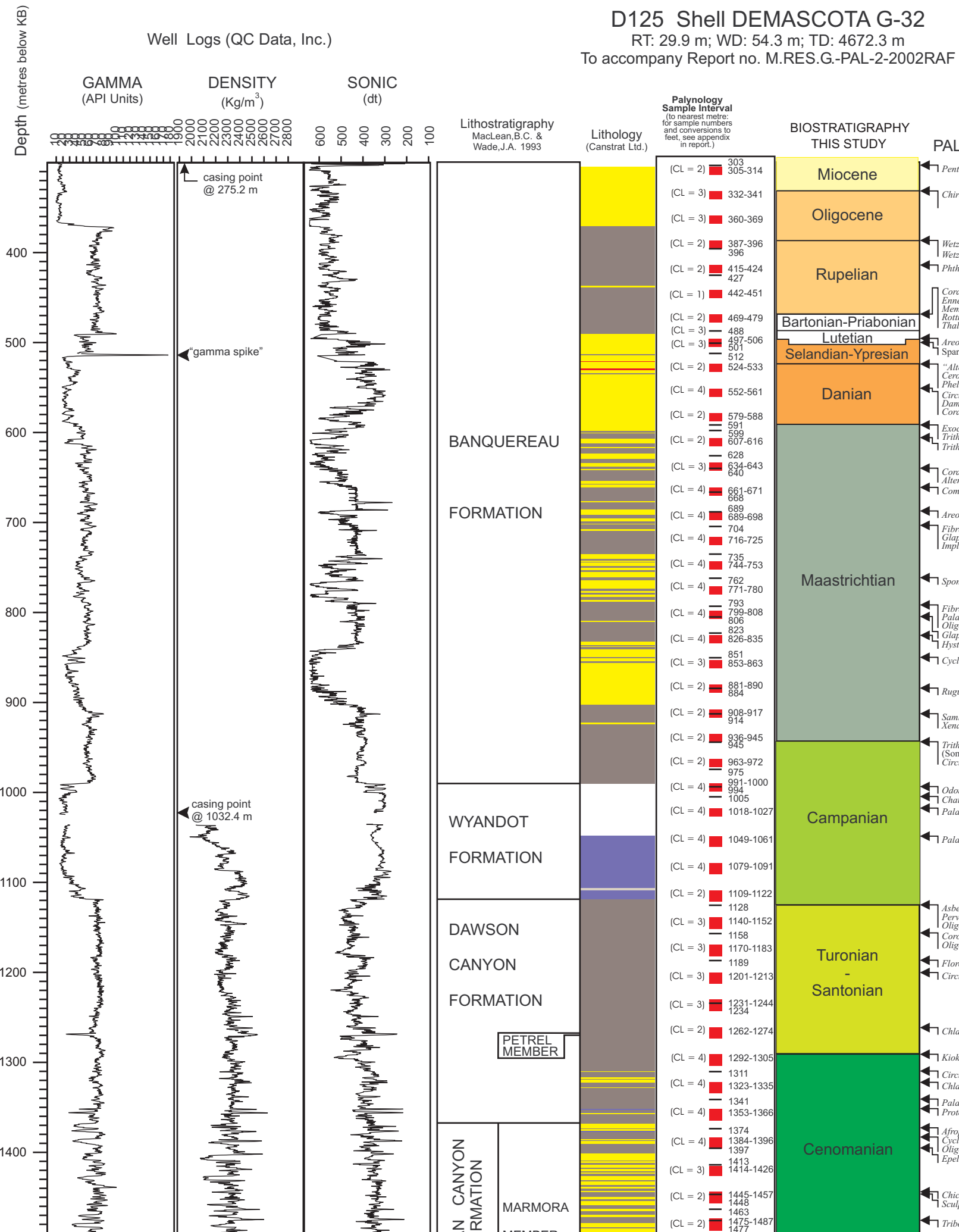


D125 Shell DEMASCOTA G-32
 RT: 29.9 m; WD: 54.3 m; TD: 4672.3 m
 To accompany Report no. M.RES.G.-PAL-2-2002RAF

Well Logs (QC Data, Inc.)



Depth (metres below KB)

400
500
600
700
800
900
1000
1100
1200
1300
1400

GAMMA
(API Units)

2000
2100
2200
2300
2400
2500
2600
2700
2800

DENSITY
(Kg/m³)

600
500
400
300
200
100

SONIC
(dt)

Lithostratigraphy
MacLean, B.C. &
Wade, J.A. 1993

Lithology
(Canstrat Ltd.)

CL = 2 303-314
 CL = 3 332-341
 CL = 3 360-369
 CL = 2 387-396
 CL = 2 415-424
 CL = 1 442-451
 CL = 2 469-479
 CL = 3 488
 CL = 3 497-506
 CL = 2 512
 CL = 2 524-533
 CL = 4 552-561
 CL = 2 579-588
 CL = 2 599
 CL = 2 607-616
 CL = 3 628
 CL = 3 634-643
 CL = 4 640
 CL = 4 661-671
 CL = 4 685
 CL = 4 689
 CL = 4 689-698
 CL = 4 704
 CL = 4 716-725
 CL = 4 735
 CL = 4 744-753
 CL = 4 762
 CL = 4 771-780
 CL = 4 793
 CL = 4 799-808
 CL = 4 806
 CL = 4 823
 CL = 4 826-835
 CL = 3 851
 CL = 3 853-863
 CL = 2 881-890
 CL = 2 884
 CL = 2 908-917
 CL = 2 914
 CL = 2 936-945
 CL = 2 945
 CL = 2 963-972
 CL = 2 975
 CL = 4 991-1000
 CL = 4 994
 CL = 4 1005
 CL = 4 1018-1027
 CL = 4 1049-1061
 CL = 4 1079-1091
 CL = 2 1109-1122
 CL = 3 1128
 CL = 3 1140-1152
 CL = 3 1158
 CL = 3 1170-1183
 CL = 3 1189
 CL = 3 1201-1213
 CL = 3 1231-1244
 CL = 3 1234
 CL = 2 1262-1274
 CL = 4 1292-1305
 CL = 4 1311
 CL = 4 1323-1335
 CL = 4 1341
 CL = 4 1353-1366
 CL = 4 1374
 CL = 4 1384-1396
 CL = 4 1397
 CL = 3 1413
 CL = 3 1414-1426
 CL = 2 1445-1457
 CL = 2 1448
 CL = 2 1463
 CL = 2 1475-1487
 CL = 2 1477

Palynology
Sample Interval
(to nearest metre;
for sample numbers
and conversions to
feet, see appendix
in report.)

303
305-314
332-341
360-369
387-396
396
415-424
427
442-451
469-479
488
497-506
501
512
524-533
552-561
579-588
591
599
607-616
628
634-643
640
661-671
685
689
689-698
704
716-725
735
744-753
762
771-780
793
799-808
806
823
826-835
851
853-863
881-890
884
908-917
914
936-945
945
963-972
975
991-1000
994
1005
1018-1027
1049-1061
1079-1091
1109-1122
1128
1140-1152
1158
1170-1183
1189
1201-1213
1231-1244
1234
1262-1274
1292-1305
1311
1323-1335
1341
1353-1366
1374
1384-1396
1397
1413
1414-1426
1445-1457
1448
1463
1475-1487
1477

BIOSTRATIGRAPHY
THIS STUDY

Miocene
Oligocene
Rupelian
Bartonian-Priabonian
Lutetian
Selandian-Ypresian
Danian
Maastrichtian
Campanian
Turonian -
Santonian
Cenomanian

PAL

Pentac
Chiro
Wetz
Wetz
Phth
Cord
Emme
Men
Ratin
Thala
Aro
Spars
"Alte
Cero
Phelo
Circu
Dama
Cord
Exoc
Trith
Trith
Cord
Alter
Com
Aro
Fibro
Glap
Imple
Spon
Fibro
Palae
Oligo
Glap
Hystr
Cycl
Rug
Sam
Xena
Trith
(Som
Circu
Odon
Chata
Palae
Asbe
Perve
Oligo
Cero
Oligo
Flore
Circu
Chla
Kioke
Circu
Chla
Palae
Proto
Afrop
Cycl
Oligo
Epeli
Chic
Sculp
Tribu

casing point
@ 275.2 m

"gamma spike"

casing point
@ 1032.4 m

BANQUEREAU
FORMATION

WYANDOT
FORMATION

DAWSON
CANYON
FORMATION

PETREL
MEMBER

MARMORA
MEMBER

SYNOLOGY

- adinium favatum* (v.rare; genus top 8.55 Ma)
- opteridium galea* (22.36 Ma)
- eliella* spp.
- eliella simplex* (v.rare; comparable species at 30.4)
- anoperidium resistente* (v.rare; similar species 29 Ma)
- osphaeridium "delimurum"* (v.rare but consistent)
- adocysta arcuata* (v.rare; 31.1 Ma)
- branophoridium aspinatum* (frequent; 24.6)
- vestia horussica* (v.rare; 37 Ma)
- assisphaera pelagica* (17 Ma)
- tigera* spp. (common; 48 Ma)
- se assemblage but *Cordosphaeridium* spp. prominent
- rbidinium pannuceum* / *"denticulatum"* (common)
- lodium* spp., *Manumiella cretacea* (v.rare)
- lodinium tricuspe* (v.rare), *Svalbardella* cf. *bulliformis*
- lodinium distinctum* (v.rare)
- assadinium* spp. (60 Ma), *Hystriochosphaeridium tubiferum* (46.52 Ma)
- osphaeridium "brevinurum"*, reworked palynomorphs
- hosphaeridium* spp., *Isabelidium* spp.
- yrodinium "pentasabulum"*
- yrodinium "evitti"* (v.rare)
- osphaeridium fibrospinosum* (peak), *Cribroperidium* spp.
- bidinium fleximorphum* (good top), *Glaphyrocysta intricata* (good top)
- otodinium breve* (v.rare, but semi-consistent)
- tigera coronata* (top of peak)
- adinium "lophophorum"* (?consistent)
- hyrocysta exuberans* (top of peak)
- osphaeridium "choanum"*
- godinium delitiense* (63.98 Ma)
- adinium "tabulatum"*
- ototetradinium silicorum*
- osphaeridium pulcherrimum* (consistent)
- hyrocysta "perforoechinata"*
- ichosphaeridium truswelliae* (36.7 Ma - baloney)
- onephelium vannophorum* (v.rare but semi-consistent; 85.8 Ma)(see peak zone below)
- bivesiculites* sp.
- andia carnarvonensis*
- scus gochti* (v.rare)
- yrodinium suspectum* (70.5 Ma)
- re reworked palynomorphs)
- lodinium brevispinosum* (v.rare but consistent)
- otochitina costata* (v.rare but consistent; 69.6 Ma)
- angiella* spp., *Palambages* sp.
- mbages* sp. (peak)
- eoohystrichophora infusorioides* (69.6 Ma; good top)
- ckiaspora wirthii*, *Callaiosphaeridium asymmetricum* (76.2 Ma - local top - Santonian), *Canningia reticulata* (local top - Santonian)
- osphaeridium "granoaciculare"*, *Impletosphaeridium "capitatum"*, *Odontochitina rhakodes* (v.rare but semi-consistent)
- osphaeridium* spp. (diversity increase), *Subtilisphaera* spp., *Surculosphaeridium longifurcatum* (76.2 Ma)
- nijera "brevicornuta"*, *Florentinia clavigera*, *Florentinia perforata* (v.rare but semi-consistent)
- osphaeridium "elegatulum"*, *Xenascus perforatus*, *Xenascus "biperforatus"*
- ntinia cooksoniae* (93.5 Ma), *Oligosphaeridium "perfoalbertense"*
- lodinium brevispinosum* (top common)
- mydophorella nyeii*
- ansium williamsii* (96.2 Ma), *Litosphaeridium siphoniphorum* (v.rare; 92 Ma)
- lodinium "ultrabrevispinosum"*, *Xiphophoridium alatum* (84.1 Ma)
- mydophorella "ectobaculum"*, *Chlamydothorella huguioniotti*, *Palaeohystrichophora "palaeoinfusa"* (consistent)
- operidium "denticulatum"*
- ellipsodinium "spincapitatum"* (v.rare but consistent)
- ollis* sp. (Top of frequent), *Florentinia tenera* (consistent)
- onephelium "brevivannophorum"*, *Diphyes "conjunctum"*, *Nyktericysta* sp.
- osphaeridium perforatum*, *Vesperopsis mayii* (96.2)
- dosphaeridia spinosa* (94.85 Ma)
- haouadinium "glabrum"*, *Protoellipsodinium "bifidum"*
- stisporis* sp.
- trys* sp. (v.rare)

305-
314

← *Apteodinium spiridoides* (top 14.27 Ma), *Apteodinium australiense* (v.rare but consistent; 12.25 Ma)
Cleistosphaeridium diversispinosum (rare), *Cyclopsiella "robusta"*
Dapsilidinium pastielsii (frequent here, but not consistent)












396

← *Deflandrea phosphoritica* (22.36 Ma), *Heteraulacacysta "stoveri"* (v.rare but consistent)
Pentadinium laticinctum (8.55 Ma), *Phthanoperidium coreoides* (v.rare; similar species; 30.7 Ma)
Wetzeliiella simplex (common), *Wetzeliiella truncata* (rare but consistent)
Svalbardella "teespinoza" (v.rare)

488

← *Corrudinium "reticulatum"* (v.rare), *Diphyes colligerum* (Lutetian local top)
Glaphyrocysta "extensa", *Lentinia "glabra"*
Hafniasphaera cryptovesiculata (59.9 Ma - which I don't believe)
Heteraulacacysta porosa (v.rare; 36.8 Ma), *Hystriocholpoma granulatum*
Samlandia reticulifera, *Spiniferites pseudofurcatus* (frequent)

LEGEND

	Shale
	Siltstone
	Marl
	Limestone
	Conglomerate
	Sandstone
	Siderite
	No data
	Confidence Level ③
	Cutting samples
	Sidewall core samples



Chaouadinium "scotium"
Asphaeridium albertense (97.55 Ma)
Asphaeridium totum (96.2 Ma)
Proletes "reticulatus"

Compiled by: W.C. MacMillan
Updated for web presentation: 16 February 2004
Updated by: P. J. Upson