INCIDENT NO: 1780924 JIV report S/N: Nº 0000225 (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: 1780924 2. Type of incident\* OIL SPILL 3. Name of Location 6" IMO RIVER WELL 59 T FLOWLINE 4. Name of nearest community OWAZA 5. State: ABIA 6. LGA UKWA WEST 7. Type of Production facility/Installation FLOWLINE 8. Asset owner/District THE SHELL PETROLEUM DEVEPMENT COMPANY OF NIGERIA L'TD (SPOC)/LAND 1 B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 6TH JANUARY 2017 b. Start date/time of investigation: 12 TH JANUARY 2017/1040ARS c. Investigation End date: 12TH JANUARY 2017 Actual investigation duration, days: ONE (1)DAY d. Description of spill point environment Recently excavated area Loose soil Firm soil Under water ☐Swampy Exposed pipe surface ☐Well Platform (on Water ☐ DrillRig Additional observations around the spill point: APPLICABLE e. Description of leak point (tick as applicable); Tear ( Drilled hole ☐ Hack saw cut ☐Complete Rupture Inward dent. ☐ Well head tampering ☐ Failed Clamp, Failed Weld-on illegal hot tap valve ☐ Missing Pipeline/Flowline

☐ Saver-pit over flow

Relief valve failure

☐ Bulging Outward

Cold vent

☐ Third party tampering with Clamp

☐ Third party tampering with flange,

Accidental 3<sup>rd</sup> party equipment impact

☐ Surge vessel overflow,

Crude oil theft (illegal bunkering) point,

☐ Third party tampering with valve setting

☐Flare System/Bund wall failure

☐ Valve Failure

☐Others(specify)

f. Incident caused by:

Third party interference (Sabotage□; crude theft□; Line theft□; Accidental 3<sup>rd</sup> party damage□)
□Operational □Others (including Mystery spills)

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction c) Encroachment f) Fire.

INCIDENT NO: 178092 4 JIV report S/N: g. Spill point coordinates Was 84 h. Measuring unit Eastinge Northing: LONGITUBE ATITULE -2-0013 99020 C. RISK ASSESSMENT 10. Type of environment: Land ☐ Water ☐Shoreline/Waterfront ☐ Seasonal swamp ☐ Swamp i. Type of environment to which oil has spread: **Alland** ☐River (identify) Swamp ■Water ii. Weather condition Sunny Dry □Windy □Hot Cool □Wet □Rain 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area N/L,m] NIL ,m] Drinking water source MIL ,m] . Duilt up area >50 m] Farmlands NIL ,m] ☐ Fish Farm/Pond N/L,m] □ Fishing net □ Others (specify). 12. Containment measures put in place; Dyke Natural depression □Pit None ☐ Booms Trench

SECTIONAL REPLACEMENT

15. Was there any disruption to the investigation?

14. Further response/repair initiated as at the time of JIV?

Others:

13. Any pictures or video coverage?

[Y] (N)

(N)

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If yes to item 15 give brief description:  APPLICABLE						
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL  16. Structures / Properties						
S/N Type of Structures Description Size Number Comments						
NONE WITHIN AREA OF IMPACT						
17. Crops/Economic Trees  S/N Type of crops Young Medium Matured Quantity Comments						
S/N Type of crops Young Medium Matured Quantity Comments						
NONE WITHIN AREA OF IMPACT						
18. Fishing Nets/Fish Ponds						
S/N Nets/Ponds Description Quantity/Size Comments						
NONE INTHIN AREA OF IMPACT						
19. Others (Specify) i.e. Animal Traps						
S/N Others Description Quantity/Size Comments						
NONE WITHIN AREA OF IMPACT						
· · · · · · · · · · · · · · · · · · ·	10					
RIVER WEGT FLOWLINE AT OWAZA SHOWING LOCALLY						
FABRICATED CLAM AND A 1" VALVE INSTALLED AT 12 O'CLOC	K					
POSITION BY UNKNOWN PERSON.						
LOCAL CLAMP						
120'CLOCK POSITION						
6"						

FROM INDRIVERWS9T TO FLOWSTATION

INCIDENT NO: 1780924 JIV report S/N: Nº 0000225

#### 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)

	N Northing LATITINE Easting LANGITINE						
S/N	<u> </u>	-Easting LONGITUDE					
1-	4.99021	7.20013					
ე.	4.99021	7.20012					
3.	4.99018	7.20014					
4.	4.99020	7.20015					
5.	4.99020	7.20012					
	•						
		./					
		·					
	-						
	<del>                                     </del>						

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#### **G. INCIDENT INFORMATION:**

2,	[mp:	acted	Area	Details
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•	Total calculated area of i	impact_0.006	stta	
•	Impact within R.O.W	765		
•	Impact outside R.O.W _	NO		-
b. <u>Volume</u>	of oil recovered before	completion of JIV (V <sub>rec</sub>	:a):	<u> </u>
		Recovered oil V <sub>ree</sub> :	0.4	Barreis
Controlled	l recovery/evacuation fro	m source with no impact	to environment:	

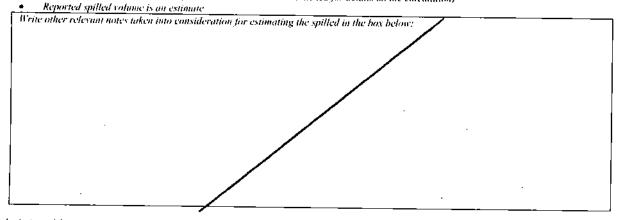
Barrels

Net Estimated Spilled VolumeV<sub>Est</sub>(bbls)\* = 1.9 BARRELS Estimated Reported Volume\*\* Vrep(bbls)=

\*Notes:

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

NIL



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:

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

Any spill volume in tess than - 4 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 be (Deviations) of the AV procedure to use appropriate steps for volume estimation, record the calculation in a plant sheet of paper and attach to the AV report.

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d	General	Status	of the	cita
u.	UCHCIAL	SIZIUS	un luc	SHE

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. Representativeș

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]: □
- Signatories agree with reported findings
- Separate DPR form has been filled out with same findings

Tick as applicable

INCIDENT NO: 1780924 JIV report S/N:

Nº 0000225

f. Appendix 1: Overview sketch of the site

Location : 6"	IMD RIVER	MELL	59T	FLOWLINE	AT (	DWAZA
	8	~		~		~
<del></del>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		Pe	THEFT	· ·	~
6" IMOR	IVER WEST FOWAZA	LOWLINE	8	EXTE		f
	$\gamma$	~		$\rightarrow$	,	