

MICROFILMED

6th October, 1971.

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REPORT ON:-*E.L. 19/69 MOLE CK. AREA*PROSPECTING OF THE DEN PLAIN AREA, TASMANIA.

DATES:-

Wednesday 4th, Thursday 5th and Friday 6th August, 1971.

REQUIRED:-

To find additional limestone reserves within the Exploration
Licence Area of a quality greater than 87% Available CaO. *CaO 7*

DEN PLAIN AREA:

This area consists of a high ridge of Limestone capped at the top by quartzite. On arrival at the site on the Wednesday afternoon Mr. Dickenson and I proceeded along the plain level edge of this ridge for about two miles towards the Allum Cliffs. and collected 13 samples of limestone from the outcrops. No paint was available at this time and so the sample areas are located by description only. However, on the Friday I again visited the area and collected samples from along the top of the ridge and under the Quartzite. All these locations were marked by painted white numbers 1 to 9. There was an object in view in collecting these samples, as I wished to find out if there was any alteration in the limestone from top to bottom, possibly due to leaching and cave formation. This does appear to be so from the results.

Of the 22 samples collected over this period 15 had an available lime greater than 87% with another 4 samples with available limes in the low to middle 80% range. This should thus designate this area as holding quite substantial reserves of good limestone for future consideration should it be necessary. North Side of Dog's Head.'—

Along the old APPM timber track we located the fault line of the Dog's Head at the end of the track where it meets the Mersey River. This fault is visible in a road cutting at this point. Here the limestone outcrop is capped by some fragmented quartzite. Five samples were taken across and from top to bottom of this outcrop. The results were similar to the previous samples taken from the Dogs Head and very poor.

Enclosed within this report are the analyses of the total 27 samples of limestone collected at this period.

The conclusion would be that the Den Plain area has decided possibilities as a reserve stock but that the Dog's Head area is not worthy of any further consideration.



Jack S. Dobson,
CHEMIST.

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COMPLETE ANALYSIS RESULTS OF TASMANIAN LIMESTONE SAMPLES.

LOCATION	DESCRIPTION	NUMBER	CaO %	MgO%	Available Lime %	Free Moisture	Loss on Ignition
Dog's Head	Roadside cutting, End of Track near Mersey River. Top.	1 Thur 5th Aug.71	43.68	4.20	57.76	0.172	39.97
Dog's Head	Roadside cutting, end of APPM Track near Mersey River.	2 Thur 5th Aug.71	46.76	2.40	60.17	0.136	39.69
Dog's Head	Fault Line Roadside cutting. Midsection between top of road and Jut out.	3 Thur 5th Aug.71	45.92	0.20	47.48	0.204	36.64
Dog's Head	Roadside cutting top of fault on Mersey River side.	4 Thur 5th Aug.71	47.88	1.20	69.25	0.125	41.06
Dog's Head	Top of Fault Lower to Road.	5 Thur 5th Aug.71	49.28	2.00	73.49	0.102	40.91
Den Plain	Bottom of Ridge Moving West	1 Fri 6th Aug. 71 Painted No.	54.60	0.40	91.92	0.068	43.29
Den Plain	Bottom of Ridge Moving West	2 Fri 6th Aug.71 Painted No.	52.92	0.00	88.31	0.066	42.42
Den Plain	Top of Ridge Moving West	3 Fri 6th Aug.71 Painted No.	53.76	0.60	88.59	0.072	43.44
Den Plain	Top of Ridge Moving West	4 Fri 6th Aug.71 Painted No.	53.48	0.00	88.31	0.067	42.74

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COMPLETE ANALYSIS RESULTS OF TASMANIAN LIMESTONE SAMPLES.

LOCATION	DESCRIPTION	NUMBER	CaO %	MgO %	Available Lime %	Free Moisture	Loss on Ignition.
Den Plain	Top of Ridge Moving West.	5 Fri 6th Aug.71 Painted On.	52.08	1.40	85.27	0.076	41.83
Den Plain	Top of Ridge Moving West	6 Fri 6th Aug.71 Painted On	52.64	2.00	86.80	0.088	42.26
Den Plain	Top of Ridge Moving West	7 Fri 6th Aug.71 Painted On	53.76	0.20	94.34	0.047	43.34
Den Plain	Top of Ridge Moving West	8 Fri 6th Aug.71 Painted On	54.60	0.40	93.43	0.059	43.74
Den Plain	Top of Ridge Moving West	9 Fri 6th Aug.71 Painted On	54.04	0.40	90.43	0.064	43.13
Den Plain	Start of Road Down to plain First outcrop	10 Wed 4th Aug.71	54.04	0.40	91.33	0.082	43.30
Den Plain	Second outcrop at turn in the road to plain.	11 Wed 4th Aug.71	54.88	1.60	89.21	0.077	42.86
Den Plain	Third outcrop Near turn in the Road to Plain	12 Wed 4th Aug.71	54.32	0.20	91.33	0.075	43.12
Den Plain	Lower section of outcrop near Ayer's Rock like outcrop.	13 Wed 4th Aug.71	49.00	2.60	69.86	0.129	41.25

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COMPLETE ANALYSIS RESULTS OF TASMANIA LIMESTONE SAMPLES.

LOCATION	DESCRIPTION	NUMBER	CaO %	MgO %	Available Lime %	Free Moisture	Loss on Ignition.
Den Plain	Fossil outcrop Section at mid point along plain edge.	14 Wed 4th Aug.71	52.64	0.40	88.31	0.089	42.76
Den Plain	Further along about 100 yds. from fossil section	15 Wed 4th Aug.71	51.80	2.40	84.06	0.094	42.48
Den Plain	About 100 yds. further along from the previous outcrop.	16 Wed 4th Aug.71	54.04	0.00	91.33	0.052	42.67
Den Plain	$\frac{3}{4}$ way along plain edge just before cave area.	17 Wed 4th Aug.71	54.04	0.60	91.94	0.078	42.73
Den Plain	Just before cave formation side of hill.	18 Wed 4th Aug.71	54.04	1.20	91.62	0.131	43.27
Den Plain	Start of cave river system. Sample from cliff.	19 Wed 4th Aug.71	54.32	0.80	93.43	0.087	43.56
Den Plain	Cave section. Lower end part of over hang.	20 Wed 4th Aug.71	49.84	0.60	67.13	0.137	39.96
Den Plain	Cave section lower end of Den Plain area.	21 Wed 4th Aug.71	53.20	1.60	84.66	0.092	42.26
Den Plain	Cave section from over hang near end of Plain area.	22 Wed 4th Aug.71	51.80	0.40	74.89	0.133	41.25

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MOLE CREEK DISTRICT



AMG REFERENCE POINTS ADDED

AMG
442400 E
5398600 N

AMG
451800 E
5394100 N

-LEGEND-

- THRUST FAULT (TEETH ON UPPER PLATE)
- TEAR FAULT
- NORMAL FAULT WITH THROW
- ANTICLINAL AXIS WITH PLUNGE
- SYNCLINAL AXIS
- SYNCLINE OVERTURNED
- FORMATION BOUNDARY
- SAMPLING SITE
- CONTOURS (200 ft intervals)
- ROADS { fenced unfenced

SEDIMENTARY	
RECENT	ALLUVIUM Ra
&	SCREE, TALUS, OUTWASH Qt
QUATERNARY	RESIDUAL SOIL & GRAVEL
TERTIARY	LAKE SEDIMENTS Tas
TRIASSIC	UNDIFFERENTIATED
PERMIAN	UNDIFFERENTIATED Pm
ORDOVICIAN	CROTTY QUARTZITE
	GORDON LIMESTONE
	JUBIC QUARTZITE Qt
CAMBRIAN	UNDIFFERENTIATED Cu
PRE-CAMBRIAN	UNDIFF.

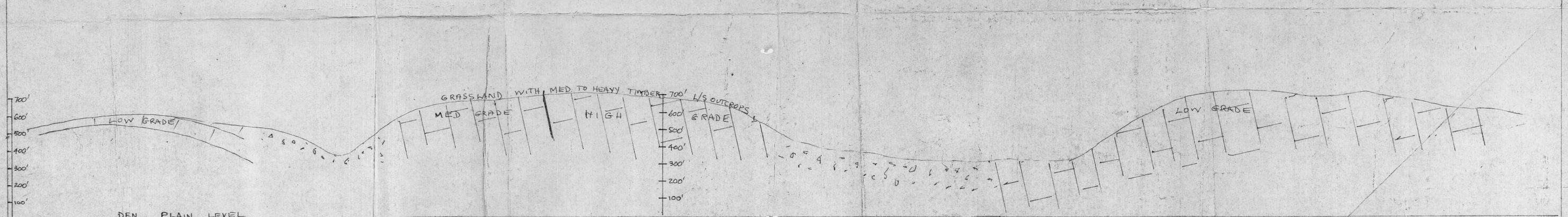
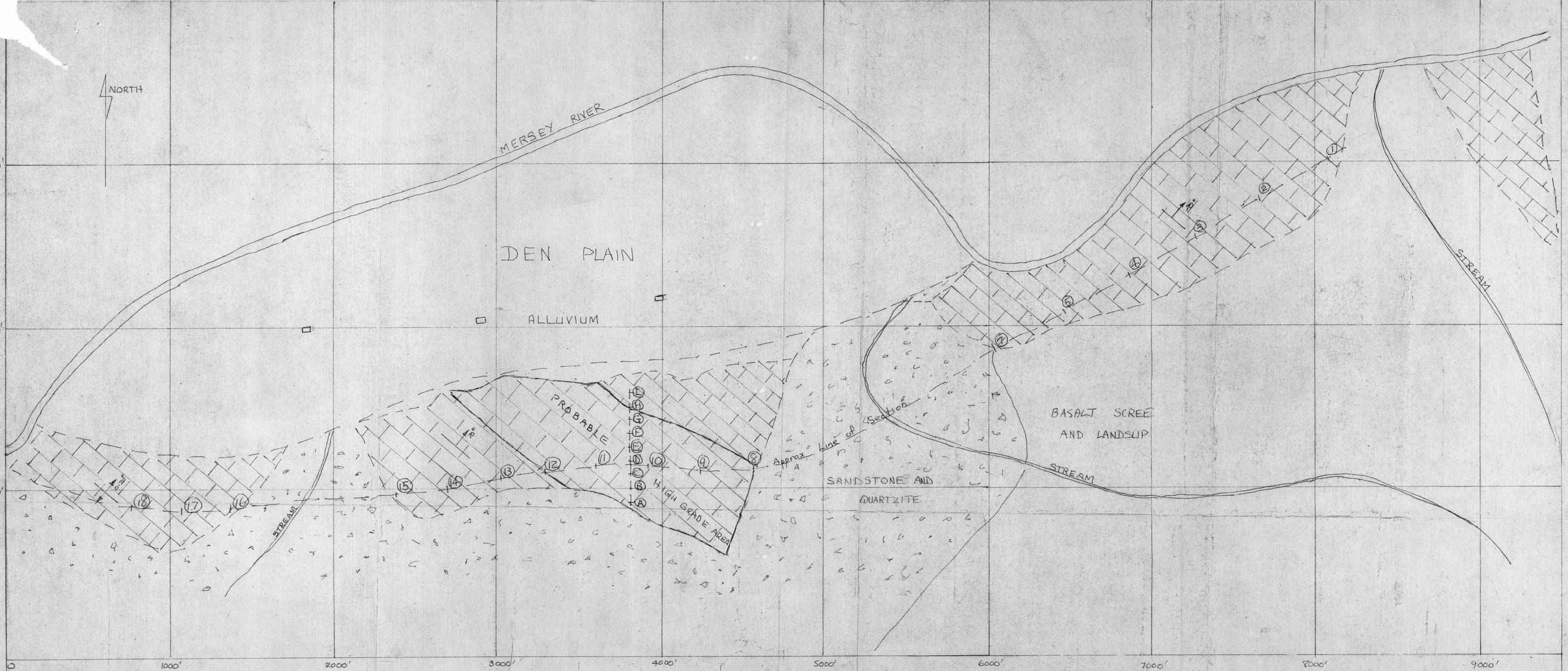
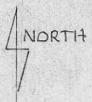


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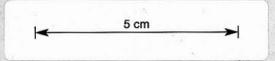
I. B. JENNINGS B.Sc. REGIONAL GEOLOGIST
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MOLE CREEK LIMESTONE LTD.
 MOLE CREEK
 TASMANIA

DATE: 13th AUG 1973
 SCALE: 330' = 1"
 FIELD WORK: J. DABSON
 DRAWN: J. BRUCE-01/17H

EXPLORATION
 SAMPLING TRAVERSE AND GEOLOGICAL RECONNAISSANCE
 DEN PLAIN
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