4 COPIE

LERCARA S.P.A

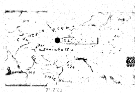
RADDUSA-2

VI-I-23

RADDUSA

attached to: FINAL REPORT
"RADDUSA 2"
By G.G. BAGNASCO (Geologist) and
A. TORRENTE (Paleontologist)
RAGUSA September 1958

SONDA
RIG Mayhew 2000- National 80 B
UBICAZIONE
LOCATION Acquanova Contrada
COORDINATE
COORDINATES 37°32'18" - 2°12'06"
DATA INIZIO
DATE SPUDDED November 9-1957
COMPLETATO IL
DATE COMPLETED August 13-1958



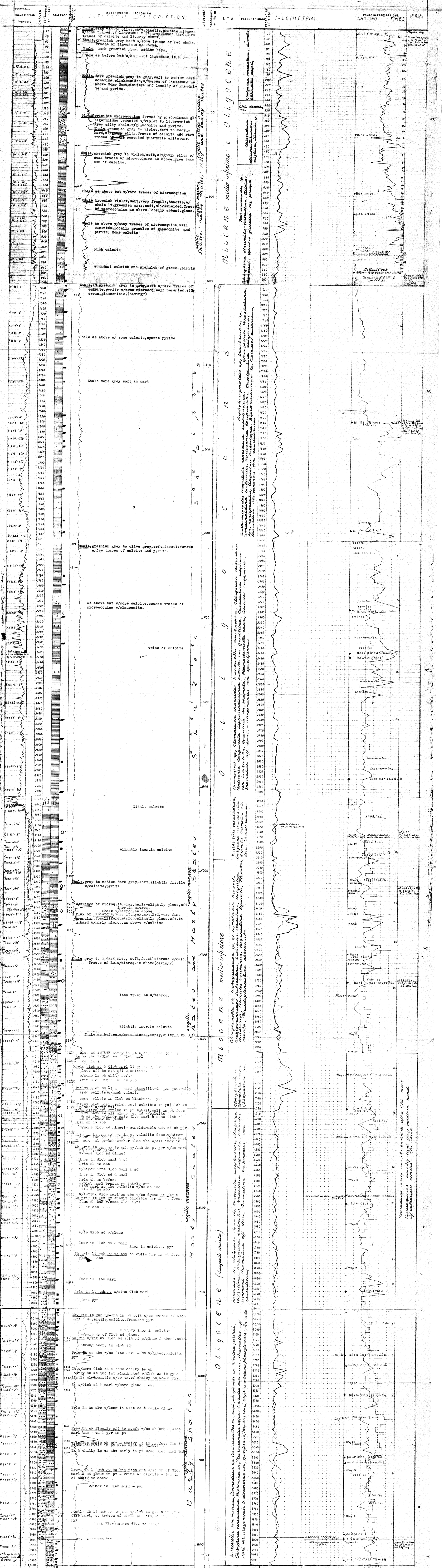
QUOTA AL SUOLO
GROUND ELEVATION 1055' = m. 321,56
ALTEZZA TAVOLA ROTARY
ROTARY TABLE HEIGHT: 14' } = m. 4,58
ALTEZZA BLOCCO GUIDA
K.O.B. HEIGHT: 1'
QUOTA BLOCCO GUIDA
EL OF DRIVE BUSHING 1070 = m. 326,14
PROFONDITA FINALE
FINAL DEPTH 10164' = m 3.098

LEGENDA

Scala 1:1000

▨ ARGILLA SILICEA SILICEOUS SHALE	☐ ARGILLA SHALE	▨ MARNA MARL	▨ CALCARE TENERO AMORFO CHALK
Microcoquina	▨ ROCCIA SILICEA QUARZITICA QUARTZITIC SILTYSTONE	▨ CALCARE LIMESTONE	▨ ARGILLA MARNOSA MARLY SHALE
Microfossili	▨ ROCCIA SILTOSA SILT	▨ CALCARE MARNOSO MARLY LIMESTONE	▨ SELCE CHERT
Calcite			
■ Pirite			
◇ Glauconite	▨ ARGILLA MARNOSA SILTOSA SILTY MARLY SHALE	▨ CALCARE DOLOMITICO DOLOMITIC LIMESTONE	▨ DOLOMITE

PERFORAZ. PROVE DI STRATO TUBAGGIO	CAROTE	PROFONDITA IN PIEDI	GRAFICO	MANIFESTAZIONI PENDENZE PERDITE	DESCRIZIONE LITOLOGICA LITHOLOGY DESCRIPTION	LITOLOGIA	PROFONDITA IN METRI	ETA'	PALEONTOLOGIA	PROFONDITA IN PIEDI	CALCIMETRIA	TEMPO DI PERFORAZIONE DRILLING TIMES	NOTE REMARK



10' **Shale**, deep red to olive, soft, plastic, chaotic, altered w/some traces of limestone v.lt.grey, dense hard. Rare traces of calcite and lt. grey chert.

50' **Shale**, greenish grey soft w/some traces of red shale. Traces of limestone as above.

70' **Shale**, dark greenish grey, medium hard.

100' **Shale** as before but w/abundant limestone lt. brown

Shale, dark greenish grey to grey, soft to medium hard sometime slickensided, w/traces of limestone as above. Some foraminifera and locally of glauconite and pyrite.

310' **Globigerinidae microcoquina** formed by predominant globigerinidae cemented w/violet to lt. brownish grey silty shale, w/glauconite and pyrite. **Shale**, greenish grey to violet, soft to medium hard, ~~slightly~~ silty. Traces of calcite and rare traces ~~of well~~ cemented quartzite siltstone.

460' **Shale**, greenish grey to violet, soft, slightly silty w/some traces of microcoquina as above. Rare traces of calcite.

620' Shale as above but w/rare traces of microcoquina

670' **Shale** brownish violet, soft, very fragile, chaotic, w/shale lt. greenish grey, soft, slickensided. Traces

710' of microcoquina as above. Locally abbund. glauc.

Shale as above w/many traces of microcoquina well cemented. Locally granules of glauconite and pirite. Some calcite

Much calcite

Abundant calcite and granules of glauc., pirite

Shale, lt. greenish grey to grey, soft w/rare traces of calcite, pyrite w/some microcoq. well cemented, siliceous, glauconitic, (caving?)

1050'

Shale as above w/ some calcite, sparce pyrite

Shale more grey soft in part

2030' **Shale**, greenish grey to olive grey, soft, fossiliferous w/few traces of calcite and pyrite.

2110'

As above but w/more calcite, scarce traces of microcoquina w/glauconite.

veins of calcite

little calcite

slightly incr. in calcite

3320' **Shale**, gray to medium dark gray, soft, slightly fissile w/calcite, pyrite

3420' w/traces of microq. lt. gray, marly-slightly glauc, sft. incr. in microq.
Shale w/microq. as above
Influx of **Limestone**, very lt. gray, mottled, very fine granular, fossiliferous (glob) slightly glauc. sft. to m. hard w/marly microq. as above w/calcite

3550'

Shale gray to m. dark grey, soft, fossiliferous w/calc. Traces of Ls. w/microq. as above (caving?)

less tr. of Ls. W/microq.

slightly incr. in calcite

Shale as before w/some microq, marly, silty, soft

3960

4010 Glob sd as abo marly in pt w, [illegible] abo (c[illegible])
Sh as abo w/Glob sd [illegible] Glob marl
4040 Incr in sh
Prin Glob sd & Glob marl lt gy to [illegible] glauc sft to med sft w/calcite.
w/some ls wh chlky soft.
Prin Glob marl & sh as abo

4120 Influx Glob sd lt gy marl Glauc! (lt-dk [illegible] generally srdd pellets) w/much calcite
some pellets in Glob sd blackish. pyr!

4200 Influx Glob marl brnish mott calcitic in pt (Glob replaced w/cly mtl)
4220 w/sh olive grn brnish in pt subvit, dull in pt foss w/se Glob sd sli glauc med hd w/calcite
Sh as abo w/minor amts Glob marl & some Glob sd as abo-some sl glauc
Prin sh as abo
w/some Glob sd glauc!- considerable amt of sh pyr.

4320 Prin sh lt gnh gy pyr in pt calcitic foss. w/minor amts Glob sd & marl as abo
Sh more gnh gy-bnh-darker than abo w/sli incr in Glob marl
4360 Sh prin lt gnh gy to gnh gy, bnh in pt pyr w/se marl as abo, loc glauc
w/some Glob sd Glauc!
Incr in Glob marl & sd
Prin sh as abo
w/minor amts Glob marl & sd
Incr in Glob sd & marl
Prin sh as before
W/Glob marl brnish gy fairly sft
Glob marl as abo calcitic w/sh as abo
Prin sh as abo
4560 W/influx Glob marl as abo w/so fgmts hi glauc
Sh prin lt gnh gy subvit calcitic pyr in pt foss.
Some sh bnh w/some Glob marl
Sh as abo

w/se Glob sd w/glauc

4760 Incr in Glob sd & marl
incr in calcite, pyr

Sh prin lt gnh gy to bnh calcitic pyr in pt foss w/glob as abo

4900 Incr in Glob marl

Prin sh lt gnh gy w/some Glob marl

More pyr

5020 Sh prin lt gnh gy-bnh in pt soft w/so traces of Glob marl & sd. little calcite, frequent pyr.

Slighty incr in calcite
w/rare tr of Glob sd glauc.
5110 5130 Sh bnh w/influx Glob sd v.lt. gy w/glauc & abund. calc.
strong decr. in Glob sd
Prin Sh as abo w/so Glob marl & sd w/glauc, calcite, pyr

5230 5240 Sh w/more Glob sd & some chalky Ls wh
Mostly Sh as abo interlaminated w/Glob sd lt gy a
5270 little glauconitic w/so tr. of chalky Ls wh-Ca. pyr.
Sh w/Glob sd & marl w/more glauc & ca.

5320

Prin Sh as abo w/decr in Glob sd & marl- Glauc.

5460 Prev. Sh gy fissile sft to m. sft w/so sh bnh & Glob marl bnh - ca & pyr in pt

5520 w/influx Chalk wh sft & chalky Ls lt gy foss fin[illegible] glauc. calcitic in pt w/so Glob sd glauc!
5540 5560 Sh & chalky Ls as abo marly in pt w/se Glob marl bnh

Prev. Sh lt gnh gy to bnh foss sft w/so tr of Glob marl & sd glauc in pt - veins of calcite - few tr of chalk as above

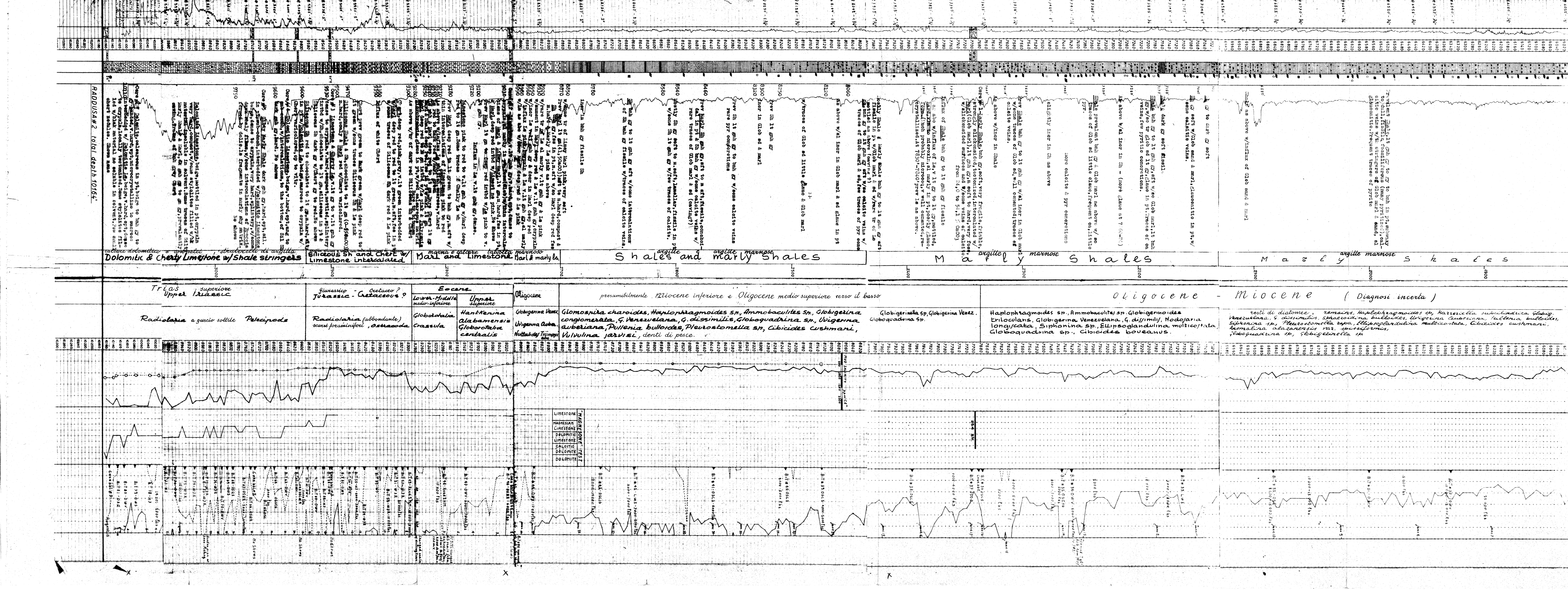
w/incr in Glob marl - pyr

5710

Mostly Sh lt gnh gy to bnh w/Glob sd glauc in pt a Glob marl, so traces of chalk wh soft, so ca, pyr

Weak Florescence 5770' to 58[illegible]

5827 [illegible]



Prevalent Shale, lt gnh gy to gy to bnh in pt, subwaxy to dull, fissile, fossiliferous (many pyritized), calcitic veins w/th stringers of Glob marl & sand, sl glauconitic. Frequent traces of pyrite

6880'

Shale as above w/influx of Glob sand & marl

Sh gy to dark gy soft

7060'

Sh gy soft w/Glob sand & marl, glauconitic in pt, w/some calcitic veins.

7150'

Shale dark gy soft fissile

7170'

Shale bnh gy to lt gnh gy, sft w/so Glob marl, lt bnh gy, w/so tr glob sd lt gy, glauc in pt. Traces of ca veins, few pyritic concretions.

7250'

As above w/sl incr in Sh - (more glauc at 7260-70)

7330'

Shale prevalent bnh gy & Glob marl as above w/ so traces of Glob sd little clauc, frequent ca, little pyr.

7440'

more calcite & pyr concretions

slightly incr in Sh as above

7550'

Prev Shale bnh gy to lt gnh gy w/sl incr in Glob marl w/some traces of Glob sd, well cemented; traces of calcite veins.

7610'

As above w/incr in Shale

7660'

Core # 1-Marly Shale, bnh gy, soft, very fragile, friable, strongly slickensided, tectonized, intercalated w/ Marl (Glob marl), lt gnh gy, m soft to hard, very foss, w/slickensided suffaces and W/some veins of calcite. from 24,0 to 54,1 % CaCO3

7760'

Influx of Shale bnh gy to lt gnh gy fissile

7810'

Sh as abo w/influx of Ls, v lt gy to lt gy, mottled, hard, ~~xln to~~ microxln, sl marly in pt, poorly glauc, foss. (Much probably microcoq, v well cemented, recrystallized. At 7830'-7840' prev Ls as above.

7840'

Mostly Shale & Marly Shale bnh gy to lt gnh gy sft fissile in pt w/Glob marl & sd w/rare tr of Ls mottled as above (caving ?)

Sh. bnh gy to lt gnh gy sft w/so calcite veins w/ traces of Glob marl & sd, few traces of pyr conc

8060

as above w/sl incr in Glob marl & sd glauc in pt

8120

w/traces of Glob sd little glauc & Glob marl

8250

Prev Sh lt gnh gy

8300

incr in Glob sd & marl

8320

Prev Sh lt gnh gy to bnh gy w/some calcite veins rare pyr concretions

8460

Prev Marly Sh gnh gy, sft to m sft, fissile, conchoidal in pt & Sh bnh gy w/some calcite veins w/ rare traces of Glob marl & sd (caving?)

8540

Mostly Sh gy soft to m.soft, lamellar, fissile in pt w/some Sh lt gnh gy w/few traces of calcite.

8580

Sh bnh gy to lt gnh gy sft w/some intercalations of Sh bnh gy fissile w/traces of calcite veins.

8780

incr in bnh gy fissile Sh

8850 w/some tr of Limey Marl pink, very soft

8870 Prev Marl lt gn (41,5CaCO3) sft to m.hard, compact & Sh bnh gy, fss in pt, m.sft w/so Marl deep red fss m.hard & Marly Ls pink as above

8920 w/rare tr of Ls sl marly v.lt gnh gy & Ls pink

8930 w/aument in Marl deep red & Ls v.lt gnh gy, crypxln

8950 w/incr Ls v.lt gnh gy & decr in Marl deep red

8960 w/influx Ls pink, crypxln & Ls v.lt gnh gy, sl marly

8980

8990 w/Ls as abo w/decr Marl deep red & Ls pink

Core #2 - Limestone, v.lt gnh gy, v.hard, cpt, dense to

9030 crypxln, sl marly in pt, foss (Glob) w/thin intercalations of Marl & Limey Marl, lt gn, m.hard, fss in pt, & Marl, deep red intbd w/Limestone pink. No Shows

Prev Marl lt gn ~~to deep~~ red intbd w/Ls pink to v. lt gnh gy.

9100

Influx in Ls v.lt gnh gy, dense.

9120

Limestone pink to red to v.lt gnh gy w/Marl deep red to lt gn. Some traces of Chalky Ls wh

9180 Prev Marl deep red to lt green to bnh gy, m.sft w/ thin intercalations of Limestone pink to red

9210 As above w/influx Ls whitish, sucrose, v.hard

9220 Ls red to dark red w/Marl green

9230 Ls wh & Marl deep red to lt gn. Rare Chert lt gy

9240 Marl & Shale deep red, fss in pt w/Marl lt gn

9250 Marl deep red to lt gn intbd w/Ls pink & Polygenic Microbreccia, glauc in pt, w/red calcareous matrix

9280 Rare tr bitumen

As above w/tr of dark red Siliceous Sh & Chert

9300

Chert, deep red, pink, grey, v.lt green interbedded w/Marl deep red to red to lt green, m.sft, fss in pt w/some traces of Siliceous Sh dark red & Ls pink

9380

9390 Influx of white Chert

Chert prev green to dark green w/Marl deep red to lt green w/some traces Siliceous Sh & Ls pink

9470 Siliceous Shale & Sh, chocolate to lt gn (0-5%CaCO3) m.hard, scaly & Marl red w/Chert varicolored.

9500

Core #3 Limestone & Cherty Ls, v.lt gy to v.lt gnh gy

9530 dense to crypxln, v.hard, compact, mottled, splintery intbd w/Sh, chocolate to lt gn, siliceous in pt & Siliceous Sh dark gy w/Chert gy to red. No shows

Siliceous Sh red to chocolate to lt gn, m.hard, silty

9600 in pt w/Dolomitic Ls, beige, sucrose to crypxln w/ Chert varicolored, op to vitr.

Core #4 Dolomitic Limestone, beige, v.hard, cpt, ang to sub-conch, w/intercalations, to the botton, of Sil Sh

9680 dark gnh gy, hard. No shows

Core #5 Silty Marly Shale dark gnh gy, hard, cpt, sil. in pt, sub-conch, interbedded w/Dolomitic Limestone beige, dense to crypxln, very hard, splintery, w/some dark shaly films, w/some intercalations of Breccia formed by dolic. ls fragments in marly shy matrix.

9790

No shows

Dolomitic Limestone, beige, mottled in pt, crypxln very hard, compact, w/some stylolites filled w/bk material insoluble in solvent. Some traces of Silty Marly Shale & Marl, dk gnh gy to gn gy, prevalently caving. Traces of bnh grey Chert

Core #7 Dolomite, calcareous in pt, beige to bnh gy to gy banded, v.hard, cpt, microcrystalline to sucrose

10110 interbedded w/ Dolomitic Ls, beige, v.hard, cpt, dense to crypxln, locally tectonized. Some stylolites filled w/blak material no soluble in solvent. Few small chert nodules. Shows none

RADDUSA #2 total depth 10164'