Well File

PETRO - TECH PERUANA S.A.

TO: P. Alarcon

FROM: V.Peralta

SUBJECT: **PBU - WELL LO6-23**

DATE: July 13, 2001 **GEOSC – 206 - 01**

A build up of 12 hours plus a flowing and static gradient were recorded in order to know the current conditions of Upper Basal Salina reservoir in well of the reference. A summary of results is as follows:

Date	July- 05-2001
Perforated intervals (ft, MD)	8042'-7904'
Formation opened	Upper Basal Salina
Bomb depth, ft, MD, (VD)	7973', (7396')
MPP, ft, MD (VD)	7973', (7396')
Bottom Hole Flowing Pressure, psig	872
Well Head, Pressure (Psig)	60
Pressure at Bomb depth, psig	1301
Pressure at MPP, psig	1301
Fluid Level, ft, MD, (VD)	5829'MD, 5487'VD
Avg. Fluid gradient, psi/ft	NR
Extrapolated Pressure (P), psig	+1698
Formation Gradient, psi/ft	0.223
Average oil permeability, md	0.65
Skin Factor	-2.26
Oil Productivity Index, Bbls/psi	0.044

Comments:

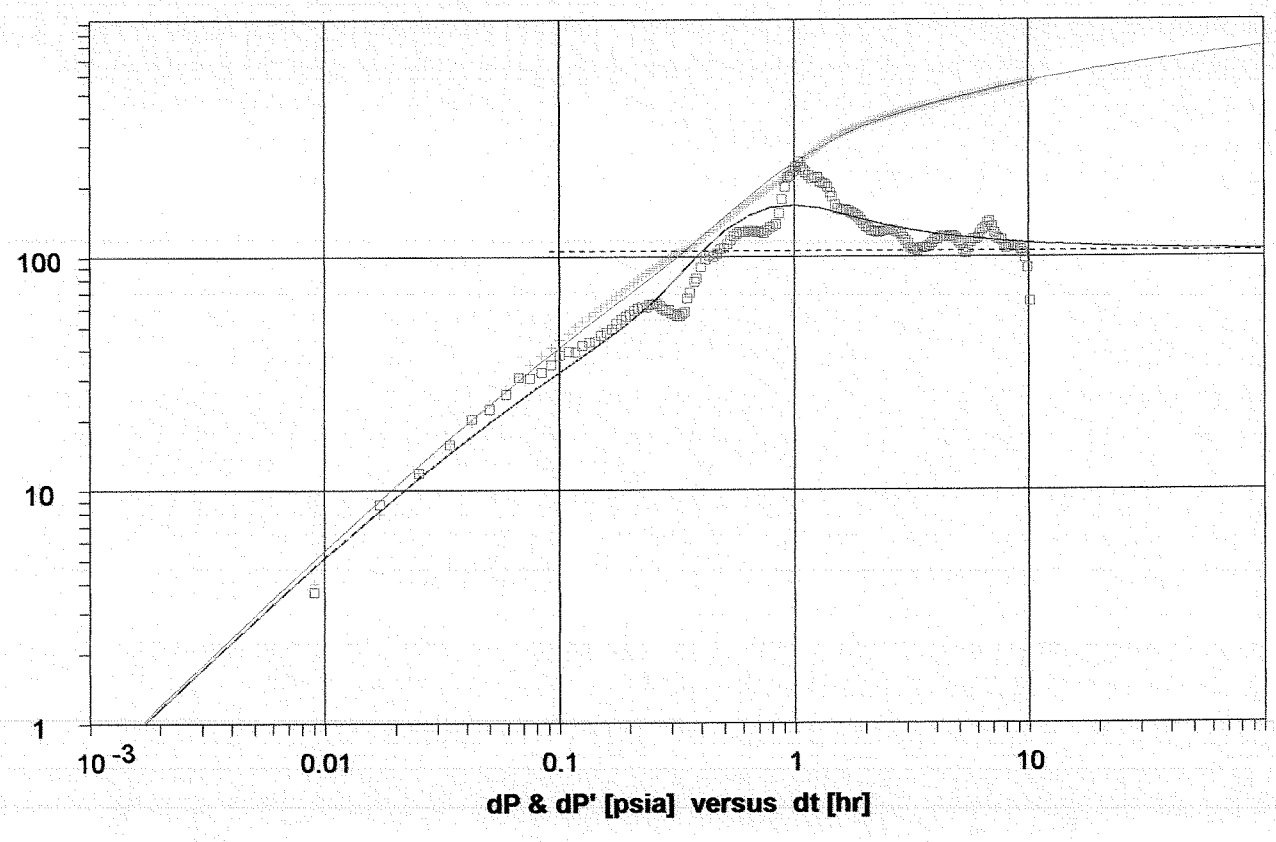
- Matching Log-Log plot indicates a pressure behavior typical of an homogeneous reservoir.
- Due to short shut in time, the proximity of a fault effect or other limits are not observed.
- Extrapolated pressure is 1698 psig. This result is considered as an approximation to the reservoir pressure. If it is compare to the initial pressure of 3976 psig, a substantial depletion is observed after producing 6083 bls. of fluid (2709 bls oil and 3374 bls of water).
- For the more optimistic case, the OOIP is estimated to be between 50 – 70 MSTB.
- The water production could be explained due to relative high water saturation in almost all the section.

For future pressure tests, it is recommended to repeat this build up considering a minimum 72 hours of shut in time, with the purpose to know the reservoir limits and verify the reservoir conditions.

cc: J.Meyers
O.Nieto
R.Corman
File

LO6-23 : Log-Log

Company	PETRO-TECH
Field	LOBITOS
Well	LO6-23
Test	SHORT-PBU

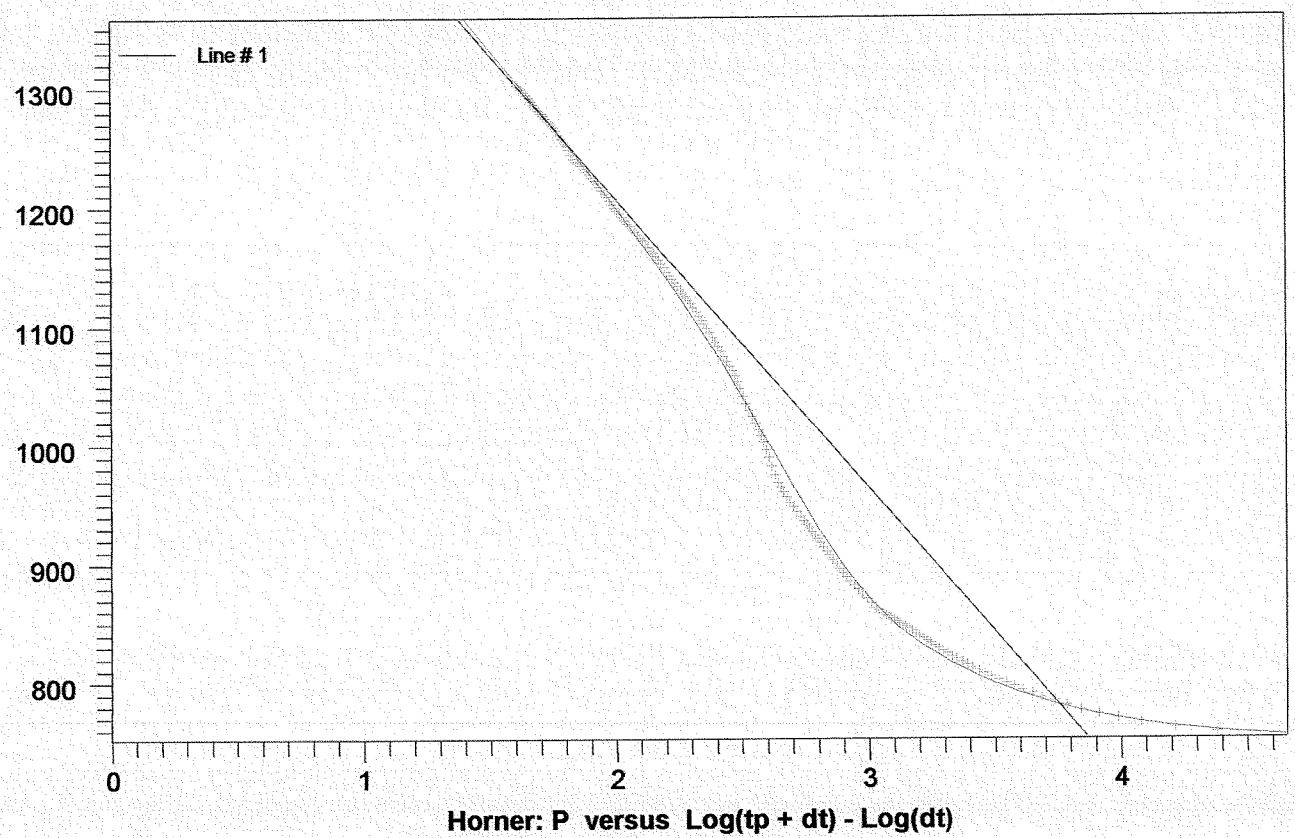


Flow Period #	2
Rate	0 STB/day
Rate Change	36 STB/day
P at dt=0	747.98 psia
Smoothing	0.1
Pi	1698.34 psia
Time Match	5.53 (hr)-1
Pressure Match	0.00479 (psia)-1

RESERVOIR	Homogeneous
BOUNDARY	Infinite
WELL	Storage & Skin
Storage C	0.00176 STB/psi
Ci/Cf	1.682
Alpha	476
Skin factor	-2.26
Delta P Skin	-470.666 psia
kh	26.7 md.ft
k	0.65 md
Mobility k/mu	0.8
Investig. R	61.1 ft
Tested Volume	8571.72 Barrels

LO6-23 : Flexible

Company	PETRO-TECH
Field	LOBITOS
Well	LO6-23
Test	SHORT-PBU

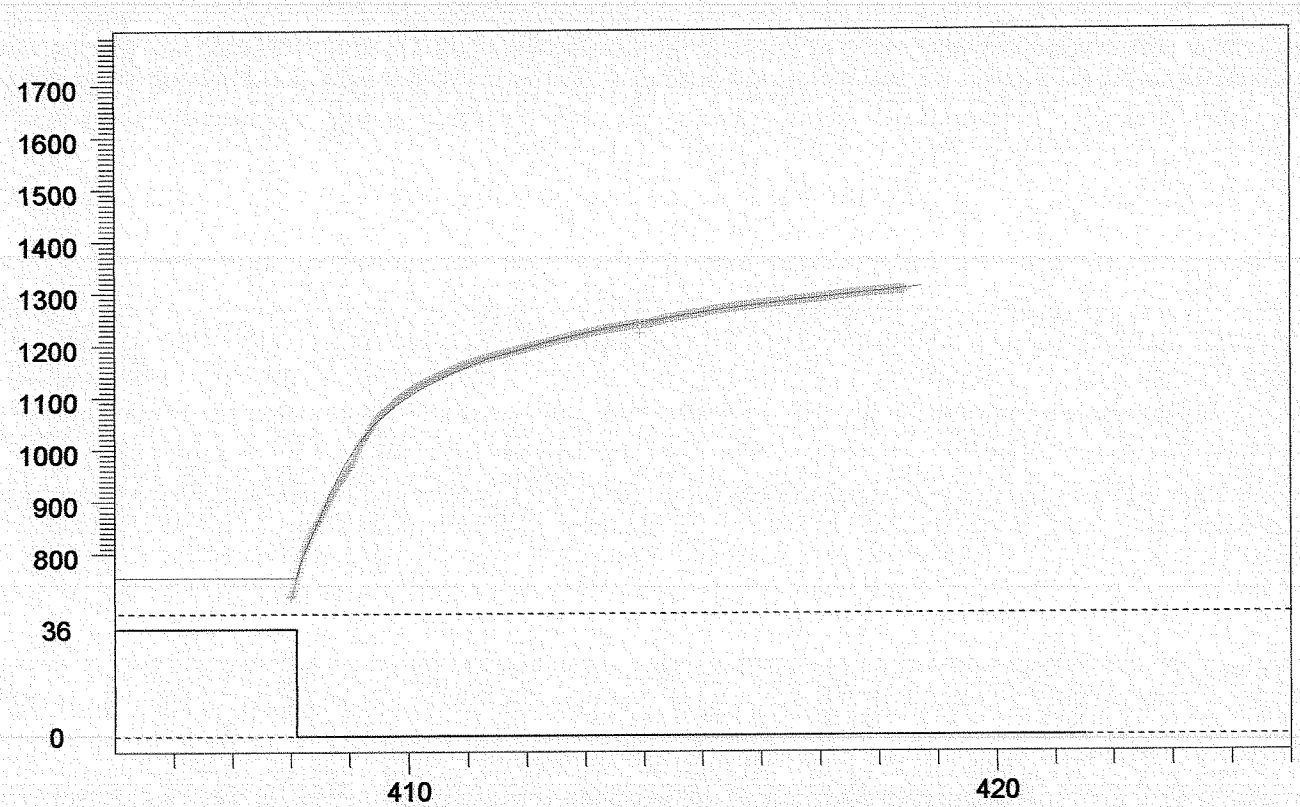


Flow Period #	2
Rate	0 STB/day
Rate Change	36 STB/day
P at dt=0	747.98 psia
Pi	1698.34 psia

Flexible line #	1
P vs	Log(dt), BU
Slope	-243.063
Intercept	1691.21
kh	26.3 md.ft
k	0.64 md
Skin factor	-2.34

LO6-23 : Simulation

Company PETRO-TECH
Field LOBITOS
Well LO6-23
Test SHORT-PBU



P [psia] & Q [STB/day] versus T [hr]

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