INCIDENT NO: 2157619 JIV report S/N: 1150

(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: 2157619 2.Type of incident\* 012 SP122 3. Name of Location FOR CADOS TERMINAL SINGLE POINT MOORING 2 (SPM2)

4. Name of nearest community KINGDOM 5. State: DELTA 6. LGA BURUTU 7. Type of Production facility/Installation SPM2 FLDATING HOSE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF

P. INCODENT INCODENT TO SHELL PETROLEUM DEVELOPMENT COMPANY OF 9. Details of incident Details of incident 5 TH SEPTEMBER, 2018 b. Start date/time of investigation: 12TH SEPTEMBER, 2018 AT 11:18 HRS

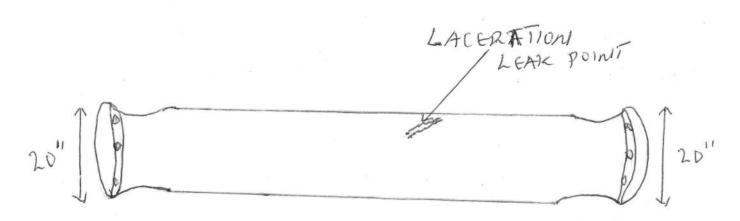
c. Investigation End date: 15TH OCTOBER, 28th investigation duration, days: 4 DA S d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area Under water Swampy ☐Exposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: e. Description 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 ☐ Corrosion DOTHERS (specify) LACERATION f. Incident caused by: Third party interference (Sabotage□; crude theft□; Line theft□; Accidental 3rd party damage ☑) ☐ Operational ☐ Mystery spills Others(specify)

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

INCIDENT NO: 2157619 JIV report S/N: 1150

g. Spill point coordinates h. Measuring unit LONGITUDE Easting: Northing: 5.16318 5.17-033 C. RISK ASSESSMENT 10. Type of environment: Water Land Swamp Seasonal swamp ☐ Shoreline/Waterfront i. Type of environment to which oil has spread: Land Water Swamp 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] ☐ Built up area ,m]VONE SEEM □ Farmlands ,m]THIN VICIMITY ☐ Fish Farm/pond ,m]☐ Fishing net ,m]☐ Others (specify) 12. Containment measures put in place; None Dyke ☐ Natural depression Pit Booms Trench Others: 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: 15. Was there any disruption to the investigation? [Y] LAT

INCIDENT NO: 2157619 JIV report S/N:1150 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 S/N Type of Structures Description Size Number Comments 17. Crops/Economic Trees Type of crops Young Medium Matured Quantity Comments 18. Fishing Nets/Fish Ponds Nets/Ponds S/N Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps S/N Others Description Quantity/Size Comments 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) GETTION OF FORCADOS TERMINAL SINGLE POINT MOORING 2 AT OGULAGHA KINGDOM SHOWING LACERATION AT 1 O'CLOCK POSITION.



INCIDENT NO: 2157619 JIV report S/N: 1150

### 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)

	MGS 84	
S/N	Northing LATITUDE	Easting LONG, TUDE
1.	5.1697	5.16361
2.	5.16869	5.16206
3.	5-16976	5.15776
4.	5.17022	5.15.779
5.	5. 17015	
6.	5.1717	5.15803
7.	5. 17202	5.15829
8.	5.17241	5.16130
9.	5.17227	5.16 209
10.	5.17180	5.163 04
11	5.17196	5.16350
12	5.17165	5:16420
	,	

INCIDENT NO: 2157619 JIV report S/N: 1150	)
G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 18.602 Ha	
Impact within R.O.W	
Impact outside R.O.W	
b. Volume of oil recovered before completion of JIV (V <sub>recl</sub> ):	
Recovered oil V <sub>recJ:</sub> /// Barrels	1
Controlled recovery/evacuation from source with no impact to environment:	_
M// Barrels	
741	
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	$\neg$
1.16 BARRELS	
Estimated Reported Volume** V <sub>rep</sub> (bbls)= 2 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:	
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software of Conversion of m' to barrels is Volume:(m3) x 6.29: **Round up estimated volume to next whole number using the following rules:	wı site:
Any spill volume in excess of   bbl   is rounded up to the next whole number:	
<ul> <li>Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.</li> </ul>	
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	

INCIDENT NO: 21576/9 JIV report S/N: 1150

d	General	Status	of the	cito
44.0	Otherai	Status	VI LIIL	SILL

i.	Joint investigation of the incident site found that there is no residual impact after the initial response an 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	V		

#### 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

INCIDENT NO: 2157619 JIV report S/N: 1150

f. Appendix 1: Overview sketch of the site

