INCIDENT NO: 2037197 JIV report S/N: 10??

(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: 2037197 2.Type of incident* OIL SPILL RUMUEKPE - NKPOKU PIPELINE 3. Name of Location 20 4. Name of nearest community MBODO-ALUU5. State: RIVERS 6. LGA KWERRE 7. Type of Production facility/Installation OIL PIPELINE PETROLEUM DEVELOPMENT COMPANY LIMITED/PIPELINE NIGERIA B. INCIDENT INFORMATION: 9. Details of incident TH MARCH, 2018 Date of incident: 2018/13:37 Hours b. Start date/time of investigation: 15TH MARCH, MARCH, Actual investigation duration, days: Wo (2) DAYS c. Investigation End date: 10TH d. Description of spill point environment 2018 Loose soil ☐Firm soil Recently excavated area ☐Under water Swampy 1 Exposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: DN ARRIVAL INVESTIGATION TEAM OBSERVED AN ILLE GAL HOSE ATTACHED TO ONE OF THE PARTIALLY EXPOSED CRUDE OIL LEFT SAND BAGS BY UNKNOWN PERSONIS) WERE OBSERVED WITHIN THE VICINITY OF AN OBSERVED DITCH AROUND SPILL e. Description of leak point (tick as applicable); ☐Drilled hole Hack saw cut Tear (☐Complete Rupture ☐ Inward dent. ☐ Well head tampering ☐ Failed Weld-quillegal 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, ☐ Flure 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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asuring unit		<u> 22121</u>			
H. 93250		6.96651			
				<u> </u>	
K ASSESSMEN					
Type of environ					
Land	☐Swamp	□Water	Seasonal swamp	☐Shoreline/	Waterfront
i. Type o	f environment to wh	hich oil has spread:			
Land	□ Swamp	□Water	River (identify)		_
ii. Weathe	r condition				
Rain	-□Sunny [□Dry □Wet	. □Windy □Hot	□cool	
Distance from th	e nearest sensitive l	ıabitat			
☐ Drinking wa ☐ Built up are ☐ Farmlands ☐ Fish Farm/ ☐ Fishing net	a		a [,m] [,m] [,m] [,m] [,m] [,m]		
Containment me	asures put in place;				
Booms	Tr	rench Dyke	☐ Natural depression	Pit	□None
Others:					
Any pictures or v	/ideo coverage?		[N] \ [Y]		
		t the time of JIV?	[Y]/.[N]		

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3

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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)

Northing LATITUDE Easting LONGITUDE		kla	\$&P
2. 4.93255 6.96651 3. 4.93252 6.96651 4. 4.93252 6.96653 5. 4.93252 6.96653 6. 4.93252 6.96651 7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93243 6.96660 10. 4.93244 6.96660	S/N	Northing LATITUDE	Easting LONGITUDE
3. 4.93253 6.96651 4. 4.93252 6.96653 5. 4.93252 6.96653 6. 4.93252 6.96651 7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93244 6.96660	14		6.96654
4. 4.93252 6.96653 5. 4.93250 6.96653 6. 4.93252 6.96651 7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93243 6.96660 10. 4.93244 6.96660	٦.		
4. 4.93252 6.96653 5. 4.93250 6.96653 6. 4.93252 6.96651 7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93245 6.96660 10. 4.93244 6.96660	3-		6-96651
6. 4.93252 6.96651 7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93243 6.96660 10. 4.93244 6.96660	4.	4.93252	6.96653
7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93243 6.96660 10. 4.93244 6.96660	5		6.96653
7. 4.93250 6.96648 8. 4.93245 6.96656 9. 4.93243 6.96660 10. 4.93244 6.96660	6	4.93252	
9· 4·93243 6·96660 10· 4·93244 6·96660	7.	4.93250	
9· 4·93243 6·96660 10· 4·93244 6·96660	8'	4. 93245	6-96656
		4.93243	6.96660
11 4.93251 6-96649	10.		
	11	4.93251	6-96649
			
	_		
	-		

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NCIDENT INFORMATION:	
Impacted Area Details	
Total calculated area of impact_ 0 . 00 4 Hg	
Impact within R.O.W	
Impact outside R.O.W	<u>—</u>
Recovered oil V _{rec.J.} :	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
218 Barrels	
Net Estimated Spilled VolumeV _{Est} (bbls)* = 17.63	
timated Reported Volume** Vrea(bbis)= 8 BARRELS	
timated Reported Volume** Vreu(bbls)= 8 BARRELS	
ntes: Volume estimation was done using an excel based tool (see attached for details on the calculation)	
IO DHKKELS	
otes: 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:	
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otes: 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:	

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.

Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl ------ Reported volume = 0.4 bbl ------ Reported volume = 0.4 bbl ------ Reported volume = 0.1 bbl

Any spill volume in less than - 1 bbl - is rounded up to the next 0.1 bbl.

Examples:

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d.	General	Status	of the	site
u.	OCHULAI	J141UJ	OI LINE	344

i.	Joint investigation of the incident site found that there is no residual impact after the initial response	md ЛТ
	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	Ū∕

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

