



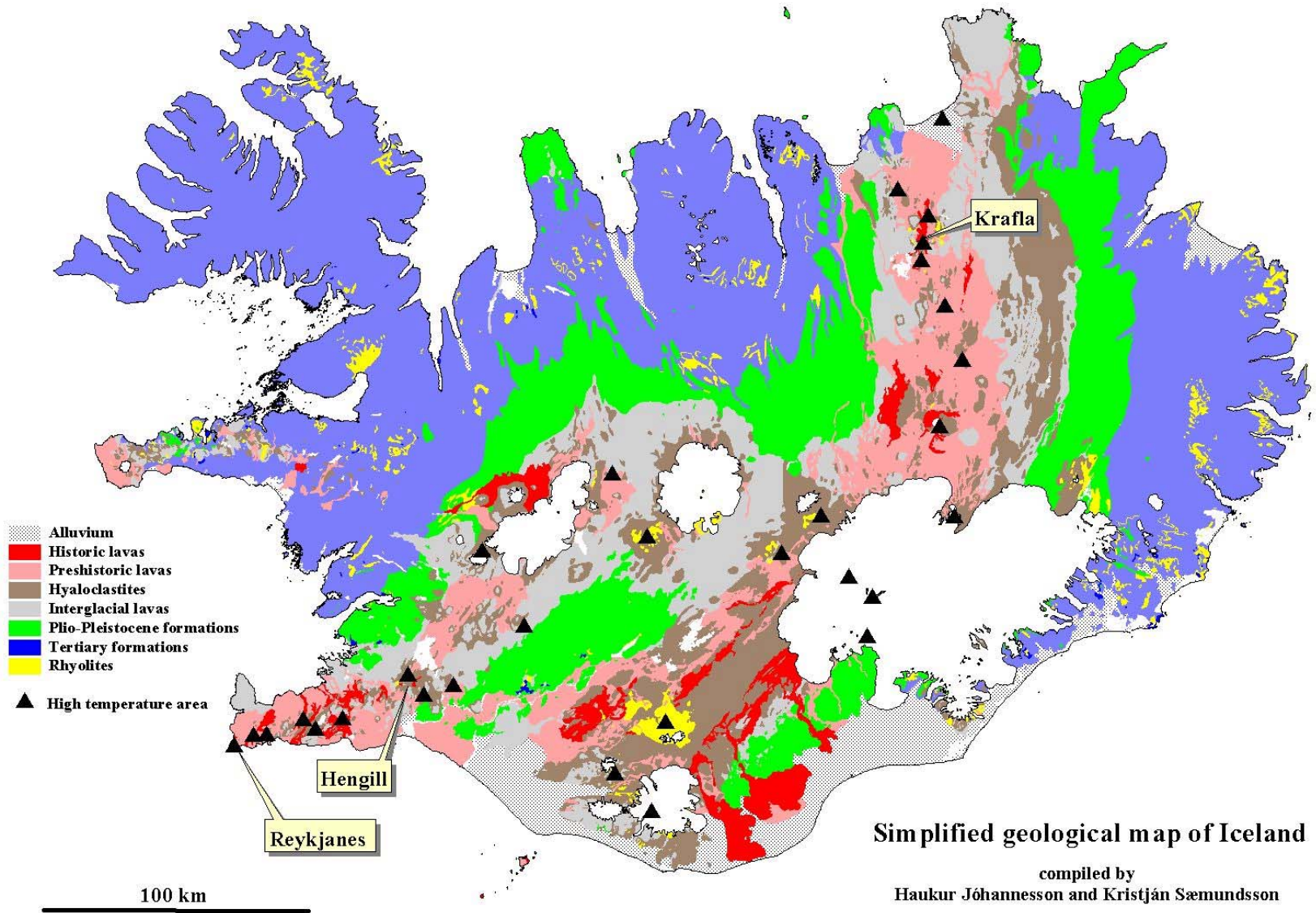
# IDDP – Workshop 5

7-8 March 2007



## Introduction

Gudmundur Omar Fridleifsson



**Simplified geological map of Iceland**

compiled by  
Haukur Jóhannesson and Kristján Sæmundsson



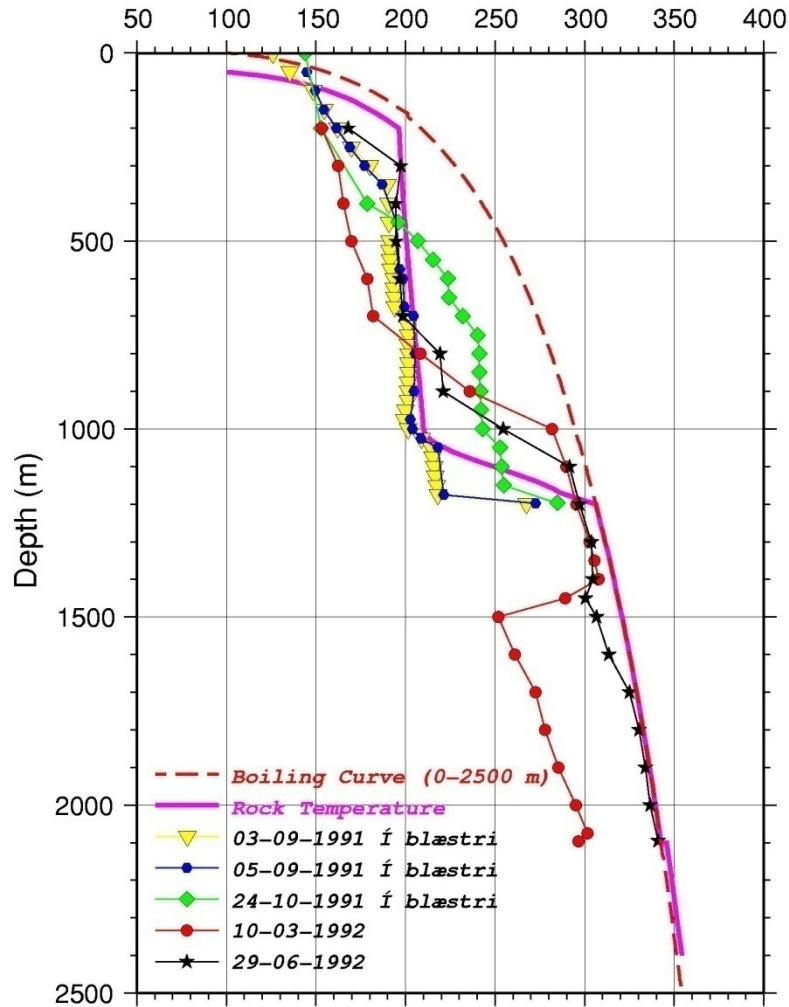
I DDP ?

Krafla

I DDP ?

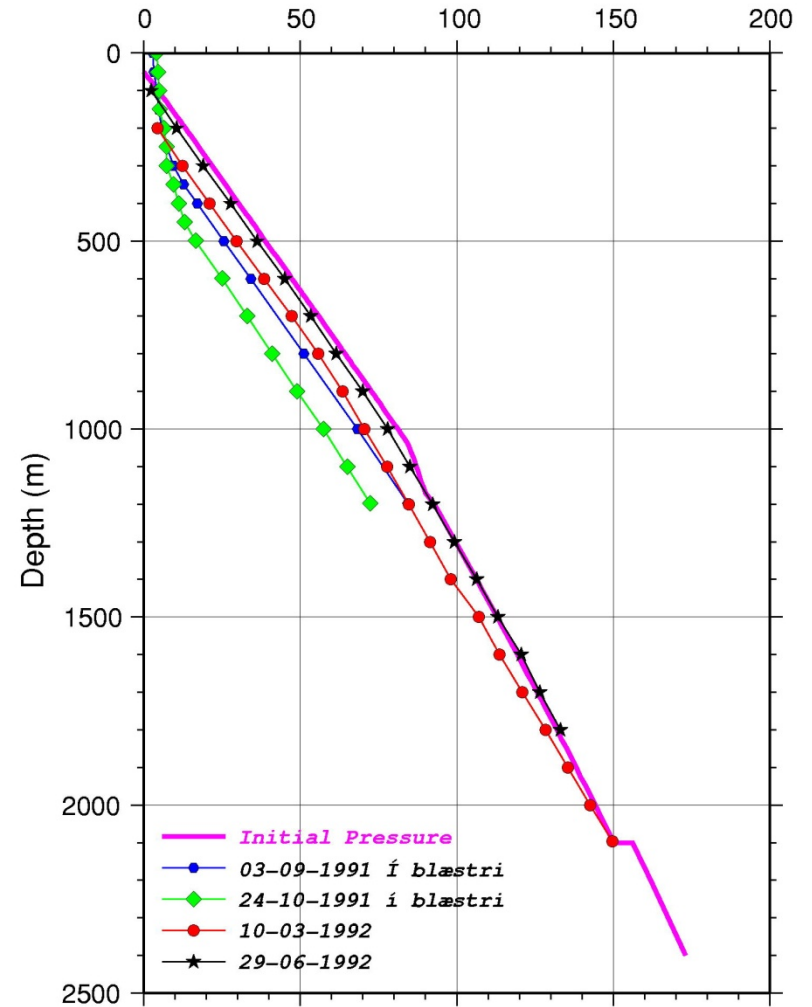
### Krafla Well\_KG-26

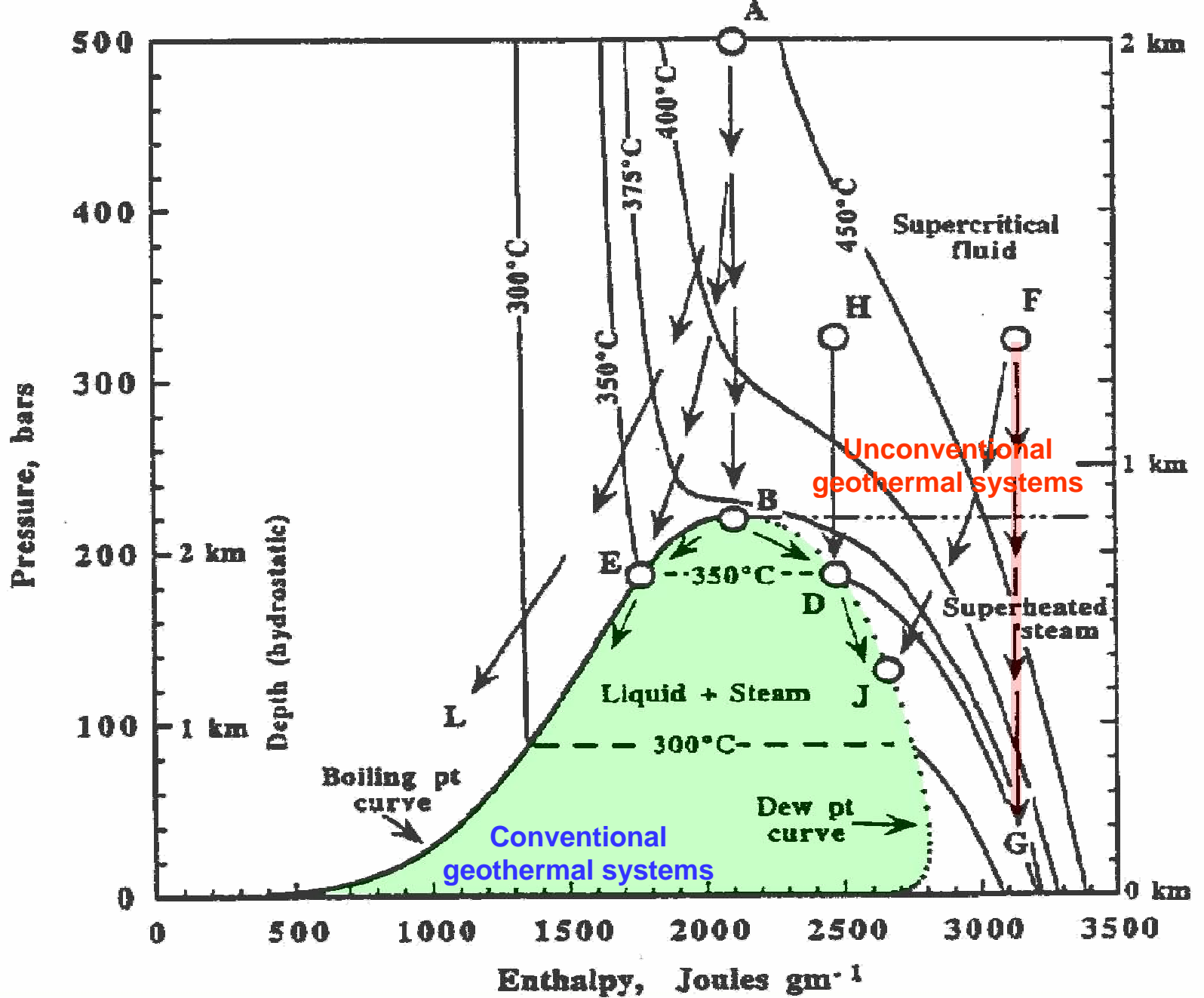
Temperature (°C)



### Krafla Well\_KG-26

Pressure (Bar)





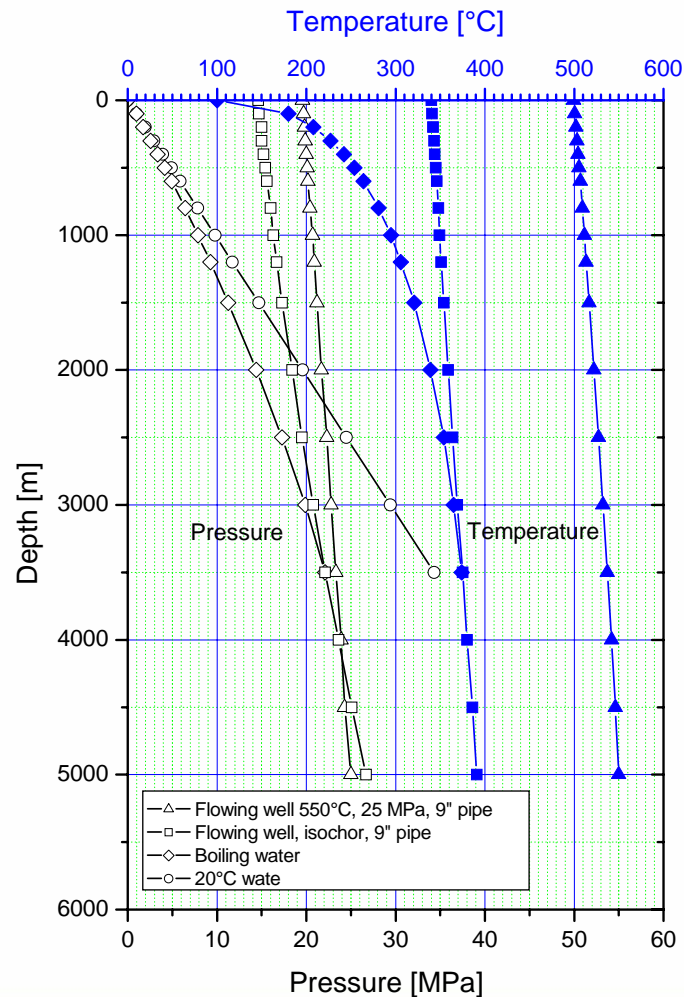
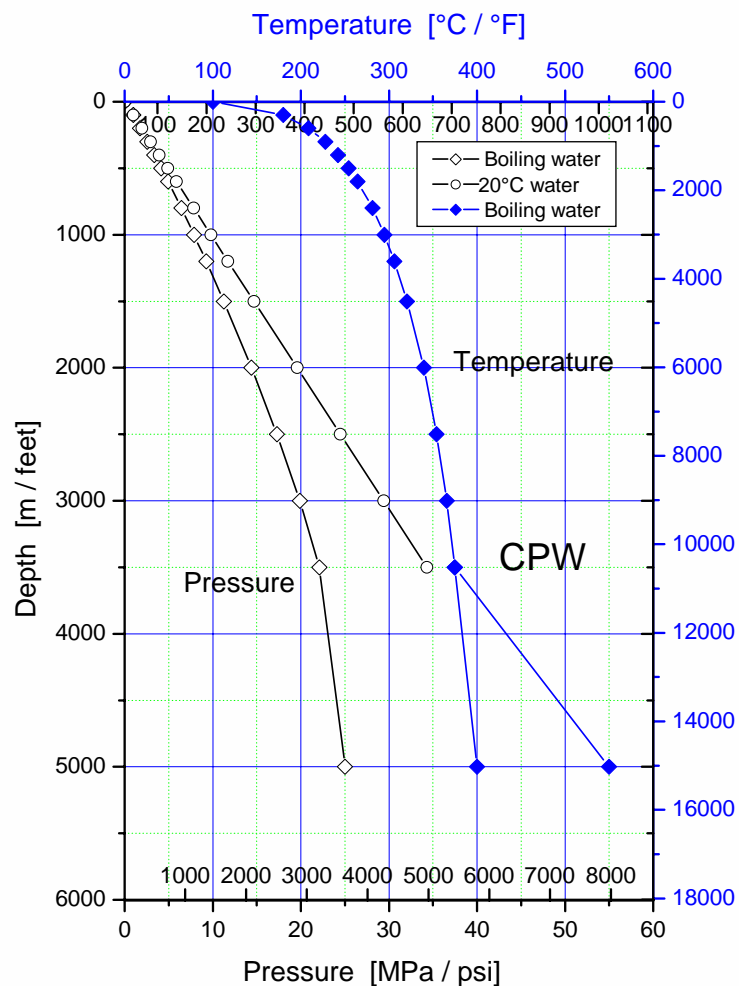


# Basic T and P assumptions

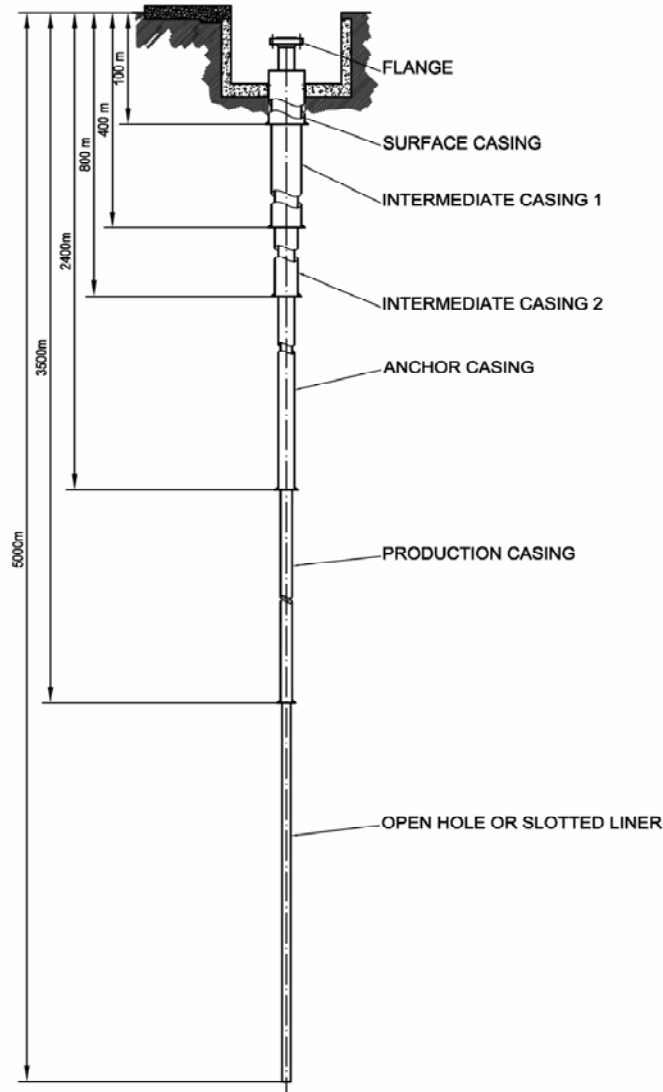
- Temperature will increase with depth and follow the boiling point curve of pure water down to the critical point (3400 – 3500 m)  
BPD-curve down to CPW
- Pressure will be hydrostatic down to the critical point (CPW).
- Below CPW:
  - Scenario 1: Temperature will increase by 100°C/km
  - Scenario 2: Constant density - isochore



# Reservoir temperature and pressure Static and Flowing



# Profiles of well A (large) and C (small)



## WELL A

	DRILLING BIT	
FLANGE		ø14"ANSI 2500
SURFACE CASING	ø35"	ø30"
INTERMEDIATE CASING 1	ø28"	ø24"
INTERMEDIATE CASING 2	ø21"	ø18 5/8"
ANCHOR CASING	ø17 1/2"	ø14"
PRODUCTION CASING	ø12 1/4"	ø9 5/8"
OPEN HOLE	ø8 1/2"	

## WELL C

	DRILLING BIT	
FLANGE		ø10"ANSI 2500
SURFACE CASING	ø26"	ø22 1/2"
INTERMEDIATE CASING 1	ø21"	ø18 5/8"
INTERMEDIATE CASING 2	ø17 1/2"	ø13 3/8"
ANCHOR CASING	ø12 1/4"	ø9 7/8"
PRODUCTION CASING	ø8 1/2"	ø7"
OPEN HOLE	ø6 1/8"	





