URMISCA/60-82

3-10-50

(60)

ANALYSES OF TASMANIAN LIMESTONES

RECENT :

Campania
Low Head
Sorell
JERUSALEM PLAINS
KING ISLAND

TERTIARY :

Flinders Is.

Aerodrome
Blue Rocks
Dutchman
Emita
Killiecrankie
Lady Barron
Lughrata
Palana
Ranga
Whitemark
Wingaroo

Hunters Is.
King Is.
Marrawah
Redpa

PERMIAN :

Berriedale
Bothwell
Bridgenorth
Bridgenorth Forest Hill
Bronte
Brookstead
Cascade Brewery
Dalmayne
Dromedary
Fingal
Glenorchy
Karoola
Kingston
Margate (Marts Hill)
Mt. Nassau (Granton)
Mt. Nassau
Mt. Nelson (Whitton)
Mt. Nicholas
Mt. Peter
Picannini Creek
Picannini Point
Saltwater Lagoon
Silkstone
Sorell
Third River
GRAY

LOWER PALAEOZOIC :

Blythe River
Dawson Road
Flowery Gully
Flowery Gully Caves
Flowery Gully Lutwyche Quarry
Flowery Gully Quigleys Quarry
Golden Valley
Gunns Plains
Hampshire
Ida Bay
Melrose
Melrose and Paloona
Mole Creek
Precipitous Bluff
Railton
Round Hill
Smithton
MAYDENA.
GUNNS PLAINS
IDA BAY
LOONGANA.

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(3)

ANALYSES OF TASMANIAN LIMESTONES

1. Recent :

Locality	Reg. No.	$CaCO_3$	CaO	MgO	Insol.	Fe_2O_3	Fe_2O_3 / Al_2O_3	Al_2O_3	P_2O_5	Ig. Loss
Campania	547/49	66.25	37.1	1.7	23.5	1.7		2.1	0.04	
	558/49	70.71	39.6	1.5	18.0	1.8		2.1	0.03	
	559/49	22.32	12.5	3.7	53.7	2.9		6.1	0.01	
	560/49	66.60	37.3	2.9	18.0	0.9		1.5	0.01	
Low Head	40/50	77.32	43.3	0.6	17.2	1.00		1.0		
	41/50	94.46	52.9	1.0	1.6	0.2		0.2		
	42/50	55.71	31.2	0.8	37.4	1.7		1.4		
Sorell	303/49	76.60	42.9	1.0	14.4		3.0			38.8
	304/49	24.28	13.6	1.6	44.5		16.9			24.9
	451/49	88.21	49.4	0.8	8.4		0.5			
	452/49	63.92	35.8	1.3	28.2		3.0			
	453/49	78.21	43.8	0.93	11.68		5.0			
	455/49	82.75	46.34	0.64	10.30		3.12			
	456/49	82.12	45.99	0.86	8.72		3.60			
	457/49	51.78	29.0	1.9	28.1		9.5			
	458/49	80.89	45.3	1.7	9.7		3.2			
	459/49	46.07	25.8	1.3	34.8		9.3			
	460/49	51.96	29.1	1.8	24.3		14.3			
	461/49	57.32	32.1	1.1	25.6		9.5			
	462/49	64.82	36.3	1.8	19.5		6.4			
	463/49	48.57	27.2	0.9	29.1		11.1			
	464/49	57.32	32.1	1.1	26.2		8.2			
	465/49	57.67	21.1	1.1	38.8		12.3			
	466/49	83.55	46.79	0.97	7.88		3.76			
	467/49	79.80	44.69	1.08	10.94		4.0			
	468/49	69.94	39.17	1.19	18.16		5.6			
	469/49	84.80	47.49	0.62	6.66		4.28			
	470/49	82.03	45.94	0.68	10.5		3.0			
	471/49	80.60	45.14	0.78	10.08		4.56			
	472/49	67.53	37.82	0.80	19.32		6.0			
	473/49	71.92	40.28	0.40	14.32		5.2			
	474/49	72.82	40.78	0.69	15.64		4.76			
	475/49	82.32	46.1	1.3	9.40		2.8			

	866/50	38.2	21.4	0.5	58.4	0.7		0.8		~~47~~ 18.2
	867/50	37.1	20.8	0.5	59.0	0.6		0.4		~~48.2~~ 17.8
	868/50	32.1	18.0	0.5	64.0	0.5		0.3		~~47.8~~ 15.4
	869/50	33.4	18.7	0.8	63.0	0.5		0.3		15.8
	871/50	34.1	19.1	0.7	61.0	1.0		1.0		17.3
	872/50	38.0	21.3	1.0	55.9	0.7		0.4		19.6
	873/50	40.0	22.4	1.0	55.4	0.6		0.5		19.9
	874/50	35.5	19.9	1.0	60.1	0.7		0.3		17.7
	875/50	35.2	19.7	0.9	60.2	0.7		0.4		17.6
	879/50	29.6	16.6	0.5	67.0	0.9		0.4		13.9
KING ISLAND	49/51									
CAMP CK. ↓	50/51	79.2	43.2	1.0	17.3		1.0			36.7
PORKY CK. ↓		80.3	44.3	0.6	10.4		2.2			41.9
DRIPPING WELLS	51/51	96.4	53.4	0.5	0.4		0.5			45.2
BADGER BOX	52/51	53	28.4	1.2	44.0		1.3			24.7
	53/51	60.4	32.5	1.2	35.1		1.1			29.1
BUTTONS	54/51	89.8	47.7	2.4	4.7		0.5			42.8
	55/51	78.1	41.6	2.0	17.4		0.6			36.7
SUPRISE BAY	56/51	91.3	48.2	2.7	3.2		0.2			44.0
LOORANA	57/51	69.4	37.1	1.6	26.7		0.8			32.6
	581 51	74.3	41.4	0.7	22.3		1.2			33.5

9) 1. Recent (Continued) :

Locality	Reg. No.	$CaCO_3$	CaO	MgO	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	Ig. Loss
Sorell	476/49	87.67	49.1	0.7	5.40		2.5			
	477/49	76.07	42.6	1.0	14.20		4.5			
	478/49	83.03	46.5	1.3	8.90		3.1			
	479/49	80.89	45.3	1.1	11.90		2.8			
	480/49	85.07	48.0	1.1	7.0		2.8			
		75.53	42.3	1.1	14.0		4.7			
		83.39	46.7	0.65	8.5		3.6			
		75.00	42.0	0.79	14.0		5.2			
		74.46	41.7	0.70	13.9		4.6			
JERUSALEM PLAINS	851/50	29.8	16.7	0.6	65.6	1.0		0.2		15.5
	852/50	38.0	21.3	0.7	57.7	0.7		0.5		18.6
	853/50	41.8	23.4	0.7	53.6	0.8		0.6		20.2
	854/50	39.8	22.3	0.9	56.3	0.7		0.3		19.3
	855/50	30.0	16.8	0.3	66.3	0.6		0.4		14.6
	856/50	42.0	23.5	0.7	53.7	0.6		0.4		20.4
	857/50	37.5	21.0	0.3	59.2	0.8		0.2		18.1
	858/50	20.4	11.0	0.5	77.8	1.0		0.2		9.6
	860/50	37.7	21.1	0.8	57.7	0.8		0.4		18.8
	861/50	37.0	20.7	0.9	59.0	0.6		0.4		17.6
	862/50	38.5	21.5	0.9	58.0	0.5		0.3		18.8
	863/50	37.5	21.0	0.8	59.8	0.5		0.3		17.7

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ANALYSES OF TASMANIAN LIMESTONES

2. TERTIARY :

Locality	Reg. No.	$CaCO_3$	CaO	MgO	Insol.	Fe_2O_3	Fe_2O_3 Al_2O_3	Al_2O_3	P_2O_5	H_2O	Ig. Loss
Flinders Is.											
Aerodrome	619/49	84.8	47.4	0.7	10.3	0.6		0.6	0.01		
"	620/49	58.8	32.9	0.7	36.4	0.9		0.7	0.02		
nr. "	634/49	58.6	32.8	0.6	31.9	1.4		3.3	0.01		
" "	635/49	92.3	51.7	0.7	3.2	0.2		0.3	0.01		
" "	636/49	52.0	29.1	0.6	38.0	1.3		2.5	0.01		
" "	637/49	65.7	36.8	0.5	26.9	1.4		2.2	0.01		
" "	638/49	74.0	41.4	0.6	19.0	1.3		1.0	0.02		
" "	640/49	86.6	48.5	0.9	4.7	0.7		0.5	0.01		
" "	642/49	58.2	32.6	0.7	34.7	1.3		0.4	0.03		
" "	788/49	69.81	39.1	0.6	23.6	0.8		1.2	0.03		
Blue Rocks	723/49	70.5	39.5	0.8	20.1	0.7		0.9	0.01		
"	724/49	66.07	37.0	0.8	26.0	1.3		1.8	0.02		
Dutchman	193/50	80.89	45.3	0.6	14.8	0.8		0.7	0.12		
Emita	617/49	75.17	42.1	1.2	19.2	0.4		0.5	0.03		
"	618/49	75.71	42.4	0.7	21.1	0.5		0.3	0.05		
"	641/49	92.85	52.0	0.8	0.2	0.1		0.3	0.03		
"	643/49	86.42	48.6	1.5	5.9	0.7		0.3	0.06		
"	670/49	89.82	50.3	0.8	0.4	0.1		0.1	0.02		
"	671/49	79.28	44.4	1.3	14.7	0.4		0.2	0.02		
"	672/49	94.10	52.7	0.7	4.0	0.6		0.6	0.06		
"	673/49	95.17	53.3	0.7	0.2		= 0.1		0.01		
"	674/49	77.50	43.4	1.9	16.0	0.9		1.2	0.05		
"	675/49	81.78	45.8	0.6	14.5	0.9		1.3	0.04		
"	789/49	86.96	48.7	2.4	3.7	0.4		0.5	0.05		
"	790/49	74.82	41.9	0.4	19.0	0.5		1.4	0.06		
"	797/49	61.42	34.4	1.1	32.5	0.4		0.4	0.04		
Killiecrankie	240/50	76.25	42.7	0.6	15.8	0.7		0.3	0.04		
Lady Barron	577/49	91.42	51.2	1.8	2.3	0.5		0.2	0.01		
"	578/49	84.46	47.3	1.7	9.7	0.7		0.6	0.02		
"	579/49	54.82	30.7	1.2	38.2	1.8		0.5	0.01		
"	580/49	69.28	38.8	1.6	24.7	0.9		0.2	0.02		
"	581/49	65.71	36.8	[illegible]4	28.0	0.9		0.6	0.01		

2. Tertiary (Continued) :

Locality	Reg. No.	$CaCO_3$	CaO	MgO	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	H_2O	Ig. Loss
Lady Barron	582/49	0.35	50.6	1.6	3.2	0.6		0.2	0.02		
Lughrata	550/49	66.96	37.5	0.7	2.64	1.5		1.5	0.06		
"	551/49	75.71	42.4	0.7	19.7	0.5		0.6	0.01		
"	552/49	85.71	48.0	0.7	9.4	0.3		0.2	Tr.		
"	553/49	89.46	50.1	0.8	7.0	0.8		0.5	0.06		
"	614/49	87.32	48.9	1.3	7.9	0.6		0.6	0.05		
"	615/49	94.82	53.1	0.8	0.5	0.1		0.4	0.01		
"	616/49	88.39	49.5	0.8	7.9	0.4		0.6	0.05		
"	666/49	70.5	39.5	0.8	24.4	1.2		1.1	0.04		
"	667/49	82.85	46.4	0.5	13.5	0.4		0.7	0.02		
"	668/49	83.92	47.0	0.8	13.2	0.7		1.0	0.02		
"	669/49	92.32	51.7	0.6	5.9	0.6		0.6	0.01		
"	791/49	67.14	37.6	0.5	27.5	0.8		1.2	0.05		
"	792/49	78.39	43.9	0.9	12.3	0.9		2.2	0.04		
"	793/49	77.32	43.3	1.0	13.3	1.2		2.1	0.05		
"	794/49	80.00	44.8	0.8	11.4	0.9		2.6	0.03		
"	795/49	86.78	48.6	1.2	5.9	0.6		1.0	0.05		
"	796/59	68.39	38.3	0.6	23.5	0.7		2.6	0.03		
"	238/50	76.96	43.1	0.6	15.6	0.9		1.2	0.02		
"	241 /50	93.39	52.3	0.6	4.4	0.5		0.4	0.06		
Palāna	239/50	85.53	47.9	0.9	10.2	0.7		0.3	0.08		
Ranga	725/49	77.67	43.5	0.7	18.8	0.9		0.3	0.15		
"	726/49	77.32	43.3	0.6	19.3	0.6		0.4	0.08		
"	727/49	71.96	40.3	0.7	24.4	0.7		0.3	0.11		
"	812/49	89.10	49.9	0.4	7.6	0.7		0.3	0.02		
"	813/49	86.78	48.6	0.4	8.7	1.2		0.9	0.02		
"	814/49	93.03	52.1	0.6	3.0	0.2		0.1	0.1		
"	815/49	62.14	34.8	1.1	33.6	0.4		0.2	0.04		
"	816/49	58.92	33.0	1,1	36.8	0.3		0.2	0.03		
Whitemark	548/49	92.13	51.6	0.5	4.5	0.4		0.4	0.02		
"	549/49	83.92	47.0	0.6	12.6	1.0		0.4	0.04		
"	621/49	84.46	47.3	0.6	12.6	1.1		0.9	0.06		

2. Tertiary (Continued) :

Locality	Regd. No.	$CaCO_3$	CaO	MgO	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	H_2O	Ig.Loss
Wingaroo	192/50	69.82	39.1	1.2	21.5	0.9		0.8	0.03		
"	194/50	69.28	38.8	1.1	22.1	1.0		1.6	0.04		
"	195/50	64.46	36.1	0.9	30.5	0.8		0.4	0.02		
Hunter Is.	427/33	69.91	39.15		22.60						
King Is.	1099/48	93.92	52.6	0.8	1.4		1.6				43.2
	1100/48	61.78	34.6	1.5	16.0		12.0				32.8
	1101/48	97.67	54.7	0.4	0.7		0.8				43.4
" (Seal R.)	48/51	92.5	51.1	0.6	4.4		2.6				41.7
MARRAWAH	257/44	82.66	46.29	7.58	1.2		0.88			Nil	43.66
	258/44	84.71	47.44	7.24	0.4		0.60			Nil	43.7
Redpa	654/47	64.82	36.3	20.0	0.2		0.90			1.86	39.6
	655/47	62.32	34.9	16.8	0.4		0.80			0.2	46.3
	656/47	70.35	39.4	12.4	1.5		1.20			0.1	44.9

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ANALYSES OF TASMANIAN LIMESTONES

3 **PERMIAN:**

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	MnO_2
Berriedale	740/22	76.19			0.68	21.2		0.2		1.36				0.21	
	741/22	66.01			0.72	29.52		1.36		2.36				0.57	
	742/22	77.40			0.72	18.20		2.15		1.27				0.70	
	743/22	75.22			0.55	20.88		1.84		1.32				0.15	
	744/22	70.36			0.80	24.2		2.36		1.64				1.06	
	745/22	82.35			1.09	12.4		0.74		1.5				1.5	
	746/22	80.73			1.09	13.8		0.54		1.56				1.41	
	747/22	81.45			0.87	13.84		0.48		1.44					
	748/22	54.30			0.87	38.8		1.02		2.98					
	749/22	71.58			1.09	22.0		0.95		2.45					
	791/22	78.49			1.00	17.4		1.48		2.0					
	792/22	71.49			0.72	24.36		1.25		2.31					
	793/22	88.18			0.58	10.0		0.94		0.86					
	794/22	65.29			0.58	29.08		1.7		2.30					
	795/22	75.5			1.01	19.8		1.56		2.52					
	796/22	76.37			1.02	19.88		1.48		1.86					
	797/22	80.08			0.36	16.84		1.4		1.79					
	812/22	81.31			0.59	14.44		1.29		2.07					
	813_/22	68.54			0.94	26.52		0.72		2.96					
		76.39			0.72	19.36		0.57		3.59					
		65.87			0.72	28.36		2.93		2.27					
		76.39			0.72	19.6		1.43		2.17					
		77.37			0.72	18.6		1.43		2.53					
		69.44			0.87	25.2		1.21		2.39					
		62.76			0.79	29.72		1.72		5.0					
		72.92				22.37			4.16						
		24.47				54.08			14.19						
		64.15				28.51			6.10						
Bothwell	157/50	23.75	13.3		1.1		68.2								
Bridgenorth	676/21	35.95			0.94	28.80		3.07		6.81				2.12	
" (Forest Hill)	716/21	18.55			2.15	56.39		4.33		13.27				1.90	
Bronte	172/47	59.06	33.08		0.84	31.92									

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3 PERMIAN (Continued):

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss.	MnO_2
Bronte	173/47	58.80	32.93		0.64	31.72									
	174/47	45.44	25.45		0.91	41.36									
	175/47	34.53	19.34		0.80	51.94									
	176/47	32.19	18.03		0.78	52.0									
	177/47	76.28	42.72		0.45	13.88									
Brookstead	1013/22	92.14									0.1				
Cascade Brewery W. of	643/47	70.80	39.65		0.32		25.76		1.20				0.14	32.00	
	644/47	14.01	7.85		1.00		76.52		4.68				0.56	8.32	
	645/47	39.37	22.05		0.48		55.00		3.04				0.20	18.08	
Dalmayne	209/23	57.83			0.72	37.0		1.14		2.86					
	482/26	90.23			0.60	7.2			0.44						
	486/26	79.25			0.75	17.4			1.0						
	599/26	72.00			0.86	24.6		2.86		0.34					
	624/26	77.60			0.29	20.16		2.29		1.54					
	625/26	75.32			0.36	20.28		3.86		2.68					
	626/26	71.69			0.50	23.52		2.00.		0.34					
	743/52	55.2	29.9				41.4							25.3	
	744/52	84.7 (Marl)	44.6				12.8							40.7	
Dromedary	267/20	72.49			0.38	23.71		3.35		4.45			0.35		
	745/52	66.9	37.0				28.9							29.9	
	746/52	76.8	42.5				21.2							34.3	
Fingal (Ransomes)	822/21	87.73			0.11	8.72		0.36		2.88					
" (Frodsley)	823/21	76.22			0.43	16.64		2.07		3.89			0.82		
Fingal	72/22	71.67			1.45	22.52		1.14		3.06					
Glenorchy	859/21	78.72			0.86	16.20		1.14		2.98					
	860/21	76.30			1.09	17.92		0.86		3.34					
	861/21	18.03			1.09	61.88		4.0		10.8		2.17		2.17	—
		79.25			0.86	13.12		2.0		3.5				1.55	
	247/22	76.57			0.47	16.0		1.44		4.8				0.73	0.37
	248/22	83.89			0.43	9.88		0.85		3.42				1.68	0.26
	249/22	64.52			0.50	28.88		0.85		3.46				1.44	0.55

3. Permian (Continued)

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	MnO
Glenorchy	250/22	65.86			0.89	26.52		1.14		3.74				1.5	0.44
	251/22	50.92			0.60	36.0		2.0		4.28				6.01	0.56
	252/22	73.0			0.72	19.64		1.26		5.06				0.6	
	253/22	78.18			0.28	16.88		1.4		2.08				1.54	
	254/22	44.17			0.79	44.6		2.1		6.06				1.42	
	255/22	71.75			0.57	20.6		0.84		4.16				1.35	
	256/22	54.26			0.57	34.36		1.36		6.34				2.08	
	257/22	77.64			0.28	16.6		1.4		3.32				0.52	
	258/22	68.54			0.57	26.6		0.7		3.5				1.38	
	259/22	71.04			0.14	22.92		0.98		3.62				0.76	
	260/22	25.53			0.72	60.16		3.52		8.56				1.47	
	261/22	19.36			0.80	64.6		3.03		10.45				1.79	
Karoola	/30	85.30			0.5	10.2			2.0					1.5	
	43/50	80.35	45.0		1.2		14.7	1.0		0.9					
Kingston	276/20	29.11		0.47		52.02			1.80				0.53		
Margate	639/47	72.41	40.55		0.39		23.68		1.76				0.30	32.38	
(Harts Hill)	640/47	81.69	45.75		0.40		15.44		0.92				0.18	36.72	
	641/47	78.83	44.15		0.39		17.60		0.96				0.10	35.87	
	642/47	79.73	44.65		0.43		13.44		0.84				0.04	37.80	
Mt.Nassau (Granton)	839/22	59.69			1.09	31.40		1.79		4.45					
		86.40			0.72	10.32		0.91		2.27					
		68.90			1.09	25.40		1.29		3.39					
		68.93			0.36	26.64		1.86		2.54					
		70.70			0.24	23.56		2.14		3.74					
	doubtful series	63.60			0.50	30.04		1.86		4.50					
		84.34			0.20	12.88		0.70		1.78					
		78.40			0.60	17.60		1.60		2.40					
		63.26			1.01	29.72		1.56		2.64					
		65.26			1.23	27.28		1.64		2.28					

3. Permian (Continued) :-

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	S.
Mt. Nassau	137/48	75.00	42.0		0.7	19.9		0.9		1.8				33.5	
	138/48	73.57	41.2		0.6	21.7		0.9		1.8				32.8	
	139/48	76.42	42.8		0.4	19.1		0.2		2.1				34.2	
	140/48	72.14	40.4		0.8	21.5		0.8		2.6				32.9	
	141/48	58.92	33.0		0.6	34.4		0.9		3.1				26.7	
	142/48	77.50	43.4		0.4	18.7		0.4		1.5				34.6	
	143/48	60.89	34.1		0.5	33.1		1.3		2.5				27.6	
	144/48	81.07	45.4		0.6	15.6		0.7		1.3				36.3	
	155/48	72.67	40.7		0.6	21.4		0.9		2.5				33.0	
	146/48	44.82	25.1		0.9	41.8		2.2		5.8				21.8	
	147/48	70.17	39.3		0.7	23.4		1.1		2.8				32.0	
	148/48	39.64	33.4		0.6	33.3		1.3		2.9				27.6	
	149/48	53.39	34.9		0.5	29.3		1.2		3.7				28.8	
	150/48	31.25	17.5		0.7	52.9		2.0		7.2				15.5	
	151/48	43.92	24.6		0.6	44.6		1.9		4.7				20.8	
	152/48	59.10	33.1		0.7	31.0		1.2		4.2				27.3	
	153/48	64.82	36.3		0.6	27.0		1.1		3.5				29.8	
	168/48	43.39	24.3		0.6	43.2		2.0		4.8				20.9	
	169/48	19.10	10.7		1.2	53.8		3.1		11.7				12.5	
	170/48	23.39	13.1		1.2	54.2		2.8		9.5				13.0	
	171/48	15.00	8.9		1.2	59.5		3.6		10.3				10.4	
	172/48	26.78	15.0		1.1	50.2		3.4		9.9				14.9	
	173/48	69.10	38.7		0.7	25.3		1.0		1.8				31.3	
	174/48	78.75	44.1		0.5	17.6		0.6		1.2				35.5	
	175/48	58.92	33.0		0.8	30.4		0.9		4.1				27.1	
	176/48	65.35	36.6		0.7	28.4		0.9		2.0				29.8	
	177/48	71.42	40.0		0.7	22.6		1.0		1.8				32.5	
	178/48	69.64	39.0		0.6	24.3		0.9		1.7				31.8	
	179/48	63.39	35.5		0.6	30.0		1.0		2.1				28.9	
	180/48	64.28	36.0		0.6	29.5		1.0		2.0				29.2	
	181/48	43.75	25/5		1.0	41.2		1.7		5.0				22.2	
	182/48	76.78	43.0		0.9	16.9		0.6		2.0				35.1	
	183/48	58.29	33.0		0.9	30.0		1.3		4.2				27.9	
	184/48	65.71	37.2		0.8	26.0		1.4		2.2				30.7	
	185/48	44.28	24.8		1.0	42.6		1.6		5.8				21.3	
	186/48	64.10	35.9		0.6	29.2		1.1		2.4				29.9	
	187/48	61.07	34.2		0.7	31.3		1.1		3.1				28.5	
	336/48	65.71	36.80		0.7	26.50		1.14		2.51	0.06			30.40	0.01

(19)

Permian (Continued) :-

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	MnO_2	TiO_2
Mt. Nelson	127/50	38.9	40.5	Some CaO as silicate	6.4		40.0	0.8		0.5	0.08			17.1		0.3
(J.Whitton)	169/50	32.67	35.9		0.3		46.2	1.1		0.7				14.4		0.2
	170/50	35.89	31		0.3		49.3	1.2		1.7				15.8		0.2
	171/50	16.78	9.4		0.5		75.8	2.2		2.8				8.2		0.6
	172/50	45 .89	42.2		0.1		34.6	0.7		1.2				20.2		0.1
Mt.Nicholas	228/20	69.25				23.00										
Mt. Peter	485/26	88.8			0.6	7.8			0.72							
	621/26	82.4			0.29	15.4		2.15		0.45						
	622/26	76.5			0.65	18.4		2.29		2.51						
Picannini Ck.	482/26	90.23			0.6	7.2			0.44							
	486/26	79.25			0.75	17.4			1.0							
	599/26	72.0			0.86	24.6		2.86		0.34						
	624/26	77.6			0.29	20.16		2.29		0.43						
	625/26	75.32			0.36	20.28		3.86		1.54						
	626/26	71.69			0.50	23.52		2.00		2.68						
Picannini Pt.		42.80			0.42	51.80			1.80							
Saltwater Lagoon	297/48	92.32	51.70		0.50	5.04		0.64		0.85	0.04			41.31	0.06	
Silkstone	87/21	88.48		0.32		9.32			1.61				0.29			
	88/21	71.96		0.80		23.26			3.10				0.27			
	89/21	76.68		0.49		16.52			4.88				0.31			
	90/21	82.87		0.36		10.20			4.60				0.24			
	91/21	85.20		0.07		11.31			3.10				0.18			
	93/21	70.10		0.14		26.11			2.60				0.30			
	94/21	62.41		0.07		30.52			5.70				0.54			
	711/21	86.75			0.21	7.80		1.00		1.72						
	821/21	89.38			0.32	18.08		1.08		1.20						
Silkstone (?)	737/21	83.45			1.15	12.24		1.57		1.83						
	738/21	83.90			1. 5	11.52		1.43		2.27						

3 Permian (Continued):-

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	MnO_2
Silkstone (?)	739/21	84.97			1.00	10.12		1.86		2.18					
	740/21	87.38			1.00	8.60		1.72		1.52					
Sorell Nth.	525/44	89.64	50.2												
	454/49		46.7		0.3		25.2		1.4						
	544/49	62.33	34.9		0.7		27.3	1.5		1.9	0.01				
Third River	706/30	90.27			1.40		1.4		1.6			(4.51 Organic Matter)			
	1597/30	81.70													
Glasjen Bay	882/50	50.5	28.3		0.1		45.6	1.6		0.9				23.5	
	883/50	48.75	27.3		0.5		44.4	1.9		1.8				23.8	
	884/50	49.1	27.5		0.46		45.3	1.7		1.4				23.5	
CAMPANIA	897/50	50.0 (Calc)	28.0		0.7		35.9	1.2		2.9				22.7	
	898/50	41.1	31.1		0.4		43.6	2.0		4.8				18.5	
	899/50	22.7	20.5		0.6		62.7	1.6		4.2				10.6.	
MARIA I.	974/51	85.0	47.6		0.8		12.4	0.7		0.5	H				
(Cont. on page 69A.)	975/51	78.0	43.7		0.9		17.6	0.6		0.7	"				
	976/51	83.5	46.8		0.8		13.8	0.5		0.5	"				
	977/51	75.9	42.5		0.6		21.1	0.7		0.7	"				

Permian (Continued)

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	Acid Insol.	$Fe_2O_3+Al_2O_3$	S	Ig.Loss	P_2O_5
Gray	375/51	58.4	32.7		0.6	36.2	1.9		28.1	0.1
	376/51	81.1	45.4		0.4	16.8	0.7		36.6	Trace
	377/51	85.7	48.0		0.5	12.8	0.5		38.0	0.1
	378/51	81.6	45.7		0.5	16.2	0.7		36.6	Trace
	379/51	69.7	39.0		0.5	26.7	1.3		31.9	"
	380/51	53.9	30.2		0.6	40.8	2.3		25.7	"
	381/51	70.7	40.6		0.5	23.6	2.0		33.4	"
	382/51	75.5	42.3		0.4	22.6	0.7		34.1	"
	383/51	57.3	32.2		0.6	37.3	2.3		27.4	0.2
	384/51	80.1	45.1		0.5	17.9	0.7		36.0	Trace
	385/51	76.8	43.0		0.5	20.8	0.7		34.7	0.2
	386/51	58.4	32.7		0.6	36.2	2.2		27.4	0.4
	387/51	75.0	42.0		0.4	22.4	0.9		33.8	Trace
MARIA LS.	978/51	75.0	42.0		1.0	19.4	2.0	0.11		0.12
	979	69.8	39.1		0.8	25.7	2.7	0.24		0.1
	980	73.2	41.0		0.9	21.8	1.9	0.12		Tr
	981	74.6	41.8		1.0	22.4	1.9	Tr		0.14
	012/51	76.9	43.1		1.0	18.9	1.6	-		Tr.

4. LOWER PALAEOZOIC

ANALYSES OF TASMANIAN LIMESTONES

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	FeO	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	TiO_2	MnO_2	S	FeS_2	Na_2O	K_2O
Blythe,R.	738/37	93.89	52.58		0.13		4.0		0.34		0.41	0.01		0.10	41.94	Nil	Tr.	0.05			
INDLEIGH	812/32	87.8	49.2	3.9	1.9		8.3		0.7		0.8				39.7						
Emmons Rd.,	498/43	90.35	50.60		1.02	4.52			0.50		1.66	Tr.		0.12	44.30			0.06			
	499/43	92.39	51.74		1.20	3.66			0.35		1.09	Tr.			41.62			0.09			
	500/43	92.94	52.05		1.12	2.96			0.40		1.28	Tr.		0.06	41.88			0.12			
	501/43	87.12	48.79		1.29	8.20			0.35		1.61	Tr.			39.08			0.15			
DARWIN	3/51	88.9	49.8		2.2		5.2		0.4		0.2	Tr.			41.7		Tr.				
Lowery Gully	274/24	93.44			2.17	2.48			0.58		0.62										
	275/24	96.12			1.45	1.60			0.72		0.08										
	276/24	91.75			3.62	2.52			1.14		0.14										
	304/24	96.62			0.81	1.80			0.56		0.64										
		93.72					5.35			0.55				0.20							
		94.00					0.98			3.15				1.87							
		95.45					1.85			1.65				1.05							
" (Caves)		95.65		0.83		1.61				1.70				1.18							
" (Lutwyche Quarry)		95.40		1.22		1.44				1.79				0.13							
" (Quigleys Quarry)		94.75		1.17		0.98				2.81				0.20							
Lowery Gully																					
	11/50	96.78	54.2		1.6		0.6		0.1		0.1	0.1									
	12/50	91.78	51.4		3.7		0.7		0.4		0.1	0.1									
	13/50	95.71	53.6		1.2		2.1		0.2		0.03	0.1									
	14/50	84.64	47.4		3.5		7.9		0.3		0.1	Tr.									
	15/50	78.92	44.2		8.9		2.0		0.9		0.2	0.01									
	16/50	91.6	51.3		2.0		4.1		0.6		0.2	0.01									
	17/50	92.31	51.7		1.1		5.8		0.2		0.1	0.02									
Lowery Gully	11/50		Tr.		2.53	70.80			0.99		18.71					1.5			0.41	5.19	
Analyses of	12/50		Tr.		2.66	67.28			1.42		20.0					1.94			0.34	6.25	
Acid Insol.	13/50		Tr.		2.14	80.28			0.56		12.12					0.72			0.19	3.66	
or above)	14/50		Tr.		0.85	91.64			0.28		5.18					0.34			0.23	1.20	
	15/50		Tr.		2.39	72.92			0.78		16.90					1.16			0.50	5.06	
	16/50		Tr.		2.20	74.96			0.50		16.23					0.87			0.40	4.76	
	17/50		Tr.		1.00	91.16			0.21		6.05					0.34			0.40	1.44	

4. Lower Palaeozoic (Continued) :-

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	FeO	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	TiO_2	MnO_2	S	Na_2O	FeS_2
Melrose & Paloona	139/37	90.0	50.24		0.62		8.52		0.77		0.17	0.01		0.06	39.6		0.01	0.04		
	140/37	90.25	50.70		0.49		7.88		0.90		0.24	0.01		0.06	39.54		0.01	0.05		
	141/37	91.75	51.34		0.78		6.56		0.49		0.17	0.01		0.06	40.44		0.01	0.03		
	142/37	95.0	53.22		1.0		3.64		0.34		0.14	0.01		0.06	41.5		0.03	0.06		
	143/37	90.0	50.50		1.84		5.28		0.70		0.34	0.01		0.06	41.76		0.03	0.06		
	144/37	90.0	50.24		0.72		8.00		0.77		0.49	0.01		0.10	39.72		0.01	0.06		
	145/37	90.15	50.64		0.76		7.36		0.62		0.40	0.01		0.10	39.84		0.01	0.04		
	146/37	88.50	49.48		0.72		9.64		0.92		0.40	0.01	0.10	0.08	38.0		0.03	0.19		
	147/37	90.25	50.7		1.12		6.00		0.56		0.70	0.01		0.08	40.8		0.01	0.03		
	148/37	91.2	51.1		0.72		5.68		0.92		0.68	0.01		0.10	40.9		0.03	0.03		
	149/37	90.1	50.5		0.44		7.28		0.70		0.85	0.01		0.08	40.22		0.04	0.03		
Mole Creek	71/2	73.71			0.36	3.44			1.14		1.50									
	340/21	81.78			1.82	13.42			1.18		1.56									
	648/21	91.46			1.09	4.52			1.07		1.73			0.06						
		97.28			0.14	1.40			1.07		0.33									
Precipitous Bluff	264/38	98.85	55.36		0.39	0.06			0.09		0.59	Tr.		0.08	43.02		Tr.	0.19		
Railton	856/22	21.6			0.94	57.72			3.15		12.21				3.10					
	857/22	24.8			0.57	54.0			3.14		13.7				3.51					
	858/22	62.76			0.79	29.72			1.72		5.0									
	859/22	34.45			0.65	51.44			10.01		0.67				2.68					
	860/22	83.98			1.16	9.32			1.56		2.02									
	882/22	86.13			1.09	8.0			1.79		1.93									
	891/22	91.33			0.57	4.68			1.00		1.96									
	892/22	92.14			0.24	3.92			0.64		1.56									
	986/22	85.39			1.45	7.40			1.72		4.20									
	987/22	82.21			2.39	8.80			2.00		4.12									
	988/22	87.91			1.16	7.0			1.5		3.10									
	989/22	94.61			1.59	3.0			0.64		1.32									
	990/22	93.44			1.45	3.0			0.57		1.63									
	991/22	90.41			1.81	3.68			1.79		2.17									
	992/22	94.61			1.30	3.0			0.43		1.17									
	993/22	92.64			1.45	3.68			0.86		1.90									
	994/22	93.06			1.23	3.52			1.07		1.73									1.32
	/23	60.87			1.81	25.72			2.37		4.56									

4. Lower Palaeozoic (Continued):-

Locality	Reg. No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	FeO	Fe_2O_3	Al_2O_3	P_2O_5	SO_3	H_2O	TiO_2	MnO_2	S	FeS_2
Railton (Blenkhorns Quarry)		75.10			0.54	12.20		2.88		3.05	1.02	4.66	0.55				
Round Hill	215/48	77.67	43.5		3.81	10.12			2.29	1.45	0.03			38.04		0.03	
Smithton	1805/30	82.85	46.4	15.78	7.53	1.08			1.38	0.22	0.07			44.12	Tr.		0.11
	1996/30	96.83	54.23		0.50	0.52			0.56	0.36	0.07			43.30	Tr.		0.07
	1300/31	96.16	53.85		0.29	0.76			0.31	0.38				44.11	Tr.		
		96.05	53.79		1.72	0.48			0.56	0.24	Tr.			43.70			

4. Lower Palaeozoic (Continued)

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	SiO_2	Insol.	FeO	Fe_2O_3	$\frac{Fe_2O_3}{Al_2O_3}$	Al_2O_3	P_2O_5	SO_3	H_2O	Ig.Loss	TiO_2	MnO_2	S	Na_2O	K_2O
Golden Valley	/32	87.94	49.25		1.64	6.52			0.90		2.50	o,04	0,11		39.54	0.09				
Gunns Plains	737/37	69.39	38.86		6.02	14.12			1.20		3.45	0.03	0.14	0.16	34.72	0.16	Tr.	0.23	0.33	1.
Hampshire	504/43		44.46		3.42	29.20	40.04		0.72		3.11	0.13			18.62		0.24			
	/50	88.0	51.0		0.4		8.4			16					38.0					
Ida Bay		92.85	52.00		1.50	3.70					1.00				41.80					
		91.60		2.80		3.40	1.60	0.80												
		92.67		1.83		4.02				0.91				0.21						
		97.30		1.20		0.80				0.40				0.30						
	827/21	97.88			0.28	1.28			0.42		0.38									
	50/26	94.50			1.73	2.00				0.64										
	51/26	94.70			1.00	2.48				1.16										
	52/26	95.49			0.72	1.40				0.64										
	53/26	93.70			0.89	4.20				0.84										
	54/26	96.74			0.72	1.48				0.68										
	55/26	93.40			1.70	3.00				0.40										
	56/26	93.85			0.59	5.04				0.28										
	57/26	91.66			1.00	5.08				0.56										
	58/26	93.25			0.59	4.68				0.32										
	59/26	96.21			0.59	1.68				0.16										
	60/26	96.75			0.36	1.28				0.16										
	61/26	96.38			1.00	2.00				0.16										
	62/26	94.30			1.73	3.40				0.52										
	63/26	91.93			1.73	5.48				0.68										
	64/26	95.32			0.44	2.40				0.16										
	65/26	94.60			0.44	3.88				0.60										
	66/26	92.80			2.53	2.60				0.76										
	5/48	92.76	51.95		1.59	3.44			0.29		0.48	0.01		0.28	42.02	0.02				
Melrose	773/25	86.57			1.37	7.84			1. 82		2.70									
		90.84				3.68			1.79		2.17									
		93.12				3.30			0.89		1.65									
Melrose & Palcona	136/37	73.1	41.04		0.38		20.6		2.63		0.53	0.04	0.27	0.12	33.56		0.09	0.48		
	137/37	89.75	50.14		0.59		8.84		0.84		0.16	0.01		0.06	39.66		0.03	0.07		
	138/37	87.5	48.98		0.49		10.8		0.98		0.28	0.01		0.06	38.34		0.01	0.06		

LOWER PALAEOZOIC (Continued).

Locality	Reg. No.	$CaCO_3$	CaO	$MgCO_3$	MgO	Acid Insol.	Fe_2O_3 Al_2O_3	S.
Gunns Plains	666/51	84.2	47.2	4.5	2.2	9.7	1.2	0.2
	667/51	87.6	49.1	3.1	1.5	7.8	0.6	Below 1
	668/51	94.2	52.8	1.6	0.8	3.3	0.3	"
	669/51	88.5	49.6	1.8	0.9	8.1	0.7	"
	670/51	93.9	52.6	1.6	0.8	3.9	0.5	"
	671/51	89.9	50.4	2.1	1.0	7.2	0.6	"
	672/51	92.4	51.8	1.4	0.7	5.4	0.4	"
	673/51	93.1	52.2	2.0	0.9	4.4	0.5	"
	674/51	84.4	47.3	2.8	1.3	11.7	0.8	"
	675/51	69.8	39.1	8.7	4.1	19.4	1.4	"
	680/51	92.6	51.9	1.8	0.9	4.9	0.6	"
	681/51	85.0	47.6	4.9	2.4	8.5	0.8	0.1
	682/51	81.4	45.6	3.9	1.9	12.4	1.2	"
	683/51	88.7	49.7	2.2	1.0	7.7	0.6	Below 1
	684/51	91.4	51.5	1.9	0.9	5.4	0.4	"
	685/51	88.7	49.7	1.4	0.7	8.3	0.8	"
	686/51	93.0	52.1	1.2	0.6	4.4	0.6	"
	687/51	92.6	51.9	1.2	0.6	4.7	0.6	"
	688/51	84.1	47.1	1.5	0.7	12.8	1.1	"
	689/51	88.0	49.3	1.2	0.6	8.9	0.9	"
	690/51	86.6	48.5	1.2	0.6	10.8	0.9	"
	691/51	93.0	52.1	1.3	0.6	4.6	0.7	"
	692/51	90.0	50.4	1.4	0.7	7.2	0.7	"
	693/51	86.6	48.5	1.8	0.9	10.2	1.0	"
	694/51	85.1	47.7	1.7	0.8	11.8	1.0	"
	695/51	90.9	50.9	1.8	0.9	6.0	0.7	"
	696/51	88.7	49.7	2.6	1.2	7.3	0.8	0.1
	697/51	89.4	50.1	5.3	2.5	4.2	0.8	Below 1
	698/51	88.5	49.6	4.2	2.0	5.4	0.8	"
	699/51	85.5	47.9	4.4	2.1	8.3	0.6	"
	700/51	84.4	47.3	5.6	2.7	8.1	0.8	"
	701/51	77.6	43.5	5.9	2.8	14.0	1.1	"
	702/51	88.0	49.3	3.3	1.6	7.2	0.7	0.1
	703/51	82.5	46.2	3.6	1.7	12.0	0,9	Below 1
	704/51	86.4	48.4	4.5	2.2	8.6	0,7	"
	705/51	80.0	44.8	9.2	4.4	9.8	0.8	"
	706/51	88.0	49.3	5.0	2.4	6.5	0.8	"

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LOWER PALAEOZOIC (Continued)

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	Acid Insol.	Fe_2O_3 Al_2O_3	S.
Gunns Plains	817/51	85.3	47.8	7.3	3.5	6.4	0.8	0.1
	818/51	83.9	47.0	7.7	3.7	8.0	0.8	0.1
	819/51	90.5	50.7	4.2	2.0	4.7	0.6	"
	820/51	76.4	42.8	12.1	5.8	10.3	1.1	"
	821/51	79.6	44.6	7.7	3.7	11.6	0.9	0.16
	822/51	91.4	51.2	2.7	1.3	5.3	0.6	Below 0.1
	823/51	92.5	51.8	1.9	0.9	5.0	0.6	"
	824/51	87.3	48.9	4.6	2.2	7.4	0.7	"
	825/51	84.8	47.5	2.3	1.1	11.6	1.0	0.1
	826/51	94.8	53.1	2.1	1.0	2.6	0.4	Nil
MAYDENA	606/50	83.9	46.4		0.7	13.7	1.2	
A.N.M.	607/50	83.0	47.1		0.7	13.0	1.0	
	608/50	70.3	39.7		0.9	24.6	1.6	
	609/50	76.4	43.4		0.8	16.9	2.4	
	610 50	83.7	47.1		0.5	3.2	1.0	
	6 50	71.6	40.2		0.8	24.0	1.7	
FLORENTINE RD THE GAP.						39.9	3.1	

Lower Palaeozoic (Continued)

Locality	Reg.No.	$CaCO_3$	CaO	$MgCO_3$	MgO	Acid Insol.	$Fe_2O_3 + Al_2O_3$	S.	Ig.Loss
Ida Bay	408/51	97.5	54.2		0.7	1.9	0.5		43.0
	409/51	94.8	53.1		1.0	3.7	0.2		42.1
	646/51	90.5	50.7		1.2	5.8	0.4	0.1	
	647/51	92.2	51.6		0.8	5.7	0.4	Below 0.1	
	648/51	97.5	54.6		0.6	1.0	0.3	"	
	649/51	94.8	53.1		0.9	3.1	0.3	"	
	650/51	94.5	52.9		0.7	3.5	0.5	"	
	651/51	93.0	52.0		1.6	3.2	0.5	"	
Loongana	869/51	90.1	50.5	2.5	1.2	7.0	0.8		
	870/51	88.3	49.5	2.7	1.3	8.4	1.0		
	871/51	84.2	47.2	4.2	2.0	11.6	0.8		
	872/51	87.8	49.2	3.8	1.8	8.0	0.8		
	873/51	94.4	52.9	2.5	1.2	3.2	0.4		
	874/51	86.9	48.7	4.4	2.1	8.4	0.6		
	875/51	86.2	48.3	5.2	2.5	7.7	1.0		