1-6

BELCO PETROLEUM CORPORATION OF PERU

GEOLOGICAL LOG

LITHOLOGICAL AND PALEONTOLOGICAL LOG

WELL Z2A-21-629-XD-L06 (L06-9X)

WORKING FILE
GEOSCIENCES

WORKING FILE
GEOSCIENCES

GEOLOGISTS: J. ORTIZ / A. VELASQUEZ
A. GARRO.

PALEONTOLOGIST: JOSE CASTILLO - CARLOS NAUPARI
GABRIEL MUÑOZ - PAULA B. DE VELASQUEZ

PALINOLOGYST: RAFAEL LEVAGGI A.

AREA: LOBITOS OFFSHORE

BLOCK: Z2A PARCEL: 21

PLATFORM: L06

RIG CONTRACTOR: STORM DRILL III

TYPE OF WELL: EXPLORATORY

SURFACE COORDINATES	N	1'598,636.38 m	E	124,663.07 m
BOTTOM COORDINATES	N	1'597,898.98 m	E	123,332.75 m

K.B.E. 50' G.L.E. — WATER DEPTH: 335'

AVERAGE DIRECTION: S 61° W

AVERAGE OF VERTICAL ANGLE ON TARGET: 34° 11'

TOTAL MEASURED DEPTH: 9064'

TOTAL VERTICAL DEPTH: 7347.40'

DRILLING COMMENCED: ON MAY 27TH. 1985

DRILLING FINISHED: ON JULY 25TH. 1985

SURFACE CASING: 13 3/8 CASING, SHOE AT 802'

INTER. CASING: 9 5/8" CASING, SHOE AT 2494'

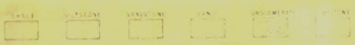
PRODUCTION CASING: 5 1/2" CASING, SHOE AT 7107'

ELECTRICAL SURVEYS: DLL-GR, CDL-CNL-GR, HDT, CST.

REMARKS: WEll DEEPENED FROM 8860' To 9064', AFTER RUN LOGS.

PETRO—TECH PERUANA S.A.
GEOLOGIST WELL FILE

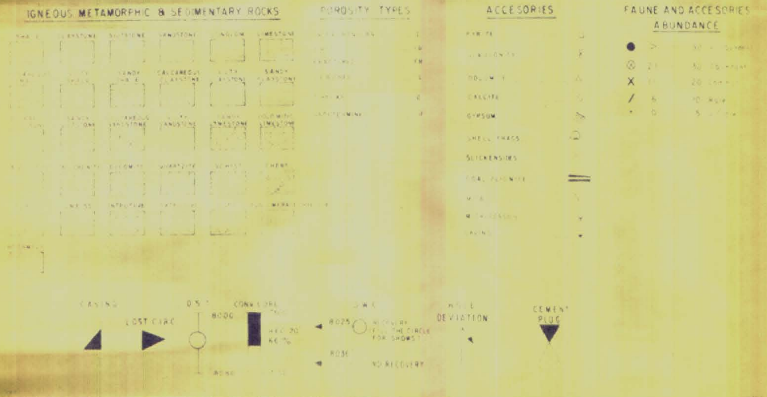
SCANNED
By [illegible]
Date 30-1-07



DITCH SAMPLES

SURF.	2500	30'
2500	TD.	10'

SYMBOLOGY FOR COMPOSITE AND/OR LITHOLOGIC AND PALEONTOLOGICAL LOG



DRILLING RATE

INTERPRETATIVE GRANULOMETRICAL CURVE

SD AND SS

CGL+VC | C + M | F +VF | SH + SLTST

CURES

FLUORESCENCE

COLOR % OF FLOOR

LITHOLOGICAL DESCRIPTIONS

PALEONTOLOGICAL DETERMINATIONS

PALYNOLOGY

100

DRILLING SPUDDED ON MAY 27TH 1985 AT 03:30 HRS

200

300

#1 - 17
SMITH - DGJ

18" CSG SHOE AT 400'

400' 14 S 60 W 388'

S: 48 W: 84

400

NO SAMPLES

DRILLING WITH SE

HYD:

WOB: 10/15,000

SPM: 130

RPM: 100

500

MAY 27TH 1985 AT 503'

MUD:

WT: 8.9

VIS: 41

PH: 11.6

417' x 10 HRS

41.7'/HR.

600

NO SAMPLES RETURN
DRILLING WITH SEA WATER

HYD:
WOB: 10,000
SPM: 132
RPM: 100

13⅜ CSG SHOE AT 802'

MAY 28TH 1985 AT 802
MUD: WT: 9.2
VIS: 45
WL: 9.6
PH: 10.5

868' 27° S65W 826
S:124 HYD: WOB: 20000 W:229
SPM: 110
RPM: 100

MAY 29TH 1985 AT 900'
MUD:
WT: 9.4
VIS: 47
WL: 5.0
PH: 11.0

1002' 29 S 53W 945
S:156 W:283
HYD:
WOB: 10,000
SPM: 100
RPM: D.D.

1095' 28½ S47W 1036'
S:185 W:317

1188' 29° S41W 1108
S:217 W:348

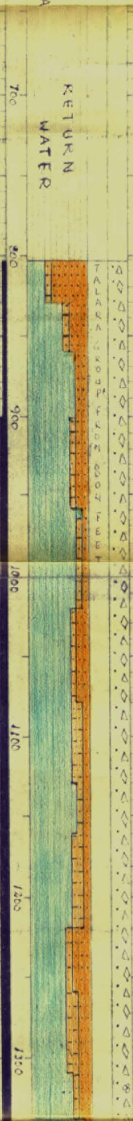
MAY 30TH 1985 AT 1221'

1339' 32 S 42½°W 1238'

802'
#2 - 12¼
HTC - J-3
98' x 1½ HRS
65.3'/HR.
900'

900'
#3 - 12¼
HTC - R1
321' x 10 HRS
32.1'/HR.
1221'

1221'
#3RR - 12¼
HTC - R1



SS: LTGY'SH, GY'SH, W/ABUND GN GRAINS, F40%, F-M40%, M20% SBANG, CALC CMT, CLAY MTX, VP-VIS POR, SLFRM.

SH: GYBRN'SH, VSLMICROMIC, SL MICROCARB, SLCALC, MED SLTY, SLROUGH SURF, SLFRM, MASS IN PT, SBBLKY.

SLTST: LTGY'SH, GY'SH, SLMICRO CARB, CARB IN PT, SLCALC, W/ OCC GN GRAINS & DOL INCL, GRAD TO SS IN PT, FRM TO VFRM.

SS: LTGY'SH, W/ ABUND GN GRAINS, F40%, F-M40%, M20%, SBANG, CALC CMT CLAY MTX P-VIS POR, FRM TO MOD HD.

SLTST: LTGY'SH, VSLMICROMIC SLMICROCARB, VSL-SLCALC W/ OCC GN GRAINS, DOL, CALC & MIC INCL, FRM TO VFRM.

SH: GY'SH, GYBRN'SH, VSL MICROMIC, SLMICROCARB, VSL CALC, SLSLTY, SLROUGH SURF FRM, MASS, SBBLKY.

SLTST: LTGY'SH, VSLMICROMIC, SLMICROCARB, VSL TO SLCALC GRAD TO SS, W/ GN GRAINS DOL & CALC INCL, FRM.

SS: WHGY'SH, LTGY'SH, W/ ABUND GN GRAINS, F30%, F-M40%, M30%, SBANG, CALC CMT, SLTY TO SHALY MTX IN PT, P-VIS POR, FRM TO VFRM, SL DTY.

SS: LTGY'SH, W/ ABUND GN GRAINS, F40%, F-M30%, M30%, SBANG, CALC CMT, SLTY TO

PROBABLY HELICO BY LITHO
BARREN
TALARA

PRACTICALLY BARREN
HELICO LITHO FACIES

PRACTICALLY BARREN

Bathysiphon eoc. brn.
Rob. inornatus.

Bathysiphon eoc. brn.

Bathysiphon eoc. brn /
Bol. debilis
Robulus inornatus.
Cibicides grimsdalei.
Plancktonics /
Bol. Jacksonensis
Clavig colombiana.
TALARA-RICA: COM

Bathysiphon eoc. brn /
Bathysiphon eoc. waxy.
Clavigerinella colomb. /
Bulimina sp.
Robulus inornatus.

TALARA-RICA: POOR-COM

MUD:
WT : 9.8
VIS : 45
WL : 4.8
PH : 11.5

1496' 37° S49W 1367'
S: 337 W: 463

HYD:
WOB : 30.000
SPM : 100
RPM : 100

1590' 40½ S53W 1441'
S: 374 W: 509

MAY 31ST 1965, AT 1718'
MUD:
WT : 9.8
VIS : 44
WL : 5.0

1771 40° S51½W 1579'
S: 445 W: 601

HYD:
WOB : 30.000
SPM : 100
RPM : D.D.

1895' 39° S41W 1675'
S: 500 W: 658

JUNE 1ST 1965 AT 1928'

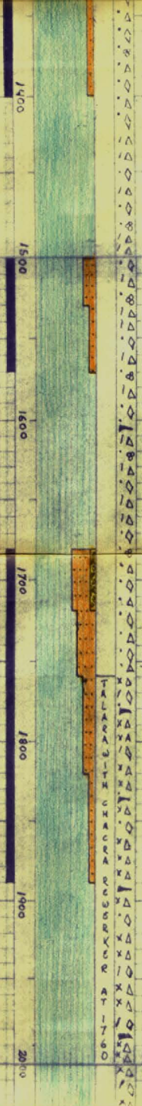
MUD:
WT : 9.9
VIS : 52

432' x 6 HRS
72'/HR.

1653'
#4 - 12¼
HTC - RJ

275' x 9 HRS
30.6'/HR.

1928'
#5 - 12¼
HTC - RJ



OCC DOL INCL, P-VIS POR, FRM TO SLFRIAB IN PT.

SH: BRN'SH, GYBRN'SH, VSLMICROMIC, VSLMICROCARB, VSL TO SL CALC, SL SLTY TO SLTY IN PT, w/OCC CARB MAT INCL, SL ROUGH SURF, SLFRM SBBLKY

SH: BRN'SH, GYBRN'SH, SLMICROMIC, SLMICROCARB, SLCALC, SL SLTY, SL TO MOD ROUGH, MOD SFT, SBBLKY, SBPLTY IN PT.

SS: WHGY'SH, LTGY'SH, w/ABUND GN GRAINS, F30%, F-M 30%, M 30%, M-C 10%, SBANG, CALC CMT, SLTY MTX IN PT, P-VIS POR, FRM TO HD IN PT.

SH: BRN'SH, GYBRN'SH, OCC GY'SH, SLMICROMIC, SLMICROCARB, SLCALC, SL SLTY IN PT, SMOOTH TO SLROUGH SURF, MOD SFT, SBBLKY TO SB PLTY.

SD: WH.GY, OCC GN QTZ GRAINS F60%, F-M 30%, M10%, SBANG, P-FR SRT.

SS: WHGY'SH, LTGY'SH, w/SOME GN GRAINS, F40%, F-M 30%, M 30%, SBANG, CALC CMT, SL DRTY, P-VIS POR, SL FRIAB TO FRM IN PT.

SH: GY'SH, GYBRN'SH, OCC BRN SLMICROMIC, SLMICROCARB, VSL CALC, w/OCC LAM CARB INCL, FRM TO SL SFT IN PT SBBLKY.

SH: GY'SH, GYBRNSH, SLMICROMIC, SLMICROCARB, VSL TO NON CALC, SLTY IN PT, SL ROUGH SURF, MOD FRM, SBBLKY

SH: GY'SH, OCC BRN'SH, SLMICROMIC, SLMICROCARB, SLCALC, SMOOTH SURF, SL TO MOD SFT SBBLKY.

SH: GY'SH, OCC BRN'SH, SLMICROMIC, SLMICROCARB, SLCALC SMOOTH SURF, SL TO MOD SFT SBBLKY.

Bathysiphon eoc. brn/
Clavigerinella colomb.

TALARA-RICA : POOR

Bathy. eoc. brn/
Bathy. eoc. waxy.
Clavig. colombiana/

Bathysiphon eoc. brn/

TALARA V. POOR.

Bathy. eoc. brn.
Plancktonics (Traces)

TALARA V. POOR

Bathy. eoc. waxy.
Eponides umbonatus.
Voluulina curta.
Cristelaria sp.
Clavig. colombiana.

Ostracod smooth

BARREN

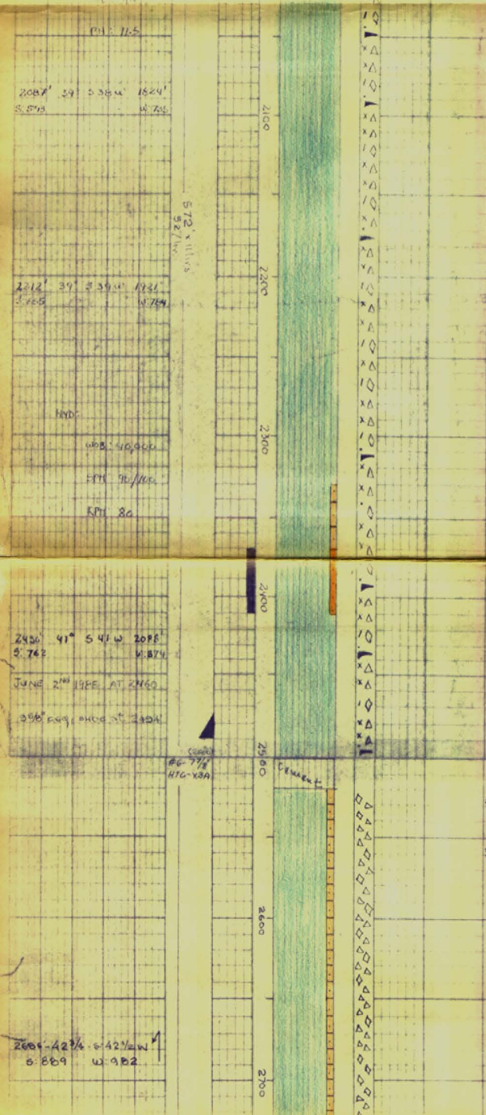
APPEARS LITHO OF CC RWK

Microgastropods.
Valv. soturalis x

CHACRA RWK COM.

Valv. suturalis.
Trocham. sp.

NO SAMPLES
)



PH: 11.5

2087' 39 S 38 W 1824'
S: 593 W: 735

2212' 39° S 39 W 1931'
S: 665 W: 784

NND

WOB: 40,000

SPM 90/100

RPM 80

2456' 41° S 41 W 2088'
S: 762 W: 874

JUNE 2nd 1988 AT 2460

9 5/8" csg. shoe at 2494'

2686'-42 3/4 - S 42 1/2 W
S: 889 W: 982

SH: GY'SH, OCC GYBRN'SH, SL MICROMIC, SLMICROCARB, VSL TO SLCALC, SMOOTH TO SL ROUGH SURF, MOD SFT, SB BLKY TO SB PLTY IN PT.

Valv. soturalis

SH: GY'SH, GYBRN'SH, OCC BRN'SH SLMICROMIC, SLMICROCARB, SLCALC, SMOOTH SURF, MOD SFT TO SFT, SBBLKY TO SB PLTY IN PT.

Valv. suturalis.
Rob. midway.
Microgastropod.

CC RWK V.P.

SH: GY'SH, GYBRN'SH, GRN'SH SLMICROMIC, SLMICROCARB, SLCALC, SLTY IN PT, SMOOTH TO SLROUGH SURF, SFT, SB PLTY TO SB BLKY.

Valv. soturalis.
Valv. compressa.
Virg. restin. (broken)

SLTST: LTGY'SH, GY'SH, SLMICROMIC, SLMICROCARB, SLCALC, W/ OCC CARB MAT, DOL & MIC INCL SL SFT TO SLFRM.

Valv. soturalis (brK) ||
Virg. restinensis (brK)

SS: GY'SH, LTGY'SH, W/ OCC M 20%, SBANG, CALC CMT CLAY, W/ OCC CALC, DOL & CARB MAT INCL, P-VIS POR, SLHD

Valv soturalis.

SH: GY'SH, GYBRN'SH, SLMICROMIC, SLMICROCARB, SLTY IN PT, SMOOTH TO SLROUGH SURF, MOD SFT, SBBLKY TO SBPLTY.

SH. Gysh. slbrnsh. micr mic, sl micr carb, firm, micr pyr in pt

SLTST. Gysh, micr mic, sl hd, slcalc

Valv. sutaralis /
Virg. restinensis.
Rob. multiseptae.
Microgastropod.
Valv. compressa /
CHACRA REWORKED P-C

Valv. suturalis /
Valv. compressa.
Desinob. expansa.
Virg. restinensis /

Desinob. expansa /
Rob. multeseptae.
Valv. compressa /
Rob. midwayensis.
Valv. suturalis /

M.W. 10.4
Visc: 56
W.L. 8.5

SH: Mostly brush, micr pye, sl micr carb, sl calc, firm, sl blky.

Virg. restinensis x

SLTST: Gysh, micr carb. calc, sl hd shy.

Valv. compressa /
Virg. restinensis x
Desinob. expansa /
Rob. midwayensis.
Valv. suturalis /

2842' - 42½° - S: 44 W
2393' S: 966 W: 1060

718' × 20½ hrs
34.8'/hr.

SS: wh-sl gy, vf-f. subang, sbdr shy mtx, sl calc cmt, w/gysh sdy grains, sl hd, dry, v ppor. micimul.

YEL, SL BRI
FLUOR
2930'
2950'

SH: Mostly gysh, micr mic, sl micr carb, firm, fw brush sh.

Rob. multiseptae.
Virg. restinensis x
Valv. compressa /

CHACRA RWK COMM

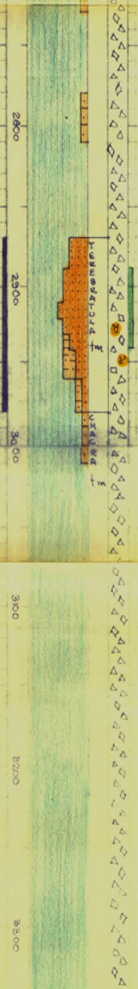
TEREBRATULA SHLY FC.

SH. Some increment of gy sh. micr mic. sl micr carb. firm, sl blky.

Desinob. expansa.
Rob. multiseptae.
Virg. restinensis /
(light colour)
Valv. compressa III

CHACRA RWK P-C

3028' - 42° - S: 46½ W
2531' S: 1054 W: 1154



Virgul. restinensis /
Mulinia sp II

CHACRA FM

SH: Gy. micr mic, sl micr carb. firm, sl blky, w/carb mat intbd in pt.

Virgul. restinensis /
Valv. compressa /
Mulinia sp I

3216' - 42° - S: 48½ W
2664' S: 1139' W: 1241

(3215)
#7 - HTC
7⅞" - X3A.

Valv. suturalis.
Rob. multiseptae.

CHACRA V. POOR

MW: 10.7
Visc: 50
W.L: 5.0

Desinob. expansa
Valv. suturalis.
Plancktonics.

SH Gy. micr mic, sl micr carb. firm, sl blky, rough.

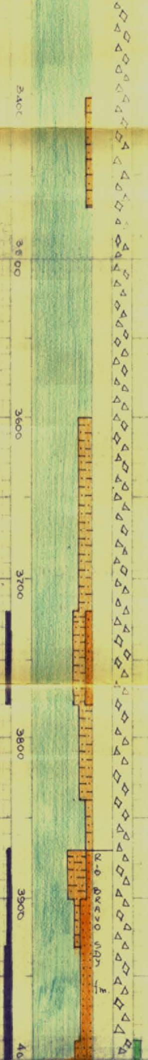
Virg. restinensis /

3498'-40¾°-S:50½W.
2882 S:1260 W:1384

810' . 25 hrs.
32.4'/hr

MW: 10.8
Vis: 50
W.L: 4.6

3808'-37° S:53W 3124
S:1381' W:1537'



SLTST: Gysh, micr mic, sl micr carb, firm

SH: Gy-gysh, micr mic, micr carb, firm, sl blky.

SH: Gy, micr mic, micr carb, firm sl rough, sl blky, some silty shin pt.

SLTST: Gysh-wh, grdg to VF ss calc cmt, mic incl, shy, sl hd.

SH: Gy, micr mic, micr carb, firm, rough surf, sl calc sl blky.

SLTST: Gysh. micr carb, w/ qu grains incl, sl calc, grdg to VF SS

SS: Lt gysh, VF, subang, calc cmt, shy mrx, hd, dry, mic incl, vppor.

SH: Gy, micr mic, sl micr carb, firm to sl hd, sl blky.

SLTST: Gysh, grdg to VF ss, sl hd, shy content, mic incl

SS: wh-gysh, VF-F, subang, w/ Dk & clr gysh grains, mic & carb mat incl, sl calc cmt, shy mix, ppor

YEL, SLBRL

CHACRA POOR-COM.

Rob. midwayensis!
Desinob. expansa!
Rob. multiseptae.
Virg. restinensis!
Valv. suturalis.
Rob. youngquisti (brK)
Hulinia sp.
Chilost. polsoni.
CHACRA COM + PG RWK TRZ

D.S.
3460'
3470'
VIIIb +
IX

Rob. multiseptae.
Virg. restinensis.
Rob. youngquisti!
Hulinia sp!
Microgastropods.
Chillostomella polsoni.
(Pyr)

Valv. suturalis.
Rob. midwayensis.
Pseudogland. manif.
Rob. youngquisti.
Troch. sp.
CHACRA FAUNA POOR
PALEGREDA RWK VP

Rob. midwayensis.
Valv. compressa.
Virg. restinensis.
Microgastropods (brK)
Cyclam. sim. dK (brK)
Ostracod reticul.
Pseudogland. manif.
Bathysiphon exc. black

Troch. globiger.
Microgastropod.

PALEGREDA RWK VP

Rob. youngquisti.
Trocham. globiger.

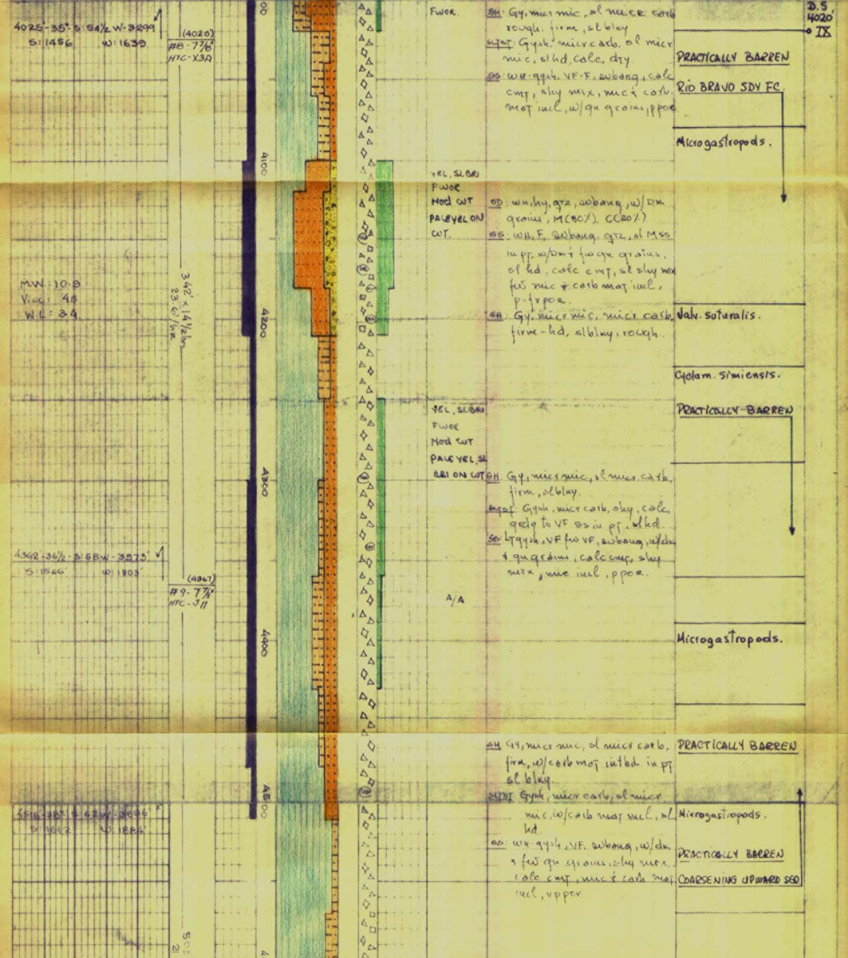
D.S.
3830'
VIIIb
+ IX

Valv. suturalis
Virg. restinensis.

CHACRA V. POOR

RIO BRAVO FM
AT 3870' (ON LITHO)

Valv. suturalis ll
Virg. restinensis ll



4025' - 35° - S 54 1/2 W - 3299
S: 1456 W: 1639

MW: 10.9
Visc: 45
W.L: 3.4

4362' - 36 1/2 - S 58 W - 3573'
S: 1566' W: 1803'

4516' - 36° - S 67 W - 3695'
S: 1612 W: 1884'

FWOR.

SH: Gy, micr mic, sl micr carb rough, firm, sl blky

SLTST: Gysh, micr carb, sl micr mic, sl hd, calc, dry

SS: Wh-gysh, VF-F, subang, calc cmt, shy mtx, mic & carb mat incl, w/ gn grains, p por

PRACTICALLY BARREN

RIO BRAVO SDY FC.

Microgastropods.

YEL, SL BRN
FWOR
Mod CUT
PALE YEL ON CUT.

OD: wh, hy, qtz, subang, w/ DK grains, M (80%), C (20%)

SS: Wh, F, subang, qtz, sl Mss in pt, w/ DK & few gn grains, sl hd, calc cmt, sl shy mtx, few mic & carb mat incl, p-fr por.

SH: Gy, micr mic, micr carb, firm-hd, sl blky, rough.

Valv. soturalis.

Cyclam. simiensis.

PRACTICALLY BARREN

YEL, SL BRN
FWOR
Mod CUT
PALE YEL, SL BRN ON CUT

SH. Gy, micr mic, sl micr carb, firm, sl blky.

SLTST: Gysh, micr carb, shy, calc, grdg to VF ss in pt, sl hd.

SS: Lt gysh, VF to VF, subang, w/ dk & gn grains, calc cmt, shy mtx, mic incl, p por.

A/A

Microgastropods.

SH: Gy, micr mic, sl micr carb, firm, w/ carb mat intbd in pt sl blky.

SLTST: Gysh, micr carb, sl micr mic, w/ carb mat incl, sl hd

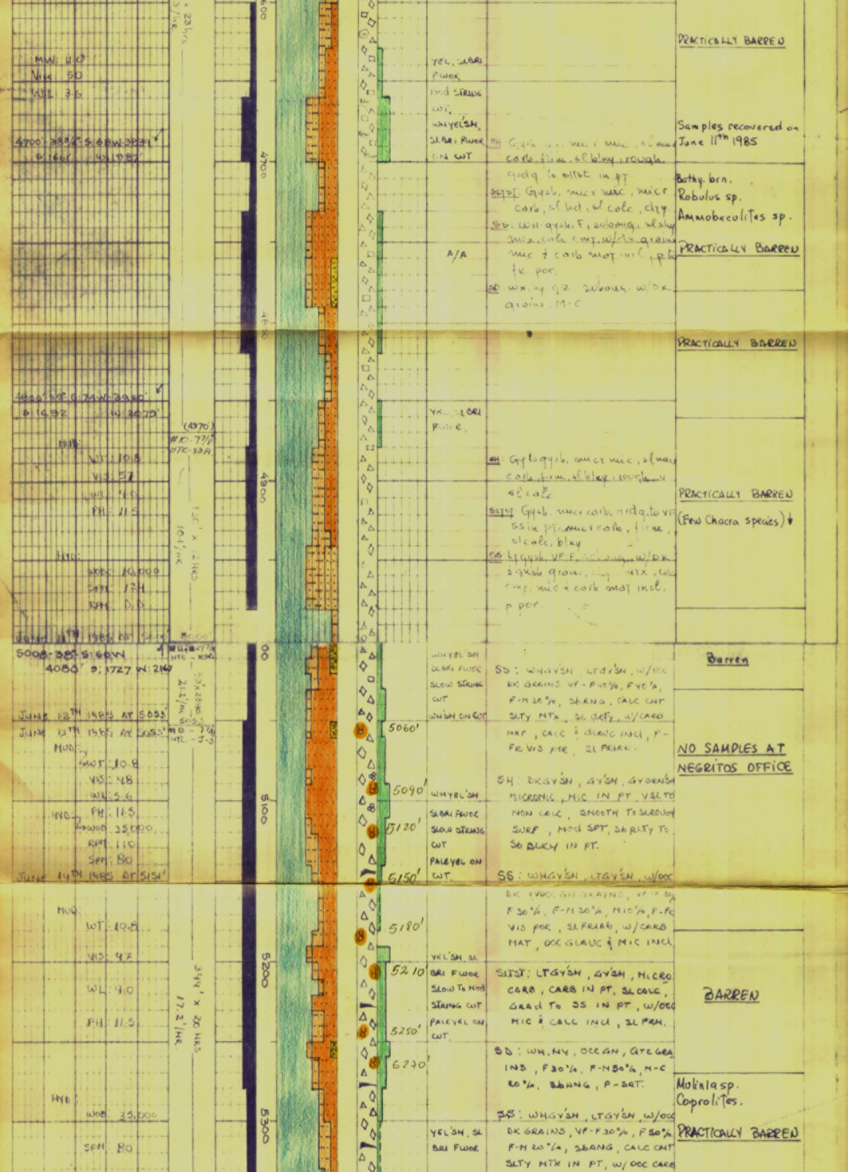
SS: Wh gysh, VF, subang, w/ dk & few gn grains, shy mtx, calc cmt, mic & carb mat incl, v p por

PRACTICALLY BARREN

Microgastropods.

PRACTICALLY BARREN

COARSENING UPWARD SEQ



MW: 11.0
Visc: 50
WL: 3.6

× 23 hrs
3'/hr

4700' 38¾° S 68W 3839'
S: 1661' W: 1882'

YEL, SLBRI FLUOR
MOD STRONG CUT,
WHYEL'SH, SLBRI FLUOR ON CUT

SH: Gysh, [illegible] mic, sl mic carb, firm, sl blky, rough, grdg to sltst in pt

SLTST: Gysh, micr mic, micr carb, sl hd, sl calc, [illegible]

SS: WH gysh, F, subang, sl slty mtx, calc cmt, w/dk grains, mic & carb mat incl, p to fr por.

A/A

SD: WH, ly QZ subang w/DK grains, M-C

PRACTICALLY BARREN

Samples recovered on June 11th 1985

Bathy. brn.
Robulus sp.
Ammobaculites sp.

PRACTICALLY BARREN

PRACTICALLY BARREN

4885' 38° S 74W 3950'
S: 1692 W: 2079'

(4970')
#10-7⅞"
HTC-X3A

130' × 12 HRS
10.1'/HR

MUD:
WT: 10.8
VIS: 57
WL: 4.0
PH: 11.5

HYD:
WOB: 10,000
SPM: 124
[illegible]: D.D

JUNE 11TH 1985 AT 5011'

5000'

YEL, SLBRI FLUOR.

SH: Gy to gysh, micr mic, sl micr carb, firm, sl blky, rough, sl calc

SLTST: Gysh, micr carb, grdg to VF SS in pt, micr carb, firm, sl calc, blky

SS: Lt gysh, VF-F, [illegible], w/DK & gysh grains, [illegible] mtx, calc cmt, mic & carb mat incl, p por.

PRACTICALLY BARREN
(Few Chacra species)↓

5008 - 38° S: 60W
4080' S: 1727 W: 2167

#11-7⅞
HTC-X3A

53' × 25 HRS
2.12'/HR
5053'

JUNE 12TH 1985 AT 5053'
JUNE 13TH 1985 AT 5053'

#B-7⅞
HTC-J-3

MUD:
WT: 10.8
VIS: 48
WL: 5.6
PH: 11.5

HYD:
WOB: 35,000
RPM: 110
SPM: 80

JUNE 14TH 1985 AT 5151'

WHYEL'SH
SLBRI FLUOR
SLOW STRONG
CUT
WH'SH ON CUT

SS: WHGY'SH LTGY'SH, W/OCC DK GRAINS VF-F 40%, F 40%, F-M 20%, SBANG, CALC CMT SLTY MTX, SL DRTY, W/CARB MAT, CALC & GLAUC INCL, P-FR VIS POR, SL FRIAB.

5060'

SH: DKGY'SH, GY'SH, GYGRN'SH MICROMIC, MIC IN PT, V SLTY, NON CALC, SMOOTH TO SLROUGH SURF, MOD SFT, SBRITY TO SBBLKY IN PT.

5090'

WHYEL'SH
SLBRI FLUOR
SLOW STRONG
CUT
PALEYEL ON
CUT.

5120'

5150'

SS: WHGY'SH, LTGY'SH, W/OCC DK & VOCC GN GRAINS, VF-F 30%, F 30%, F-M 30%, M 10%, P-FR VIS POR, SL FRIAB, W/CARB MAT, OCC GLAUC & MIC INCL.

5180'

Barren

NO SAMPLES AT NEGRITOS OFFICE

MUD:
WT: 10.8
VIS: 47
WL: 4.0
PH: 11.5

344' × 20 HRS
17.2'/HR.

YEL'SH, SL
BRI FLUOR
SLOW TO MOD
STRONG CUT
PALEYEL ON
CUT.

5210'

SLTST: LTGY'SH, GY'SH, MICROCARB, CARB IN PT, SL CALC, GRAD TO SS IN PT, W/OCC MIC & CALC INCL, SL FRM.

5250'

BARREN

SD: WH, HY, OCC GN, QTZ GRAINS, F 20%, F-M 50%, M-C 20%, SBANG, P-SRT.

6270'

Mulinia sp.
Coprolites.

HYD:
WOB: 35,000
SPM: 80

SS: WHGY'SH, LTGY'SH, W/OCC DK GRAINS, VF-F 30%, F 50%, F-M 20%, SBANG, CALC CMT SLTY MTX IN PT, W/ OCC CARB

YEL'SH, SL
BRI FLUOR

PRACTICALLY BARREN

RPM: 110

JUNE 15TH 1985 AT 5361

MUD WT: 10.8
VIS: 50
WL: 3.8
PH: 11.5

MVD: WOB: 35000
SPM: 80
RPM: 110

JUNE 16TH 1985 AT 5188

MUD:
WT: 10.9
VIS: 52
WL: 4.0
PH: 11.5

MVD:
WOB: 35000
SPM: 80
RPM: 110

5707' 39° S66W 4627
S: 1934 W: 2550

JUNE 17TH 1985 AT 5750'

MUD:
WT: 10.8
VIS: 50 5810
WL: 3.4
PH: 11.6

5860

MVD:
WOB: 35000
SPM: 80
RPM: 110

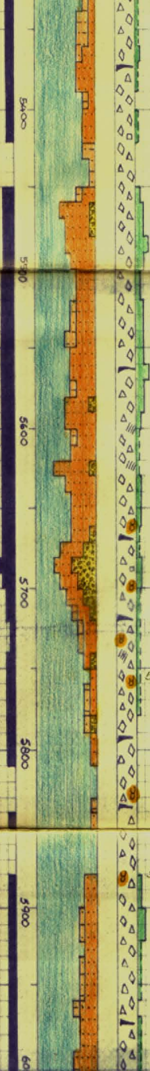
5989' 39¾ S70W 4845
S: 2001 W: 2716

5397'
#14 - 7⅞
HTC - J-3

353' x 22.5 HRS
15.7'/HR.

5750'
#18 - 7⅞
HTC - J-3

272' x 16½ HRS
16.4'/HR.



YEL'SH, SL BRI FLUOR

YEL, SL BRI FLUOR
SLOW STRMG CUT
WHSLYELSH ON CUT

YEL, SLBRI FLUOR
SLOW STRMG CUT
WHSLYEL'SH ON CUT

5660'
WHYEL'SH, SL BRI FLUOR

5700'

5730'

WHYEL'SH, SL BRI FLUOR
5760'

5830'

5880'
YEL, SLBRI FLUOR
SLOW STRMG CUT
SLYEL ON CUT

MAT & MIC INCL, SLFRM, P-VIS POR.

SH: GYBRN'SH, GY'SH, SLMICROMIC, SLMICROCARB, VSL TO NON CALC, SLSLTY, SMOOTH TO SLROUGH SURF, Mod SFT SbPLTY.

SLTST: GY'SH, LTGY'SH, SLMICCARB, SLCALC, W/OCC CARB MAT & MIC INCL, GRAD TO SS IN PT, FRM.

SS: WH'SH, WHGY'SH, W/OCC GN & DK GRAINS, F 40%, F-M 30%, M 30%, SbANG, CALC CMT, SLTY TO SDY, W/OCC CARB MAT INCL, P-FR VIS POR, SL FRM TO SLFRIAB.

SH: GY'SH, OCC BRN'SH, MICROMIC, MIC IN PT, SLMICROCARB, VSLCALC, SLCALC, SMOOTH TO SLROUGH SURF, Mod SFT Sb PLTY.

SD: WH, HY, VOCC GN, QTZ GRAINS, F 80%, F-M 20%, Sb ANG, FR SRT.

SS: WHGY'SH, LTGY'SH, W/DK & OCC GN GRAINS, F 30%, F-M 40%, M 20%, M-C 10%, SbANG, CALC CMT, SLTY MTX, W/OCC CARB MAT & CALC INCL, P-FR VIS POR, SL FRIAB TO FRM.

SD: WH, HY, OCC GN, QTZ GRAINS, F 40%, F-M 40%, M 20, SbANG, P-FR SRT.

SH: GYBRN'SH, BRN'SH, GY'SH, MICROMIC, SLMICROCARB, VSLCALC, SL SLTY, SMOOTH TO SLROUGH SURF, Mod SFT SbPLTY

SH: GY'SH, GYBRN'SH, OCC DKGY'SH, SLMICROMIC, SL MICROCARB, VSLCALC, SLTY IN PT, SFT, SbPLTY.

SS: WHGY'SH, LTGY'SH, W/OCC DK GRAINS, VF-F 40%, F 40%, F-M 20%, SbANG, CALC CMT SLTY MTX, W/CARB MAT & OCC MIC INCL, P-VIS POR, SLFRIAB

SLTST: LTGY'SH, GY'SH, SLMICCARB, SL CALC, W/OCC CARB MAT, MIC & CALC INCL, GRAD TO SS IN PT, SLFRM.

SS: WHGY'SH, LTGY'SH, W/OCC DK & GN GRAINS, F 50%, F-M 30%, M 20%, SbANG, CALC CMT SLTY TO SDY MTX, W/OCC CARB MAT & MIC INCL, P-VIS POR, SL

Virg. restinensis.
Valu. soturalis.
DK. arenaceous.
LW. PARIÑAS FAUNA TRZ
(EQUIVALENT)
PALEGREDA FAUNA TRZ

LW. PARIÑAS FAUNA TRZ
(Equivalent)
PALEGREDA FAUNA TRZ

LW. PARIÑAS ASSY TRZ
(EQUIVALENT)

Ostrocods punctacto

PRACTICALLY BARREN

Valu. restinensis (broken)
Valu. compressa.

LW. PARIÑAS ASSY VP
(Equivalent)

Coprolites.
Virg. restinensis.
Rob. moltiseptae.

PRACTICALLY BARREN

Virg. restinensis.
Troch. sp.

PRACTICALLY BARREN

Virg. restinensis.
Few pelagics sp.
Trochammina sp.

PRACTICALLY BARREN

PRACTICALLY BARREN

D.S.
5480'
VIII b

D.S
5750'

D.S.

JUNE 18TH 1985 AT 6011'

MUD: WT: 10.9
VIS: 55
WL: 4.0
PH: 11.5

6030

HYD: WOB: 35/
SPM: 140
RPM: 110/DD

6057

JUNE 19TH 1985 AT 6085'

6116', 38°, S60W, 4944
S: 2035 W: 2788

JUNE 20TH 1985 AT 6132

MUD: %

6164

WT: 11.1
VIS: 56

6200

WL: 4.0
PH: 11.6

6250

HYD:
WOB: 12/40,000
SPM: 80

6350

RPM: DD/110

JUNE 21ST 1985 AT 6395'

6395', 39¾, S59W 5161
S: 2124 W: 2939

MUD:
WT: 11.1
VIS: 56
WL: 4.0
PH: 11.5

HYD:
WOB: 40,000
SPM: 80
RPM: 110

JUNE 22ND 1985 AT 6614'

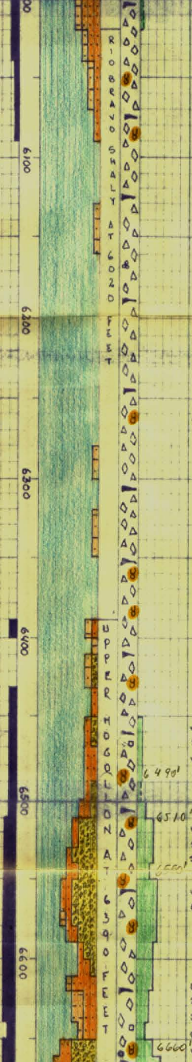
HYD:
WT: 11.9
VIS: 57

6022'
#16 - 7⅞
MTC - X3A
63' x 6½ HRS
10'/HR

6085'
#17 - 7⅞
HTC - XDA
47' x 4½
10½'/HR

6132'
#18 - 7⅞
HTC - J-3
336' x 20 HRS
16.3'/HR.

6458'
#19 - 7⅞
HTC - J-1
16 x 14½ HRS
14.9'/HR.



WHYEL'SH, SL BRI FLUOR

FRM TO MOD HD IN PT

SLTST: LTGY'SH, VSLMICROMIC, SL MICROCARB, SLCALC, w/OCC MIC CALC & DOL INCL SL FRM.

6050'

SH: GY'SH, GYBRN'SH, DKGY'SH SLMICROMIC, SLMICROCARB, VSL TO NON CALC, SFT, SB PLTY.

6090'

SLTST: LTGY'SH, GY'SH, VSLMICROMIC, SLMICROCARB, SLCALC, GRAD TO SS IN PT, w/OCC DOL & VOCC DK GRAINS INCL, FRM TO SLFRIAB

SH: DKGY'SH, GY'SH, OCC GYGRN'SH SLMICROMIC, OCC MIC, SLMICROCARB VSL TO NON CALC, SL STEELY TO WAXY SURF IN PT, MOD SFT, SB PLTY.

6270'

SLTST: GY'SH, OCC LTGY'SH, VSL MICROMIC, SLMICROCARB, VSL TO SL CALC, GRAD TO SS IN PT, w/ OCC CALC & MIC INCL, FRM

SH: GY'SH, GYBRN'SH, OCC BRN SLMICROMIC, SLMICROCARB, VSL TO NON CALC, SMOOTH TO MOD ROUGH SURF IN PT, MOD SFT SB PLTY.

6360'

6385'

SD: WH, HY OCC GN, QTZ GRAINS F 30%, F-M 30%, M 30%, M-C 10% SBANG, P-SRT

6430'

SS: WHGY'SH, LTGY'SH, w/OCC DK GRAINS, F 50%, F-M 40%, M 10%, SBANG, CALC CMT, SLTY MTX IN PT, w/ OCC CARB MAT & CALC INCL P-VIS POR, FRM TO VSLFRIAB IN PT.

WHYEL'SH SL BRI FLUOR V SLOW STRMG CUT

SD: WH, HY, OCC GN, QTZ GRAINS F 30%, F-M 40%, M 20%, M-C 10%, SBANG, P-SRT.

WHYEL'SH, SL BRI FLUOR SLOW STRMG CUT

SH: GY'SH, DKGY'SH, GYBRN'SH MICROMIC, SLMICROCARB, VSL CALC, SLROUGH SURF, MOD SFT SLFRM IN PT, SB PLTY.

WHSLYEL'SH ON CUT.
6580'

SLTST: LTGY'SH, GY'SH, VSLMICROMIC, SLMICROCARB, SLCALC, w/ OCC CARB MAT & VOCC GN GRAINS INCL, FRM.

WHYEL'SH, SL BRI FLUOR SLOW STRMG CUT

WHSLYEL'SH

SD: WH, HY, OCC GN, QTZ GRAINS

PRACTICALLY BARREN

PRACTICALLY BARREN

Vergol. restinensis ↓
Rob. youngquist:
BARREN

Rob. navarroensis? ↓
CAVINGS TAL.

CAVINGS ↓

PRACTICALLY BARREN

Ambulacral plate.
Echinoid spine.

BARREN

BARREN

Very calc. sample
Litho change
BARREN

SALINA - MOGOLLON

BARREN
SD: HY & MKY WH MC MST C SD SLPS QTZ TOO A SD HACKLY

BARREN

BARREN

BARREN

IIIb

D.S. 6120'

IIIb

D.S. 6390'

IIIb

D.S. 6570'

WL: 4.2
PH: 11.5

6674' 40° S58W $385'
S: 2223 W: 3092

HYD:
WOB: 40,000
SPM: 80
RPM: 110

JUNE 23rd 1985 AT 6800'

MUD:
WT: 10.9
VIS: 53
WL: 4.6
PH: 11.5

HYD:
WOB: 40,000
SPM: 80
RPM: 110

JUNE 24TH 1985 AT 6943

MUD:
WT: 10.9
VIS: 56
WL: 4.4
PH: 11.5

7083' 42° S66W 5664'
S: 2329 W: 3336

5½" CSG, Shoe AT 7108'
HYD:
WOB: 40,000
SPM: 80
RPM: 100

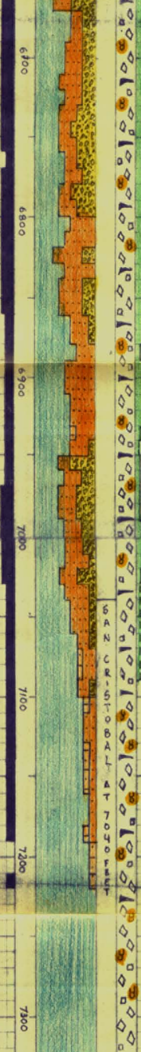
JUNE 25TH 1985 AT 7250'

6674'
#20 - 7⅞
HTC - J-3

194' x 13 HRS
14.9'/HR.

6868'
#21 - 7⅞

525 FT/37½ Hrs.
14 FT/Hr.



ON CUT — W/ OCC DK GRAINS, F-M 20%, M 30% M-C 30%, C 20%, SBANG, P-SRT

6690'
WHYEL'SH SL BRI FLUOR SLOW STRING CUT.
SS: WH'SH, WHGY'SH, LTGY'SH, W/ OCC GN & DK GRAINS, F 60%, F-M 30%, M 10%, SBANG, CALC CMT, SLTY TO SDY MTX, W/ OCC CARB MAT INCL, P-FR VIS POR SL FRIAB.
6730'

WHYEL'SH SL BRI FLUOR V SLOW STRING CUT. WH'SH ON CUT
6790'
SD: WH, HY, V OCC GN, QTZ GRAINS, F 30%, F-M 30%, M 30% C 10%, SBANG, P-SRT

6820'
DKYEL, DULL SLOW STRING CUT.
SS: WH'SH, WHGY'SH, DKYEL'SH W/ DK & OCC GN GRAINS, F 30%, F-M 30%, M 30%, M-C 10%, SBANG, CALC CMT, SLTY TO SDY MTX. W/ OCC CARB MAT & CALC INCL, P-FR VIS POR, FRM TO SL FRIAB.
PALEYEL ON CUT

6880'
DKYEL'SH, DULL, V SLOW STRING CUT
SH: GY'SH, GYGRN'SH, MICROMIC, SL MICROCARB, VSL TO NON CALC SLTY IN PT, W/ OCC LAM CARB INCL, Mod SFT, SB PLTY.
6930'
PALEYEL, ON CUT
SD: WH, HY, OCC GN, QTZ GRAINS F-M 40%, M 40%, M-C 20%, SBANG, P-SRT.

6970'
WHYEL'SH, SL BRI FLUOR V SLOW STRING CUT. WH'SH ON CUT
SS: WHGY'SH, LTGY'SH, W/ OCC DK GRAINS, VF-F 30%, F 40%, F-M 30% SBANG CALC CMT SLTY MTX, W/ OCC CARB MAT INCL, P-FR VIS POR, SL FRIAB.
7020'

WHYEL'SH, SL BRI FLUOR
SH: GY'SH, GYGRN'SH, OCC BRN'SH MICROMIC, SL MICROCARB, VSL TO NON CALC, SMOOTH TO SL ROUGH SURF, Mod SFT, SB PLTY.

7110'
SLTST: LTGY'SH, VSL MICROMIC, SL MICROCARB, VSL CALC, W/ CARB MAT, MIC & CALC INCL, SL FRM,
7130'

7160'
SS: WHGY'SH, LTGY'SH, W/ OCC DK GRAINS, VF-F 30%, F 30%, F-M 40%, SBANG, CALC CMT, SLTY MTX IN PT, W/ OCC CARB MAT INCL P-VIS POR, SL FRM TO FRM.
7200

SH: GY'SH, GYGRN'SH, OCC BRGY'SH MICROMIC, MIC IN PT, SL MICROCARB, VSL TO NON CALC, Mod SLTY IN PT, SMOOTH TO Mod ROUGH SURF, SL SFT, SB PLTY.
7260'
7285'

SH: GY'SH, GYGRN'SH, DK GY'SH MICROMIC, SL MICROCARB, VSL TO NON CALC, Mod SLTY IN

BARREN

D.S. 6760'
VII?

BARREN

Chillostomella polsoni (py).
Trad. globigerinif..
PG / Sn Assy TRC

Chilost. polsoni (py).
Bolimina detailis (py).
Virgulina dorrenii
PG / Sn Assy VP

PRACTICALLY BARREN

D.S. 7100'
barren

PG / SN Assy VP

SAN CRISTOBAL FM
(SH: BRN, ORANGE BRN W/ MICMICA SL CARBON COMP)

Chilost. polsoni.
Troch. globiger.
Arenaceous sp.
Bolimina pyr / Virg. restinensis.
PG / SN Assy VP-P

D.S. 7220'
VII

PG / SN Assy VP
CONTINUE SAN CRISTOBAL ON LITHO AND FAUNA CHARACTERISTICS

M.W: 10.9 pH: 11.5
vis: 50 Cl⁻: 150,000
W.L: 3.4

JUNE 26th - 27th - 28th - 29th - 30th
July 1st, 2nd, 3rd, 4th, 5th 7395
6th, 1985 AT 7392

7392
O # 22 7⅞"
HTC J-11

July 7th, 1985 AT 7432'

RPM 100
WOB 40
SPM 100

481 FT/42 Hrs.
11.4 FT/Hr

M.W: 11.0 pH: 11.5
vis: 56 Cl⁻: 170,000
W.L: 3.4
July 8th, 1985 AT 7703'

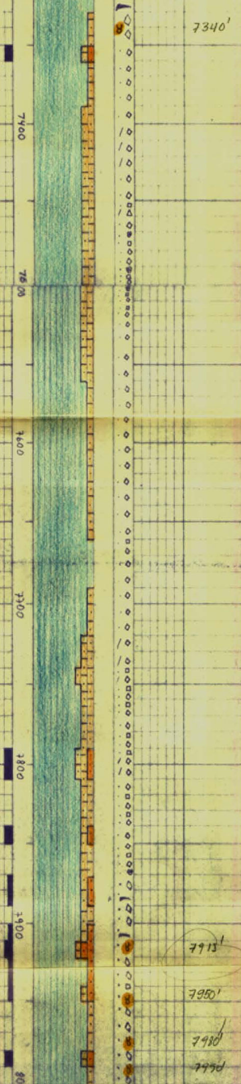
7703 38° S81W 6159
S: 2443 W: 5718

M.W: 11.0 pH: 11.5
vis: 55 Cl⁻: 160,000 7785 O
W.L: 3.6
July 9th, 1985 AT 7780'

M.W: 11.0 pH: 11.5
vis: 55 Cl⁻: 155,000
W.L: 4.0 7860 O
July 10th, 1985 AT 7873

7873
23 7⅞"
HTC J-11
JULY 11TH 1985 AT 7888'

MUD:
WT: 11.3
VIS: 48
WL: 3.0
PH: 11.5



PT, SMOOTH TO SL ROUGH SURF, MOD SFT, SBPLTY.

SH. brn'sh & brn'sh gy, sbplty/sbblky, sft occ. mod frm, sbfis/fis, no calc, micromic, sl. silty, sl. smt tex.

CREW ON STRIKE

SH. brn'sh gy, gy'sh occ. pale gy, sbplty/sbblky, sft & mod frm, fis grad sbfis, no calc, micromic.

SH. brn'sh gy, gy'sh & pale gy, sbplty/sbblky, sft & mod frm, fis occ. sbfis, no calc. micromic. sl. smt tex.

SLTST. gy'sh, sbblky/blky, sft & mod frm, sl. calc, occ. mic.

SH. brn'sh gy, gy'sh occ. pale gy, sbplty/sbblky, sft & mod frm, fis grad sbfis, no calc, micromic, loc. microcarb, sl. smt tex.

SH. brn'sh gy, gy'sh, pale gy, sbplty/sbblky, sft & mod frm, fis occ. sbfis, no calc, micromic, sl. slty.

SH. gy'sh, pale brn occ. pale gy, sbplty/sbblky, sft occ. mod frm, fis grad sbfis, no calc, micromic, sl. slty, sl. smt tex.

SH. gy'sh, brn'sh occ. lt brn & pale gy, sbplty/sbblky, sft & mod frm, sbfis/fis, no calc, v. micromic, sl. slty, sl. smt tex.

SLTST. gy'sh, blky, sft occ. mod frm, calc, occ. mic, loc. microcarb.

SS. gy'sh wh & gy'sh, v.f. gr, wl. srt, arg. mtx, no calc, mod hd, occ. dk grs incl, p. vis por.

SH. gy, brn'sh gy, Tr. sl. dk gy, sbplty/sbblky, mod frm grad frm, fis occ. sbfis, brit, no calc, micromic, loc. microcarb, smt tex.

SLTST: GY'SH, OCC LTGY'SH, VSL MICROMIC, SL MICROCARB, SL CALC, W/OCC CALC INCL, SL FRM.

SS. LTGY'SH, W/ OCC GN GRAINS, VF - F 70%, F 30%, SBANG, CALC CMT, SHY MTX, VP - VIS POR, FRM

SH: GYBRN'SH, GY'SH, OCC DKGY'SH MICROMIC, SLMICROCARB, VSLCALC SMOOTH TO SLROUGH SURF, MOD SFT, SBBLKY.

PG/SN ASSY V.P

D.S. 7370'
VII?

Arenaceous sp (dK color).
Trochammina sp.
Ostracods sp (dK color)
Chillost. polsoni (py).

PG/SN ASSY VP

SAN CRISTOBAL LITHO CHARACT. W/ PG/SN ASSY VP (FROM 7100)

Discorbis sp.
Valv. palegred..
Chilostomella polsoni.
Trocham. globiger..

Arenaceous sp. Robulus sp.
Discorbis sp.
Chilost. polsoni (py) /
Troch. globiger..
Virgulina dorreníi.
Bolivina debilis
Bulimina schencki. (py)

PG/SN ASSY POOR (FORAMS MOSTLY DARK COLOR OR PYRITIZED AND DWARF)

7630'
TAIL
VI
7660'

PG/SN ASSY VP (A.A)

(SAN CRISTOBAL FM LITHO)

D.S
7730'
VI

Chillost. polsoni / (py)
Arenaceous sp.
Bol. debilis (py)
PG/SN ASSY VP

Nodosaria vertebralis.
Chillost. pols.. (py)
Troch. globig.. Robulus sp.
Bul. deb. (py).
Rob. navarroensis.
PG/SN ASSY VP-P

Ch. polsoni. B. debilis.
Chilostomelloides sp. Troch. glob.
Glob. cassata.
Troch. ondegardoy } Balcones
Cyclam. garcilazoi } RWK TRC

D.S
7850'
BARREN

PG/SN ASSY A.A. besides:
R. navarr. Virg. dorr.
Pseud. manif. T. ondegar' } Balc
C. garcilaz. } RWK

Ch. polsoni. Arenaceous sp.
Troch. globig.
Pseudog. manif.
Cyclam. garcilazoi.
Troch. ondegardoy.
PG/SN VP
BALCONES RWK TR2

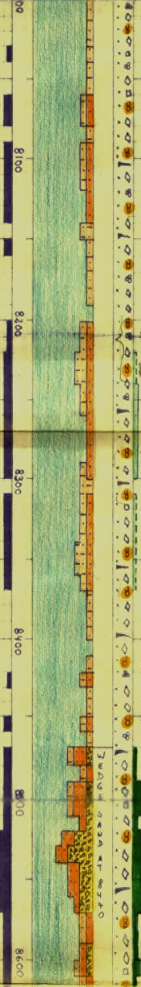
D.S
7920'

Troch. globig. - Rob. navarr.
Chilost. polsoni. B. debilis.
Troch. ondegardoy } Balc.
Cyclam. garcilazoi } RWK
Arenaceous sp.
PG/SN ASSY POOR
BALCONES RWK VP

T. glob. T. ondegardoy
Cycl. garcilazoi Bathy. carapit.
B. debilis (py) Pseud. manifest.

WOB: 40,000
SPM: 100
RPM: 85
8042
JULY 12TH 1985 AT 8068'
8110' 34° S87.5W 6488'
S: 2443' W: 3956
MUD:
WT: 11.3
VIS: 55
WL: 2.8
PH: 11.5
8184
HYD:
WOB: 40,000
SPM: 100
RPM: 80
JULY 13TH 1985 AT 8248'
MUD: WT: 11.2 VIS: 50
WL: 3.0 PH: 11.5
HYD: WOB: 40,000
SPM: 100 RPM: 80
JULY 14TH, 1985 AT 8310'
MUD: WT: 11.2
VIS: 50
WL: 3.0
PH: 11.6
8345
HYD: WOB: 40,000
SPM: 100
RPM: 80
JULY 15TH 1985 AT 8385'
JULY 16TH 1985 AT 8385'
MUD: WT: 11.3
VIS: 56
WL: 4.0
8429
PH: 11.5
HYD: WOB: 40,000
SPM: 100
RPM: 80
JULY 17TH 1985 AT ~~84~~ 8477
MUD:
WT: 11.3
VIS: 58
WL: 3.8
PH: 11.5
8534
HYD:
WOB: 40,000
SPM: 100
8510
RPM: 80
JULY 18TH 1985 AT 8590'
JULY 19TH 1985 AT 8597'
MUD

375' x 41 HRS
9.1'/HR.
8248'
#24 - 7 7/8
HTC - J-3
137' x 12 HRS
11.4'/HR.
8385'
#25 - 7 7/8
HTC - J-11
212' x 26 HRS
8.1'/HR
8597'
#26 - 7 7/8
HTC - J-2



8030'		SLTST: LTGY'SH, GY'SH, SLMICROCARB SLCALC, W/OCC GN GRAINS, MICA CALC INCL, FRM.	Ch. polsoni (PY) V. palegiedensis. PG/SN ASSY MST DWARF
8070' 8100'		SS: LTGY'SH, WHGY'SH, W/OCC DK GRAINS, VF-F 40%, F 50%, F-M 10%, SBANG, SLTY MTX IN PT W/OCC CARB MAT INCL, P-VIS POR, FRM.	INCREASE ARENACEOUS SP/ T. globig / Arenaceous sp / Gyroidina sp. CH. polsoni. Rob. sp. Troch. ondegardoy. Cyclammina garcilazoi. Chilostomelloide sp. Troch. ondegardoy / Cyclam. garcilazoi X Troch. globiger / Ch. polsoni. Virg. dorrenli. Bath. carapitanus. Arenaceous sp /
8130'		SLTST: GY'SH, OCC LTGY'SH, SLCALC SLMICROCARB, W/OCC GN GRAINS INCL, FRM.	PG/SN ASSY POOR BALCONES RWK P-C
8170' 8200'		SH: GYGRN'SH, GY'SH, OCC DK GRN, SLMICROMIC, VSLMICROCARB, SL CALC, MOD SLTY IN PT, MOD SFT, SBPLTY.	Troch. globig. / Troch. ondeg. X Cyclam. garcilaz / Bath. carapitanus. Chilost. polsoni / Chilostomelloide sp. Bol. debilis. Arenaceous sp / PG/SN ASSY POOR BALCONES RWK P-to SLC
8230'	WHYEL'SH, SL BRI FLUOR	SS: LTGY'SH, W/OCC DK GRAINS, VF-F 50%, F 30%, F-M 20%, SBANG, CALC CMT, SHY MTX, SLDRTY, W/OCC GLAUC INCL P-VIS POR, FRM.	Cyclam. garcilazoi. Troch. ondegardoy / Textularia sp. Arenaceous sp. Ch. polsoni. B. debilis. Chilostomelloides sp. PG/SN POOR BALCONES RWK POOR
8280'	WHYEL'SH, SL BRI FLUOR SLOW STRING CUT.	SH: GYBRN'SH, GY'SH, BRN'SH, MICROMIC, SLMICROCARB, VSL CALC, MOD SFT, SBPLTY/PLTY W/OCC GLAUC INCL.	CH. polsoni / Troch. globig. / Troch. ondeg / To X Cyclam. cf. simlensis / PG/SN ASSY POOR BALCONES RWK P-to SL COMM. Troch. ondegardoy / Vaginulina sp! Cyclam. garcilazoi. and PG/Sn ab. PG/SN P To SL COMMON BALCONES RWK POOR
8310' 8350'	WH'SH ON CUT WHYEL'SH, SL BRI FLUOR	SS: WHGY'SH, LTGY'SH, W/OCC GN & DK GRAINS, VF-F 50%, F 30%, F-M 20%, SBANG, CALC CMT, SLTY MTX IN PT, P-VIS POR, SL FRM.	Cycl. garcilazoi / Troch. ondegardoy / Ch. polsoni (PY) / To X Arenaceous sp X Bolivina debilis. Haplophrag. atahualpai. Troch. globiger / Pseudog. manifesta. Chilostomelloides sp. Rob. navarroensis.
8370'		SLTST: GY'SH, LTGY'SH, VSLMICROMIC, CARB IN PT, SLCALC, GRAD TO SS, SLFRM.	CH. polsoni / (PY) Pseud. manif. Chilostomelloides sp. Arenaceous sp X Troch. ondegardoy X Cyclam. cf. simlensis. Trocham. globiger / Cyclam. garcilazoi. PG/SN ASSY P-C BALCONES RWK P-SL-C
8420' 8450'		SH: BRN'SH, GYBRN'SH, MICROMIC SLMICROCARB, VSL TO SLCALC, SMOOTH SURF, MOD SFT, SBPLTY/PLTY.	Troch. ondegardoy X Arenaceous sp X Gastrop. sp. Chilostomella polsoni / Cyclam. garcilazoi / Troch. globig / B. debilis. Bath. carapitanus PG/SN POOR - Balcones RWK C
8490'	WHYEL'SH LTYEL MOD BRI FLUOR	SS: WHGY'SH, LTGY'SH, W/OCC DK & GN GRAINS, VF-F 50%, F 30% F-M 20%, SBANG, CALC CMT, SLTY MTX IN PT, W/CARB MAT INCL, P-VIS POR, FRM TO SLFRBL	Cyclam. garcilazoi. Arenaceous sp. Chilostomella polsoni.
8520'	SLOW TO MOD STRING CUT WHYEL'SH, ON CUT	SD: WH, HY, OCC GN GRAINS, QTZ GRAINS, W/OCC QTZTE GRAINS, F-M 30%, M 40%, M-C 20%, C 10%, SBANG/ANG, P-SRT.	PG/SN ASSY TRC BALCONES RWK TRC Cyclam. garcilazoi. Haplophrag. atahualpai Troch. ondegardoy. BALCONES RWK TRC-VP
8580'	LTYEL, SL BRI FLUOR SLOW STRING CUT	SS: LTGY'SH, WHGY'SH, W/OCC DK & GN GRAINS, VF-F 30%, F 50% F-M 20%, SBANG, CALC CMT SLDRTY, P-VIS POR, SL FRM.	PRACTICALLY BARREN CH. polsoni H (PY) } PG/Sn Assy TRC Arenaceous sp.
8620'			

D.S.
8050'
VI
8070'

D.S.
8240'
VII

VIS 60
WL 3.8
PH 11.5

HYD

WOB 40,000
SPM 100
RPM 80

JULY 20TH, 1985 AT 8710'

MUD:
WT : 11.5
VIS : 60
WL : 4.0
PH : 11.5

HYD

WOB 40000
SPM 100
RPM 80

JULY 21ST, 1985 AT 8834'

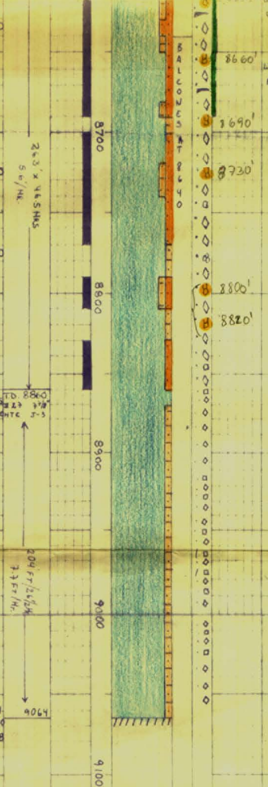
8860 20° N 77 W 7156
S: 2437 W: 4295
July 22nd - 25th, 1985 AT 8860

July 24th, 1985 AT 8923'

RPM 90
WOB 30
SPM 100

M.W: 11.2 PH: 11.5
VIS: 60 Cl: 140,000
W.L: 3.0

July 25th, 1985 AT 9064
9064' 21° N 74° W 7347.40
S: 2419.31 W: 4364.58



SH: GYBRN SH / BRN'SH, MICROMIC, SLMICROCARB, VSLCALC, SL SLTY, MOD ROUGH SURF, MOD SFT, SBRLTY.

SLTST: GY'SH, SLMICROCARB, SL CALC, W/ OCC CALC & MIC INCL GRAD TO SS IN PT, FRM.

SS: LTGY'SH, W/ OCC DK GRAINS VF-F 40%, F 50%, F-M 10%, SBANG, CALC CMT, MOD DST, W/CARB MAT INCL, P-VIS POR, SL FRM.

SH: GYGRN'SH, OCC DK GRN'SH DKGY'SH, MICROMIC, SLMICROCARB, VSL TO NON CALC, SMOOTH TO SLROUGH SURF, MOD SFT, SB RLTY.

SH: GY'SH, GYBRN'SH, BRN'SH, SLMICROMIC, SLMICROCARB, VSLCALC, MOD SFT, SBRLTY

DRILLING STOPPED ON JULY 21ST 1985 AT 09:30' HRS

RUN GO-WELL
DLL-MSFL-GR, CDL-CNL-GR, HDT, CST

SH. sl. brn'sh gy, gy, pred sbplty, mod frm, fis, brit, no calc, loc. micromic, occ wxy, smt Tex

SH. sl. brn'sh gy occ bcmg brn, mnr gy & sl. dk gy, sbplty/sbblky, mod frm, fis, brit, no calc, micromic smt Tex

SH. sl. brn'sh gy, gy bcmg sl. dk gy, sbplty, mod frm/frm, fis, brit, no calc, micromic, smt Tex.

WELL DEEPENED from 8860' To 9064' AFTER RUN LOGS

DG/SW ASST TRC
Cyclammina garcilazoi / Trach. ondegardoyi } Balc. RWK TRC

Troch. ondegardoy / Troch. globiger / Robulus discrepans / Cyclam. garcilazoi / DG/SW ASSY VP Ch. polsoni (py). (BALCONES FAUNA IN PLACE)

BALCONES FM

Globulina lacrima. Troch. ondegardoyi x Nodosaria paraensis. To / Pseud. marginul... Haploph. atahualpai. Cycl. garcilazoi / Tx Arenaceous sp. / Dentalina sp. Lagena malpasensis. BALCONES FAUNA COMM. PG/SA(P)Y P

Nod. paraensis. Lagena malpasensis. Troch. legasema. Epistom... Pseud. marginul. Troch. ondegardoyi x Cyclam. garcilazoi / Rob. discrepans. Bath. amplitaous. Troch. globiger. Vaginulina sp. Globulina lacrima

D.S. → 8800'
→ 8810'
V

T. ondegardoy / Troch. globiger / C. garcilazoi x Nod. paraensis. To/ Lagena malpasensis. Pelosina complanata. Pseud. marginuli. Bath. Taunaensis. Ch. polsoni (py) / Tx Rob. yoengsiti. / R. debilis x (py) V. palegrea (py) GOOD BALCONES FAUNA (ARENACEOUS & CALCAR.)

BALCONES FAUNA AS ABOVE COMMON TO ABD. (ARENACEOS AND CALCAREOUS SPECIES)

Spiroplectam. gryzbowskii. Lagena malpasensis. Globulina lacrima. Pseudogl. marginuliformis. Troch. ondegardoyi ⊗ Haplophrag. atahualpai / Cyclam. garcilazoi / Dentalina sp. Troch. globiger. x Ch. polsoni ? Pg. sp. Robulus cf R. discrepans. Lagena exagona. Marginulina aduncа ? Pg. sp. Vaginulina sp.

ABUNDANT BALCONES FAUNA
Besides:
Vaginulina sp.
Dentalina sp.
AND C-A ARENACEOUS SPECIES OF BALCONES

WELL STOPPED AT 8860' MD ON JULY 21ST 1985. THEN WAS DEEPENED TO 9064' AFTER RUN LOGS, AND STOPPED ON JULY 25/85.