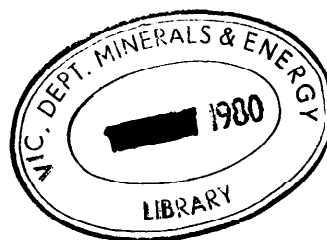


PALYNOLOGICAL EXAMINATION OF SAMPLES VPR 1 - 11  
AND SANR 15, 16, 101B FROM ONSHORE OTWAY BASIN  
SUBMITTED BY WESTERN MINING CORPORATION

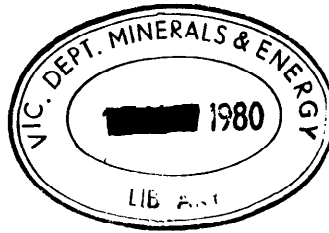
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OF  
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23 October 1979

PALEONTOLOGICAL EXAMINATION OF WESTERN MINING CORPORATION SAMPLES VPR 1 - 11  
AND SANS 15, 16, 101B

All of the samples examined are cuttings, with the exception of VPRC which is core material, and this should be taken into consideration when assessing the degree of reliability of the results.

The zonation is after Dettmann 1969, "Palynological Zonation of Lower Cretaceous Sediments of the Otway Basin, Victoria".

VPR1 **COLERAINE - 8001**

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
20	Good	<u>Crybelosporites striatus</u> Subzone
200	Fair	" " "
300	Good	" " "

VPR2 **GRASSDALE - 8002**  
~~WARRACORA~~

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
50	Good	<u>Cortospora paradoxa</u> Zone
380	"	" " "

VPR3 **MOCAMBORO - 8002**

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
20	Fair	<u>Crybelosporites striatus</u> Subzone
120	Good	" " "
200	Poor	? <u>Crybelosporites striatus</u> Subzone
290	"	<u>Crybelosporites striatus</u> Subzone
360	Good	<u>Cyclosporites hughesi</u> Subzone (Lower limit) of <u>Rouseisporites reticulatus</u> Unit

COMMENTS

The poor microfloral yield of the 200 m sample makes zone determination difficult but the presence of Foraminisporis asymmetricus indicates a lower limit of at least the F. asymmetricus Unit.

VPR4 **MERINGO - 8004**

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
30	Poor	<u>Dictyosporites speciosus</u> Zone (lower limit)
110	Good	<u>Crytelosporites striatus</u> Subzone
300	"	" " "
366	Poor	<u>Dictyosporites speciosus</u> Zone (lower limit)

COMMENTS

Both the 30 m and 366 m samples, which have poor microfloral yields, contain Foraminisporis dailyi, which ranges from the base of the D. speciosus Zone. Samples at 300 m and 366 m both contain Cooksonites variabilis, (ranges to top of the C. hughesi Subzone) and its presence at least in the 300 m sample is interpreted as reworking.

VPR5 CARAPOOK - 8001

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
40	Poor	<u>Cyclosporites hughesi</u> Subzone, <u>Foraminisporis asymmetricus</u> Unit
120	Good	<u>Cyclosporites hughesi</u> Subzone
230	Fair	<u>Dictyosporites speciosus</u> Zone
270	Poor	" " "
312	Good	<u>Cyclosporites hughesi</u> Subzone

VPR6 CASTERTON - 8013

40	Poor	<u>Coptospora paradoxa</u> Zone
342	Good	" " "

VPR7 MOCAMBORO - 8003

257	Fair	<u>Cyclosporites hughesi</u> Subzone
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COMMENTS

This sample contains Rouseisporites reticulatus and Cooksonites variabilis which places it in the R. reticulatus to F. asymmetricus Units.

VPR8 MUNTAM - 8002

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
11	Barren	

VPR9 NANGEELA - 8003

30	Good	<u>Crybelosporites striatus</u> Subzone
240	"	" " "

VPR10 ROSENEATH - 8003

40	Good	<u>Crybelosporites striatus</u> Subzone
160	"	" " "
215	"	? <u>Crybelosporites striatus</u> Subzone

VPR11 KANAWINKA - 8038

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
50	Barren	
72	Fair	? <u>Malvacipollis diversus</u> Zone - (Early Eocene)
140	Good	<u>Crybelosporites straitus</u> Subzone
290	Fair	<u>Dictyotosporites speciosus</u> Zone
332	Fair	Indeterminate

COMMENTS

Sample at 72 m contained Tertiary species most indicative of the M. diversus Zone. The sample at 290 m did not yield enough information for placement in a subzone and it contained a few reworked species (Triassic-Permian). The sample at 332 m contained Tertiary, Lower Cretaceous and Triassic - Permian species.

SANR15 PASCUMDALL

DEPTH (M)	YIELD	SPORE-POLLEN ZONE
210	Good	<u>Centospora paradoxa</u> Zone
342	"	" " "

SANR16 PASCUMDALL

315	Good	<u>Centospora paradoxa</u> Zone
372	"	" " "

SANR51 PASCUMDALL

99-102	Good	<u>Cyclosporites hughesi</u> Subzone, <u>Muraspora florida</u> Unit
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SANR59 NARACORTE

75-78	Barren	
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SANR63 NARACORTE

24-27	Poor	? <u>Muraspora florida</u> Unit
69-79	"	<u>Dictyotosporites speciosus</u> Zone

COMMENTS

The low yield in both samples makes zone determination uncertain, however, the shallower sample (24-27 m) contained M. florida, and the deeper sample (69-79 m) contained D. speciosus.

SANR87

NMCP

DEPTH

YIELD

SPORE-POLLEN ZONE

100

Barren

SANR88

NMCP

54-57

Barren

SANR93

NMCP

129-132

Barren

SANR100

NMCP

87-90

Barren

113-116

"

SANR101B

69-87

Poor

Indeterminate

COMMENTS

Only Tertiary species were recorded in this sample.

*V. Archer*

Vivienne Archer  
PALYNOLOGIST