INCIDENT NO: 2067178 JIV report S/N: 1073

(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: 2067178 2. Type of incident* O1L SP1LL 3. Name of Location 24" TRANS - RAMOS PIPELIME 4. Name of nearest community ODIMODI 5. State: DELTA 6. LGA BURUTU 7. Type of Production facility/Installation O12 PIPELIME 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY
B. INCIDENT INFORMATION-OF MIGERIA LIMITED / PIPELIME 9. Details of incident 27TH APRIL, 2018 b. Start date/fime of investigation: 5TH MAY, 2018 / 10:00 HOUR c. Investigation End date: 30TH MAY 2018 Actual investigation duration, days: 1WV2) DAYs d. Description of spill point environment Firm soil Loose soil ☐Recently excavated area Swampy Under water Exposed pipe surface Well Platform (on Water) □Drill Rig Additional observations around the spill point: OIL STAIM ALONG CRACKED COMCRETE COATING WAS OBSERVED. c. 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 thelt (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 Corrosion ☐Others(specify) f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐) 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 h. Measuring unit Northing: Easting: C. RISK ASSESSMENT 10. Type of environment; i Swamp Land Water ☐ Seasonal swamp ☐Shoreline/Waterfront Type of environment to which oil has spread: Land Swamp □Water ☐ River (identify) ii. Weather condition Sunny Rain Dry □ Wet ☐ Windy □ Hot Cool 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area ,m] ☐ Drinking water source ,m]JONE WITHIN ☐ Built up area ,m] □ Farmlands ,m.] □ Fish Farm/pond ,m]☐ Fishing net ,m] □ Others (specify). 12. Containment measures put in place; Booms Trench Dyke ☐ Natural depression ☐ Pit None Others: 13. Any pictures or video coverage? DAT INT 14. Further response/repair initiated as at the time of JIV? [N] if yes to item 14, give brief description: ON GOING 15. Was there any disruption to the investigation? [Y]. LNT

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If yes to item 15 give brief description:	
NOT APPLICABLE	1
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties	
S/N Type of Structures Description Size Number Comments	
Alone Whitm AREA OF IMPACT	
17. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments	
ADNE WITHIN AREA OF IMPACT	
18. Fishing Nets/Fish Ponds S/N Nets/Ponds Description Quantity/Size Comments	
MONE WITHIN AREA OF IMPACT	
19. Others (Specify) i.e. Animal Traps S/N Others Description Quantity/Size Comments	
ALONE HIMHM AREA OF IMPACT	
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 I) TION OF 24" TRAMS — RAMOS PIPELINE AT ODITIODI	
WING CORROSION AT 10 O'CLOCK PUSITION	eritätetinen kautti etaisitti attioni
CRACKED CONCRETE LEAK POINT CORROSION COATING) -
24") "
FROM BRASS CREENGETMANIFOLD TO FORCADOS TER	1 North

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

20,	ımpa	icted a	irea bo	oundary W	Coor	ijnates		nore	4	ntai	1 <i>d</i> 2	atta	ch c	78 ₅ 0	т ар	репс	tix)	ı
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	W95~8	4
S/N	Northing (DECIMAL DEGREE)	HEasting (DISCIMAL DEGREE)
	5.188975	5.395729
2	5.188 97	5.39572
<u>2</u> 3	5.18892	5.39574
4	5.18892	5,39577
5	5.18801	5.39576
6	5.18899	5.39579
7	5.18892	5.39576 5.39579 5.39579
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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact	· - .
• Impact within R.O.W O.OO6 He	
Impact outside R.O.W	
b. Volume of oil recovered before completion of JIV (Vreed):	·
Recovered oil V _{reel}	Barrels
Controlled recovery/evacuation from source with no impact to environment: Did Barrels	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* = O.74 BARRELS	
Estimated Reported Volume** V _{rep} (bbls)= 0.8 BARREL-	
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:	
to the state of th	
· · · · · · · · · · · · · · · · · · ·	

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site: Conversion of m' 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 | I 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.

xamples: 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 HV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the HV 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

