INCIDENT NO: 1476660 JIV report S/N:

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(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spitt incident Number: 476660 2. Type of incident\* 011 3. Name of Location 20" RUMUEKPE - NKPOKU PIPELINE 4. Name of nearest community OMUIGWOR-IRAA 5. State: RIVERS 6. LGA EMOHUA 7. Type of Production facility/Installation OIL PIPELINE PETROLEUM DEVELOPMENT COMPANY OF A LIMITED / PIPELINE 9. Details of incident a. Date of incident: 31ST AUGUST, 2015

b. Start date/time of investigation: 4TH SEPTEMBER, 2015/14:00 Hours c. Investigation End date: TH SEPTEMBER Actual investigation duration, days: FOUR (4) DAYS d. Description of spill point environment DFirm soil Recently excavated area Loose soil Under water □Swampy Exposed pipe surface ☐Well Platform (on Water ☐ DrillRig Additional observations around the spill point: ON TEAM OBSERVED THAT A BUND WA CONTAINMENT MEASURE, 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 □Others(specify) f. Incident caused by: Third party interference (Sabotage ; crude theft□; Line theft□; Accidental 3rd 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.

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g. S	pill point coordinat	es		· ~				
h. N	leasuring unit		Was	84				
	Northing:				Easting:			
	4.	95352			6.83	195		
					*		<u> </u>	
				<del></del>	•			
C. RIS	K ASSESSMENT	r						
	Type of environm							
	Land	□Swamp		Water	Seasonal	swamp	Shoreline/\	 Vaterfront
	i. Type of	environment to	which oil	has sprand:				
		7		nas spreau.				
	Land	Swamp (SEASC	(Akk	□Water	River	(identify)		
	ii. Weather	condition	, a riii					
	<b>√</b> Rain	Sunny	□Dry	□Wet	□Windy	□Hot	□cool □	
11.	Distance from the	nearest sensitiv	ve habitat					
	☐ Government ☐ Drinking wat ☐ Built up area ☐ Farmlands ☐ Fish Farm/Po ☐ Fishing net ☐ Others (speci	er source and			] ] ]	(m, ,m] ,m] ,m] ,m] ,m]	CTED BY	SPILL.
· 12.	Containment mea	sures put in pla	ce;		•			
	<b>□</b> Booms		Trench	Dyke	√Z Natural de	epression	□Pit	□None
	ØOthers: Ru	ND WALL	BUILT	AROUNI	SPILL F	POINT		
13.	Any pictures or v				[Y] <b>/</b>			
14.	Further response	/repair initiated	l as at the t	ime of JIV?	[ Y] <b>/</b>	[ N ]		
REP	item 14, give brief di AIR ON THE MPING.		D SECT	TON OF	PIPELINE	WAS be	ONE B	<b>Y</b>
15.	. Was there any dis	ruption to the i	nvestigatio	on?	[Y] <b>/</b>	[N]		

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If yes to item 15 give brief description: THE JTHE SPILL SITE ON 6TH SEPTEMS THE PREVIOUS DAY STH SEPTEMS SOME MONETARY PAYMENTS TO BE SPILL-IMPACTED AREA WERE CO	OINT INVI ER 2015, J ER 2015, R MADE R MADE R	ESTIGATION T UST AS ONG Y COMMUN EPAIR WORK N LAST DAY OF	EAM WAS DE OING LEAK R ITY MEMBE AND ASSE TIV, TIH	ENIED ACCESS TO LEPAIR WAS HALTED RS DEMANDING FOR SSMENT OF SEPTEMBER, 2015,
D. TYPE/NUMBERS OF PROPERTIES, IF  16. Structures / Properties  S/N Type of Structures Description	ANY, FOUND	WITHIN THE	AREA OF SPRE	<b>,</b>
NONE WITHIN	) AR	EA O	FIN	PACT
17. Crops/Economic Trees  S/N Type of crops Young  1. RAFFIA PALM	Medium	Matured	Quantity WiThin AN	Comments IMPACTED BY
				RAIN FOREST REGION.
18. Fishing Nets/Fish Ponds  S/N Nets/Ponds Description		Quantity/Size (	Comments	
NONE WITHIN	AR	EA $\phi$	F M	ACT
19. Others (Specify) i.e. Animal Traps  S/N Others Description	A	Quantity/Size	Comments	
E. GRAPHIC DESCRIPTION OF LEAK PO	AK Outside of	LA (	laak point should	AC I
the leak report, overview sketch of the site should SECTION OF 20" RU	l be added as a	n appendix 1)	•	
AT OMUIGWOR-IBAA	HOWIN	1G DRIL	LED HO	
AT 2 o AT 2 o	CLOCK			
ILLEGAL POLYETHYLENE		· br	M DIAMET ILLED HOLE O' CLOCK 1	AT )
DE-COATING BY UNKNOWN PERSONCS	s <b>)</b> .	^	O OPPORT	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

Page 3 of 8 FROM RUMUEKPE TO NKPOKU

Nº 0003058

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#### F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

20. Impacted area boundary Coordinates (If mone Print and attach as an appendix)

S/N	Northing Northing	Easting
	<u> </u>	
	4·95344 4·95351	6.83887
	495351	6.83888
	4.95348	6.83826
	4.95355	6.83826
	4.95332	6.83809
	4.95316	6.83816
	495307	6.83856
	4.95261	6.83865
	4.95240	6.83855
	4.95227	6.83835
	495363	6.83785
	4.95344	6.83761
	495351	6.83744
	4.95369	6.83731
	4.95318	6'83673
-	4.95317	6.83.673 6.83.656
•	4.95238	6.83772
	495265	6.83705
		7
		•

INCIDENT NO: 1十 (2060) JIA Lebout 2/N: 14: 186061	: 1476660 JIV report S/N: Nº 000	0058
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_	12100	PAIR AN	MATION:

<ol> <li>a. Impacted Area Det</li> </ol>	ails
--	------

• T	otal calculated area of impact_	Y. YTHH
	maget within R O W	4FS

Impact outside R.O.W

b.	Volume of oil recovered before completion of JIV (V	():
	oldine of on recovered before completion of or a ( )	recal

Recovered oil V <sub>recJ</sub> :	NIL	Barrels
	<u> </u>	

Controlled recovery/evacuation from source with no impact to environment:

|--|

c.	Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	aur 7
		コサン・/

Estimated Reported Volume\*\* Vrep(bbls)= 946 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:

# NOT APPLICABLE

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<sup>1</sup> to barrely 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 1 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 6c (Deviations) of the JIV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attack to the JIV report.

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d.	Genera	ı	Status	of the	cita
	OCHCI 4	Ţ.	Status	VI LIIC	3111

i.	Joint investigation of the incident site found that there is no residual impact after the initial response a therefore recommend that the site be closed out	ınd JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Q/

#### e. Representatives

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

- Host Community:
- 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

