Nº 0000372

INCIDENT NO: 1692296 JIV report S/N: (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: 69 2296 2. Type of incident\* OIL SPILL 3. Name of Location 24" TRANS - RAMOS 5. State: DELTA 6. LGA BURUTU 4. Name of nearest community ODIM ODI 7. Type of Production facility/Installation OIL PIPELINE PETROLEUM DEVELOPMENT COMPANY OF 8. Asset owner/District THE SHELL NIGERIA LIMITED / PIPELINE 9, Details of incident a. Date of incident: [. SEPTEMBER; 2016 AT 1309 HRS b. Start date/time of investigation: 21 ST c. Investigation End date: 22<sup>ND</sup> SEPT. 2016Actual investigation duration, days: 2 DAYS d. Description of spill point environment Recently excavated area Loose soil ☐Firm soil ☑Under water Swampy Exposed pipe surface □Well Platform (on Water □ DrillRig Additional observations around the spill point: IN CIDENT CAUSE WAS CONFIRMED AS THED PARTY INTERFERENCE, ESTABLISHED ON EXCAVATION OF THE LEAK POINTS. A MAJOR IN-WARD DENT AND TEAR (AT 12 O'CLOCK AND 6 O'CLOCK POSITIONS RESPECTIVELY) DUE TO EXTERNAL IMPACT WERE OBSERVED ON THE PIPELINE. e. Description of leak point (tick as applicable); Drilled hole ☐ Hack saw cut Inward dent, ☐ Well head tampering Complete Rupture ☐ Failed Clamp, ☐ Missing Pipeline/Flowline ☐ Failed Weld-on illegal hot tap valve ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Crude oil theft (illegal bunkering) point, ☐ Third party tampering with flange, ☐ Bulging Outward ☐ Third party tampering with 'valve setting ¹ □Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3<sup>nt</sup> party equipment impact Relief valve failure ☐ Valve Failure Others(specify)\_\_\_ f. Incident caused by:

☐ Operational

☑Third party interference (Sabotage☑;crude theft☐; Line theft☐; Accidental 3<sup>rd</sup> party damage☐) Others (including Mystery spills)

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

INCIDENT NO: 1692296 JIV report S/N: Nº 0000372 g. Spill point coordinates h. Measuring unit Easting: Northing: OTN GITUSE) 28507 C. RISK ASSESSMENT 10. Type of environment: **⊠**Swamp ☐Shoreline/Waterfront □Water ☐Seasonal swamp Land Type of environment to which oil has spread: Water ☐River (identify)\_ **⊠**Swamp Land Weather condition □cool M Rain Hot Drv □Windy Sunny 11. Distance from the nearest sensitive habitat Government reserved and designated protected area Drinking water source Built up area Farmlands ☐ Fish Farm/Pond Fishing net Others (specify). MANGROUES 12. Containment measures put in place; Dvke □Pit □None Booms □Natural depression 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: CRWE OIL PHAFE [Y] 15. Was there any disruption to the investigation?

INCIDENT NO: 169 2296 JIV report S/N: Nº 0000372 APPLI GABLE 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 Matured Quantity Comments S/N Type of crops Medium Young STAINED WITH CRUDE til FEW MANGROVES FEW FEL 18. Fishing Nets/Fish Ponds Quantity/Size Comments S/N Nets/Ponds Description 19. Others (Specify) i.e. Animal Traps Quantity/Size S/N Others Description 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)
SECTION OF 24" TRANS - RAMOS PIPELINE AT ODIMODI AKIS, SHOWING; MATOR IN-WARD DENT AND TEAR AT 12 O'CLOCK AND 6 O'CLOCK POSITIONS REFRECTABLY MATOR IN-WARD DENT AND TEAR 24C11 lm MATER W-WARD DENT Page 3 of 8 AND TEAR

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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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a. Impacto	!d Area	Details
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•	To	tal calculate	d area of imp	aci <u>SA</u>	ME A	21	INCIDENT-16	84	151
•	Im	pact within	R.O.W	<u> </u>	ES_			-	
•	Im	pact outside	R.O.W		<i>fES</i>				
b. Volume	ofo	il recovere	ed before co	mpleti	on of JIV	(V <sub>r</sub>	ee.J):		
			1	Recove	red oil V <sub>rec</sub>	i: 2	AME AS INCIDENT-L	1684	Barrels 15T
Controlled	i reco	overy/evac	uation from:	source	with no in	npac	t to environment:		
		Γ	MIL		Barrels	1			

Net Estimated Spilled VolumeV<sub>Est</sub>(bbls)\* =

VOLUME IS SAME AS INCIDENT-1684151

Estimated Reported Volume\*\* Vren(bbls)= SAME AS INCIDENT-1684151

\*Notes:

Volume estimation was done using an excel based tool.tsee 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:

BOTH INCIDENTS (1684151 AND 1692296) OCCURRED WITHIN THE SAME PERIOD AND AT A DISTANCE OF ABOUT 29M APART, THEIR IMPACT ARE COMPLETELY EVER-LAPPING. HENCE, AREA IMPACTED AND ESTIMATED QUANTITY SPILLED

IS SAME FOR BOTH INCIDENTS.

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 bbl—is rounded up to the next 0.1 bbl.

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

Wherever this estimation roof is not applicable please refer to paragraph be (Deviations) of the JP procedure to use appropriate steps for volume extination; 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

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#### e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- Department of Petroleum Resources [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

TRANS - RAMOS PIPELINE AT ODIMODI AXIS State of the state