

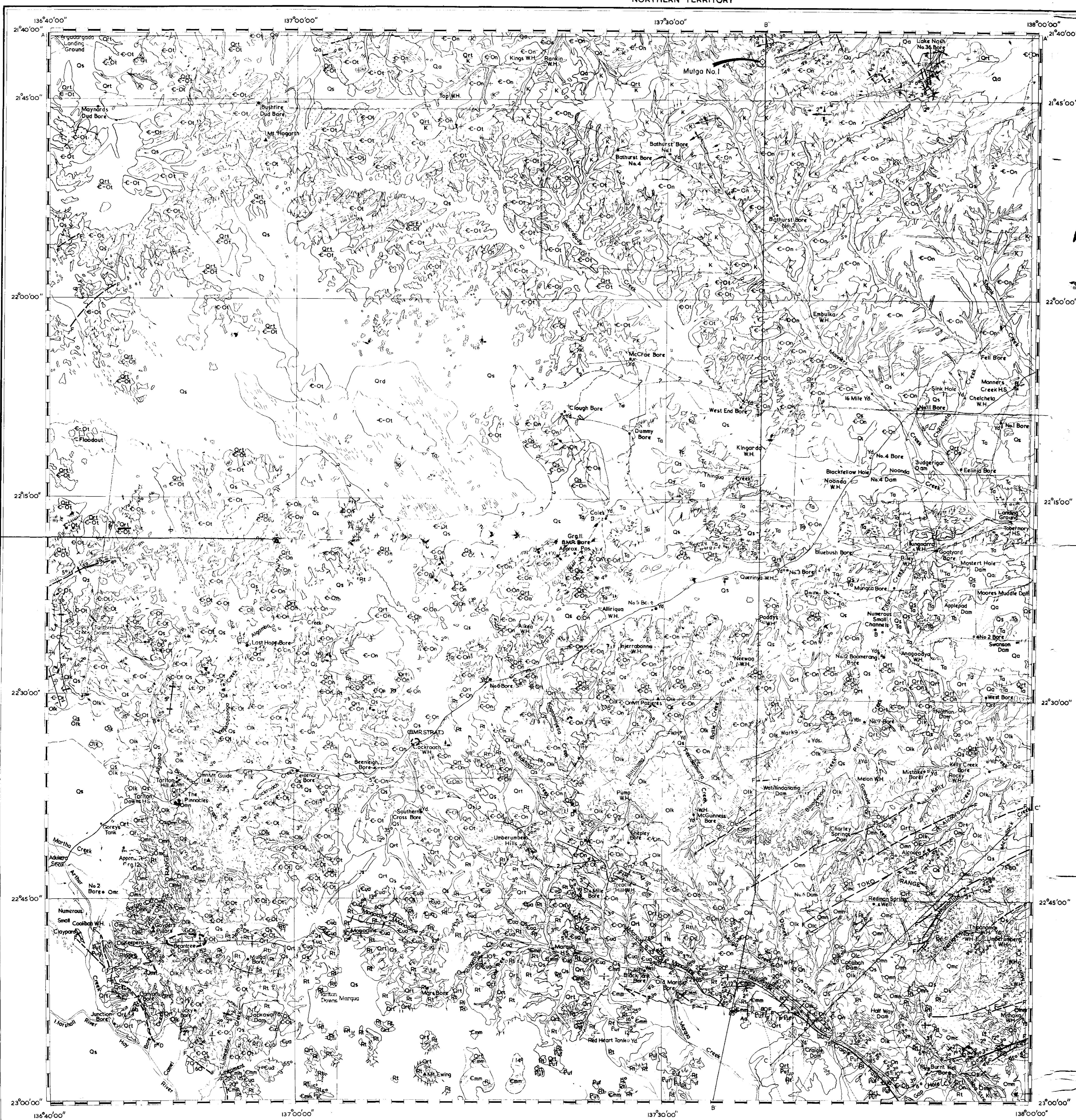
GEOLOGICAL MAP  
OP 63

NORTHERN TERRITORY

NORTHERN TERRITORY  
GEOLOGICAL SURVEY

PR 65/113

PLATE I



**REFERENCE**

<b>QUATERNARY</b>	<b>CAINOZOIC</b>
Qa	Alluvium, swamps etc.
Qs	Sand, sandpail.
Qrd	Sand dunes
Qrt	Scree, gibbers, talus etc.
<b>TIERTARY</b>	<b>TIERTARY</b>
T	Tertiary: Undifferentiated
Tc	Chalcidony-porcellanite capping over Austral Downs Limestone.
Ta	Austral Downs Limestone: Silicified limestone.
Tsl	Duricrust
Tte	Laterite Cappings.
<b>CRETACEOUS</b>	<b>MESOZOIC</b>
K	Conglomerate, sandstone, siltstone, mudstone - highly lateritized. Fossil plants.
<b>TRIASSIC</b>	<b>TRIASSIC</b>
Rt	Tarilton Formation: Boulder beds, sandstone, siltstone, mudstone. Poor fossil plants.
<b>UPPER DEVONIAN</b>	<b>UPPER DEVONIAN</b>
PD	Current bedded red-white sandstone, some conglomerate. (?) Fossil fish plates.
<b>MIDDLE ORDOVICIAN</b>	<b>MIDDLE ORDOVICIAN</b>
Omm	Mithaka Formation: Sandstone, siltstone, coquinae, fossiliferous.
Omc	Carlo Sandstone: Current bedded reddish clean sandstone. Poorly preserved fossils.
Omn	Nora Formation: Siltstone, sandstone, thin pellet limestone, coquinae. Richly fossiliferous.
<b>LOWER ORDOVICIAN TO LOWER CAMBRIAN</b>	<b>PALAEZOIC</b>
Olc	Coolibah Formation: Calcilitite, marly limestone, chert. Richly fossiliferous.
Olk	Kelly Creek Formation: Sandstone, siltstone, dolomite, calcarenite, chert. Fossiliferous.
<b>UPPER CAMBRIAN</b>	<b>UPPER CAMBRIAN</b>
On	Ninmaroo Formation: Calcarenite dolomite, sandstone, shale, siltstone, fossiliferous.
<b>MIDDLE UPPER CAMBRIAN</b>	<b>MIDDLE UPPER CAMBRIAN</b>
Cua	Arrethburga Formation: Dolomite, dolarenite, sandstone, limestone, chert. Poorly fossiliferous.
Cmm	Marqua Beds: Chert, shale, sandstone, platy blue limestone. Fossiliferous.
<b>UPPER PROTEROZOIC</b>	<b>UPPER PROTEROZOIC</b>
Pug	Grant Bluff Formation: Sandstone, siltstone, grey-wacke, undulatory bedding, worm tracks. Minor dolomite.
Puf	Field River Beds: Arkose, dolomitic arkose, sandstone, siltstone, minor boulder beds, dolomite.
<b>LOWER PROTEROZOIC</b>	<b>LOWER PROTEROZOIC</b>
Pgr	Coarse grained porphyritic granite, medium grained granite, gneiss, pegmatite. Intrudes meta-sediments of Arunta Complex.
<b>ARCHAIC</b>	<b>ARCHAIC</b>
Aa	Arunta Complex: Meta-quartzite, mica schist, amphibolitic schist, granite gneiss etc.

**GEOLOGICAL BOUNDARIES**

OBSERVED

APPROXIMATE

**BEDDING**

STRIKE AND DIP

VERTICAL

HORIZONTAL

TREND OF BEDDING

**FOLIATION**

INCLINED

VERTICAL

TREND OF FOLIATION

**FAULTS**

OBSERVED

APPROXIMATE

**FOLDS**

SYNCLINE AXIS WITH PITCH DIRECTION

ANTICLINE AXIS WITH PITCH DIRECTION

**JOINTING**

INCLINED

VERTICAL

JOINT PAT TERN

**MANROAD**

TRACK

RIVER OR CREEK

WATER HOLE

DAM ON STREAM

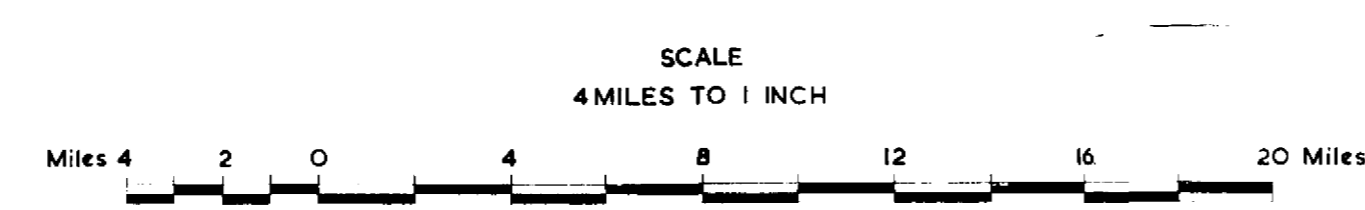
BORE

ABANDONED DRY BORE

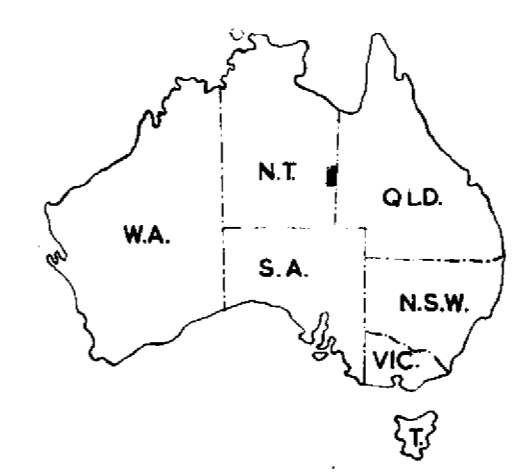
PROPOSED SITES FOR STRATIGRAPHIC BORES

INDEX TO ADJOINING SHEETS

ELKEDRA	SANDOVER RIVER	URANDANGI
HUCKITTA	TOBERMORY	GLENORMISTON
ILLOGWA CREEK	HAY RIVER	MT WHELAN



LOCATION DIAGRAM



Geology by R.B. Wilson, N. Pappalio, A. Cooney,  
G.C. Camp, & E. Carnish.  
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for ALLIANCE PETROLEUM AUST. NL.  
1963