INCIDENT NO: 2045 702 JIV report S/N: 1043

(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: 2045702 2. Type of incident* OIL SPILL 3. Name of Location UKPELIEDE MANIFOLD 4. Name of nearest community UKPELIEDE 5. State: RIVERS 6. LGA MICADA WEST. 7. Type of Production facility/Installation MANIFUD 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 24 TH MARCH 2518 b. Start date/time of investigation: 6TH APRIL 2018 c. Investigation End date: 6th APRIL, 2018 Actual investigation duration, days: ONE DAY. d. Description of spill point environment □Firm soil ☐Loose soil Recently excavated area □Under water Exposed pipe surface □ Swampy ☐ Well Platform (on Water) □Drill Rig Additional observations around the spill point: ON THE 8" UBIE DELINERY LINE A 2" PRESSURE GAUGE VAIVE AND 2" INLET VENT WERE OBSERVED VANDALISED BY UNKNOWN PERSONG) 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 □Col<u>d_</u>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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[Y]

[NJ

15. Was there any disruption to the investigation?

INCIDENT NO: 2045702 JIV report S/N:1043 If yes to item 15 give brief description: 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 17. Crops/Economic Trees Medium Matured Quantity Comments Type of crops Young S/N 18. Fishing Nets/Fish Ponds Quantity/Size Comments S/N Nets/Ponds Description 19. Others (Specify) i.e. Animal Traps Comments Quantity/Size Description Others 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) SECTIONAL VIEW OF UKPELIEDE MANIFOLD AT UKPELIEDE TWO (2) NO OF 2" VANDALISE VAIVES AT THE MANIFOID PIG NAMDALISE SIGNALLER 2" INLET YENT VANDALISE 2" INLET PRESSURE VAIVE (LEAKING PUNT) GANGE VAIDE (LEAKING) DOINT. UKPELIEDE MANIFOID. UBIE NIL 14" OKORDA To Rumukpe Page 3 of 8 Trunkling.

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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)

	IMA	<u>584</u>
S/N	Northing LATITUSE	Basting LONGITUDE
1.	5.085,23	6.53927
ე.	5.08522	6.53928
3.	5.08521	6.53927
4.	5.08251	6.53928
5.	5.0852-5	6.53930
6.	5-08527	6.53928
7,	5.08531	6.53930
8.	5.08238	6 53934
9.	5.08520	6.53930
10-	5-08517	6-53937
((+	5-08510	6.53930
اعد	5.08508	6.53929
13.	5.08209	6.539 27
14.	5.08512	6.53929
15.	5-08516	6.53926
16.	5.08519	6.53923
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G. INCIDENT INFORMATION:					
a. Impacted Area Details					
Total calculated area of impact					
Impact within R.O.W					
b. Volume of oil recovered before completion of JIV (V _{recs}):					
Recovered oil Vreed:	Barrels				
Controlled recovery/evacuation from source with no impact to environment:					
NIL Barrels					
<u> </u>					
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =					
6.17 BARRELS					
Estimated Reported Volume** Vrep(bbls)= 7 BARKELS					
*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:	ı				
	_				
NOT APPLICA	BLE				
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 and spill volume in excess of	ntion software on site: ng rules:				
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 us volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.	se appropriate steps for .				

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d. General Status of the site

ì.	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

