Well Name: LLANBEDR (MOC Operator: IGS / UCW Aberystwyth	,																							SUP	PLEMENTARY DATA,	1. STRATIGRA	APHICAL DISTRIB	BUTION OF FORA	AMINIFERA IN THE HETTA	NGIAN-SINEMURIAN OF	F THE LLANBEDR (MOCHRA	AS FARM) BOREI
Scale : 1:1000 HETTANG Chart date: 11 January 2014 Monograp Authors: I	MINIFERA DISTRIBUTION CHART NGIAN - SINEMURIAN raph of the Palaeontographical Socety, Publication 6 s: Philip Copestake & Ben Johnson	341, Volume 167 (for 2013)																														
GD Boundary Key	. Absolute abundance (15mm:	50 counts)											Foraminife	ninifera Calcareous															Absolut	Foraminifera Agglutinatin	ng	
stratigraphy tostratigraphy nostratigraphy	minifera			sfadyeni e					sata				) E				ma rica				<i>Yerma</i>			rica -		rana ta	μ	-	iloculare		Significant l	Biostratigraphic Events
ft) Lithos one Ammo	E Forar e susica substriara	a tenera tenera a tenera tenuistriata aff. mucronata cf. ventricosa parvula subsiliqua nomala rva i planiconvexa aticosta udocommunis	inaequale nuensteri muensteri vrians varians calomorpha n liasicum	um madadyeni mac um madadyeni mac um northamptonense m strictum va lanceolata cerrua	a lanceolata cf. breoni suboligostegia tortilis issima arata vulata minima	iiasina brizaeformis 'erquemi barnardi srquemi sulcata 'ulcata tensis	osaria multicostata aphela na na tenuistriata a varians ntinensis na	whittakeri a nodigera terquemi vetustissima erquemi bicostata liassicum liassicum mitiva era	a Iongiscata Iongisc a? solecensis simplex usleri Yiata	auperata gr. saria vulgata gr. 'Tacrimaforma liassicum teres	n liassicum teres nitis ara implex reoni naequistriata rotracta gr. Imidium orbiculare a sinemuriensis	na prima praerugosa ina crenata ina paucicosta na ovata speciosus gr. initidana ina arbuscula	a paucicurvata terquemi terquemi tenera tenera form a matutina	ua lamellosa i apheilolocula iclaviformis ina cf. paucicurvata ina oclithica ina prima insignis	a paranodosaria involuta involuta rima incisa rruginea 1 lanceolata	segmentata urva urva urva urva urva urva urva urv	It pikettyi ssaria oviformis margarita dorsopla sbulata anchisphaen is mrecta cf. bartensteini sica	prima rugosa xxcostata ichra excelsa a varians haeusleri	a bangae sila mesotriassica minuta vasta rteheri mochrasensis	olioligera recrnua ssp.A recrnua ssp.A tenera pupa ? cf. compressa % perlucida ligitalis	agenoides onstricta vonstricta yularis vencostata vechyderma pachyd	asna prima insignis is exerata vtensis bliquecostulata kunzi	sti udoinornata rmeri	a tenera subprismat retensis sherborni triloculina 1.A margarita margarita	a robusta asidentatus paucicostata sleri nticulatacostata tublaevis sublaevis	sublaevis hannover. 1? inopinata is denticulatacarinat is erzingensis of. turgida iveutoburgensis aria dubia	urgoti 'ord sis mediomatricorum concentrica rquemi squamosa ntegra usa	Jausa bicornis f. neglecta orima spinata trigona trigona trivoluta striata tenera occidentalis C.C. sp. ynaria	prima interrupta victonica selfingensis selfingensis selfingensis selfingensis madadyeni tenui f. terquemi f. terquemi f. crassa selfingensis selfingensis selfingensis	s siliceus pattoris pattoris la liassica noides d' canui noides d' canui noides kingakensis a difflugitormis a sp. a tangentia thuringicus ensis lurassica A flagellum canningensis d, orvoi	a sablei a sp.A sp. fes favus les liasinus  CODI	Biostratigraphic Events ast Downhole Occurrence First Downhole Occurrence
Ones Hand Group Age Age Approximately 1123 Ag	Subzon  Subzon  Subzon  Subzon  Sample  Foguttulina lia	Paralingulin.  Paralingulin.  Prodentalina Prodentalina Prodentalina Aginulina ar Vaginulina pa Maginulina pa Maginulina pa Maginulina pa	Duoplanum .  Lenticulina ra  Nodosaria ct	Ophthalmidiu Ophthalmidiu Ophthalmidiu Palaeomiliolin Paralingulina (	Paralingulina Prodentalina Prodentalina Prodentalina Prodentalina Prodentalina Bullopora colli Bullopora glob	Cornuspira i   Ichthyolaria t   Ichthy	Pseudonodc  Reussoolina Spirillina infir Mesodentalin Nodosaria for	Nodosaria w Prodentalina Prodentalina Prodentalina	Paralingulin. Planispirillina Prodentalina . Lagena? hae. Nodosaria rad	Planularia p:  Pseudonodos  Reussoolina?  Loxostomum I.	Nodosaria ra Nodosaria ra Nodosaria si Nodosaria si Planularia br. Planularia inz Planularia pr. Praeophthalm Prodentalina s	Marginulina  Prodentalina  Prodentalina  Reussoolina  Astacolus spe  Nodosaria nitii	Prodentalina Prodentalina Ichthyolaria I Paralingulina Mesodentalina	Marginulina   Nodosaria at. Nodosaria ck Prodentalina Prodentalina   Prodentalina et.	Paralingulin:  Berthelinella  Marginulina pi  Palmula cf. fei	Procerolage Saracenaria Vaginulina c Marginulina c Prodentalina Prodentalina Prodentalina Prodentalina Prodentalina Redentalina Lagena liasica	modosaria p Planularia a. Pseudonodo Reinholdella Bullopora glc Incertae sedi Nodosaria po Prodentalina Involutina lias.	Marginulina   Marginulina   Marginulina   Planularia pu. Semiinvoluta Mesodentalin:	Neobulimina   Oberhausere   Paralingulina   Prodentalina   Profentalina   Reinholdella c.     Reinholdella c.	Nodosaria d. Paralingulina: Paralingulina: Prodentalina o	rrodentaline Nodosaria lɛ  Vaginulina o  Nodosaria reg  Nodosaria no  Reinholdella p	Marginulina    Marginulina    Vaginulinops  Nodosaria ho  Marginulina o,  Nodosaria cf.    Astacolus sem.	Vaginulina li: Tubinella pse Marginulina tu	Paralingulin:  Vaginulina tr.  Marginulina s.  Nubecularia t.  Palmula sp.  Vaginulina sp.  Reinholdella t.	Reinholdelle  Astacolus be Prodentalina  Nodosaria iss  Nodosaria del  Saracenaria se  Brizalino lizze	Saracenaria Saracenaria Spiroloculina Vaginulinopsi Prodentalina t Prodentalina t Prodentalina t Prodentalina t Prodentalina t Prodentalina t Vinelinino s	Vinelloidea I Vinelloidea I Vinelloidea I Vaginulinops Spiroloculina Ichthyolaria te Prodentalina ii Vacinulise I	Vaginulina c Produina c Produina i Vaginulina i Saracenella i Caracini i controloria ligita i Controloria ligita i Paralingulina sp Berthelinella s Controloria i igni	Reinholdelle  Marginulina ,  Haynesella F  Nodosaria as  Oberhausere  Podenthalmidiu  Prodentellina ci  Prodentellina ci  Acrulianmina ci  Acrulianmina ci	Ammodiscu. Glomospira, Glomospira, Glomospira, Haplophragn. Haplophragn. Lagenammin. Lagenammin. Lagenammin. Lagenammin. Tagenammin. Tokybammina. Trochammina.	Trochammin  Trochammin  Trochammin  Verneuilinoid  Verneuilinoid	
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6100'- - - - - - - - - - - - - - - - - - -	→ 1862.25 <b>S</b> → 1876.75 <b>S</b>	B 330																													∬t —FDO R? planiconvexa & LDO I. terqu	quemi barnardi @ 1876.75m
6200'- 1882.5 Jo 1882.5 Si Go La	ohnstoni 988.2 97 97 97 97 97 97 97 97 97 97	139  2  17   1  1   7  1		13(\$\overline{\partial}{2}\) 1? 1 (3) (2) (1)																											—LDO abundant R? planiconvexa @ 1: —LDO R? planiconvexa @ 1888.64m  —LDOs P. tenera collenoti & P. tenera deepest sample analysed	1885.65m a substriata @ 1903.65m
UPPER TAMASSICA																																

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Chronostratigrap Chronozone Subzone Subzone	Biozone Subzone Samples Samples	Eoguttulina liassica     Paralingulina tenera tenera     Paralingulina tenera tenuistriata     Prodentalina aff murronata	Prodentalina cf. ventricosa Prodentalina parvula Prodentalina parvula Vaginulina parva Reinholdella? planiconvexa  Dentalina pseudocommunis  Lenticulina muensteri muensteri	Nodosaria of. calomorpha  Dohthalmidium madadyeni macfadyeni  Ophthalmidium northamptonense  Palaeomiliolina lanceolata Paralingulina cernua	Paralingulina esseyana  Paralingulina lanceolata  Prodentalina cf. breoni  Prodentalina totilis  Spirillina tenuissima	Cornuspira liasina Cornuspira liasina Ichthyolaria brizaeformis Chithyolaria terquemi sulcata Lagena semisulcata Nodosaria metensis Pseudonodosaria multicostata Reussoolina aphela	Spirillina infima  Mesodentalina tenuistriata  Mesodentalina varians varians  Nodosaria fontinensis  Nodosaria whittakeri  Prodentalina nodigera  Prodentalina terquemi	Prodentalina vetustissima	Prantiaria pauporata gr.  Pseudonodosaria vulgata gr.  Reussoolina? lacrimaforma  Nodosaria mitis  Nodosaria simplex  Praeophthalmidium orbiculare  Prodentalina sinemuriensis  Mardinulina prima praeruosa	Prodentalina crenata     Prodentalina paucicosta     Astacolus speciosus gr.     Nodosaria nitidana     Prodentalina arbuscula     Prodentalina clavata     Prodentalina paucicurvata     Ichthyolaria terquemi terquemi     Modosaria apheilolocula     Nodosaria apheilolocula     Prodentalina ci paucicurvata	Prodentalina di. Padolon da Prodentalina oolithica Paralingulina paranodosaria Berthelinella involuta involuta Prodentalina glandulinoides Prodentalina torta Nodosaria crispata Reussoolina minutissima Lagena liasica	<ul> <li>Nodosaria pseudoclaviformis</li> <li>Pseudonodosaria oviformis</li> <li>Incertae sedis</li> <li>Nodosaria porrecta</li> <li>Prodentalina cf. bartensteini</li> <li>Involutina liassica</li> <li>Marginulina prima rugosa</li> <li>Semiinvoluta excelsa</li> </ul>	Mesodentalina varians haeusleri Oberhauserella mesotriassica Prodentalina vasta  Reinholdella dreheri Reinholdella? mochrasensis	t 6.085595	Reinholdella pachyderma pachyderma     Nodosaria hortensis     Vaginulina listi     Tubinella pseudoinornata     Paralingulina tenera subprismatica     Vaginulina metensis     Nubecularia triloculina     Vaginulina sp.A	Nedinducina robusta   Nodosaria issleri   Nodosaria issleri   Nodosaria denticulatacostata   Saracenaria sublaevis sublaevis   Brizalina liasica   Spiroloculina? inopinata   Vaginulinopsis denticulatacarinata   Prodentalina teutoburgensis	Pseudonodosaria dubia  Vinelloidea bigoti  Vinelloidea lordi  Spiroloculina concentrica  Ichthyolaria terquemi squamosa  Vaginulina clausa  Prodentalina bicornis  Marginulina prima spinata  Berthelinella involuta striata	Paralingulina tenera occidentalis  Ichthyolaria lignaria  Paralingulina testudinaria  Reinholdella pachyderma humilis  Marginulina prima interrupta  Haynesella pictonica	Oberhauserella d. rhaetica Oberhauserella d. rhaetica Ophthalmidium madadyeni tenuiloculare Marginulina cf. terquemi Prodentalina cf. crassa Paralingulina longiscata cf. alpha Paralingulina tochoides Conicospirillina trochoides	— Duoplanum cf. tori — Tristix liasina — Ammomassilina sp. — Marginulina picturata — Prodentalina pauliniae — Vaginulina sp. B — Carixia langi — Nodosaria kuhni — Prodentalina cf. guembeli — Spiroloculina centrata	Lenticulina muensteri acutianguiata    Ichthyolaria terquemi mediumcostata   Astacolus primus   Astacolus scalptus   Lenticulina muensteri polygonata   Lenticulina varians barnardi   Marginulina prima spinata   Ichthyolaria sp.	<ul> <li>Vinelloidea tibia</li> <li>Citharina longuemari gr.</li> <li>Ichthyolaria pupiformis</li> <li>Citharina sherringtoni</li> <li>Nodosaria cf. issleri</li> <li>Nodosaria globulata</li> <li>Nodosaria liassica</li> <li>Prodentalina numismalis</li> </ul>	<ul> <li>Reinholdella macfadyeni</li> <li>Palmula deslongchampsi</li> <li>Extonia aspera</li> <li>Citharina sagittiformis</li> <li>Citharina frankei</li> <li>Nodosaria sp.</li> <li>Lenficulina dorbionvi</li> </ul>	Lenticulina dorbignyi  Bullopora rostrata  Lenticulina quenstedti  Marginulina breviformis  Nodosaria pseudoregularis  Palmula tenuistriata  Prodentalina aff. paudicurvata  Saracenella mochrasensis  Ramulina sp.	Trochammina sablei  Ammodiscus siliceus  Haplophragmoides kingakensis  Lagenammina difflugiformis  Trochammina canningensis  Lagenammina sp.	Reophax aff. thuringicus Reophax metensis Lagenammina tangentia Lagenammina pseudofusiformis Verneuliinoides liasinus Ammobaculites vetustus Tolypammina flagellum Glomospira perplexa	Verneuilinoides mauritii  Haplophragmoides αushmani Ammovertella? humphriesi  Psamminopelta? sp.  Rhabdammina sp.	Gaudryina? sp.  Textularia sp.B  Thurammina subfavosa Trochammina? sp.B  A T COCHAMMINA? Sp.B  C O O O O O O O O O O O O O O O O O O
Pseudoradiosa Squei Pseudo	### ### #### #########################			17 03										[h?	1 1		đ <sub>2</sub>		#									FDOs N. pseudoregulari FDOs L. dorbignyi, P. ter FDO R. macfadyeni @ 6
Ouarsense Dispansum Dispansum Fallaciosum Fallaciosum	● 640.67 ● 645.01 ● 647.78 ● 649.15 ● 652.12 ● 656.44 ● 658.82 ● 662.25 ● 665.17 ● 665.17 ● 671.04 ● 673.96					]1	25 25 25 3 1? 10 50 50 3	]3   1   12   1   1   1   1   1   1   1		(3) )1 )1 )1 (3) (3) (3) (3)		[3] ]1 [3] ]1 [2] [2] [2] [3] [4] [4] [5] [6] [6] [6] [6] [6] [6] [6] [6] [6] [6	3 2 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4				01? 01 01	C    C    C    C    C    C    C    C	h h									U J — LDO P. tenuistriata @ 68 U J — LDO N. peudoregularis ( — LDO common R. macfad — LDO frequent L. dorbign
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