JIV report S/N: 0954

INCIDENT NO: 1986368

(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: 1986368 2. Type of incident* QL SPILL FIRE 3. Name of Location 20" RUMUEKPE - NKPOKU TRANS NIGGE PIPECINE. _ 5. State: RIVERS _ 6. LGA EMOHUA 7. Type of Production facility/Installation OL PIPELINE. 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NICHOLA LTD-B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 15th December 2017 b. Start date/time of investigation: 22ND December 2017 KND 29TH DECEMBER 2017 c. Investigation End date: 30Th DEC, 2017 Actual investigation duration, days: THREE DAYS d. Description of spill point environment Firm soil Loose soil Recently excavated area ☐Under water □Swampy Exposed pipe surface ☐Well Platform (on Water) Drill Rig Additional observations around the spill point: ON THE SECOND VISIT TO INCIDENT SITE, THE JOINT INVESTIGATION TEAM ON ARRIVAL OBSERVED THE ON FIRE BY UNKNOWN PERSONG) INCIDENT SITE HAS BEEN SET 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 T; crude the ft \(\Bar\); Line the ft \(\Bar\); Accidental 3rd party damage \(\Bar\)) ☐Operational ☐ Mystery spills ☐ Others(specify)

^{*}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 WGS 84 h. Measuring unit Northing: Easting: ATITUDE LONGITUDE) C. RISK ASSESSMENT 10. Type of environment: Land □ Swamp ☐ Water ☐ Seasonal swamp ☐ Shoreline/Waterfront Type of environment to which oil has spread: Land □ Swamp □ Water ☐River (identify)_ ii. Weather condition Rain Suppy \square_{Drv} □ Wet Windy Cool 11. Distance from the nearest sensitive habitat □ Government reserved and designated protected area NIL ,m] ☐ Drinking water source NIL ,m] □ Built up area NIL ,m] □ Farmlands 5 ,m] □ Fish Farm/pond NIL ,m] ☐ Fishing net [Nu_ .m] □ Others (specify). 12. Containment measures put in place; Natural depression Dyke Booms Trench None Others:.. INI MY 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? if yes to item 14, give brief description: REPAIR WORK BY CLAMPING COMPLETED 15. Was there any disruption to the investigation? [N][Y]

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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 impactO-40HA	
• Impact within R.O.W	
Impact outside R.O.W YES	_
b. Volume of oil recovered before completion of JIV (Vreed):	Downsle
Recovered oil V _{rec.f.}	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
N(L Barreis	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
	
58.25 BARGELS	
Estimated Reported Volume** Vren(bbls)= 59 BARRELS	
Notes: 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 APPLICABL	E.
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 to barrels is Volume:(m3) x 6.29: **Round up estimated volume to next whole number using the following the following spill volume in excess of I bbl is rounded up to the next whole number:	ition software on site: ng rules:
 Any spill volume in less than l 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
c. 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 ugree 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

