INCIDENT NO: 1925458 JIV report S/N: 0972
(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: 1925458 2. Type of incident* OIL SPILL
3. Name of Location 28" Berry - BONNY TRANS MIGER PIPELINE ROW.
4. Name of nearest community FOREST (OLCMA). State: RIVERS 6. LGA BONNY
7. Type of Production facility/Installation GIL PIPELINE
8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA
B. INCIDENT INFORMATION:
9. Details of incident a. Date of incident: 11TH SEPTEMBER, 2017 b. Start date/time of investigation: 13TH SEPTEMBER, 2017 c. Investigation End date: 13TH SEPT, 2017 Actual investigation duration, days: CNE DAT d. Description of spill point environment Firm soil Description of spill point environment Description of spill point Description Descri
e. Description of leak point (tick as applicable); Drilled hole Complete Rupture Inward dent, Failed Clamp, Missing Pipeline/Flowline Crude oil theft (illegal bunkering) point, Third party tampering with valve setting Flare System/Bund wall failure Corrosion General Surge vessel overflow, Relief valve failure Corrosion Condeted tampering with clamp Accidental 3rd party equipment impact 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,

INCID	ENT NO: 192	5458	JIV re	port S/	N: 0 91	3 2
g. Spill point coordin	ates THEFT	POINT)			_
 Measuring unit 			_W4S {	34		
Northing:		·	Easting:			
4	45218		7.179	45		
			-	7		
	/	<u> </u>		<u></u>		
C. RISK ASSESSMEN	١T					
10. Type of environr	nent:	•				
Land	Swamp	□Water	□ Seasonal	swamp	Shoreline	/Waterfront
i. Type o	f environment to which	h oil has spread-				
Land	Swamp	□ Water	□River (ide	entify)		
ii. Weather	condition		`			
Rain	⊡sunny □	•	Windy	Hot	□cool	
 Distance from the 	nearest sensitive habi	itat				
☐ Government☐ Drinking wa☐ Built up area☐ Farmlands☐ Fish Farm/p☐ Fishing net☐ Others (speci	ond	ed protected area]]] []	(m, [m, [m, [m, [m, [m, [m, [m, [m, [m, [VONE S WITH A VICINI	4
12. Containment mea	sures but in place.					
Booms	Trenc	h 🗆 Dyke	⊠Natural de	pression	□Pit	□None
Others:						
13. Any pictures or vie	deo coverage?		[YY]	[N]		
Further response/r	epair initiated as at the	time of JIV?	[Y \]	NI		
fyes to item 14. give brief of LETH PERARY RE	description: PACK INDRK F	Sraen		•	C	
RECOVERY WOR	K ONGOING	- <u></u>	* CONTINE	F LCIVITY	<u> CRADE</u>	<u>~(L _</u>
15. Was there any disrup		?		N /		
	_		r * J [14		

SHOWING:- LEAK FROM 2" IDAIL VALVE CONNECTED AT A DISTANCE AWAY FROM THE 3" NON - LEAKING ILLEGAL THEFT POINT. 3" TO 2" REDUCE TRILGIN 2" BAIL VALUE 2" ILLEGAL PIPE CONNECTION: NOIV - LEAKING 3" CHIL RT 12 & CLOCK VALUE BEMU - BONNY PIPELING.	INCIDE	ENT NO: <u>192</u>	L5458	JIV re	port S/N:0	932
16. Structures / Properties SIN Type of Structures Description Size Number Comments 17. Crops/Economic Trees SIN Type of crops Young Medium Matured Quantity Comments 18. Fishing Nets/Fish Punds SIN Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps SIN Others Description Quantity/Size 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) M. VIELA OF 28 "P. Demu - General Traps NIGEA PIPELINE AT CILBURGA SHOWLING. LEAK FROM 2" IDMINISTRATE AND TREET POINT. SHOWLING. LEAK FROM 2" IDMINISTRATE AND TREET POINT. 3" To 2" REDUCE TREET POINT. 3" To 2" REDUCE TREET POINT. SECOND - GENERAL PIPE CENNECTION AT A MS TATALE. 12" ILLECAL PIPE CENNECTION AT A MS TATALE. 13" NIPPLE IN THE 3" NIPPLE IN TREET POINT. 14" ILLECAL PIPE CENNECTION AT A MS TATALE. 15" NIPPLE IN THE 3" NIPPLE IN TREET POINT. 15" TO 2" REDUCE TREET POINT.	If yes to item 15 give brief	f description:				
16. Structures / Description Size Number Comments	M	0 1 /	YPPI 1	CABL		· · · · · ·
Type of Structures Description Size Number Comments 17. Crops/Economic Trees S/N Type of crops Voung Medium Matured Quantity Comments 18. Fishing Nets/Fish Ponds S/N Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps S/N Others Description Quantity/Size 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) EL NIEM OF 23 DEMM - BONNT TRANS NIGES PIPELINE AT CHENGA SHOMING: LEAK FROM 2" IDEML VALVE CONNECTED AT A INSTANCE ANALY FROM THE 3" NAN - LEAKING ILLEGIAL TREET POINT 3" To 2" REDUCE TAIL OF 12" REDUCE TAIL OF 12" CHENGA SECOND - BENNY PIPELINE TO 1" STORY OF THE CONNECTION NON - LEAKING 3" NIPPLE IN THE 12 C (LICE 128' TAP		•	FANY, FOUND	WITHIN THE	REA OF SPREA	AD OF OIL
SN Type of crops Voung Medium Matured Quantity Comments 18. Fishing Nets/Fish Ponds SN Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps SN Others Description Quantity/Size 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) RL VIEW OF 28 PONTU - BONNT TRANS NIGER PIPELINE AT CICROMGA SHOMING: LEAK FROM 2" IDANI VALVE CONNECTED AT A INSTANCE AWAY FROM THE 2" NON - LEAKING ILLEGIAL THEFT POINT: 3" TO 2" REDUCE THE CONNECTED AT A INSTANCE AND THE STORY OF SENIOR PIPELINE AT CICROMGA SHOWL - BONNT PIPELINE 3" No POLICE THE CONNECTED AT A INSTANCE AND THE STORY OF SENIOR PIPELINE 3" TO 2" REDUCE THE CONNECTED AT A INSTANCE AND THE STORY OF SENIOR PIPELINE 3" NO POLICE THE CONNECTED AT A INSTANCE AND THE STORY OF SENIOR PIPELINE 3" NO POLICE THE CONNECTED AT A INSTANCE AND THE STORY OF SENIOR PIPELINE AT 12 CICROMANIA THE SENIOR PIPELINE THE STORY OF S			Size	Numbe	r	Comments
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19. Others (Specify) i.e. Animal Traps S/N Others Others Description Ouantity/Size Comments 19. Others Others Description Ouantity/Size Comments Others Comments Others Others Description Ouantity/Size Comments Others Comments Others Comments Others Others Others Description Ouantity/Size Comments Comments Others Comments Others Comments Others Ot	NONE	AIIIIA	AR		I IMI	PACI
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SHOWING: LEAK FROM 2" IDAM VAIVE CONNECTED AT A DISTANCE AWAY FROM THE 3" NON-LEAKING ILLEGIAL THEFT POINT: 2" BAIL VAIVE 2" ILLEGIAL PIPE CONNECTION: NOIN-LEAKING REDUCE THE 3" NIPPLE II S" DAIL VAIVE BOOM - BONNY PIPELINE.						d be contained in
SHOWING: - LEAK FROM 2" IDAM VALVE CONNECTED AT A DISTANCE AWAY FROM THE 3" MON - LEAKING ILLEGAL THEFT POINT. 3" To 2" REDUCE TRILEIN 2" BAIL VALUE ANDIV - LEAKING 3" DAIL VALUE THE BEMU - BENINT PIPELING TO 2" REDUCE 1000	•	•		·		AT MI BANG
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2" BAIL VALUE 2" ILLEGAL PIPE CONNECTION NOW-LEAKING 3" NIPPLE II VALUE THP BONY-BONNY PIPELING			<u> </u>			
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THP BENNY PIPELING	made hotel.					
BONY - BONNY PIPELING						
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rage 3 01 0		Bomu -	BONNY PIR Page 3 of 8	GLINE		

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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)

001	Impacted area boundary Cooldinates (Vina)	5 84
S/N	Northing	Easting
	4 452478	7.179398
	4 45254	7.17953
	4.45215	7.17957
	4.45213	7-17925
	4.45219	7-17923
	4.45228	7.17898
	4.45252	7.17907
	4-45263	7.17926
	4.45261	7.17940
		7
•		
		V

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G. INCIDEN	T INFORMATION:	
a. Impac	ted Area Details	
	Total calculated area of impact 0.26 hg	
•	Jec	
•	Impact outside R.O.W	
b. <u>Volum</u>	c of oil recovered before completion of JIV (Vreed):	
	Recovered oil V _{recJ} : NIL ed recovery/evacuation from source with no impact to environment:	Barrels
o Not Es	timated Spilled Volume V. (1) 1 No.	
c. Net Es	timated Spilled VolumeV _{Est} (bbls)* =	
	23 52 BARRELS	
stimated Re	ported Volume** Vren(bbls)= 24 GARRELS	 -
 Report 	e estimation was done using an excel based tool (see attached for details on the calculation) ed spilled volume is an estimate relevant notes taken into consideration for estimating the spilled in the box below:	
LEXK.	IS FROM THE CHUBE OIL THEFT LINE - BUT CON	INECTION TO P
ILLECIA	al Refinery Siter Failed AT A Point outside	E THE 28" B
-BENNY	Y TRANS NIGER PIPELINE RIGHT OF WAY (ROW	1) 444 5 5011

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:

INTO THE MANICIPEVE, THEN THE OIL FLOWER WITH TIDE AND AND IMPACTED THE 28" THE ROW AT OUBENCE FORCESTS THE

LECATION OF THE MON LEAKING THEFT PEINT WITH TO 1761237.

- Any spill volume in excess of -l 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.

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 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
ii. Investigation of the incident site showed that there is residual impact on site requiring further works
c. Representatives
This report was filled, agreed and signed by the following joint investigation team representatives:
Host Community:
Department of Petroleum Resnurces [DPR]:
National Oil Spill Detection and Response Agency [NOSDRA]:
• State Ministry of Environment [SME]:
• Asset Owner:
Signatorics 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

