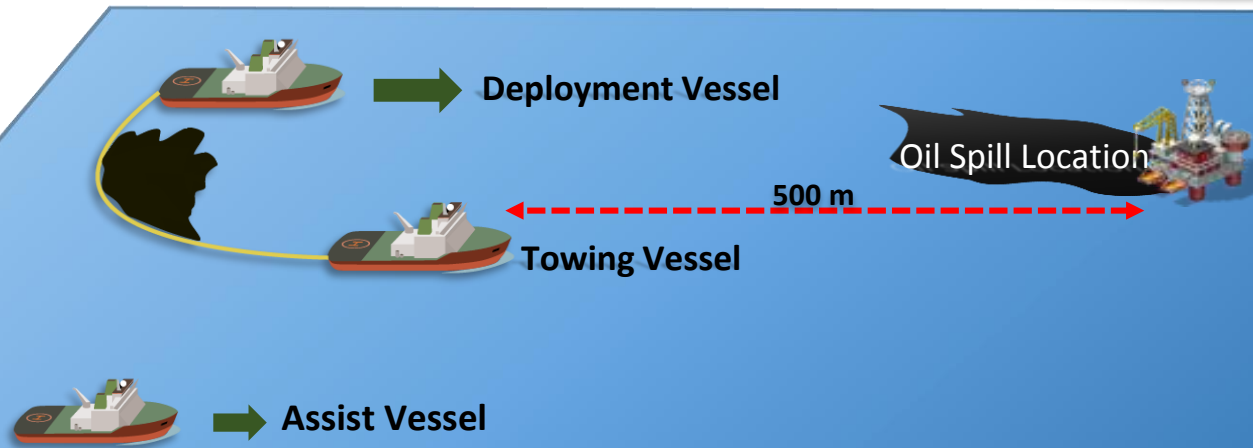


OIL SPILL COMBAT EXPERIENCES



Oil Spill Incident from Drilling Operation – East Java



Oil Spill during drilling operation occurred during DST, offshore oil boom with two vessels already pre-deployed for the duration of the DST to prevent any spilled oil from impacting sensitive shoreline



OSCT Indonesia continuously deployed boom during the well testing operating for over 14 days, to ensure no spilled oil impact sensitive shoreline.

Oil Spill Incident from Drilling Operation – East Java



Spilled oil during DST successfully contained with two vessels that deployed offshore oil boom using J configuration.

Oil Spill Incident from Drilling Operation – East Java



Over 5,000 liters of oil was successfully contained and recovered in a short time

Oil Spill Incident from Pipeline – East Java



Spill Source

Oil spill at sea



Spill Source

OIL SPILL INFORMATION	
Spill source	Pipeline Leaking
Activity	Routine Transfer Operation
Location Description	06° 53.425' S, 112° 9.496' E
Date	20 th August 2015 11.00 (GMT +7)
Type of oil	Light Crude Oil (API 36 – 39.9)
Spill Volume	Unknown
Sensitive area	Settlement
Sea condition	Average of wind speed 4 knot with dominant direction from Northeast
	Average of current speed is 0.4 knot with dominant direction toward West.

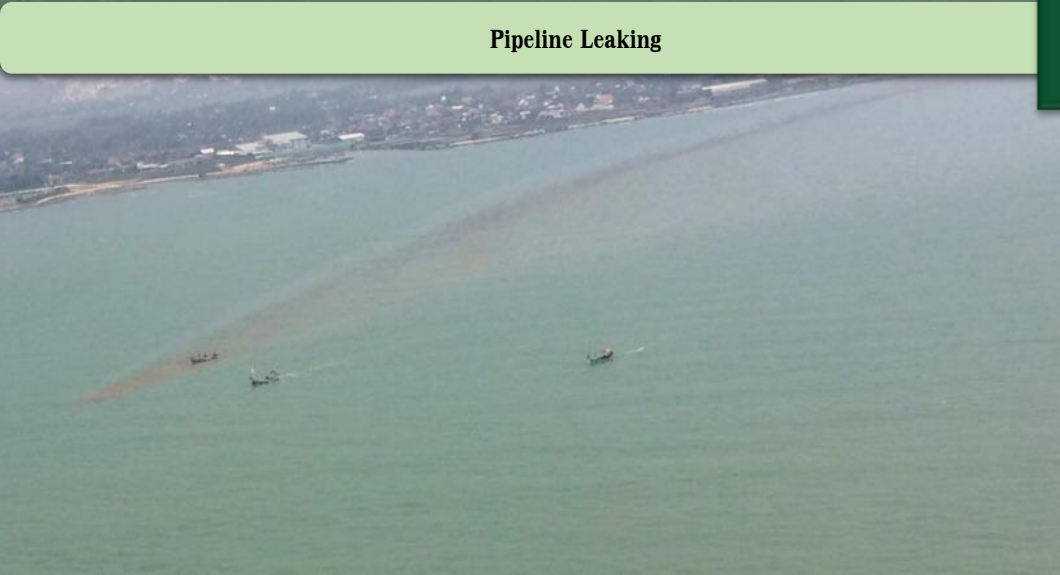
Oil Spill Incident from Pipeline – East Java



Pipeline Leaking



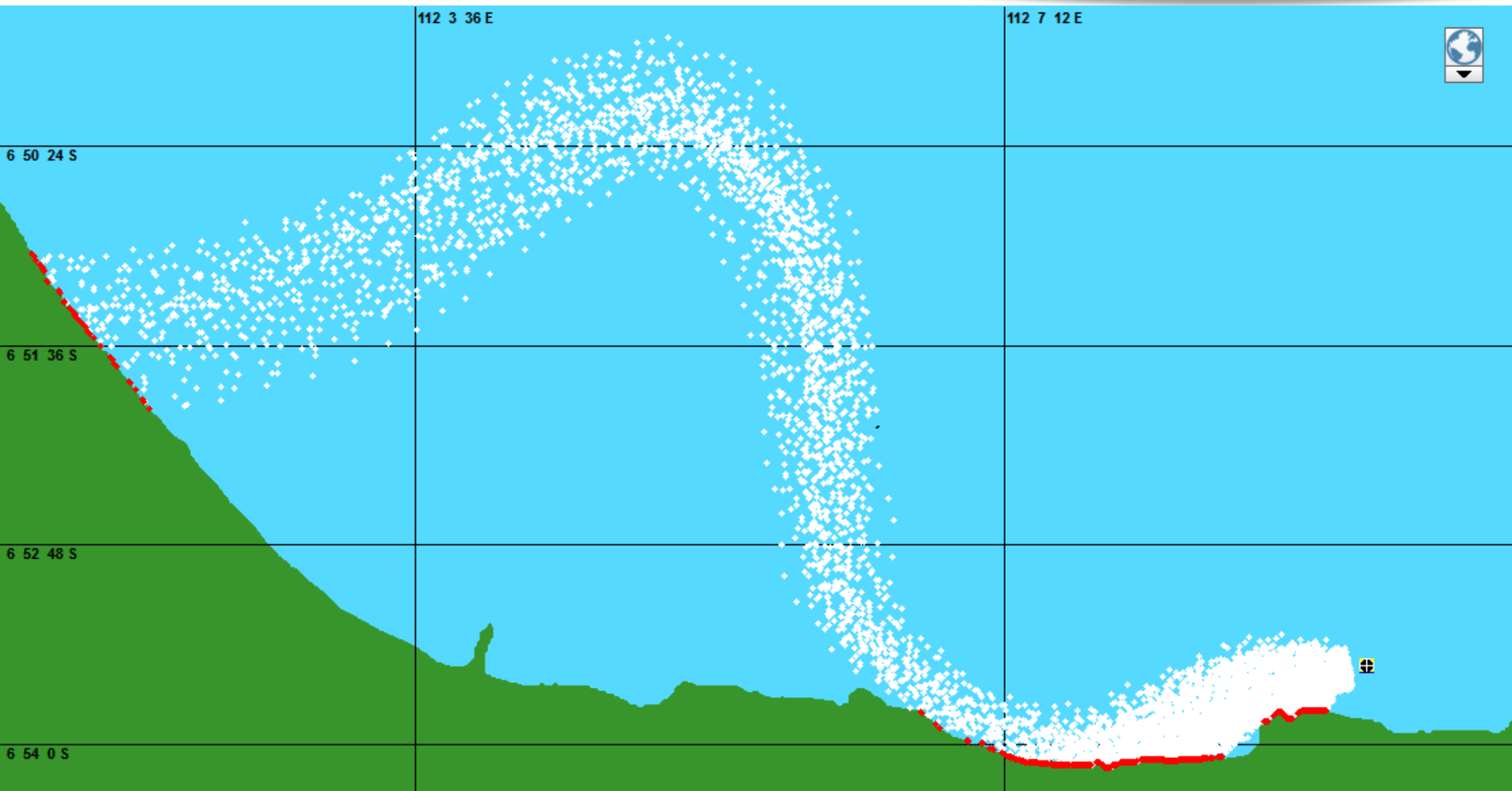
Settlements



Rocky Beach

Oil spreading to shoreline

Oil Spill Incident from Pipeline – East Java



Based on the modelling spilled oil would impact shoreline in 3 hours, and was in-line with the actual condition, which impacted about 3-4 hours

Oil Spill Incident from Pipeline – East Java



Divide into several area to assess the possible impacted shoreline

Oil Spill Incident from Pipeline – East Java



Shoreline assessment of impacted area

Oil Spill Incident from Pipeline – East Java



Oil spill response at shoreline

Oil Spill Incident from Pipeline – East Java



Recovered Oil Spill transferred into temporary storage Tank



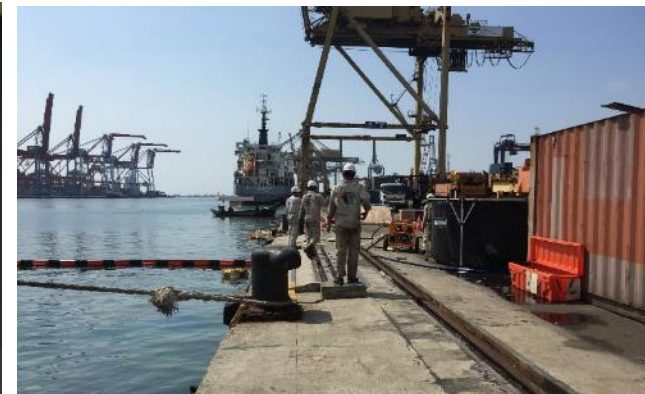
Transport Oily Waste based on waste management plan

Oil Spill Incident – Tanjung Priok Port



11 May 2015

Spilled oil appear in port pond area 3 from unknown source

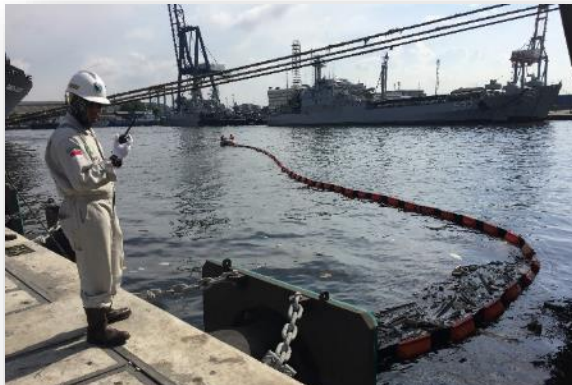


Spilled oil from unknown source appeared in port 3 pond on portside border. Using oil boom to localize spilled oil to spread to other area. Recovered spilled oil in collection point using skimmer and stored in temporary storage tank. Cleanup spilled oil debris by using absorbent.

Oil Spill Incident – Tanjung Priok Port



14 Maret 2016
Spilled oil at port area from unknown source



Spilled oil that was mixed with other waste material was localized by using oil boom, oily waste cleanup by using manual cleanup technique. Thick spilled oil was recovered by using oil skimmer and collected in temporary storage tank, and oil sheen debris was cleaned up using absorbent.

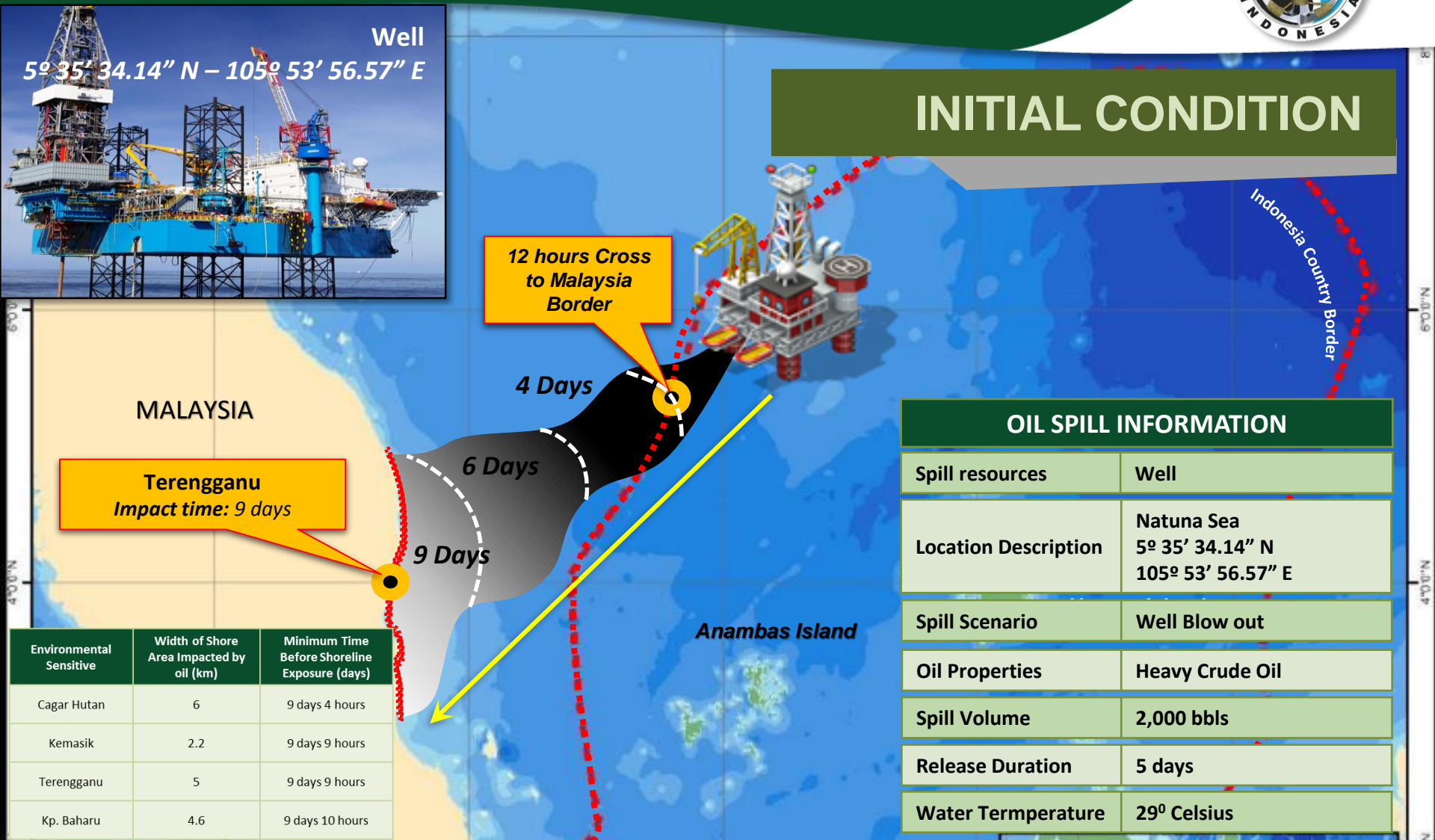
Drilling Operation Near Malaysia Border



Well

5° 35' 34.14" N – 105° 53' 56.57" E

INITIAL CONDITION



12 hours Cross to Malaysia Border

4 Days

6 Days

9 Days

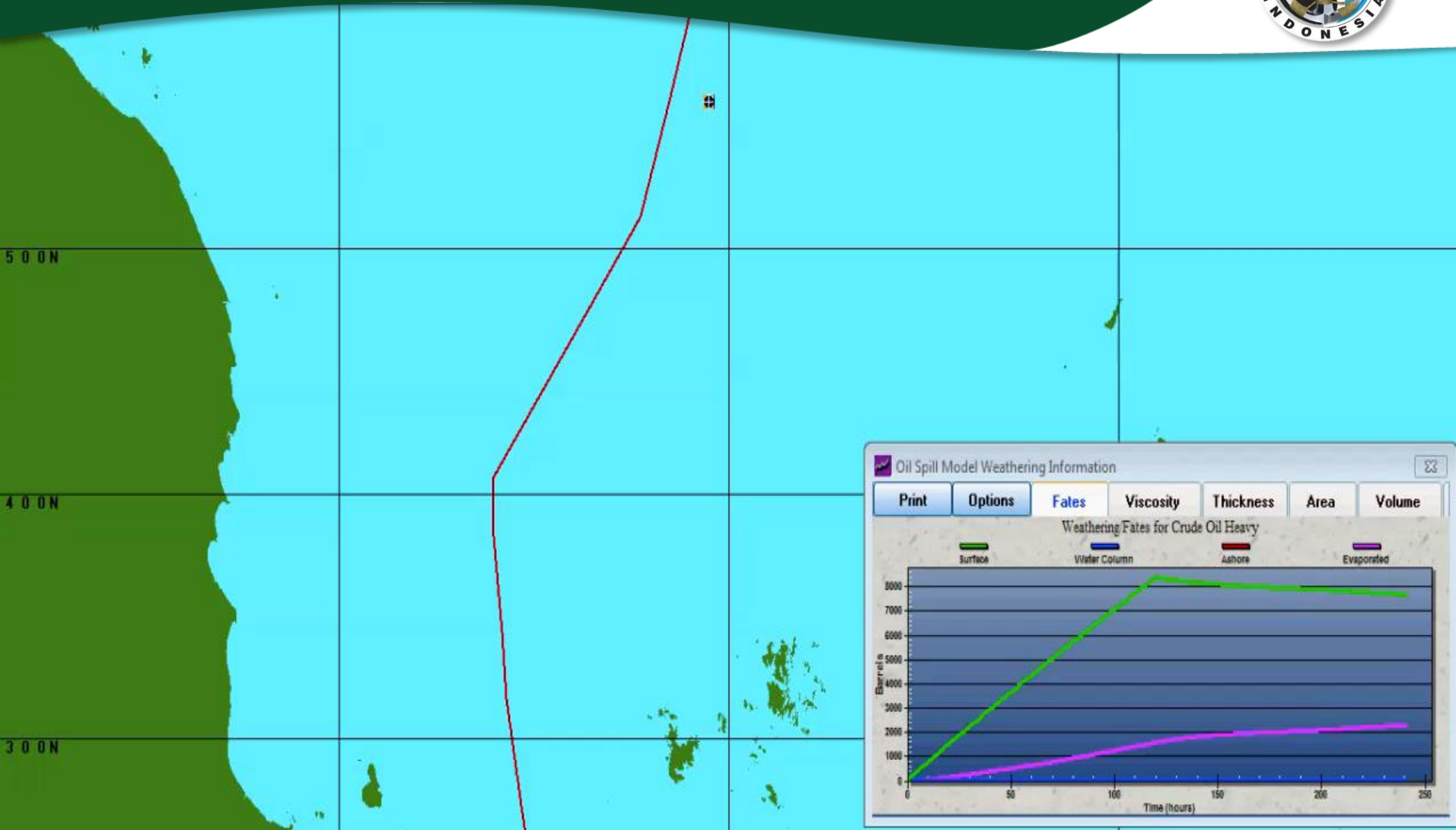
Terengganu
Impact time: 9 days

Environmental Sensitive	Width of Shore Area Impacted by oil (km)	Minimum Time Before Shoreline Exposure (days)
Cagar Hutan	6	9 days 4 hours
Kemasik	2.2	9 days 9 hours
Terengganu	5	9 days 9 hours
Kp. Baharu	4.6	9 days 10 hours

OIL SPILL INFORMATION	
Spill resources	Well
Location Description	Natuna Sea 5° 35' 34.14" N 105° 53' 56.57" E
Spill Scenario	Well Blow out
Oil Properties	Heavy Crude Oil
Spill Volume	2,000 bbls
Release Duration	5 days
Water Temperature	29° Celsius

Oil Company drilling campaign located at Natuna Sea. Main consideration is the distances between Indonesia-Malaysia country border, about 12.4 nm spilled oil will cross to Malaysia border within 12 hours after release.

Drilling Operation Near Malaysia Border



Based on Oil Spill Modelling Analysis, the spilled oil will cross border from Indonesia to Malaysia within 12 hours. As a contingency, OSCT Indonesia coordinate with PIMMAG Malaysia to conduct offshore containment and recovery to prevent shoreline impact

Drilling Operation Near Malaysia Border



MALAYSIA



PIMMAG
Kemaman Base

MALAYSIA COUNTRY
BORDER

4 PIMMAG within 4 hours
notification, shall respond the
oil spill in Malaysian territory
and cooperate with OSCT

1

The company will initiate Tier-1
resources to respond the oil spill

2

After tier-1 resources is considered
insufficient, and based on trajectory
modelling the remaining oil is heading
to cross the national border. Immediately
activate assistance from OSCT, Tier-2,
and Tier-3 National Resources to respond the oil
spill in Indonesian territory.

3

For cross border spill,
International assistance should
be required by activating
PIMMAG through OSCT

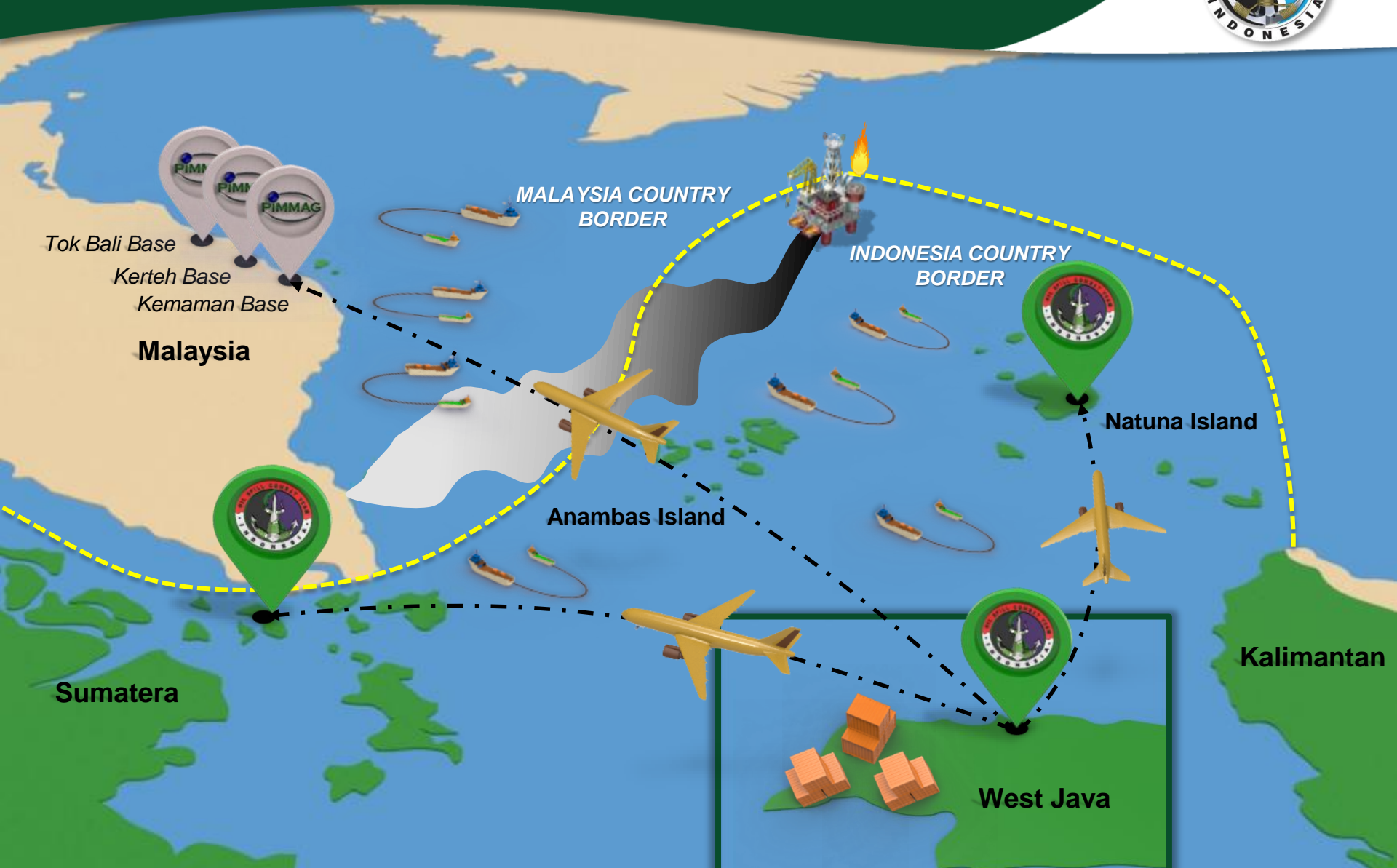
INDONESIA COUNTRY
BORDER

INDONESIA



OSCT Batam &
Natuna Base

Drilling Operation Near Malaysia Border



Additional resources can be mobilized from OSCT West Java Headquarters using Boeing 737 and if required mobilized into Malaysia through the national OSRO in country - PIMMAG

Drilling Operation Near Malaysia Border



**Diesel Spill caused by DST. Estimated less than 1000 liters of Diesel was spilled.
Oil spilled was successfully contained before reaching border**

SUMMARY FROM LESSONS LEARNT



Oil & Gas Company/OSRO Members Operating Near Border



Oil Spill Contingency Planning that pre arranges rapid response by the National OSRO at respective countries for cross border oil spill response or for passing ships are very important.

MOU between response centers allows more access to resources and expertise for international oil spill response.

Oil Spill Response Preparedness



Oil spill preparedness is very crucial, and at some cases, equipment pre-deployment might be required to contain spilled oil quickly and avoid disasters that may caused if oil spill impacted sensitive areas.

Lessons Learnt are very important to be shared for continuous improvement for all members to update their oil spill contingency plan and response preparedness.



TERIMA KASIH
THANK YOU

ありがとう
고맙습니다

SALAMAT

ขอขอบคุณ

Cảm Ơn

PREPAREDNESS IS KEY TO
A SUCCESSFUL RESPONSE



24 HOUR EMERGENCY CALL

+62812 80004444
+6221 89902444

Website : www.osct.com

Email : info@osct.com