JIV report S/N: 0977

INCIDENT NO: 1990258

(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: 1990258 2.Type of incident* CIL SPILL 3. Name of Location 20" RumuerpE - NKPOKU TRANS NIGER PIPELINE 5. State: RIVERS 6. LGA EMOTTUA. 7. Type of Production facility/Installation GIL PIPELING 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGGRIA LIDITED B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 22 ND DECEMBER 2017 b. Start date/time of investigation: 29TH DECEMBER 2017 AND c. Investigation End date: 3157 DECEMBER AND investigation duration, days: Two DAYS d. Description of spill point environment □Firm soil Recently excavated area Loose soil ☐Under water □Swampy ' Exposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: APPLICABLE e. Description of leak point (tick as applicable); ☑Drilled hole Hack saw cut Tear (_ ☐Complete Rupture ☐ Inward dent, ■ Well head tampering ☐Failed Weld-on illegal hot tap valve ☐ Failed Clamp, ☐ Missing Pipeline/Flowline ☐Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Third party tampering with valve setting ☐ Bulging Outward ☐ Third party tampering with flange, ☐ Flare System/Bund wall failure ☐Cold vent ☐ Surge vessel overflow, ☐ Valve Failure Relief valve failure Accidental 3rd party equipment impact ☐ Corresion Others(specify)_ f. Incident caused by: ☐ Third party interference (Sabotage ☐; crude the fi□; Line the fi□; Accidental 3rd party damage □) ☐Operational ☐ Mystery spills Others(specify) _ ___

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*This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

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g. Spill point coordinates h. Measuring unit Easting: Northing: **C. RISK ASSESSMENT** 10. Type of environment: Land □Water ☐ Seasonal swamp ☐ Shoreline/Waterfront □ Swamp Type of environment to which oil has spread: [] Land Water Swamp River (identify)_ ii. Weather condition **□**Hot Sunny □ Wet Windy Cool Rain Drv 11. Distance from the nearest sensitive habitat NONE SEEN ☐ Government reserved and designated protected area ,111 ☐ Drinking water source ,m] ,m] WITHIT ☐ Built up area ,m] □ Farmlands ,m] ☐ Fish Farm/pond VICINIT ☐ Fishing net □ Others (specify). 12. Containment measures put in place; Matural depression Dyke Pit None Trench Booms Others: ומו 🗽 וו 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? [Y-1. [N] if yes to item 14, give brief description: CLAMPING COMPLETED: KEPAIR [Y] [N] 15. Was there any disruption to the investigation?

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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)

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact	
• Impact within R.O.W YES • Impact outside R.O.W YES	
b. Volume of oil recovered before completion of JIV (V _{recl}):	_
Recovered oil Vrecd: NLL	Barrels
Controlled recovery/evacuation from source with no impact to environment: Nic Barrels	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
112.54 BARRELS	
Estimated Reported Volume** Vren(bbls)= 113 BARRELS.	
Notes: Volume estimation was done using an excel based tool.(see attached for details on the calculation) Proved dealth to lower in 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	<u>-</u>
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimated Conversion of m ³ to barrels is Volume: (m3) x 6.29: **Round up estimated volume to next whole number using the following Any spill volume in excess of	
 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 6e (Deviations) of the JIV procedure to use appropriate steps for a volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.

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d. General Status of the site
 i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out
ii. Investigation of the incident site showed that there is residual impact on site requiring further works
e. Representatives
This report was filled, agreed and signed by the following joint investigation team representatives:
Host Community:
Department of Petroleum Resuurces [DPR]: □
National Oil Spill Detection and Response Agency [NOSDRA]:
State Ministry of Environment [SME]:
Asset Owner:
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

