INCIDENT NO: 1672470 JIV report S/N:

Nº 0000371

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 1672470 2. Type of incident\* OIL SPILL 3. Name of Location YOKRI WELL -FLOWLINE 4. Name of nearest community OBOTOBO I \$ TT State: DELTA 6. LGA BURUTU 7. Type of Production facility/Installation FLOWLINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED/SWAMP WEST B. INCIDENT INFORMATION: 9. Details of incident Details of incident a. Date of incident: 4TH JULY, 2016 b. Start date/time of investigation: 2014 July, 2016 AT 1415 HRS c. Investigation End date: 20TH JULY, 2016 Actual investigation duration, days: DNE DAY d. Description of spill point environment Loose soil ☐Recently excavated area ☐Firm soil **⊠**Swampy Exposed pipe surface ☐ Under water DrillRig ☐ Well Platform (on Water Additional observations around the spill point: CAUSE OF LEAK WAS CONFIRMED AS THIRD PARTY INTERFERENCE. A 3" PLUG VALVE WAS REMOVED FROM YOKKI WELL-LIST. FLOWLINE BY UNKNOWN PERSONS. THE TWO OPEN ENDS OF THE FLOWLINE HAD ALREADY BEEN BLIND FLANGED AS AT THE TIME OF THIS · NOITAPITEEVAL e. Description of leak point (tick as applicable); ☐ Tear ( Hack saw cut Drilled hole ☐ Well head tampering ☐ Inward dent, Complete Rupture Failed Clamp, ☐ Missing Pipeline/Flowline ☐Failed Weld-on illegal hot tap valve ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐Crude oil theft (illegal bunkering) point, ☐ Third party tampering with flange, ☐ Third party tampering with valve setting ☐ Bulging Outward ☐Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3rd party equipment impact Relief valve failure Valve Failure Wothers(specify) & PLUG VALVE THEFT f. Incident caused by: ☐ Third party interference (Sabotage ☐; crude theft ☐; Line theft ☐; Accidental 3<sup>rd</sup> party damage ☐) ☐ Operational Others (including Mystery spills)

<sup>\*</sup>This can be; a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire.

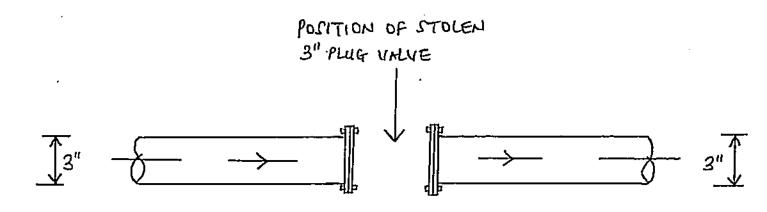
INCIDENT NO: 1672470 JIV report S/N: Nº 9000371 g. Spill point coordinates WUS h. Measuring unit Northing: 20014 C. RISK ASSESSMENT 10. Type of environment: Seasonal swamp Swamp Land □water Shoreline/Waterfront Type of environment to which oil has spread: Swamp □ Water ☐River (identify) Land ii. Weather condition Wet □cool · MRain □Windv Hot Dry □ Sunny 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area Drinking water source Built up area ſm, NONE □ Farmlands ☐ Fish Farm/Pond ☐ Fishing net Others (specify). 12. Containment measures put in place; ☑Natural depression □Pit None Trench Dyke □ Booms Others: 13. Any pictures or video coverage? [V][Y] 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description:

15. Was there any disruption to the investigation?

[W]

[Y]

INCIDENT NO: 1672470 JIV report S/N: N 9 0000371 If yes to item 15 give brief description: APPLICABLE D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Number Comments S/N Type of Structures Description Size 17. Crops/Economic Trees Comments S/N Type of crops Young Medium Matured Quantity 18. Fishing Nets/Fish Ponds Quantity/Size | Comments S/N Nets/Ponds Description 19. Others (Specify) i.e. Animal Traps S/N Others Quantity/Size Comments Description E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix 1)
SECTION OF 3" YOKKI WELL—113T FLOWLINE AT OBOTOBO COMMUNITY 2" PLUG VALUE (MREADY BLIND FLANGED



SHOWING: POSITION OF

STOLEN

INCIDENT NO: 1672470 JIV report S/N: Nº 0000371

## F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

20. Impacted area boundary Coordinates (If more Print and attach as an appendix)

N47 84					
S/N	Northing	Easting			
	5.42.002	5.29698			
	T11001	5.29718			
	5.42.041	5.29731			
:	5.42042	5-29724			
	5.42027	5.29.717			
	5.42027	5.29709			
	5.42041 5.42043 5.42027 5.42027 5.42020	5.29726			
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. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 0.088 HA	_
Impact within R.O.W	
Impact outside R.O.W  Note: The Control of the	<del></del>
b. Volume of oil recovered before completion of JIV (V <sub>recJ</sub> ):    Recovered oil V <sub>recJ</sub> :   A 1	Barrels
Controlled recovery/evacuation from source with no impact to environment:	<del></del>
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	
8.86 BBLS	
stimated Reported Volume** Vrep(bbls)= 9 BBLS	
Volume estimation was done using an excel based tool,(see attached for details on the calculation)  Reported spilled volume is an estimate	,
Write other relevant notes taken into consideration for estimating the spilled in the box below:  NOT APPLICABLE	
NOTAPLICABLE	

Calculation of the respective estimated volume is to be done on site as far as practicable using the new split volume estimation software on site; Conversion of m<sup>2</sup> to barrels is Volume (m3) x 6.29; \*\*Round up estimated volume to next whole number using the following rules:

Any spill volume in excess of -1 bbl - is rounded up to the next whole number.

Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbl ------- Reported volume = 16 bbl Calculated volume = 0.35 bbl ------- Reported volume = 0.4 bbl Calculated volume = 0.01 bbl ------- Reported volume = 0.1 bbl

Wherever this estimation tool is not applicable please refer to paragraph 6c (Devianous) of the IIV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the IIV report.

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i.	Joint investigation of the incident site found that there is no residual impact after the initial response a therefore recommend that the site be closed out	nnd JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Q.

#### e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- Host Community: 

  ✓
- Department of Petroleum Resources [DPR]: \( \square\)
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]: □
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site

