

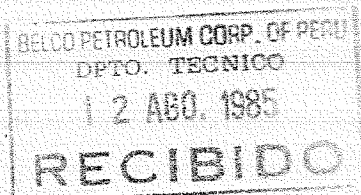
BELCO PETROLEUM

CORPORATION OF PERU
(SUCURSAL DEL PERU)

TELEF. — NEGRITOS
863 - 864 - 865

APARTADO N° 1
TALARA - PERU

G-77-85



July 23rd, 1985

To : Edgar Escobedo R. - Belco Coordinator
From : Julio Ortiz N./Alejandro Garro E. - Wellsite Geologists
Ref : Logging Report Well Z2A-21-629-XD-L06 (L06-9X)

July 21st, 1985

19:00 hrs.: GO's crew arrived to "L06" platform.
19:30 hrs.: Rigging up Go Well equipments.
23:10 hrs.: Well ready to run logs.
23:20 hrs.: Assembling DLL-MSFL-GR tools.
23:25 hrs.: Stopped the hydraulic motor (the hydraulic motor started to work properly, but due to the condensation inside the diesel tank small particles of parafine blocked the fuel line and stopped the motor. The fuel line was purged and the motor worked properly).

July 22nd, 1985

02:30 hrs.: Calibrating DLL-MSFL-GR tools on surface.
03:10 hrs.: RIH w/DLL-MSFL-GR tools.
05:10 hrs.: Reached bottom hole 8830'
05:15 hrs.: Logging w/DLL-MSFL-GR tools and logging repeat section casing at 2494'.

NOTE : The MSFL tools could not be run because the hole was sticky over pull were of around 3000 # (6500 # total) and coming up the hole was very big and a poor pad contact.

08:55 hrs.: Finished log GR at 333' calibrating OK.
09:10 hrs.: Tools on surface.
09:20 hrs.: Assembling and calibrating CDL-CNL-GR tools on surface.
11:10 hrs.: RIH w/CDL-CNL-GR tools.
13:05 hrs.: Reached depth at 7100'.
13:15 hrs.: Logging w/CDL-CNL-GR tools in two intervals and logging repeat section.
15:20 hrs.: Finished log w/CDL-CNL-GR tools. Calibrating OK.
15:50 hrs.: Tools on surface.
16:00 hrs.: Assembling and calibrating HDT tool on surface.

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G-77-85
Page # 2

17:00 hrs.: RIH w/HDT tool.
18:55 hrs.: Reached bottom hole 8830'.
19:00 hrs.: Logging w/HDT tool and logging repeat section.
22:50 hrs.: Finished log w/HDT tool calibrating OK.
23:20 hrs.: Tool on surface.

July 23rd, 1985

00:30 hrs.: Rigging up and calibrating CST tool.
01:20 hrs.: RIH CST w/ 24 shoots.
02:50 hrs.: On bottom.
02:55 hrs.: Started shoot.
04:30 hrs.: POH CST tool.
05:30 hrs.: Tool out.
05:40 hrs.: Rigging down Go Well.

QUALITY LOGS

DLL-GR : Calibrations before and after logging were good.
Mechanical zeros are in scale.
The resistivity and GR curves are in the same depth.
The Conductivity-Resistivity ratio are checking.
The logging velocity was 45'/min.
Logging interval : DLL from 8834' to 2494' = 6340' net log.
GR from 8830' to 400' = 8430' net log.
The quality log is good.

CDL-CNL-GR : Calibrations before and after logging were good.
The density Neutron and GR curves are in the same depth.
The logging velocity was 30'/min.
Logging interval : Mogollon from 7070' to 6300' = 770' net log.
Rio Bravo " 5780' to 3500' = 2280' " "
Total 3050' net log
The parameter used was :
Density matrix : 2.68 gr/cc Mogollon Fm.
2.65 gr/cc Rio Bravo Fm.
Fluid density : 1.10 gr/cc because salinity was 140000 PPM.
The quality log is good.

HDT : Calibrations before and after logging were good.
Don't miss any curve.
The values were checked with values of the area, they were OK.
Logging velocity was 30'/min.

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G-77-85
Page # 3


Logging interval 8830' to 2495' = 6335' net log.
The quality log is good.

CST : The tool was assembly with 24 shoots.
The depths were checked before and after run CST tool.
The results were : Programmed : 24 shoots.
Recovered : 20 shoots 83.3%
Lost : 4 shoots 16.7%
Consequently the quality log was fair to good.

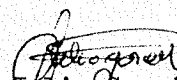
Remarks : It was taking twice samples at 8725'

<u>NOTE</u> : Logging Company	: Go Well International
TD driller	: 8860'
TD logger	: 8830'
Log programed	: DLL-MSFL-GR, CDL-CNL-GR and HDT
Log ran	: DLL-GR, CDL-CNL-GR and HDT, CST.
Maximum vertical angle	: 42 3/4° at 2686'
Well for correlation	: L06-22 and Y-X-18
DLL-GR	: 6340' net log
CDL-CNL-GR	: 3050' net log
HDT	: 6250' net log
Total	15640'


Julio Ortiz N.
Wellsite Geologist


Alejandro Garro E.
Wellsite Geologist

Approved by :


Julio Garcia C.
GEOPET Supervisor

JON/AGE/JGC/Elv
cc: MAR - Lima
Well file