

Environmental Impact Assessment Report  
for Onshore Petroleum Production  
Nong Ooh and Wat Taen in Block S1

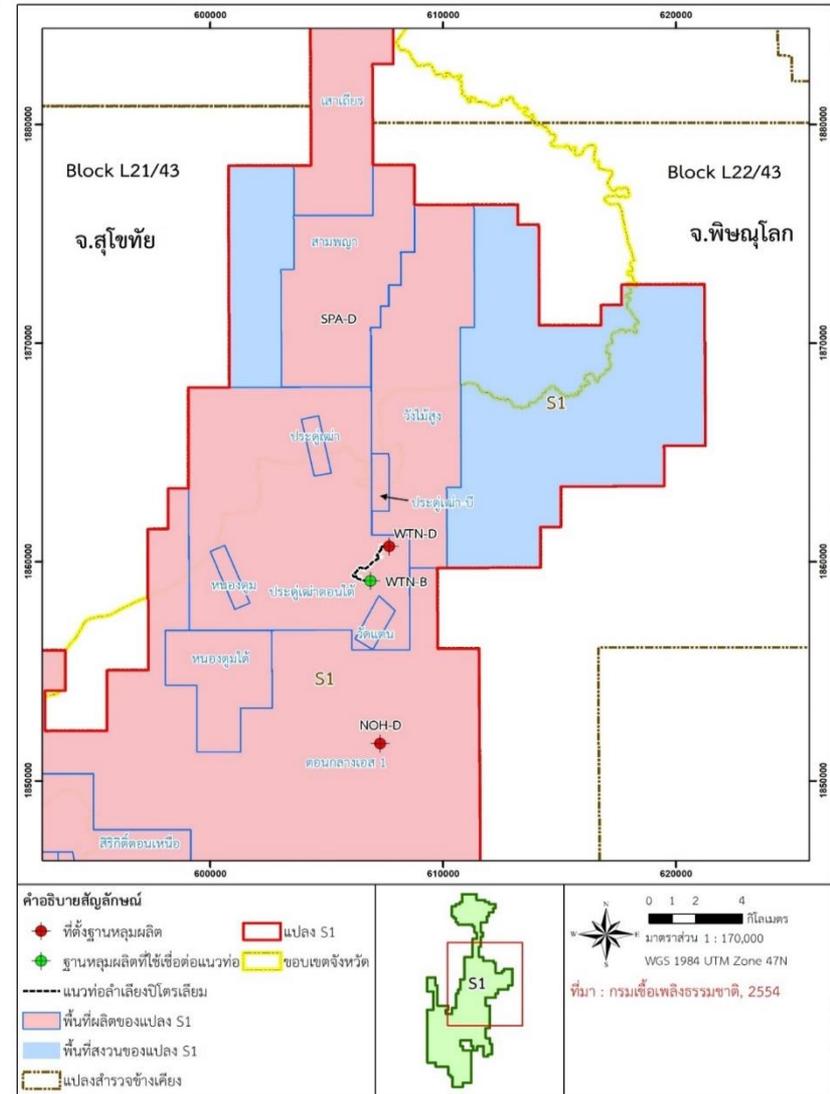


**PTTEP**

# Introduction

- PTTEPS, a concessionaire in Block S1, has an obligation to develop Thailand's energy resources to support the increasing of energy consumption.
- In 2021, PTTEPS is planning to develop wells in Nong Ooh and Wat Taen field. The project is called "Onshore Petroleum Production of Nong Ooh and Wat Taen in Block S1"

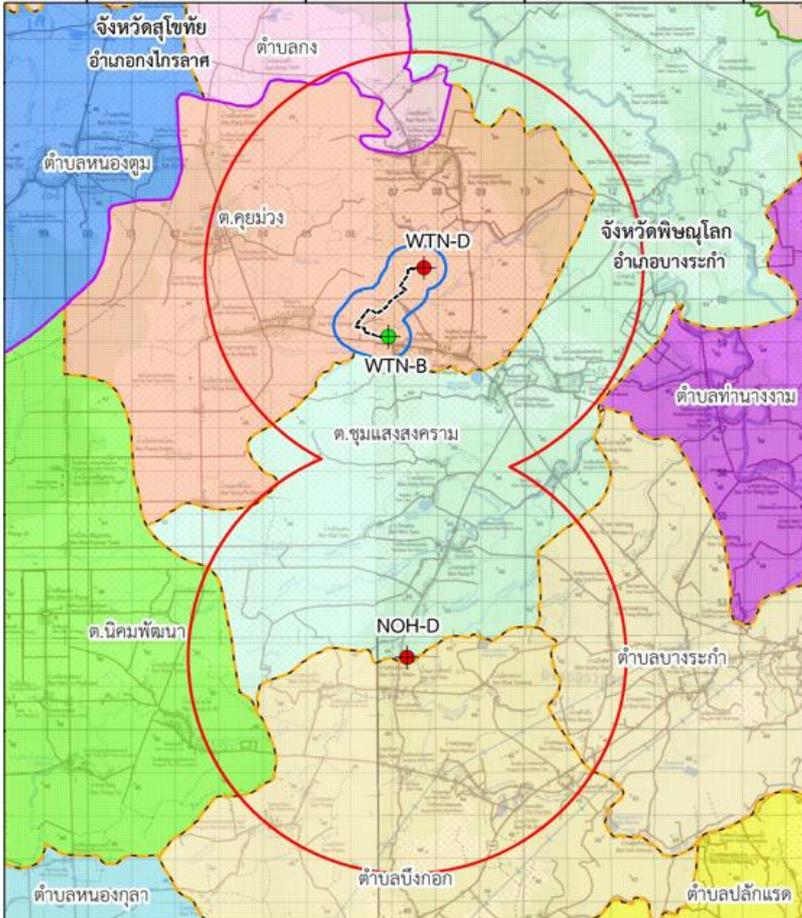
# Project Description



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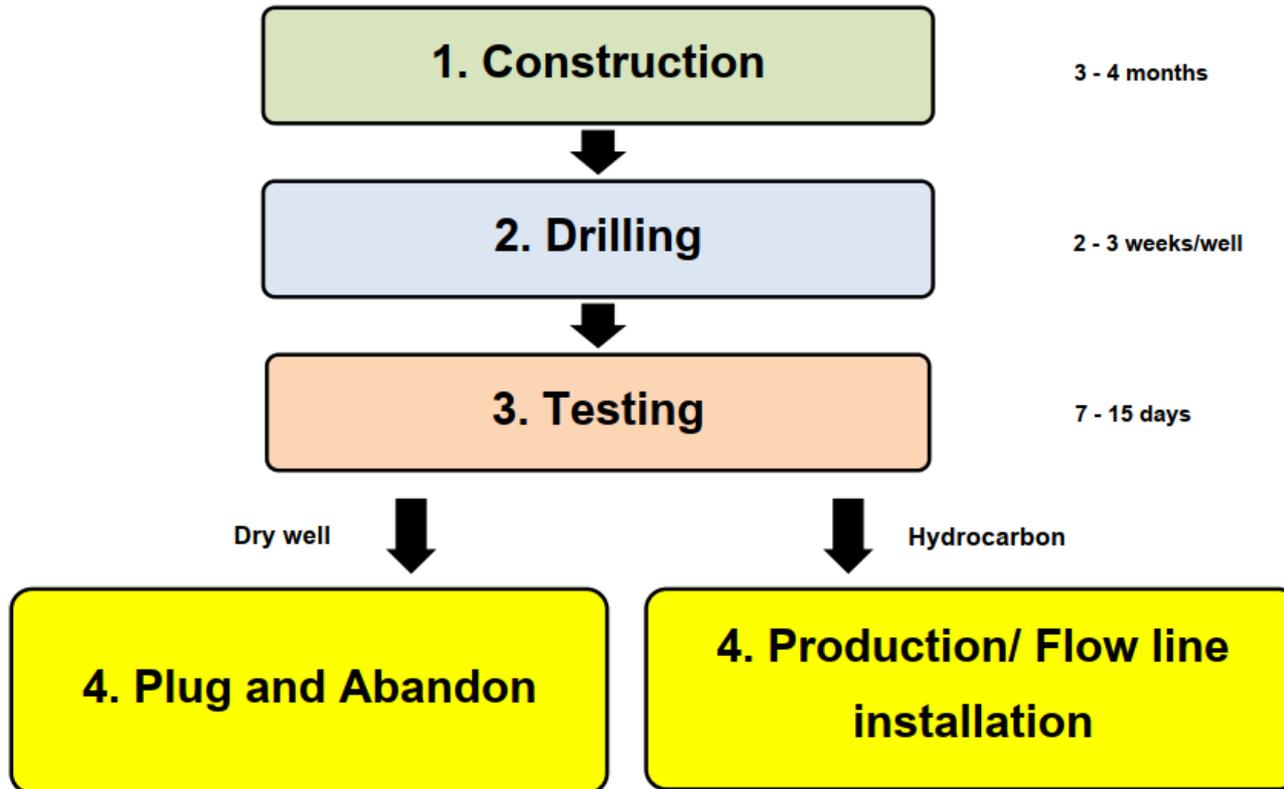
Consist of:

- Construction, drilling, well testing and MPF production (2 well sites)
- Flow line installation and production(1 routes)



Province	District	Sub-district	Wellsites / Flow line
Phitsanulok	Bang Rakam	Chum Saeng	NOH-D Wellsite
		Songkhram	
		Bang Rakam	
		Bueng Kok	
		Khui Muang	WTN-D Wellsite / WTN-D & WTN-B Flowline
Sukhothai	Kong Krailat	Nikhom Phatthana	
		Kong	
2 Provinces	2 Districts	6 Sub-district	2 Wellsites, 1 Flowline

# Project Development Phase

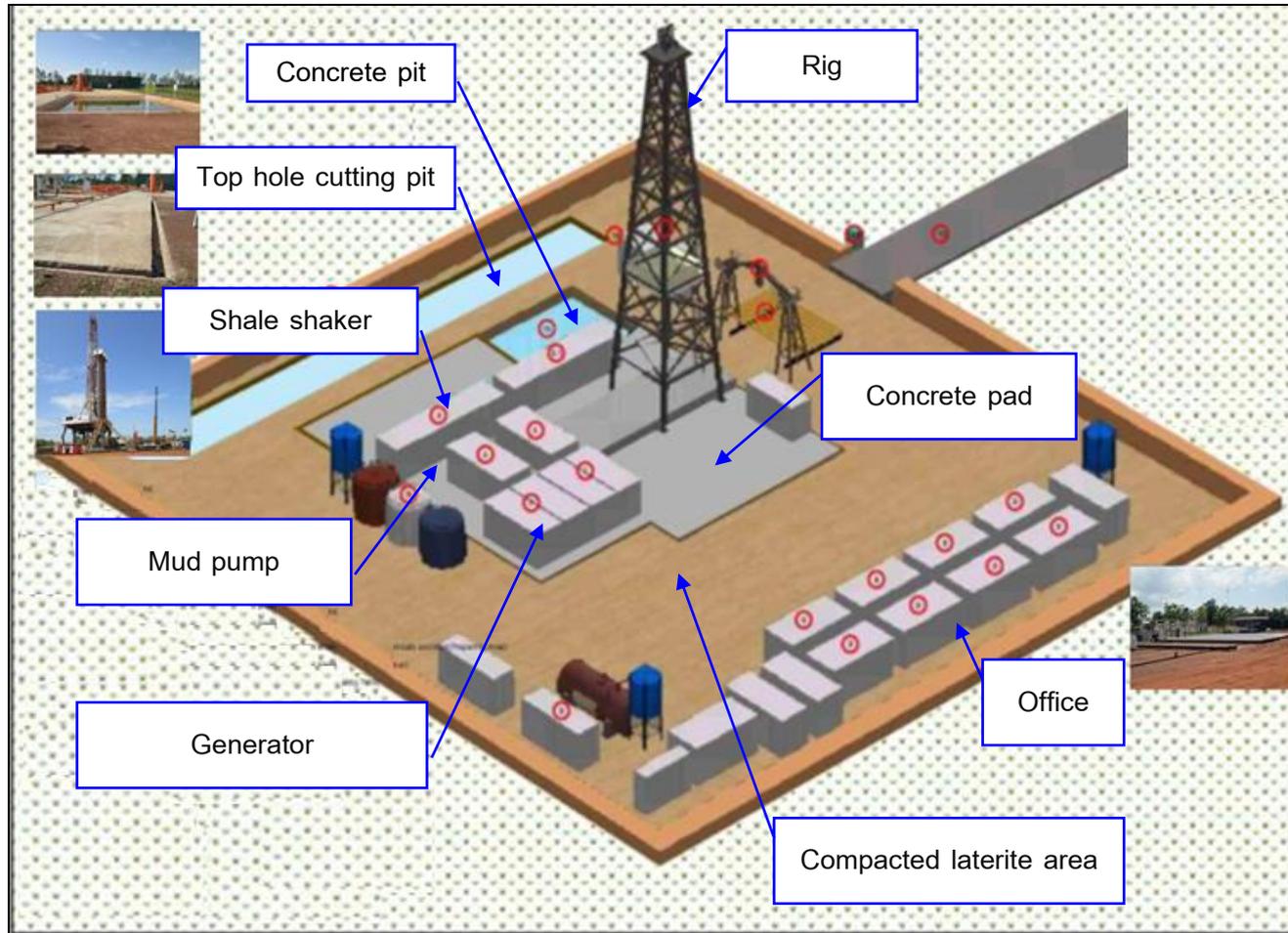


# Construction Phase

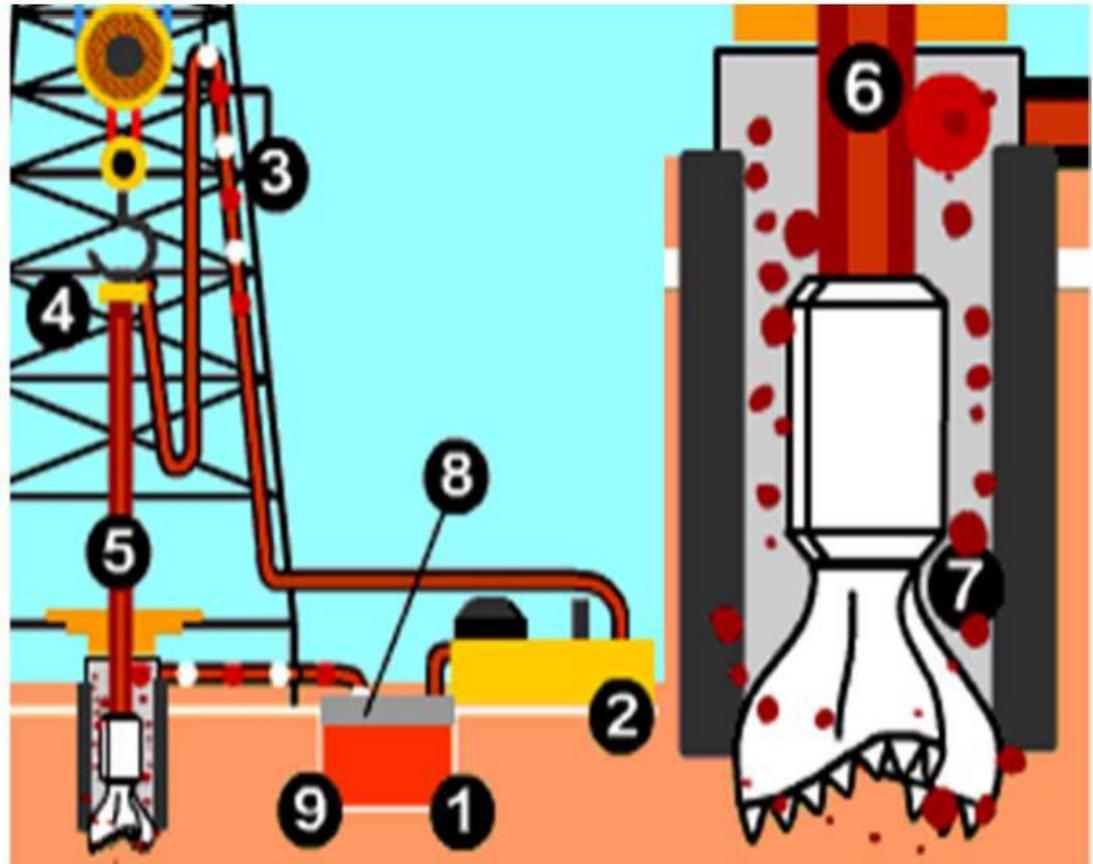
- Well site area is approximately 30 rais (48,000 m<sup>2</sup>)
- Well site is compacted with soil and laterite at 0.5 meters height over the highest flooding level



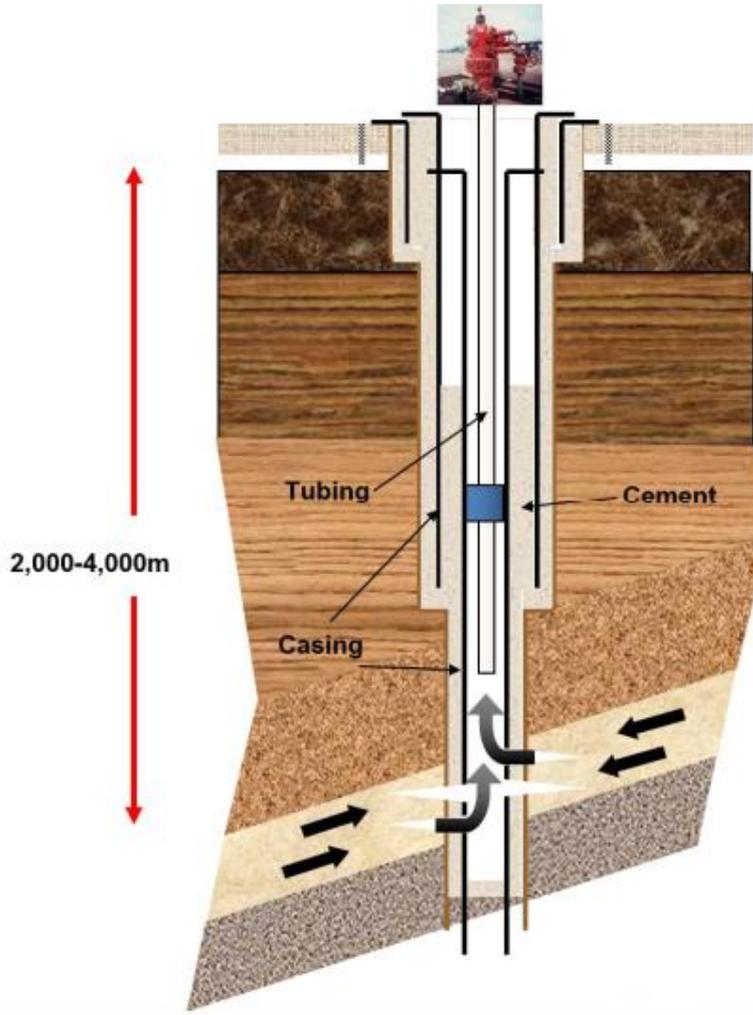
# Drilling Phase



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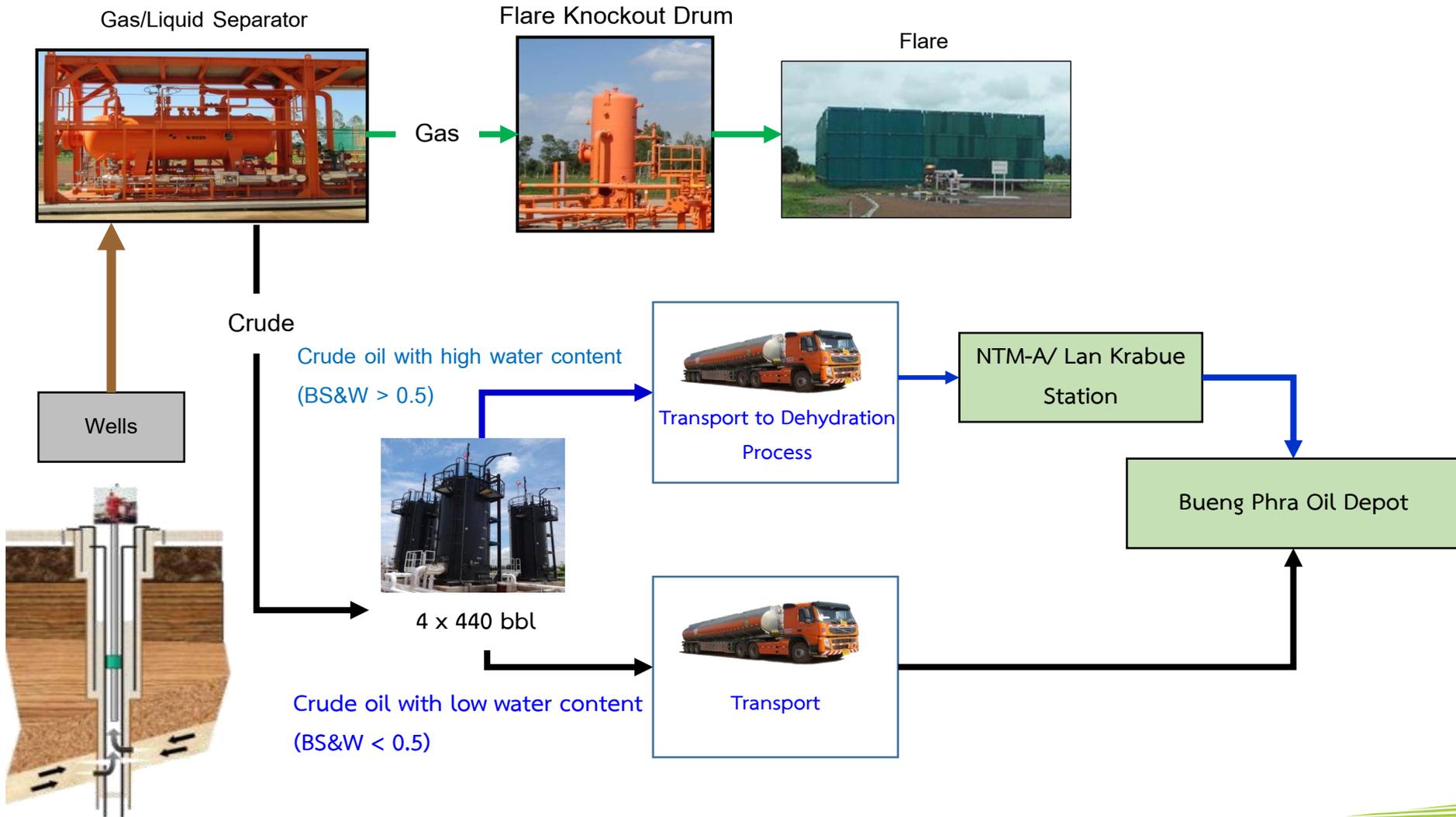
## Well structure

1. Well design
2. Install conductor pipe
3. Drill at top section
4. Install casing and cementing
5. Drill at intermediate section
6. Install casing and cementing
7. Drill at reservoir section
8. Install casing and cementing
9. Install tubing and packer
10. Install Christmas Tree
11. Perforation
12. Hydrocarbon flow

# Well Testing Phase



# Production Phase (MPF)



# Production Phase (Flowline)

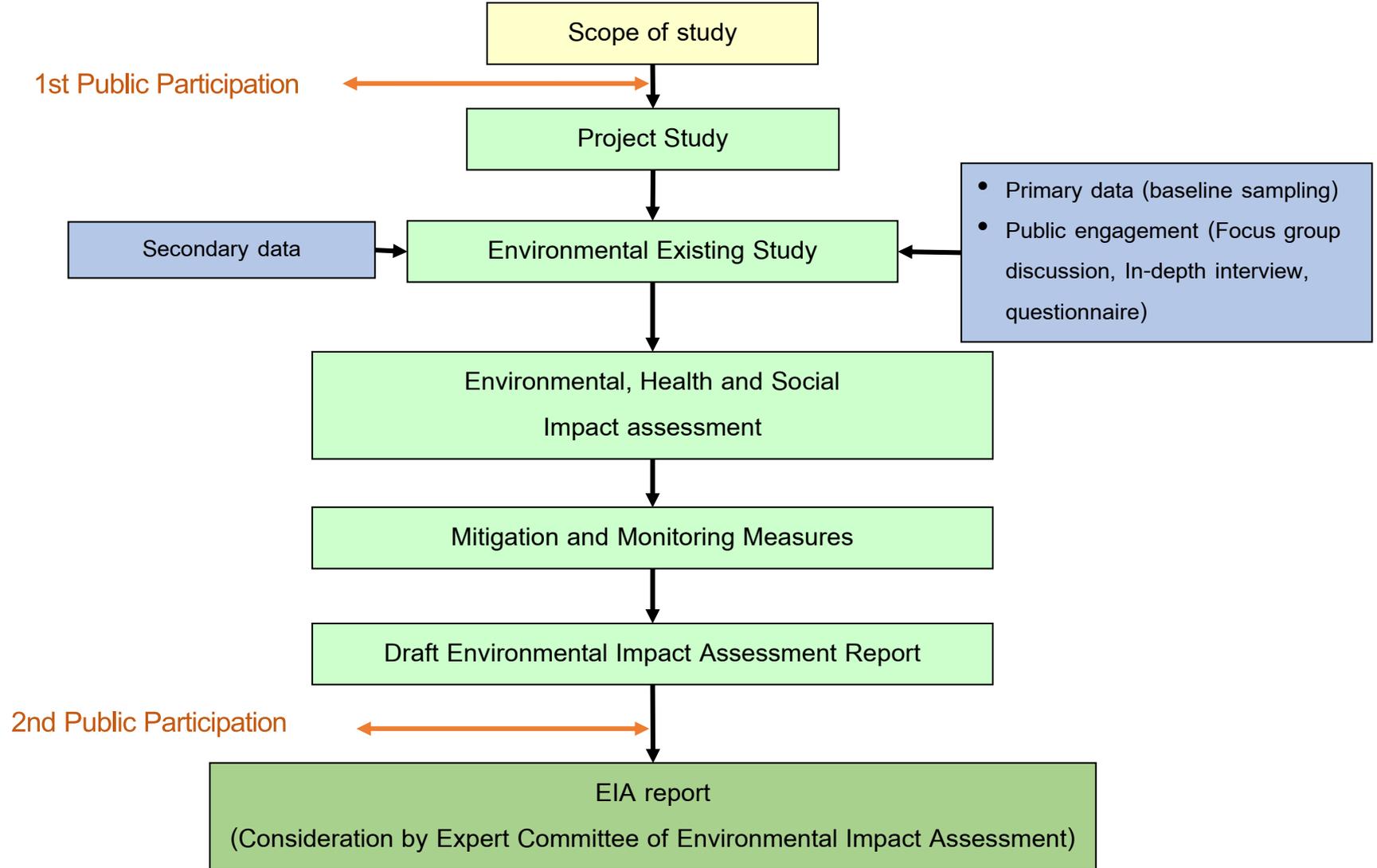
Flow line will be installed once proving the reserve is economic for long term production.



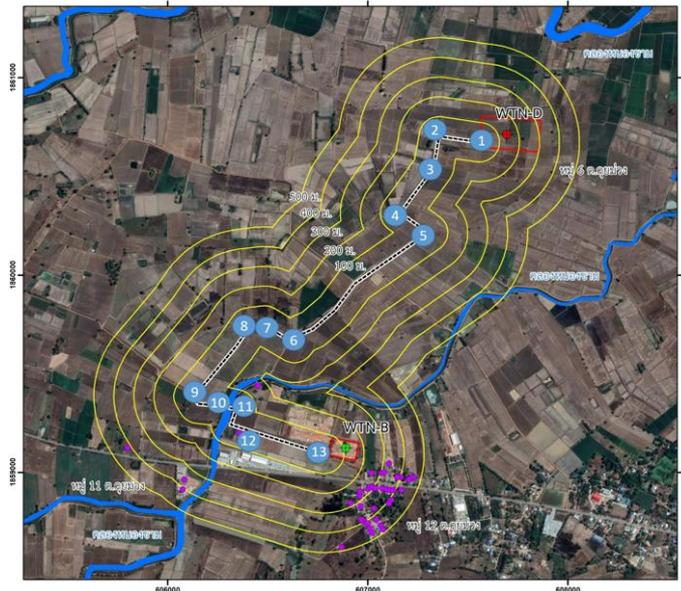
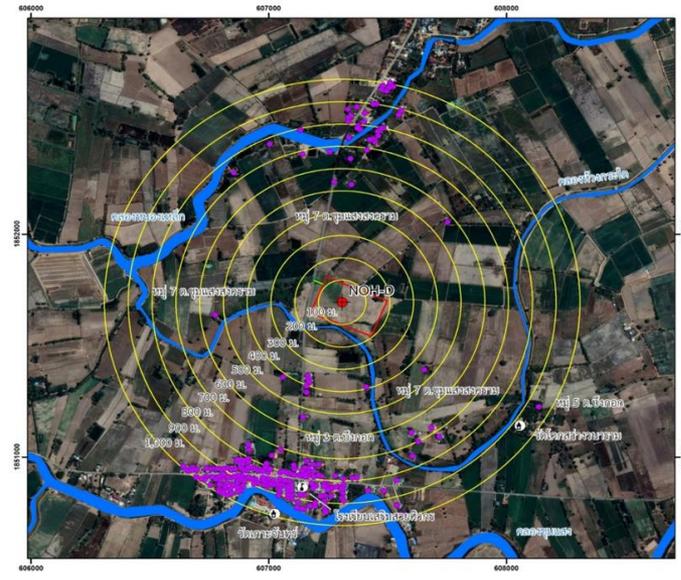
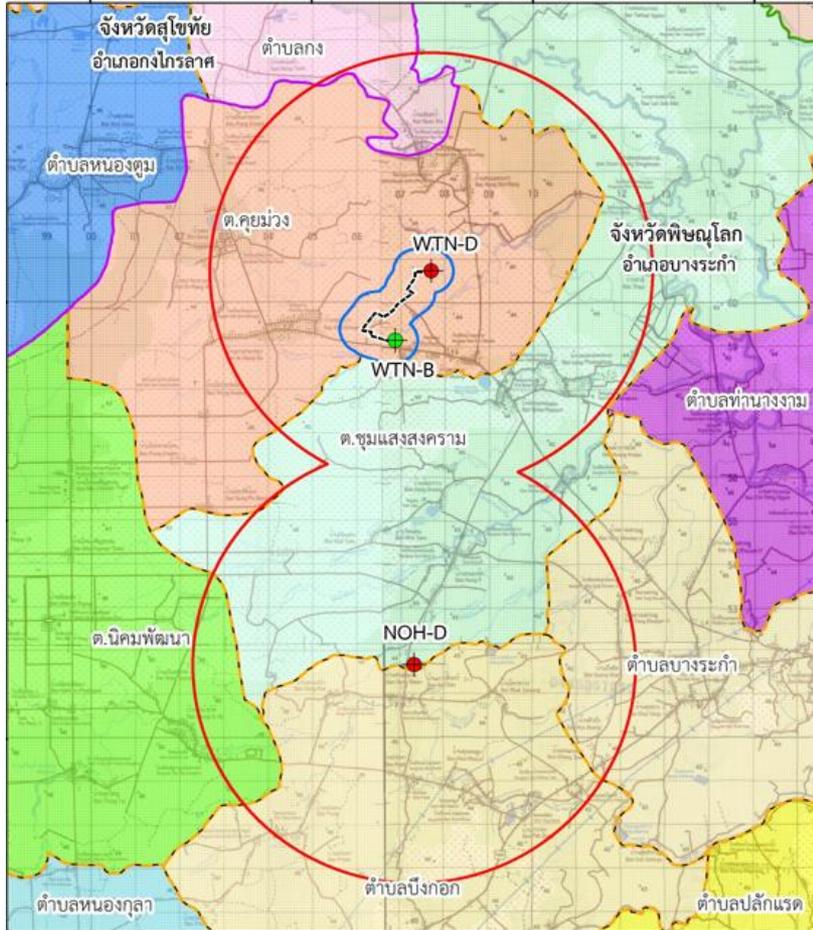
# Plug and Abandon Phase



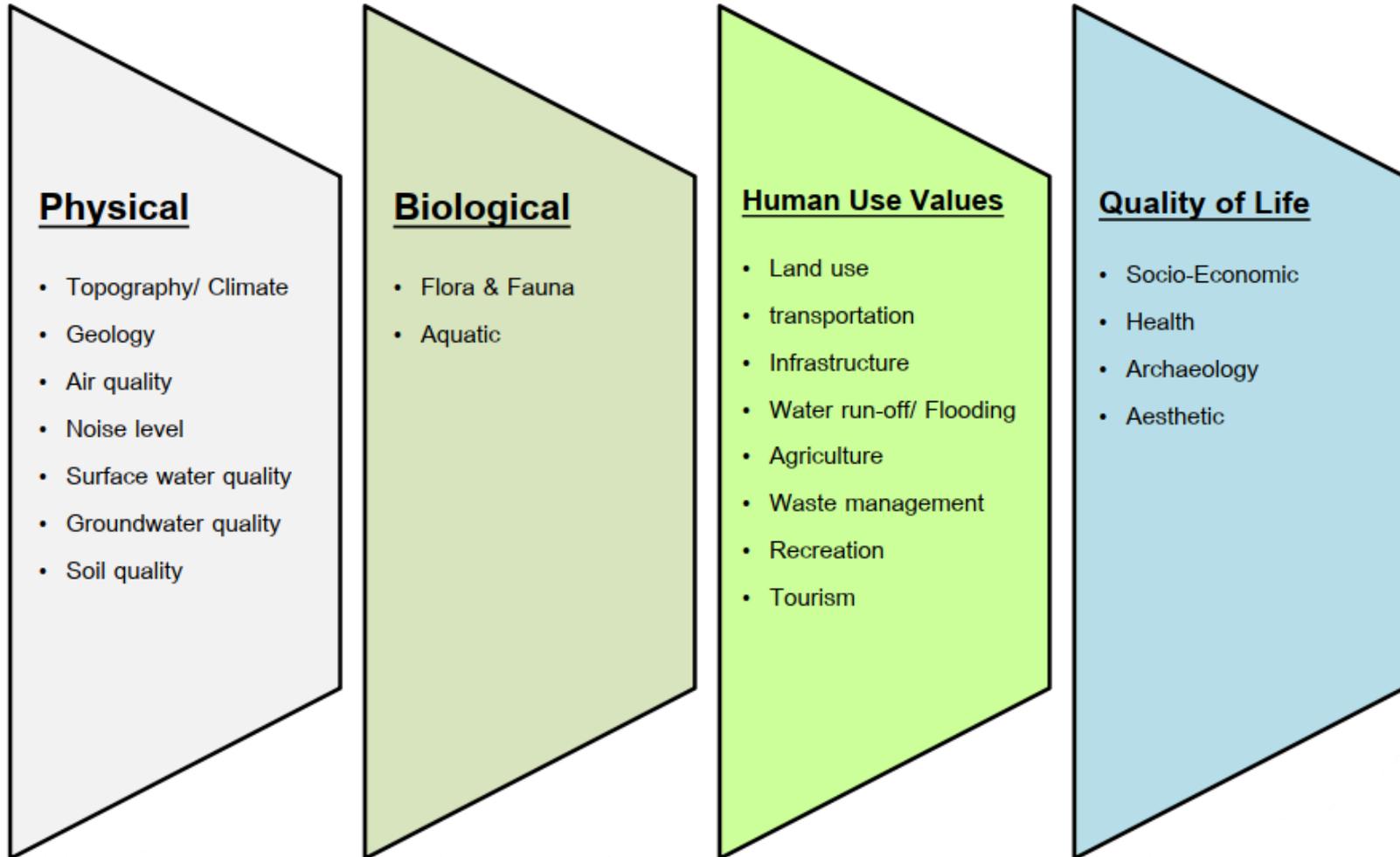
# EIA Preparation Process



# Study Area



# Scope of EIA Study



# Public Engagement

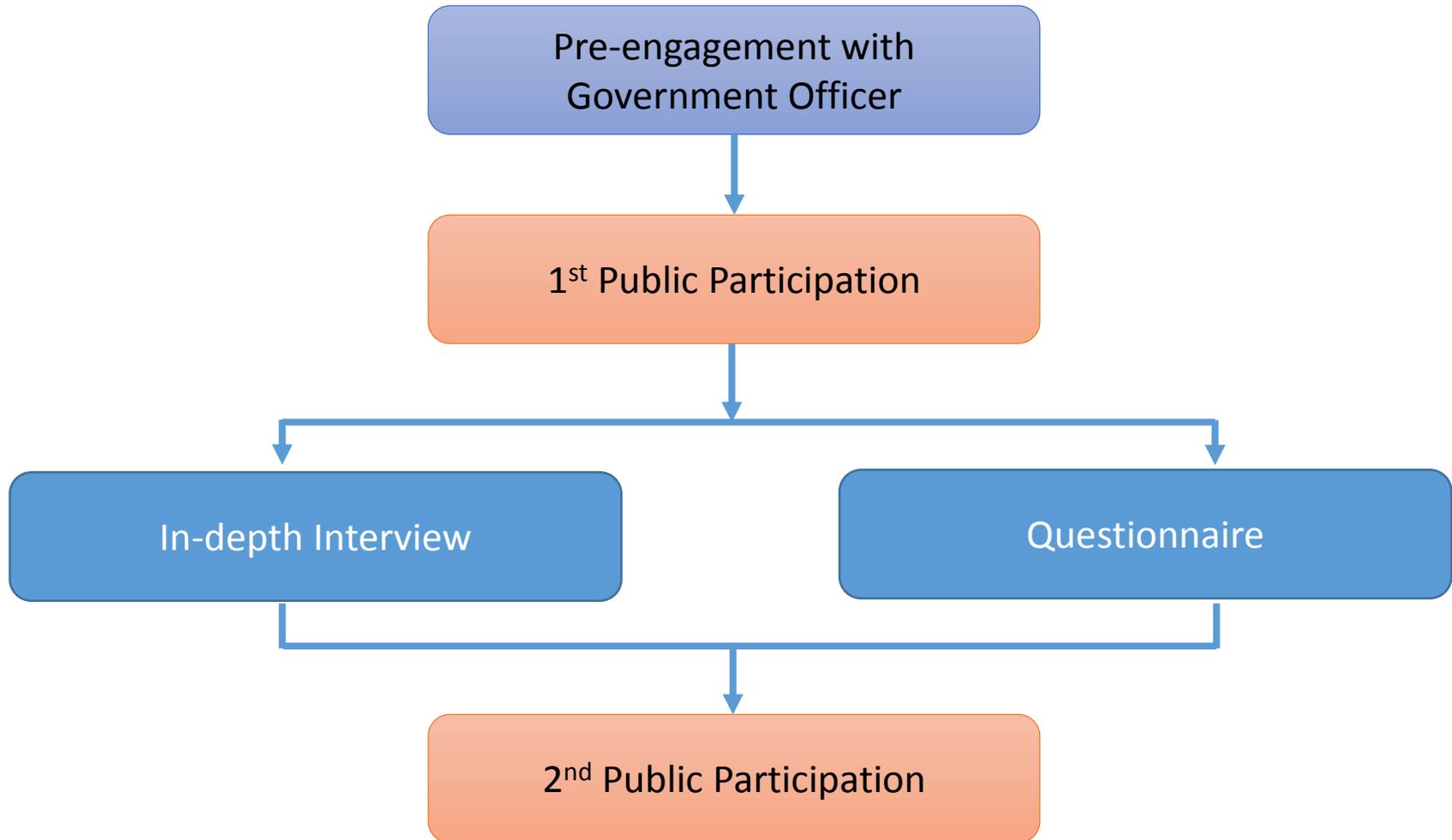
- To present the project description for stakeholder's understanding and perception.
- Stakeholders can ask and come up with recommendation.



# Stakeholders

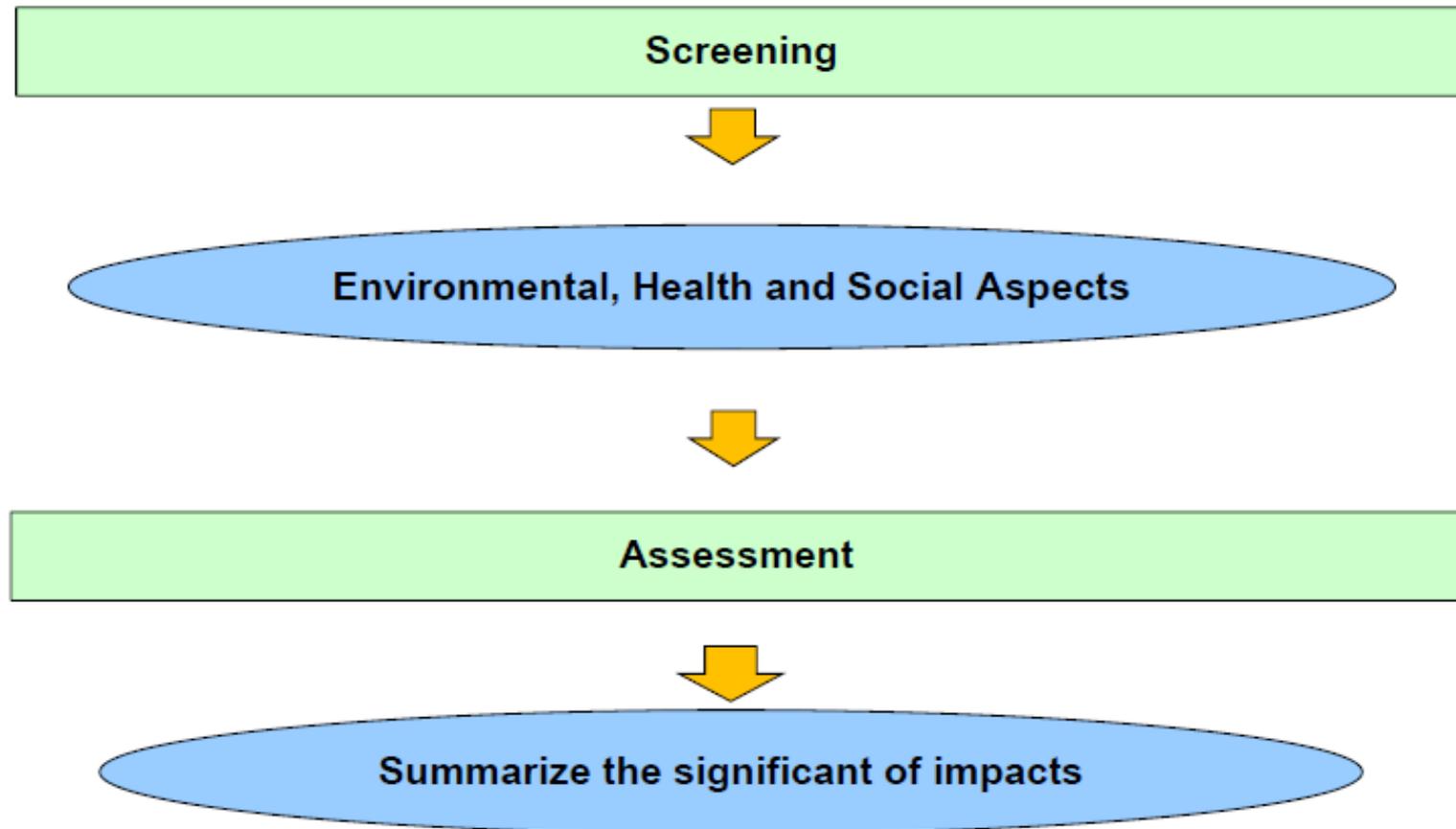
Stakeholders	Description
Group 1	Direct sensitive receptors
Group 2	Project owner, Environmental consultant
Group 3	Authorities i.e. ONEP, DMF
Group 4	Government agencies
Group 5	NGO, Teacher
Group 6	Media
Group 7	People who interested in the project

# Public Engagement Process



Remark :  No focus group discussion due to COVID-19 Situation

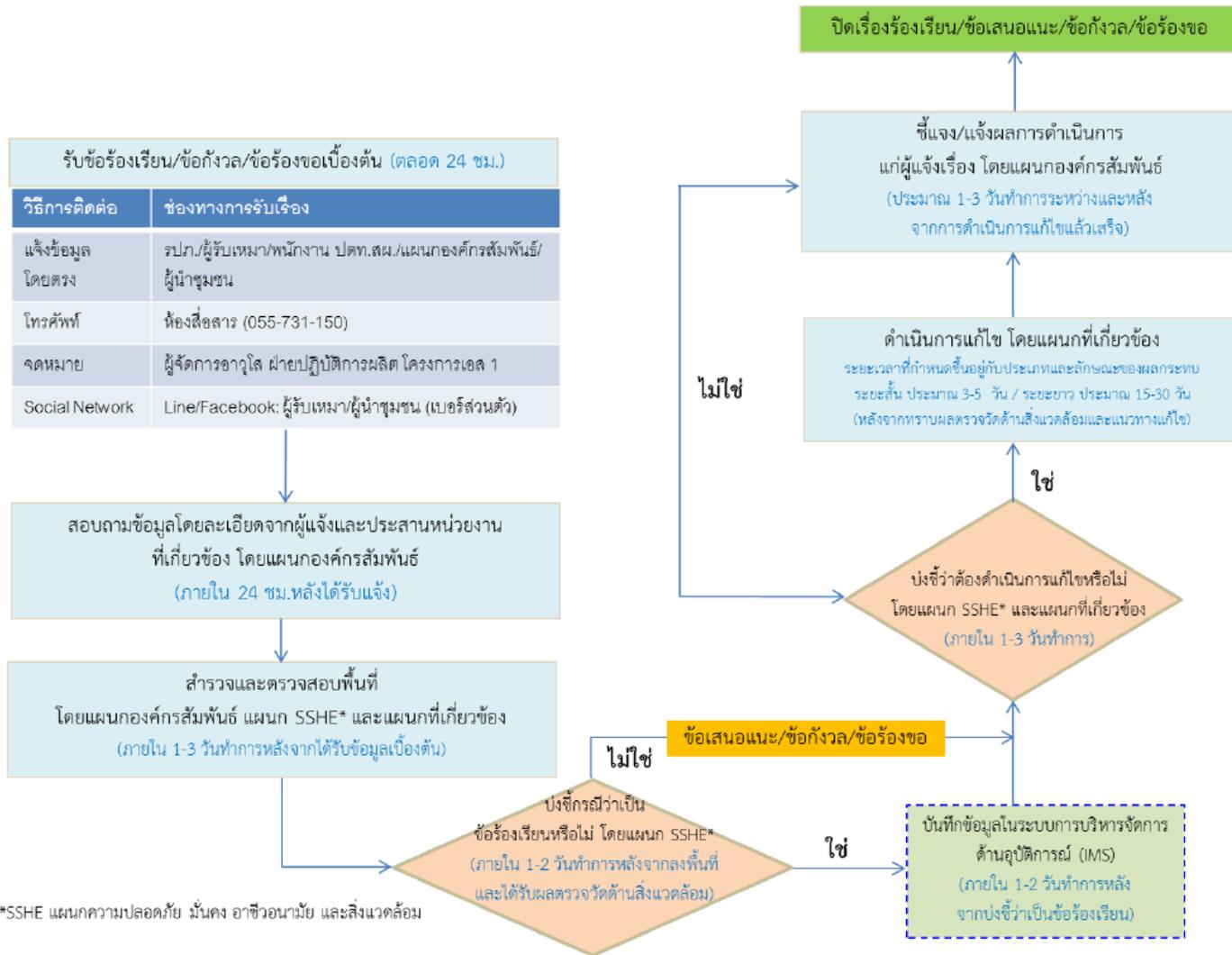
# Impact Assessment



# Summarize the Significant of Impacts

Major Impacts	Significant Level			
	Construction Phase	Drilling Phase	Well Testing/ Production Phase (MPF)	Production Phase (Flowline)
1. Air quality	Low	Low	Low	Low
2. Noise level	Low	Low	Low	Low
3. Light from flaring	Low	Low	Low	Low
4. Water Drainage/ Flooding	Low	Low	Low	Low
5. Surface water/ Groundwater quality	Low	Low	Low	Low
6. Transportation	Low	Low	Moderate	Low
7. Public health & Occupational health	Low	Moderate	Moderate	Low

# Complaint Management



# Corporate Social Responsibilities



# Contact Channel

## Public Affairs Team

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Public Affairs Section of PTTEP (S1 Project)

PTT Exploration and Production PLC. (S1 Project)

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