INCIDENT NO: 2034906 JIV report S/N: 1008

(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: 2034906 2. Type of incident* OIL SPILL 3. Name of Location 16" NUNRIVER - KULUCREEK PIPELIME 4. Name of nearest community OPURDINA 5. State: BATELSA 6. LGA SOUTHERN IJAW 7. Type of Production facility/Installation <u>OIL PIPELIME</u> 8. Asset owner/District SPDC / PIPELINE B. INCIDENT INFORMATION: 9. Details of incident Details of incident 814 MARCH, 2018 b. Start date/time of investigation: 2814 MARCH, 2018 / 1130 HRS c. Investigation End date: 31" MARCH, 2018 Actual investigation duration, days: THREE (3) DAYS d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area SWAMPY Swampy Under water Exposed pipe surface □Well Platform (on Water) Drill Rig Additional observations around the spill point: THE SPILL SITE WAS FLOODED WITH IMPACT OF CRUDE OIL SEFAI ON WATER. e. Description of leak point (tick as applicable); □Drilled hole ☐Hack saw cut 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 □Others(specify) _ f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐)

☐ Mystery spills

Operational

☐ Others(specify)

^{*}This can be: a) Oil Spill b) Drilling fluid Chemical c) Siltation dyconstruction e) Encroachment f) Fire.

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g. Spill point coordinates 196 h. Measuring unit Northing: 80613 C. RISK ASSESSMENT 10. Type of environment: Seasonal swamp □Water ☐ Shoreline/Waterfront Land Swamp i. Type of environment to which oil has spread: SEASONAL Land \\ \ Swamp River (identify)_ ☐ Water Weather condition Rain Sunny □ Wet Windy □Hot □cool 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area **从ルム,**m] ☐ Drinking water source □ Built up area (10 ,m) 10 Farmlands □ Fish Farm/pond [7412 ,m] □ Fishing net ☐ Others (specify). 12. Containment measures put in place; Booms Pit None Dyke ☐ Natural depression Trench Others: 13. Any pictures or video coverage? [N] 14. Further response/repair initiated as at the time of JIV? if yes to item 14, give brief description: 111/11/ES OMGOING 15. Was there any disruption to the investigation? [Y] W

INCIDENT NO: 2034906 JIV report S/N: 1008 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 Type of Structures Description Size Number Comments 17. Crops/Economic Trees Type of crops Medium Quantity Young Matured Comments 18. Fishing Nets/Fish Ponds Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps Description Quantity/Size Comments E. GRAPHIC DESCRIPTION OF LEAK POINT (While detail report of the leak point should be contained in CTION OF 16" MUNRINGR - KULDCREER P PIPELINE AT OPOROMA CORROSIAN (PIN HOLE) LEAR POINT

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FROM NUMRNIER TO KOLOCKEEK

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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)

S/N		5 84
3/N	Northing LACITUDE	Easting CONGILUBE
	4.80612	6.10140
_	4.80618	6.10142
	4.80619	6.10146
	4.80615	6.10145
	4.80614	6.10148
	4.80609	6.10149
<u>_</u>	4.80604	6.10128
	4.80602	6-10130
<u> </u>	4.80.598	6.10131
	4.80600	6.10131
	4 RO613	6.10148
	4-80609	6.10148
	4.80607	6-10148
	4.80602	6.10141
<u> </u>	4.80607	6.10129
	4.80509	6.10130
	4.80605	6.10129
	4.80607	6.10129
· 		
_		
<u>.</u>		

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact	_
Impact within R.O.W	
Impact outside R.O.W	_
b. Volume of oil recovered before completion of JIV (V _{reeJ}):	Barrels
Controlled recovery/evacuation from source with no impact to environment:	Barreis
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
3.39 BARRELS	
Estimated Reported Volume** Vrei(bbls)= 4 BARR(LS	
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 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 1 bbl is rounded up to the next whole number:

Any spill volume in less than I bbt is rounded up to the next 0.1 bbl.

Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl Calculated volume = 0.35 bbl ------ Reported volume = 0.4 bbl Examples: Calculated volume = 0.01 bbl ----- Reported volume = 0.1 bbl

 $Wherever\ \ this\ estimation\ tool\ \ is\ not\ applicable\ please\ refer\ to\ paragraph\ 6e\ (Deviations)\ \ of\ the\ JIV\ procedure\ to\ use\ appropriate\ steps\ for\ .$ 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 \Box	
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	12

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]:
- 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

