INCIDENT NO: 1474132 JIV report S/N: 1900358

(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: 1474132 2. Type of incident* OIL SPILL
3. Name of Location 20" OPUKUSHI - BRASS CREEK PIPELINE 4. Name of nearest community TAMOGBENE 5. State: BAYELSA 6. LGA EKEREMOR 7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF B. INCIDENT INFORMATION: NIGERIA LIMITED / PIPELINE 9. Details of incident
a. Date of incident: 29TH AUGUST, 2015
b. Start date/time of investigation: 6TH SEPTEMBER, 2015 AT 1515 HRS
c. Investigation End date: 6TH SEPT. 2015 Actual investigation duration, days: 0NE DAY d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil **⊠**Swampy ☐ Exposed pipe surface Under water □Well Platform (on Water DrillRig Additional observations around the spill point: ON EXCAVATION, A 4" FAILED ILLEGAL HOT TAP VALUE WAS OBSERVED WELDED ON THE 20" OPUKUSHI BRASS CREEK PIPELINE AT 12 O'CLOCK POSITION. THE LEAK WAS OBSERVED TO HAVE STOPPED AT THE TIME THE JIT GOT TO SITE e. Description of leak point (tick as applicable); Tear (Hack saw cut Drilled hole ☐ Inward dent. ☐ Well head tampering ☐Complete Rupture ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Third party tampering with Clamp ☑Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with flange, Bulging Outward ☐ Third party tampering with valve setting ☐ Surge vessel overflow, □Cold vent ☐Flare System/Bund wall failure Accidental 3rd party equipment impact Relief valve failure ☐ Valve Failure Others(specify) f. Incident caused by: ☑Third party interference (Sabotage□;crude theft☑; Line theft☐; Accidental 3rd party damage□) Others (including Mystery spills)_____ ☐ Operational

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

INCIDENT NO: 1474 | 32 JIV report S/N: No 0000358

g. Spill point coording h. Measuring unit	wg S	\$4 (D	ECIMAL	-DEG	REE)		
Northing:	Northing: (Latitude)			ECIMAL - DEGREE) Easting: (Longitude)			
04 5	BRG				A	7_	
4.937	-222		5,707	278			
C. RISK ASSESSMEN	ıτ						
10. Type of environr	nent:						
□Land	☑Swamp .	□Water	☐ Seasonal	swamp [Shoreline/V	Vaterfront	
i. Type of	environment to which	h oil has spread	:				
□Land	⊠ Swamp	□Water	□River	(identify)	<u> </u>		
ii. Weathe	r condition						
⊠Rain	□Sunny □	Dry Dw	et 🗆 Windy	□Hot	□cool		
11. Distance from th	e nearest sensitive ha	bitat					
☐ Government ☐ Drinking wa ☐ Built up are: ☐ Farmlands ☐ Fish Farm/P ☐ Fishing net ☐ Others (spec	a Pond	ated protected an	rea [[[[[m, [m, [m, [m, m], m]	NONE THE V	WITH	
12. Containment me	asures put in place;		•				
□Booms	□Tre	nch ⊠byke	Natural de	pression	□Pit	□None	
'Mothers: <u>C</u> 0	FFER-DAM						
13. Any pictures or	video coverage?		[W]	[N]			
14. Further respons	se/repair initiated as a	t the time of JIV	". [Y]	NOVÍ			
If yes to item 14, give brief	description: NO	T APPI	-ICABLE	<u> </u>			
15 Was there any d	isruption to the inves	tigation?	[Y]	NWT			

INCIDENT NO: 1474132 JIV report S/N:Nº 0000358

yes to item 15 give brief de	scription: NOT AF	· · · · · · · · · · · · · · · · · · ·	LE Pouron	
. TYPE/NUMBERS OF I	PROPERTIES, IF ANY, FOUN			•
/N Type of Structures	Description Size	Number	Comments	-
NONE	WITHNA	REA C	OF IMPACT	
17. Crops/Economic Tre				- -
/N Type of crops You	ing Medium	Matured	Quantity Comments	┪
NONE	WITHWA	REA 0	IMPACT	
18. Fishing Nets/Fish Po	onds Description	Quantity/Size	Comments	- -
/N Nets/Ponds	Description	Quantitione		
NONE	WITHINA	REA O	FIMPACT	
19. Others (Specify) i.e.		Quantity/Size	Comments	_
/N Others	Description	Quantity/size	Comments	
NONE	WITHN	YREA-C	F IMPACT	-
GRAPHIC DESCRIPTION	ON OF LEAK POINT (while	detail report of the	e leak point should be contained in	ī
he leak report, overview sket 4L" FAILED LLEG	tch of the site should be added as Al Hot-TAO	s an appenaix 1)	\	
VALUE WELDED			{	
POSITION	12 0 0000		•	
1921,01014		1 1.		
•				
	4	/		
		M		
		,		١
$\overline{}$			×)
() FR	zom opukusti -	TO BRASS	CREEK	2
20" Opuku			E AT TAMOGRENE	/

INCIDENT NO: 1474132 JIV report S/N: 1000358

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

20.	Impacted area boundary Coordinates (If ma	ore, Print and attach as an appendix) 84 (DECIMAL DEGREE)
S/N	Northing VO 93	Easting Easting
1.	4.93725°	5,707333
2.	4.937139°	5.707361
3.	4.937111°	5.707417°
4.	4.937 132	5,70717°
5	4.937194	5.706861°
6.	4.937222°	5.706945°
<u>Z</u>	4,937237	5.70724
8.	4.937237	5,707296
		06/09/2015
_		. 20172013
		<u> </u>
		

Nº 9000358

INCIDENT NO: 1474132 JIV report S/N:

G. INCIDENT INFORMATION:
a. Impacted Area Details .
• Total calculated area of impact 6. 05 Ha.
Impact within R.O.W YES
Impact outside R.O.W
b. Volume of oil recovered before completion of JIV (V _{reeJ}): Recovered oil V _{reeJ} : A 1 1 Barrels
Controlled recovery/evacuation from source with no impact to environment:
N/L Barrels
- Net Estimated Califold Materials / /hklaste -
c. Net Estimated Spilled VolumeV _{Est} (hbls)* =
2.94 BBLS
Estimated Reported Volume** V _{rep} (bbls)= 3 BBLS
*Notes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an extimate
Write other relevant notes taken into consideration for estimating the spilled in the box below:
NOT APPLICABLE
INOI MILLONDEL

Calculation of the respective estimated volume is to be done on site as for as practicable using the new spill volume estimation software on site; Conversion of m⁴ to barrels is Volume (m3) x 6.29; **Round up estimated volume in 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 I bbl is rounded up to the next 0.1 bbf.

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 to (Deviations) of the IIV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the IIV report.

INCIDENT NO: 1474132 JIV report S/N: Nº 3000358

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:

- 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

INCIDENT NO: 1474132 JIV report S/N: 10000358

f. Appendix 1: Overview sketch of the site

