INCIDENT NO: 1757249 JIV report S/N:

Nº 0000222

(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: 17572.	49 2.Type of incident*	OIL SPILL
3. Name of Location BONNY TERMINI	41 TANK 15 10" DRA	IN LINE FLANGE
4. Name of nearest community BONN	5. State: RIVERS 6	.LGA_ <u>BONNY</u>
7. Type of Production facility/Installation 8	ONNY OIL AND GA	S TERMINAL (BOGT)
8. Asset owner/District THE SHELL	PETROLELIM DEVEL	OFMENT COMPANY OF NIGERIA
B. INCIDENT INFORMATION:		LTD (SPDC)/BCGT
9. Details of incident a. Date of incident: 28TH NOVEN b. Start date/time of investigation: 15T c. Investigation End date: 15T DECEM d. Description of spill point environment	DECEMBER 2016/	1000 HRS ion, days: <u>ONE(I) D</u> AY
	<u></u>	Recently excavated area
<u> </u>	Swampy DrillRig	Exposed pipe surface
Additional observations around the spil	l point:	
NOT	APPLIC	ABLE
e. Description of leak point (tick as appli Drilled hole Complete Rupture Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) po Third party tampering with valve set Flare System/Bund wall failure Valve Failure Vothers(specify) LEAKING I	Hack saw cut Inward dent, Failed Clamp, oint, Saver-pit over flow ting Bulging Outward Cold vent Relief valve failure	☐ Tear (), ☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange, ☐ Surge vessel overflow, ☐ Accidental 3 rd party equipment impact
f. Incident caused by: Third party interference (Sabotage Operational Others (inc	l;crude theft□; Line theft□; Accider	ntal 3 rd party damage□)

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

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g. Spill point coordinates WGS 84 h. Measuring unit Northing: 15819 007 C. RISK ASSESSMENT 10. Type of environment: ☐Shoreline/Waterfront √2 Land □Water ☐ Seasonal swamp ☐Swamp Type of environment to which oil has spread: □Water River (identify) ☐Swamp Weather condition □cool Sunny Dory □Wet ■Windy □Hot 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area □ Drinking water source ,m] O Built up area C Farmlands ☐ Fish Farm/Pond Fishing net var Others (specify). IS DNN Y TANK FARM 12. Containment measures put in place; □None Natural depression □Pit Dyke Trench Booms 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: FUTHER DEPRESSURIZED 2 AW 15. Was there any disruption to the investigation? [Y]

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If yes to item 15 give brief description:									
- NOT APPLICARIE									
	1 1 (<u> </u>		<u> </u>	<u> </u>		$\mathcal{O}_{\mathcal{F}}$	<u> </u>	
	FYPE/NUMBERS 6. Structures / Pro		PERTIES,IF	ANY, FOUND	WITHIN THE	AREA O	F SPREA	AD OF OIL	_
S/N	Type of Struct	ures	Description	Size	Number		Commo	ents]
Δ	ONE	M	HTHI	NA	REA	0F	/M 	ACT	
	7. Crops/Econom		<u> </u>			1 =			¬
S/N	Type of crops	Young		Medium	Matured	Quant	ity	Comments	-
Λ	ONE	W	THIA	AR	EA O	<i>F //</i>	APA	CT	
	18. Fishing Nets/F	ish Ponds							-
S/N	Nets/Ponds		escription		Quantity/Size	Commen	its]
				1 0 m		7.10	4 0	 _	-
Λ	ONE Y	V/17	HIN Y	AREA	OF	MY	AC	 	- - - - - -
<u> </u>	19. Others (Specif	y) i.e. An	imal Traps						_
S/N	Others	D	escription		Quantity/Size	Comme	ents		4
A	IONE	= /	VIIH	NA	ZEA C	F/	MPA	C.T	- - -
E. G	RAPHIC DESCR	RIPTION	OF LEAK PO	OINT (while a	letail report of th	l ie leak po	int should	i be contained in	_}} !
the le	eak report, overvie	w sketch o	of the site should	d be added as a	an appendix 1) 🖡	SEC	TION	J OF BO	KNN
TER	IMINAL TA	NK-11	5 10" DR	AIN LIN	E AT BO	ンペン	SHOV	NING LEA	KING
FL	ange,					k.			ر_
									\leq
•						LEAK	NG F	FLANGE	4
14A1	15 18" DF		10"	PIPE		1	TANK 15		
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					-	>	****		
			TO T	ANK -	15				

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

20. Impacted area boundary Coordinates (If more, Printand entaglines an appendix)

		W4284
S/N	Northing	Easting
	04.432.08	007.15812
	04.43208	007.15821
	04.43203	007.1581Z 007.15821 007.15825
	04.432.08 04.432.08 04.432.03 04.43198	007.15818
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G. INCIDENT INFORMATION:

a.	Impacted	Area	Details
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Total calculated area of impact 0.01 HA Impact within R.O.W

Impact outside R.O.W _

b. Volume of oil recovered before completion of JIV ($V_{rec.l}$):

Recovered oil V_{recJ}: Barrels

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

Barrels NIL

Net Estimated Spilled VolumeV_{Est}(bbls)* =

0.94 BARRELS

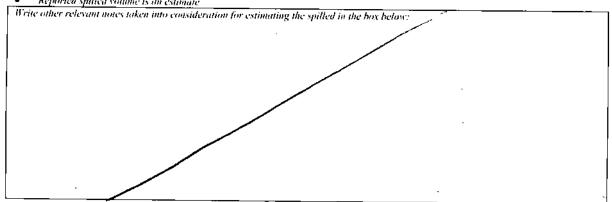
Estimated Reported Volume** Vren(bbls)=

1.0 BARRELS

*Notes:

Volume estimation was done using an excel based tool (see attached for details on the calculation)

Reported spilled volume is an estimate



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 m³ to barrels is 3 olume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules:

hay spill volume in excess of - 1 bbl - is rounded up to the next whole number.

thy spill volume in less than - 4 bbl - is coincided up to the next 0.1 bbl.

Calculated volume = 15.3 bbl ----- Reported volume = 16 bbf Examples. Calculated volume + 0.35 bbt ------ Reported volume = 0.4 bbf

Calculated volume = 0.01 bbl ----- Reported volume = 0.1 bbl

Wherever this estimation tool is not applicable please refer to paragraph be (Deviations) of the AV procedure to use appropriate steps for volume estimation, record the calculation in a plain sleet of paper and attach to the AV 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

e. Representatives

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

- Department of Petroleum Resources [DPR]:\2
- 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 finding \(\mathbb{L}\)

Tick as applicable

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f. Appendix 1: Overview sketch of the site

