#### ICI AUSTRALIA LIMITED - AUSTRALIAN FERTILIZERS LIMITED

EX.LORGIUS LIDENSE 1125
MOUNT DRUMMEND (Mittebah)

RELINGUISHMENT REPORT

Mount ISA February 1977

TO. U'N. MACKETT

CR 77/39

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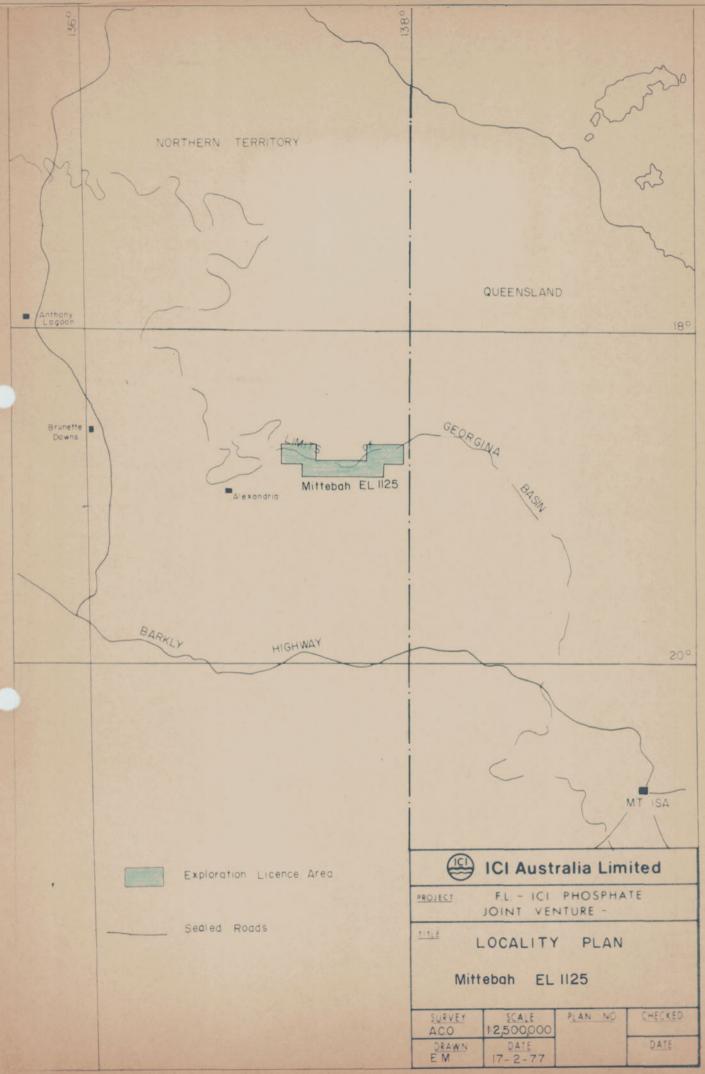
PLANS

No. 1125/1 Geology

Scale 1:100,000

No. 1125/2 Drill Hole Locations and

Graphic Logs Scale 1:100,000



#### 1. SUMMARY

Exploration Licence 1125 - Mt. Drummond (Mittebah) was granted by the Northern Territory Administration to ICI Australia Limited and Australian Fertilizers Limited for a 12 months term commencing 12th May 1976.

The area comprised some 1165 square kilometres (450 sq. miles) and is located close to the Queensland border some one hundred and twenty kilometres N.N... from Camoqueal.

The Exploration Licence was taken out to explore for deposits of high grade phosphate on the northern shelf of the Georgina Basin. The search was concentrated on the Lower Middle Cambrian Burton Beds - a biostratigraphic unit equivalent to the phosphatic Beetle Creek and Border waterhole Formations in queensland.

Between the date of granting the licence and September 1976, the area was geologically mapped primarily by aerial photograph interpretation at a scale of 1:100,000 and seven drill holes for 381 metres were sunk in previously untested parts of that zone, which was inferred as a possible host to phosphate mineralisation. Trace phosphate was found in two holes and none was found in the others.

It was concluded that the area was devoid of economic phosphate mineralisation. The Licence was relinguished in November 1076.

#### 2. EXPENDITURE

Exploration expenditures to the end November 1976 totalled \$8215 comprised as follows:

Labour and Consultants		2630
Contract Oraughting		79
Sampling		•
Earthmoving	)	
Orilling	)	4045
Supplies and Miscellaneous		561
E.L. Rental		900
		\$8215

#### 3. PREVIOUS INFORMATION

The regional geology of the area has been mapped and summarised by the Bureau of mineral desources on 1:250,000 series E/53-12 Mt. Drummond (1963).

Between July 1967 and September 1968, Mines Exploration Pty. Ltd., under Prospecting Authority 1776, mapped and drilled 21 rotary drill holes in the area covered by Cainozoic sediments forming a seasonal swamp between the Proterozoic rocks of the Carrara Mange to the north and the Camooweal Bolomites of the Barkly Tableland to the south, which was indicated as being underlain by lower Middle Cambrian Burton Beds.

Of the 21 holes drilled by M.C.F.L. only one - PDHM 10 - intersected phosphatic sediments of low grade in the basal part of the Burton Beds; the other drill holes establishing widespread clastic sedimentation in the Burton Beds - an unfavourable environment for phosphate daposition. The phosphate located in PDHM 10 was interpreted as being restricted to a gentle Basement high near the Hiddle Cambrian shore line. The best phosphate intersection was between 170 and 172.5 feet for 11.8%  $P_2O_5$  in a total phosphatic section from 152.5 and 202.5 feet.

The present programme was designed to test the area within 2-3 kilometres of PDHM 10 and an untested area closer to the Queensland border north of Carrara Aterhole.

#### 4.0. GEGLOGY

The stratigraphic succession established in the area;

Calmuzule - Czs - sand, laterite

- Czb - Glack soil

- unconformity -

MEUSZOIC? - M - Siltstone and sandstone

- unconformity -

MIDDLE CAMBRIAN - BURTON BEDG - Smb - Siltstone, chert, sandstone

CAMBOUEAL OULUMITE - Smd - Dolomite, limestone

LC .CR Cameriang - G1 - Landstone and siltstone

- Unconformity

LUGER PROTERUZUIC - 81 - Undifferentiated

#### 4.1. LUNER PROTEROZOIC

No work was done on the Lower Proterozoic sequence which outcrop along the northern boundary of the L.L. They are clearly mappable as such from aerial photographs, showing strong surface lineations.

#### 4.2. LOWER CAMBRIAN

Possible Lower Cambrian rocks were intersected in drill hole M-7-76.

No outcrops were observed. The drill cuttings comprised claystone and shale lying below very weakly phosphatic Middle Cambrian rocks.

#### 4.3. MIDDLE CALBRIAN

#### 4.3.1. <u>Burton Beds</u>

The Surton Beds do not outcrop within the Exploration Licences but do so quite extensively to the west and south west. The rocks are prodominantly siltstone and chert in the outcrops, but appear from drill-hole evidence to become calcareous and sometimes sandy towrads the base. They are frequently very weakly phosphatic in the exploration area and elsewhere. In the E.L. the Burton Beds are covered by Cainozoic sands and laterite.

#### 4.3.2. Campoweal Dolomite

Camooweal Dolomite outcrops in the eastern side of the area where the country is more dissected in the Carrera Creek drainage system. The rock is essentially Dolomite with chert lenses. Over the bulk of the E.L. the Camooweal Dolomite is covered by black soils.

#### 4.4. TEULZUIL

Mesozoic - probably Cretaceous rocks - may occur in the area overlying the Burton Beds. Positive identification has not been made but a section in Grill hole M-1-76 has been so interpreted. Mesozoic rocks do not outcrop in the L.L. but do occur to the north and east, unconformably on Lower Proterozoic rocks.

#### 4.5. CAINDZUIC - NECENT

Superficial deposits fall into two groups. Black soil over-lies the Camooweal Oclumite in the south of the E.L., and sands, silts and

gravels with isolated laterites overlie the Burton Beds in a belt across the north end central portions. This sandy alluviel area is flooded during the rainy season.

#### 5. DRILLING

Seven rotary/percussion holes for 318 metres were drilled in the area during August 1976. The holes were brilled by Rotary Drilling Pty. Ltd., using a rig of their own design. The holes and total depths are tabulated below (Coordinates: Australian Map Grid 1966):-

Orill Hole No.	T.D. Metres	Collar Co Metres N	-ordinates Metres E
Pi=1-76	40	7931000	740100
fi=2 <b>-7</b> 6	60	7934000	743000
! <b>⊹-3-7</b> 6	38	<b>7</b> 9 <b>28800</b>	746500
M-4-76	47	7929200	74 <b>7</b> 500
N-5-76	6	7922000	795000
fi-6-76	<b>3</b> 2	7923700	<b>7</b> 94000
r7-70	35	<b>792<b>7100</b></b>	791300

Orill cuttings were collected at 1 metre intervals throughout each drill hole. The samples were spot-tested for phosphate using an acid solution of ammonium vanado-molybdate (AVM). In the event only very weak indications of the presence of phosphate were obtained and none of the samples were retained for detailed analysis. Results of the spot-testing are recorded on the drill logs (Appendix 1) as either +ve AVM or -ve AVM.

#### 6. RESULTS OF EXPLORATION

The first four holes drilled, M-1+76 to M-4-76, were sited to test within two kilometres of Hole PDHM 10 drilled by Mines Exploration Pty. Ltd. Three of the holes intersected Burton Beds containing very weakly phosphatic material. One hole, M-2-76, was stopped in Cainozoic sedments at 60 metres.

The other three holes, M=S=76 to M=7=76, were sited to examine a section north of Carrera Materhole that was previously untested.

The section apparently covered the range of off shore sedimentary facies from Lower Cambrian to Camooweal Dolomite. The indications of phosphate were however completely negative.

#### 7. CONCLUSIONS

The exploration programme indicated that the phosphate mineralisation located in PDHM 10 was of extremely localised extent, whilst the eastern section was shown to be non-phosphatic.

It is concluded from the exploration that the area has no potential for an economic phosphate deposit.

The Exploration Licence was relinquished in November 1976.

### APPENDIX

DAILL HULL LOGS

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# ICI Australia Limited DRILLING DATA SHEET

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SAMI	PLE RVAL	STRATIGRAPHY	LITHOLOGY	TEST			SHAPIRO FIEL D TEST (% Pe O5) 0 2 5 10 20			A.F.L.		PETROGRAPHY RESULTS	
met FROM	res TO	STRATIGRAFIII	Ermotour			10	20	+	P <sub>2</sub> 0 <sub>5</sub>	Fe <sub>2</sub> O <sub>3</sub>	AL <sub>2</sub> O <sub>3</sub>	CO <sub>2</sub>	AND COMMENTS
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8	16.5	6	Charty pale				ļ	-		ļ			
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DRILLING [	ATA SHEET
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Area E.L. 1125 Mt. Drummond (MITTEBAH) Project Code NT 13														
Plan Ref														
Drill DRAULMATIC: Method Retary Finished 12-8-76														
Petrographic Rep Total Depth metres														
Assay Rep Logged by D. Machabt														
SAMPLE INTERVAL				SHAPIRO FIEL D TEST (% Pe O5)						A.F.L.	ASSAY	'S (	PETROGRAPHY	
me	tres	STRATIGRAPHY	LITHOLOGY	0	2	5	10	20	P <sub>2</sub> O <sub>5</sub>	Fe <sub>2</sub> O <sub>3</sub>	AL <sub>2</sub> O <sub>3</sub>	CO <sub>2</sub>		RESULTS AND COMMENTS
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