Estimate Charts Kauser Resources Ltd.



GEOLOGICAL BRANCH ASSESSMENT REPORT

00 349



LEGEND

COAL



SHALE



CONGLOMERATE



SILTSTONE

COAL THICKNESS (SEAM NO.)

MICHEL SOUTH

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

AREA: MICHEL SOUTH

TABLE Nº: 34

A TOTAL STATE OF

RESERVE ESTIMATE - (0-1500' COVER)

SEAM A	-		PI	TCH C	) - 15°		PITCH 15°-30°								PIT	CH 30	°-90°			CUMULATIVE TOTALS - RECOVERABLE RESERVES									
	AVG	TONS IN	<u> </u>			TONE	TONG IN				<del>-</del>	<del> </del>	TONE	TONG IN	<del></del>	<del></del>		· · · · · · · · · · · · · · · · · · ·	01	OPEN PIT MINING						AL UNDERGROUND HYDRAULIC			
	тніск.	TONS IN PLACE (000's)	RESERVE MINING CLASS. METHOD	RECOVERED (000's)	YIELD SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	CLASS.	METHOD	TONS RECOVERED (000's)	YIELD	SP. GR	TONS WASHED (000's)	TONS IN PLACE (000's)	CLASS, METHOD	MINING TONS CAL METHOD RECOVERED YIEL (000's)	YIELD SI	AT TON P. GR. WASH (000's	ED PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	TOTALS SEAM	
D	5						8,731	c	C				•																
c '	* 14						16,368	c	<u> </u>					•						,	•								
В	6	····		•			6,063	c	G							,													
A	15						10,290	С	c																				
	10	•					5,329	C																		,			
_5	8						13,290						*																
6	6	· · · · · · · · · · · · · · · · · · ·		·																									
7	*21																												
8	30			,																									
9	6																												
10	50	·	·	<del></del>									·																
						<u> </u>																							
																							·						
				·											,									-					
					<u> </u>					,			<del></del>																
PROVEN	<u> </u>		_		_				•	<u> </u>		1		<u> </u>				<del>-</del>						_					
PART. EX			_		4						_				_														
PROJEC	TED ·						60,071				<u> </u>															· · · · · · · · · · · · · · · · · · ·			
TOTA	ALS				4		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) I ou, 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 221/2° 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 (I-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 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.
- 0 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 Nº

AREA

MICHEL SOUTH

TABLE Nº: <u>35</u>

RESERVE ESTIMATE - (1500-2500'COVER)

		PITCH 0-15° PITCH 15°-30°											PITCH 30°-90°								CUMULATIVE TOTALS - RECOVERABLE RESERVES											
SEAM	AVG	TONS IN	RESERVE MINI	NG TO	NS CA	IC AT	TONS	TONS IN	RESERV	FMINING	TONS	CALC	ΔΤ	TONS	TONS IN	RESERVE	INING	TONS	CALC	ΔΤ	TONS	OPE	EN PIT MI		UNDERGRO	OUND CON	ONVENTIONAL UNDERGROUND H			YDRAULIC		SFAM
SEAM NAME	тніск.	PLACE (000's)	CLASS. MET	TONS THOD RECOVER (000's)	VERED YIE	LD SP. GR	TONS WASHED (000's)	TONS IN PLACE (000's)	CLASS.	METHOD	RECOVERED (000's)	YIELD	LC. AT LD SP. GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	CLASS. M	ETHOD R	(000's)	RED YIELD	SP. GR.	TONS WASHED (000's)	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED	PROJECTED	TOTALS (000's TONS CLEAN)	NAME
0	5							4,610	c	C													.*						†			
_ ç	*/4							23,699	C	C														•					<u>.</u>			
B	6				•			15,058	C	c																						
A	15							42,127		C													,									
	10	<u> </u>						26,572		c	•										·									,		
_ 5	8							21,479		C																						
6	6	,						15,921		C					<u> </u>																	
7	*21							48, 599		C																						
8	30							46,304		14									- 													
9	6							5,156	C	c																						
10	50							32,732	c	H				·				<u> </u>														
ļ																															,	
												·								· · · · · · · · · · · · · · · · · · ·												
														- <del>-</del>														•				
		<del>-</del>									•										,											
PROVE	<u> </u>		_	<u> </u>					_					<b>.</b> ,			·					·					_					_
PART. E	<u> </u>	· · · · · · · · · · · · · · · · · · ·	_										<b>.</b> - √.				<u> </u>	·				_										<b>」</b>
PROJE	CTED ·		_					282,257			,	<u> </u>								<u>-</u>	+											
ТОТ	ALS							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) I 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 159-30° pitch -correction of 221/2° 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 (I-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.

AREA: TABLE Nº: AREA: MICHEL SOUTH

TABLE Nº: 36

## RESERVE ESTIMATE - (+2500' COVER)

	1		<del></del>		<del></del>	THE PRINT				·	<del></del>				<del> </del>					<del></del>	·				<del></del>					
SEAM AV(		Pi	TCH C	) - 15°			PITCH 15°-30°								PITO	CH 30	)°-90	) <b>°</b>		CUMULATIVE TOTALS - RECOVERABLE RESERVES										
SEAM AVG	TONS IN	PESEDVE MINING	S TONS	TONS IN RESERVE MINING TONS CALC. AT TONS PLACE CLASS. METHOD RECOVERED YIELD SP. GR. WASHED								TONS IN RESERVE MINING TONS CALC. AT PLACE CLASS. METHOD RECOVERED YIELD SP. GR.						EN PIT MI		UNDERGROUND CONVENTIONAL UNDERGROUND HYDRAULIC										
SEAM AVG. NAME THICK	TONS IN PLACE (000's)	RESERVE MINING CLASS. METHOD	RECOVERED (000's)	YIELD S	AT TON SP. GR. WASH (000	S TONS IED PLAG s) (00	CE CLAS	SS. METHOD	RECOVERED (000's)	YIELD	SP, GR.	TONS WASHED (000's)	TONS IN PLACE (000's)	CLASS	. METHOD	RECOVERED (000's)	YIELD	SP. GR.	TONS WASHED (000's)	PROVEN	PARTIALLY EXPLORED	PROJECTED	PROVEN	PARTIALLY EXPLORED		PROVEN	PARTIALLY EXPLORED	PROJECTED	TOTALS	S SEAM NAME
0 5																			<u> </u>	1	<u> </u>						1			
C *14																						•				li				
B 6																									-					
A 15					•																									
1 10		•				4,13	3/C	c																						
5 8			•			3,7	03 0	. c				······································							· · · · · · · · · · · · · · · · · · ·			• • • • • • • • • • • • • • • • • • • •								
6 6						<u> </u>	21 0		<u> </u>	<u>.</u>	<del></del>								<u> </u>											
7 *21						26,8	36 0	c		· · · · · · · · · · · · · · · · · · ·	• · · · · · · · · · · · · · · · · · · ·							·												
8 30	-					61,1	<i>30</i> c	H					-					<b>-</b>												
9 6						16,1	109 C	c				· · · · · · · · · · · · · · · · · · ·		•			· ·	_	<u> </u>											
10 50						141,	253 C	H					<b> </b>						,											
													<u> </u>																	
																						<u> </u>								
									<u> </u>				<u> </u>										*							_
													<u> </u>			<u> </u>														
PROVEN				_							_		<u> </u>	4								_		:	<u> </u>	······································		1		
PART. EXPL'I	) <del></del>			4							L			<b>.</b>							L		_			•				
PROJECTED	·					258,	683					·								<u> </u>	·····			···						
TOTALS						258,	683								<del>-</del>															

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) I cutyd. 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 71/2° applied to area.
- (b) For 15°-30° pitch -correction of 221/2° 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 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.
- by (a) bulk sample wash tosts from adits and/or tost site

OO349