OINT INVESTIGATION REPORT FOR INCIDENT NO: 1361944 JIV re	port \$/N: 00835
(Note: As practicable as possible the JIT report is to be signed in the field by all the p	participating parties)
A. GENERAL INFORMATION:	
1. Spill incident Number: 1361944 2. Type of incident*	our soul
3. Name of Location 28" Bony - BONNY TRAINS NI	ier Pipeline
4. Name of nearest community OWOKIRI 5. State: RIVERS 6. LO	GA ANDONI
7. Type of Production facility/Installation 814 PIPELINES. Asset owner/Dist	
B. INCIDENT INFORMATION:	
9. Details of incident a. Date of incident: 1774 MARCH 2015	
b. Start date/time of investigation: 257th APRIL, 2015	
c. Investigation End date: 26 TM APRIL, 2015 Actual investigation duration	n, days: ONE DAT
d. Description of spill point environment	
☐ Firmed soil ☐ Loose soil ☐ Recently e☐ Under water ☐ Swampy ☐ Exposed pi☐ Under (on Water) ☐ Drill Rig	l l
Additional observations around the spill point:	
MOT APPLICABL	€.
☐Complete Rupture ☐Inward dent, ☐Well head ☐Failed Weld-on illegal hot tap valve, ☐Failed Clamp ☐Missing Pi ☐Crude oil theft (illegal bunkering) point, ☐Third party	peline/Flowline y tampering with Clamp y tampering with flange, el overflow,
f. Incident caused by: Third party interference (Sabotage ; crude theft ; Line theft ; Accidental Operational Others (including Mystery spills)	3 rd party damage□)

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

DINT INVESTIGATION F	REPORT FOR IN	CIDENT NO: 1	36191	14 JIV 1	report \$/N:	0083 5
g. Spill point coo Measuri		tala	s 84	_		
	(LATITU		2 0 7		DNEUTUE)E)
	11.5201	<u>-</u>		17	M 2553	5
 	4 549	3		7	2482	7
						·
C. RISK ASSESSMI	ENT					
10. Typ	e of environment:					
Land	Swamp	□Water	□Se	asonai swamp[□Shoreline/Wate	rfront
і. Туре	of environment to	which oil has sp	read:			
Land	Swamp	□Water	□Ri	ver (identify)_		
ii. Weat	her condition					
☐Rain	Sunny the nearest sensiti	•	□wet	□Windy	Hot	□cool
	ls n/Pond et	esignated protect	ed area	, п,	1] Note	SEEN 1N 1177.
12. Containment	measures put in pla	ace;				
□Booms □Others:_	Trench	Dyke	□N	atural depression	on Pit	□None
13. Any pictures	or video coverage?	?		[Y]	N]	
14. Further resp	onse/repair initiate	ed as at the time of	of JIV?	[Y /]	N]	
If yes to item 14, give br	ief description:	EMPORA	27	REPAIR	2 64 8	dusto
FLANGE			SOIM.		<u> </u>	<u> </u>
1 , (,,-	y disruption to the				N}/	
		obii Barroii.		ι-, ι	- · J.	
If yes to item 15 give	orier description:	<u> </u>	31			
ľ	$\mathcal{I} \cup \mathcal{I}$	HYY	<u> </u>	LAKO	<i>لــلتــل</i> .	

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1361944 JIV report S/N: 00835

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

	16. Structures / Prop	erties							
S/N	Type of Structur	es	Description	Size	Number		Comme	ents	
A	ONE	Wi	HIN	ARE	A O		MP	€	
	17. Crops/Economic				,				
S/N	Type of crops	Young		Medium	Matured	Quan	tity	Comm	ents
*	tone !	11	HIN	AR	A	OF	M	AC	<u>(- </u>
	18. Fish/Nets/Ponds								-
S/N	Fish/Nets/Ponds	p	escription		Quantity/Size	Comme	nts		
1	TONG L	II.	HIM	AR	<u> </u>	1	MP	AC.	
	19. Others (Specify)	i.e. An	imal Traps					-	
S/N	Others	D	escription		Quantity/Size	Comm	ents		
	JONE 1	Ni	THI		C.A.	of		1/4	c (
	 FRAPHIC DESCRIP report, overview sket					l leak poin	t should be	containe	ed in the
<u>. L</u>	LEW OF	28	" Bom	4- Bb	IT YMM	2200	NI (, EF	PIPE
		_		_					_

SECTIONAL VIEW OF 28" BOMY - BOMMY TRAMS MILER PIPELINE

AT OMORIRI SHOWING: - CRUBE OIL VILEGALLY INSTAULED

THEFT POINT AT 12' CLOCK

PORTION

BOMM - BRING 3 of BIRELINE

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 136(944 JIV report S/N: 00835

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)

		as 84 "	,
S/N		Easting (LONGUT)	NE)
	4.58018	25834	-
	4.58018	7/1553	8
	4.58006	2553	6
	//		
301	4.54986	7.2485	2
303	4.54982	7.2481	5
304	4.54990	7.2481	3
305	4.55034	7.2481	7
306	4.55047	7.248	20
307	4.55069	7.248	
308	4.55082	7.248	
309	4.55058	7.248	
310	4.55023	7.248	77

T INVESTIGATION REPORT FOR INCIDENT NO: 1361944 JIV report SA	√ 0083 5
G. INCIDENT INFORMATION:	
20. Impacted Area Details	
•	
Total calculated area of impact 0 · 53#4	
Impact within SPDC R.O.W	
Impact outside SPDC R.O.W 1ES	<u></u>
21. Volume of oil recovered before completion of JIV (V _{reeJ}):	
Recovered oil V _{reej} : NLL	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
Na L Barrels	
•	
22. Net Estimated Spilled Volume V _{Fat} (bbls)* =	
0.20	
7.30 BARREIS	
Estimated Reported Volume** V _{rep} (bbls)= 8 Brekets.	
O BARRETS.	
*Notes: Valume 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 hox below:	
Write timer relevant times taken may consideration for establishing the spines in the rost octor.	
NIAT ADDITION	
NOT APPLICABL	_ (,
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume	estimation software on si
Conversion of m ^t to barrels is Volume (m3) x 6.29: **Round up estimated volume to next whole number using the f Any spill volume in excess of 1 hbl is rounded up to the next whole number.	onowing rates:
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 puragraph 6c (Deviations) of the JIV procedure	

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 186 1944 JIV report S/N: 00835

23. GENERAL STATUS OF THE SITE

_			·
ı	A.	Joint investigation of the incident site found that there is no residual	impact after the initial
ı			
ı		response and JIT therefore recommend that the site be closed out	1
ı			1
Н			
ı	В.	Investigation of the incident site showed that there is residual impact of	in site requiring further
ı			
ı		works 💆	
1			1
		works	-

24. REPRESENTATIVES

This report was filled, agreed and signed by	the following joint investigation represe	ntatīves
--	---	----------

- Host Community:
- Department of Petroleum Resources [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]: ☑
- Nigeria Police Force |NPF|:
- Shell Petroleum Development Company [SPDC]:
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings□

Tick as applicable

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1361944 JIV report \$100835

25. Appendix 1: Overview sketch of the site

