

Jabung Block Enhanced Oil Recovery (EOR)

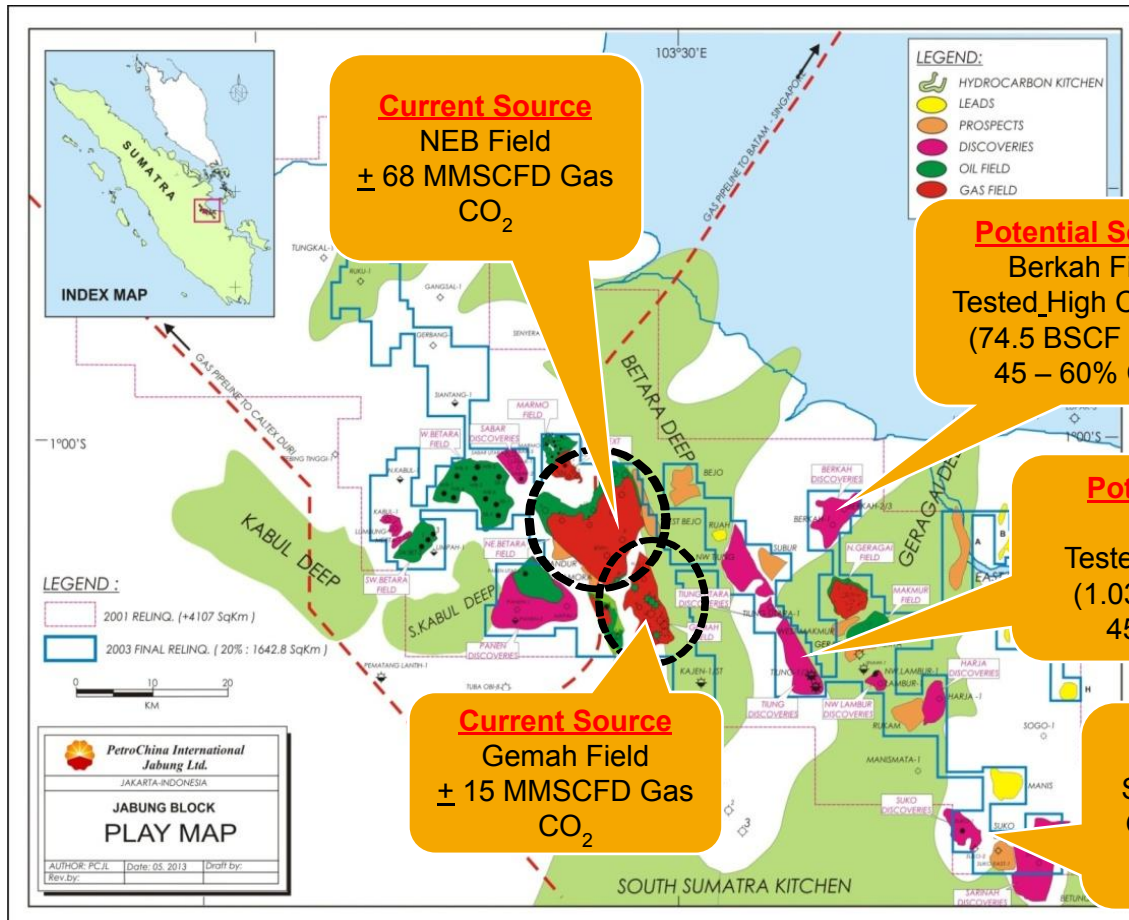
Petrochina International Jabung Ltd.

EOR STUDY / PROGRAM PLAN

No	Field Name	Current Status
1	Gemah	<ul style="list-style-type: none">a. Background: is one of the priorities based on the Presidential Action Plan study results conducted by SKK Migas and FTTM ITB in the context of the Presidential Action Plan (Renaksi 2016).b. Two (2) EOR study has been conducted previously:<ul style="list-style-type: none">▪ Gemah CO2 Injection Simulation Study – Completed in Year 2012,▪ Laboratory Study of Gemah CO2 Injection – Completed in Year 2017.c. Plan to conduct Field trial Gemah-6 CO2 Injection Huff and Puff in mid November – mid December 2022.d. Next Plan: to Conduct Full Scale CO2-EOR Feasibility Study.
2	Makmur	<ul style="list-style-type: none">a. Background: is one of the priorities based on the Presidential Action Plan study results conducted by SKK Migas and FTTM ITB in the context of the Presidential Action Plan (Renaksi 2016).b. Water injection implementation for pressure maintenance program in A-37 reservoir since November 2000 until now.c. No any EOR study performed previously.d. Next Plan: to conduct Pre-feasibility EOR Study for the purposes of the EOR Screening, Laboratory Study, GGR Study for EOR Feasibility Study, Conceptual Facility Study, and Economic Evaluation of Fullscale CEOR

CO₂ SOURCES IN JABUNG BLOCK

CO₂ production around 60 - 85 MMSCFD per day which is coming from produced Hydrocarbon in Gemah and Northeast Betara (NEB) fields after separation process in Betara Gas Plant (BGP).

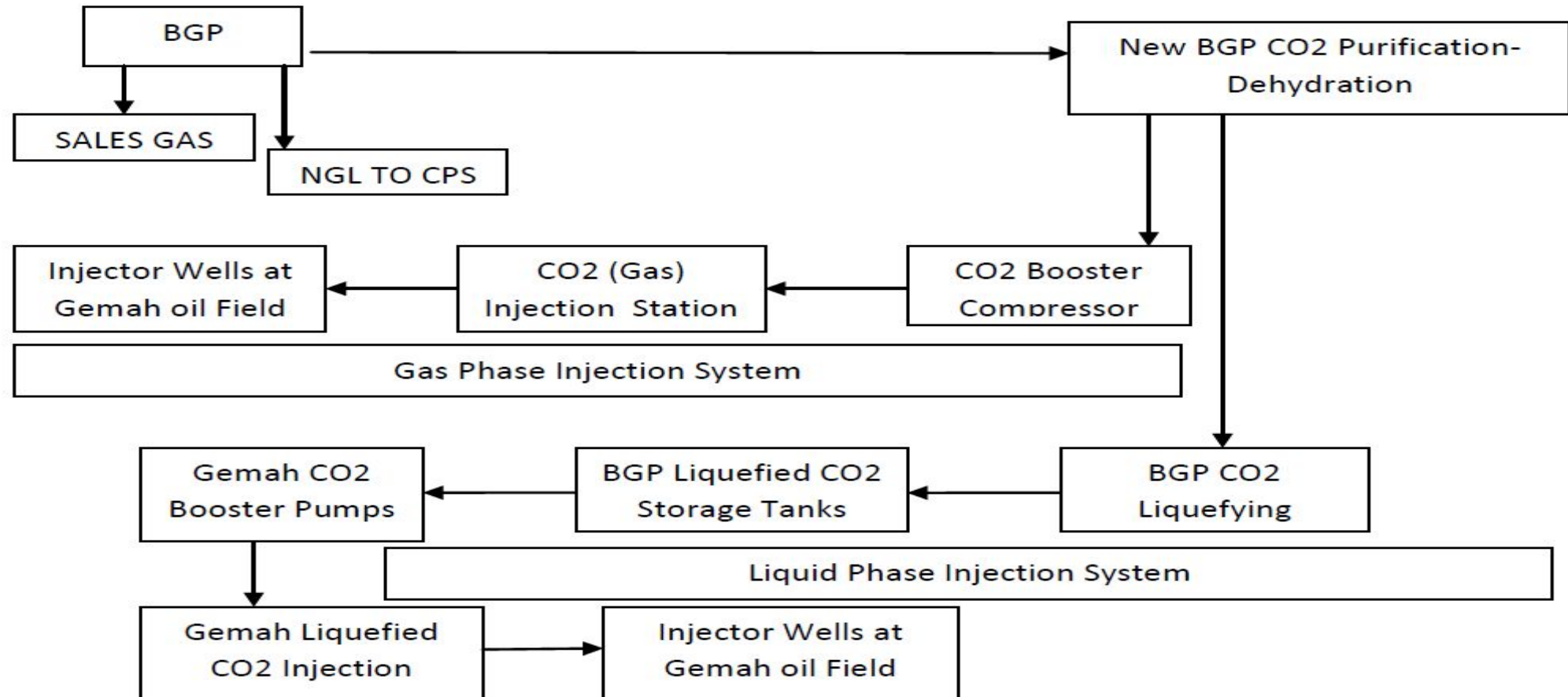


CO₂ Separation process (Membrane – 82% & Amine System – 96%)

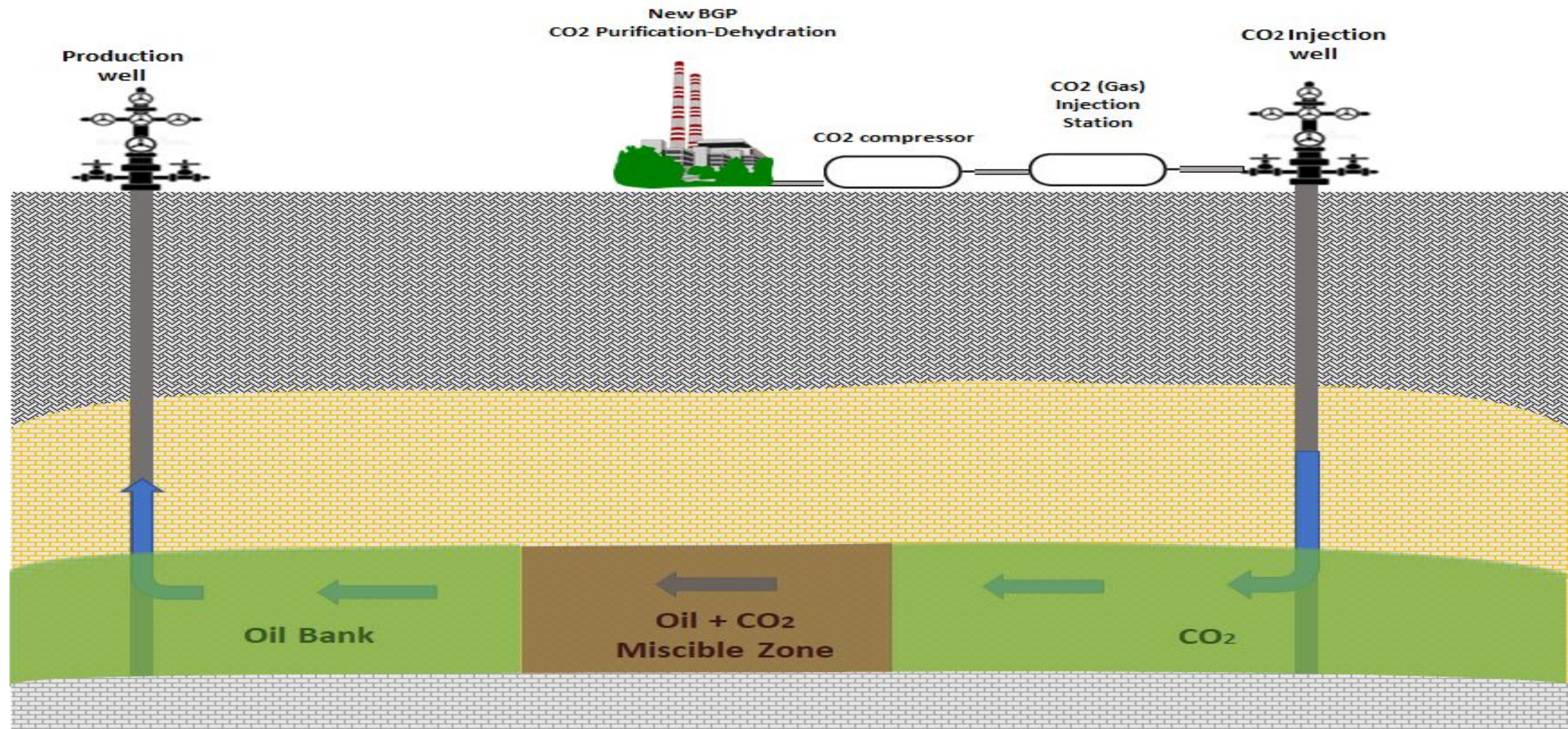
BGP (Betara Gas Plant)
Inlet Raw Gas : 220 - 240 MMscfd
Incl. 30-40% CO₂

CO₂ Removal ;
Liquid Recv. ;
Turbo Expander
Sales Gas Compression
with Capacity
(100-110 MMscfd)
NGL Production

DRAFT CONCEPT OF GEMAH CO2 INJECTION



DRAFT CONCEPT OF GEMAH CO₂ INJECTION



Thank You

