1-4

Belco Lima

WORKING FILE
GEOSCIENCES

PRN

BELCO PETROLEUM CORPORATION OF PERU
GEOLOGICAL LOG
LITHOLOGICAL AND PALEONTOLOGICAL LOG
WELL 22A-21-599-D-LO6 (LO6-7)

WELL FILE

GEOLOGISTS: GEOPET O. CONCHA, A. GARRO
PALEONTOLOGIST: F. GADEA. T.
PALINOLOGYST:

AREA: LOBITOS OFFSHORE
BLOCK: 22A PARCEL: 21
PLATFORM: "LO6"
RIG CONTRACTOR: STORM DRILL III
TYPE OF WELL: Development
SURFACE COORDINATES: N 1'598,638.00 m E 124,656.84 m
BOTTOM COORDINATES: N 1'597,571.50 m E 124,512.36 m
K.B.E. 50' G.L.E. WATER DEPTH: 335'
AVERAGE DIRECTION: S 82° 17' W
AVERAGE OF VERTICAL ANGLE ON TARGET: 45° 7' 45° 07'
TOTAL MEASURED DEPTH: 5838'
TOTAL VERTICAL DEPTH: 4473'
DRILLING COMMENCED: ON December 21th, 1984.
DRILLING FINISHED: ON January 10th, 1985
SURFACE CASING: 13 3/8" csg. shoe at 669'
INTER CASING: 9 5/8" csg. shoe at 1518'
PRODUCTION CASING: 5 1/2" csg. shoe at 5808
ELECTRICAL SURVEYS: IEL-GR
REMARKS:

WORKING FILE
GEOSCIENCES

BELCO PETROLEUM CORP. OF PERU
DPTO. TECNICO
23 ENE. 1985
RECIBIDO

PETRO—TECH PERUANA S.A.
GEOLOGIST WELL FILE

SCANNED
By Jeuoq
Date 30-7-03

SHALE SILTSTONE SANDSTONE SAND CONGLOMERATE CLAYSTONE

DITCH SAMPLES
FROM ___ TO ___ EVERY ___
FROM ___ TO ___ EVERY ___
FROM ___ TO ___ EVERY ___
FROM ___ TO ___ EVERY ___

SYMBOLOGY FOR COMPOSITE AND/OR LITHOLOGIC AND PALEONTOLOGICAL LOG

IGNEOUS METAMORPHIC & SEDIMENTARY ROCKS
SHALE, CLAYSTONE, SILTSTONE, SANDSTONE, CONGLOM, LIMESTONE, CALCAREOUS SHALE, SILTY SHALE, SANDY SHALE, CALCAREOUS CLAYSTONE, SILTY CLAYSTONE, SANDY CLAYSTONE, CALCAREOUS SILTSTONE, SANDY SILTSTONE, CALCAREOUS SANDSTONE, SILTY SANDSTONE, SANDY LIMESTONE, DOLOMITIC LIMESTONE, CALCILUTITE, CALCARENITE, DOLOMITE, QUARTZITE, SCHIST, CHERT, SLATE, GNEISS, INTRUSIVE, EXTRUSIVE, TUFF, AGGLOMERATE/BRECCIA, NO SAMPLE

POROSITY TYPES
INTERGRANULAR — I
VUGGY — VU
FRACTURED — FR
LEACHED — L
CHALKY — C
UNDETERMINED — U

ACCESORIES
PYRITE — □
GLAUCONITE
DOLOMITE — △
CALCITE — ◇
GYPSUM
SHELL FRAGS
SLICKENSIDES
COAL / LIGNITE
MICA — V
MICROFOSSILS
CAVING — ↓

FAUNE AND ACCESORIES ABUNDANCE
● > 30 V/abundant
⊗ 21 - 30 Abundant
X 11 - 20 Common
/ 6 - 10 Rare
• 0 - 5 v/rare

CASING, LOST CIRC, D.S.T. 8000' 8080', CONV. CORE 7100' REC 20' 66% 7130', S.W.C. 8025' RECOVERY (FILL THE CIRCLE FOR SHOWS) 8036' NO RECOVERY, HOLE DEVIATION, CEMENT PLUG

DRAFT 102

22A-21-599-D-LO6 (LO6-7) 0-500'

DRILLING RATE MIN/FT
INTERPRETATIVE GRANULOMETRICAL CURVE
BIT LOST CIRC. DRILL ON SURVEYS TEST CORES
POROSITY GRADE
LITHOLOGY
FLUORESCENCE
LITHOLOGICAL DESCRIPTIONS
PALEONTOLOGICAL DETERMINATIONS
NO RECOVERED SAMPLES
DRILLING WITH SEA WATER
NO RECOVERY SAMPLES
TD 5838

SLST: Lt gysh, gysh, sl micr mica, sl micr carb - occ carb, calc, mod frm, gr vf grad to SS.

NO SAMPLES AT THE OFFICE

SS: wh-whgysh, VF 40% F 30% F-M 30% sbang, cal cmt, p-fr vis por, p srtd, mod fri, slty in pt, shy mtx in pt, w/occ carb ; mica incl.

yel bri fluor, slow strmg cut (in resid ring).

SD: wh, hy, occ dk grains, F 30% F-M 40% M 30% sbang - sl sbrnd, p srtd, qtz grains.

Microgastropod

Practically barren

SH: Gy, occ brn, sl micr mica, sl micr carb - occ micr carb, non calc, mod frm, sb plty, slty in pt, w/occ dol intbed.

Valv. suturalis

CC fauna traces

SD: wh, hy, occ dk gr, F 30% F-M 30% M 30% Cr 10% sbang - sl sbrnd, p srtd, qtz grains.

yel bri fluor, slow cut.

Valv. compressa

CC fauna traces

SS: wh-wh gy'sh w/dk grains VF 30% F 40% F-M 30% sbang, cal cmt, shy mtx in pt, p-fr vis por, p srtd, mod fri, w/occ carb ; mica incl.

Microgastropod (py)
Valv. suturalis I
Valv. suturalis T (bad pres) I
Robulus youngquisti T.
Pseudoglandulina mansfieldi I I
CC fauna w/PgRwK tr-up

SH: Brn, gy in pt, sl micr mica - occ micr mica, sl micr carb, non calc, mod frm, sb plty, slty in pt, w/occ pyr diss incl.

Drilling was stopped on January 10th, 1985 at 18:00 hrs.

RUN GO-WELL
IEL-GR

TOTAL DEPTH:
DRILLER: 5838 FT
LOGGER: 5832 FT

PETRO—TECH PERUANA S.A.
GEOLOGIST WELL FILE