BELCO PETROLEUM
CORPORATION OF PERU
(SUCURSAL DEL PERU)

Teléf - Negritos
863-864-865

Apartado No. 1
Talara - Perú

M. A. Ráez

Wellfile

G-115-84

October 17th, 1984

TO : E. Escobedo - Belco Coordinator

FROM : R. Morante - Wellsite Geologist

REF : Logging Report Well Z2A-21-579-D-L06 (L06-22)

October 14th, 1984

21:00 hrs.: Well ready to run logs.
21:30 hrs.: Rigging up Schlumberger equipments.
21:45 hrs.: Assembling and calibrating tools on surface.
22:00 hrs.: RIH w/DLL-MSFL-GR tool.
22:50 hrs.: Reached bottom hole at 6006'.
23:00 hrs.: Taking repeat section.
23:10 hrs.: Logging with DLL-MSFL-GR tool up to 5200'.
23:30 hrs.: RIH w/DLL-MSFL-GR to bottom, for check the curves resolution possible wrong lectures.
23:48 hrs.: Reached bottom hole for new log.
23:49 hrs.: Logging w/DLL-MSFL-GR tool.

October 15th, 1984

00:45 hrs.: Problems with spooling cable on drum to 4970'.
01:45 hrs.: Continue with operation log, csg. shoe at 2318'.
03:27 hrs.: Finished log, GR up to 380'.
03:40 hrs.: Tool on surface.
04:15 hrs.: Assembling films and making 2 copies for Belco Office.
04:45 hrs.: Assembling and calibrating FDC-CNL-GR tool on surface.
05:15 hrs.: RIH w/FDC-CNL-GR tool.
06:00 hrs.: Reached depth at 5850'.
06:10 hrs.: Logging w/FDC-CNL-GR tool.
07:00 hrs.: Don't function OK the tools, curves resolution were no representatives.
07:50 hrs.: Tools on surface, for check the assembly.
08:30 hrs.: Assembling and calibrating FDC-CNL-GR tool on surface, after repair the tool.

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09:00 hrs.: RIH w/FDC-CNL-GR tool.
09:40 hrs.: Reached the bottom hole.
09:45 hrs.: Logging w/FDC-CNL-GR tool and repeat section from 5850'.
10:15 hrs.: The density curves show incorrect readings for shales and sands, read a continue curve ± 15%.
10:55 hrs.: Tools on surface to change assembly.
11:00 hrs.: Assembling and calibrating FDC-CNL-GR tool on surface.
11:15 hrs.: RIH w/FDC-CNL-GR tool and calibrating.
11:40 hrs.: The density curve show intermitence.
12:00 hrs.: Tool on surface for change tool.
12:15 hrs.: Arrive new FDC tool from Schlumberger Talara Base.
12:30 hrs.: Assembling FDC-CNL-GR tool on surface and calibrating.
12:45 hrs.: RIH w/FDC-CNL-GR tool.
13:45 hrs.: Reached bottom hole.
13:46 hrs.: Logging w/FDC-CNL-GR tool and repeat section from 5850' to 3400' Rio Bravo Fm.
15:17 hrs.: Finished log until 3400'.
15:45 hrs.: Tool on surface.
16:00 hrs.: Rigging down Schlumberger tools.
16:15 hrs.: Well ready to condition and ran casing 5 1/2".
16:30 hrs.: Assembling films and making copies.

QUALITY LOGS

DLL-MSFL-GR : All calibrations were automatically in the computer.
The resistivity curves and GR are in the same depth on main log.
The repeat section is two feet off depth from the main log.
The calibrations were checked before and after to run log.
The conductivity/resistivity ratio is OK.
The logging velocity was 25'/min. approx.
The quality log is good.

FDC-CNL-GR : All calibrations were made automatically in the computer.
The calibrations were checked before and after to run log.
The repeat section 1.5 feet off depth from main log due to tool sticking after repeat section. Main log is on depth with DLL-MSFL-GR log.
The Gamma Ray near bottom is slightly higher than Gamma Ray from DLL-MSFL run due to formation activation.

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The curves ØN, ØD and GR are in the same depth.
The logging velocity was 25'/min. approx.
The parametersused were :

Mtx : 2.65 for Rio Bravo Fm.
Mtx : Limestone for neutron curve.
Fluid : 1.1 gr/cc because salinity was Cl^-130,000 ppm.
The quality log is fair.

NOTE : Logging Company : Schlumberger.
TD Driller : 5987'
TD Logger : 6006'
Logs programmed : DLL-MSFL-GR; FDC-CNL-GR
Logs ran : DLL-MSFL-GR:
DLL-GR from 5991'-2318', net log: 3673'
MSFL from 5991'-3500', net log: 2491'
GR from 2318'- 390', net log: 1928'
FDC-CNL-GR: from 5850'-3400': net log: 2450'
Wells for correlation : L06-13X, L06-21, L06-24
Maximum vertical angle : 46° to 2819'.

Ricardo Morante
Wellsite Geologist

Approved by : Alfredo Velasquez
GEOPET Supervisor

OK
RM/AV/elv
cc: MAR - Lima
Well file