



# **APPENDIX 8-4**

GSI BOREHOLE LOGS

# TARA PROSPECTING LIMITED

#### DIAMOND DRILLHOLE LOG

GSI Open File

Enx 405

File 8

Item 2

R.R.

Hole No 2330/1

Geology Log

calcarenite, stylolitic vaguely nodular, crinoidal occasional black cherts.

2.0 m Overburden 0.0 -No Core recovered 2.0 -12.5 m Light to mid grey micrite Stylolitic, Black spar, Bioclastic Brachiopodia, Slight leeching. 12.5 - 62.5 m Mid to dark grey fine calcarenite, silty intercalations Crinoidal, occasional stylolites. 62.5 - 81.5 m Light grey bioclastic sparry micrite, crinoids and brachiopodia Occasionally bleached and dolomitised, grades to, 81.5 - 104.5 m Initially shaley light to mid grey micrite, crinoidal, vague stylolites, bleached sections toward base. 104.5 - 140.8 m Dark grey to black silty

## TARA PROSPECTING LIMITED

## DIAMOND DRILLHOLE LOG

Hole No 2330/1 Cont/d

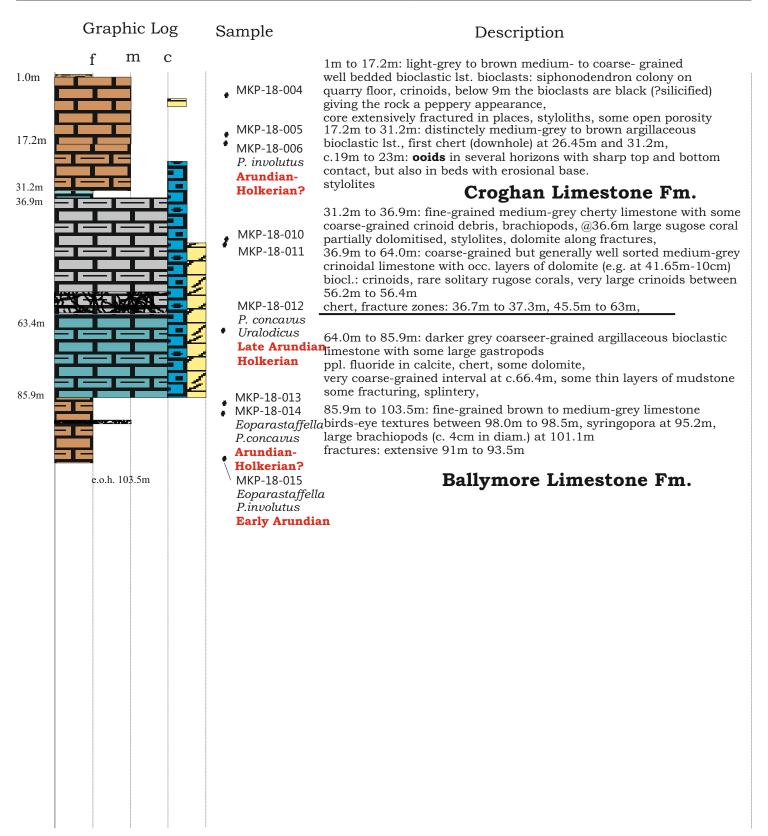
# Geology Log

140.8 - 197.4 m Vaguely bioclastic sparry micrite, light grey in colour.

197.4 - 213.5 m Mid grey biosparrite stylolitic silty intercalations highly crinoidal.

213.5 m End Of Hole.

Borehole Number/Name: GSI-18-001, Cullawinna (Gately Quarry)			
GridCoords: ITM 0587576/0753348		Scale: 1:1000	
Author: Dr.M.Pracht		Rockhead: 1m	
Year: 2018	Elevation: 74m	End of Hole: 103.5m	
Micro-palaeontology: Prof. I.D.Somerville 2018		Stratigraphy (top): Croghan Lst. Fm. Stratigraphy (base): Ballymore Lst. Fm.	



0m 50m

Borehole Number/Name: GSI-18-004, Cam (working Roadstone quarry)			
GridCoords: ITM 0589971/0744865		Scale: 1:1000	
Author: Dr.M.Pracht		Rockhead: 0m	
Year: 2018	Elevation: 79m	End of Hole: 428m	
Micro-palaeontology: Prof. I.D.Somerville		Stratigraphy (top): Croghan Lst. Fm. Stratigraphy (base): Kilbryan Lst. Fm.	

Graphic Log

Sample

Description

f m c

0.0 m

MKP-18-044
\* Paraarchaediscus
@ involutus
Paraarchaediscus
@ concavus
Late Arundian-

Holkerian

**Om to c.60m:** uniformly bedded light-grey and brown medium-grained bioclastic lst.

bioclasts: solitary corals and colonial (Solenodendron: @ 33.4m, 51.0m) brachiopods, echinod., crinoids,

intermittend karstified, calcite veins, stylolites

dolomitisation: some

fractures: extensively, near vertical: e.g. 0-4m, 59m

## Croghan Limestone Fm.

MKP-18-045

**60m to c.137m:** uniformly bedded light-grey and brown med.-grained bioclastic lst. and coarse-grained crinoidal biocl. lst.(e.g. 107.5m to 108m),

bioclasts: solitary rugose corals, brachiopods, echinod., crinoids, birds-eye textures, graded bedding (e.g. @ 81.5m)

dolomitisation: some

cc-veining: at 99.8m (10 cm thick)

chert: below 77.4m

fractures: extensively, near vertical: e.g. 59m to 77m,117.5m-120m,

124.5m to 126.8m, 130m to 131.5m,

intermittend karstified, calcite veins, stylolites

MKP-18-046

Eoparastaffella simplex

P. involutus

Arundian

0m 50m

137m

148m

202m

MKP-18-047 P. involutus Arundian

MKP-18-048

**137m 148to m:** medium-grey fine-to medium grained bioclastic limestone, poorly to moderately sorted, often wavy-nodular and irregularly bedded, with some heterolithic bedding (mud-flasers and laminae),

extensive dolomite: e.g. 139.5m to 140.9m)

at 140.7m: very thin (x mm) red-coloured, weathered band

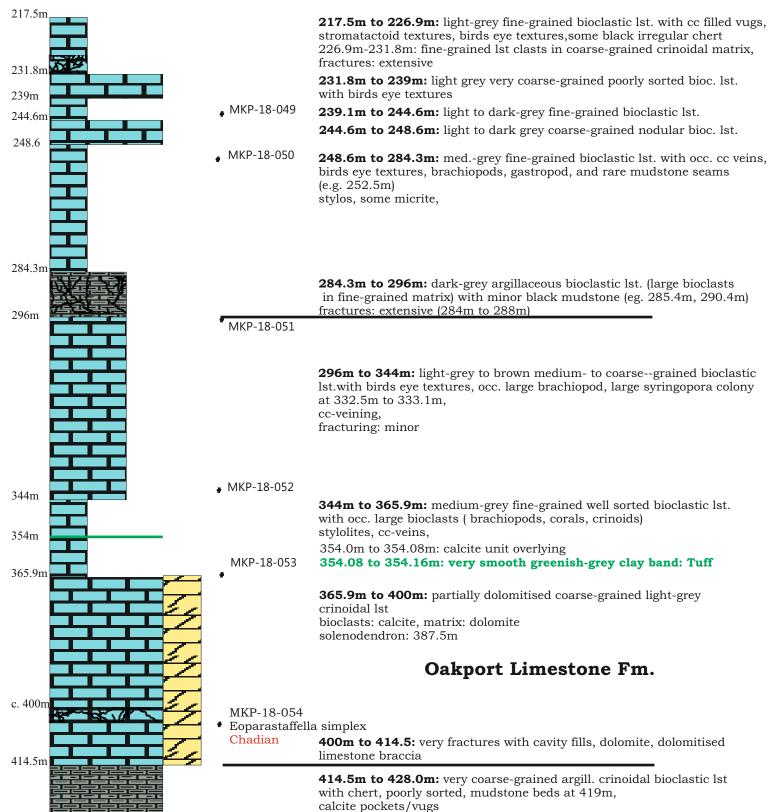
**148m to 202m:** uniformly bedded light-grey and brown fine to medium-grained bioclastic lst.

large solitary caniniid coral at 188.7m and syringopora: @ 162.0m karst: c.10cm thick vug filled with soft clay,

dolomitisation: extensive, often linked to fracture zones, fractures: extensively,e.g. 150m-162m, 163m to 164m, 168m to 171m, 176m, 180m etc.

## Ballymore Limestone Fm.

**202m to 217.5m:** uniformly bedded light-grey and brown med.-coarse grained bioclastic lst. with brachiopods, cerioid coral colony at 211.7m, karst: fractures filled with soft clay (e.g. 209m, 216-217m), fractures: extensive



e.o.h. 428.0m

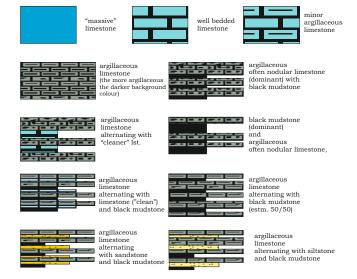
414.5m to 428.0m: very coarse-grained argill. crinoidal bioclastic lst

Kilbryan Limestone Fm.

# lithology symbology for logging Carboniferous rocks in core

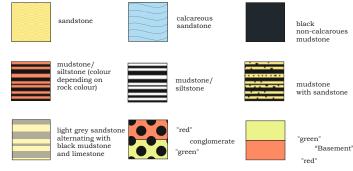


### limestone lithologies





## silici-clastic lithologies



### limestone lithologies with disitinguishing constituents







#### NOTES:

The colour chosen indicates the colour of the rock. Grainsize is indicated by width of symbol (fine, medium, coarse grained) Prportions of lithologies can be edited as necessarry.

### sedimentary/textural features





graded bedding



## other common features/lithologies

Tuff

cerioid lithostrotion

## "diagenetic" features

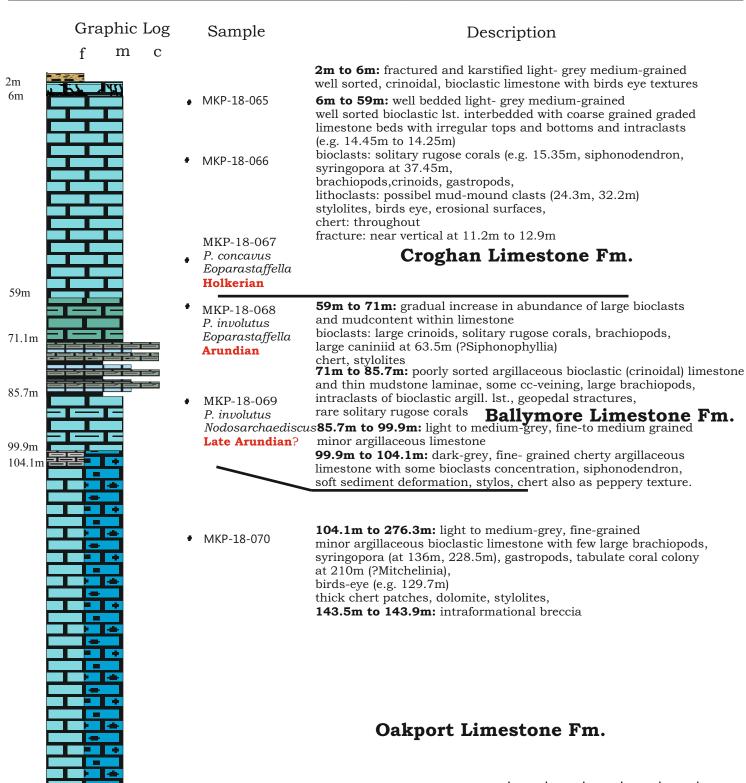






caliche and/or calcrete

Borehole Number/Name: GSI-18-110 Ballyforan, Co. Roscommon			
GridCoords: 0581519/0747386 (ITM)		Scale: 1:1000	
Author: Dr.M.Pracht		Rockhead: 2m	
Year: 2018	Elevation: 48m	End of Hole: 404m	
Micro-palaeontology: Prof. I.D.Somerville, UCD		Stratigraphy top: Croghan Lst.Fm.	



 $0\overline{m}$ 

50m

