JIV report S/N: 0942

INCIDENT NO: 194399 O

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: I. Spill incident Number: 194399 O 2. Type of incident* OIL SPILL 3. Name of Location 18" ASSA - RUMHEKPE (TRUNKLINE) PIPELINE 4. Name of nearest community AWARA 5. State: MO 7. Type of Production facility/Installation OU PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 6 TH OCTOBER 2017 b. Start date/time of investigation: 24TH OCTOBER 2017 c. Investigation End date: 25TH OCT 201 Actual investigation duration, days: TWV DATS d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil Under water □Swampy Exposed pipe surface Well Platform (on Water) □Drill Rig Additional observations around the spill point: THE JOINT INVESTIGATION SAND BAGS USED TO CONCERT THE ILLEGAL THEFT POINT POSITION CLOSE TO TWO (2) INITIALLY CLAMPED DOINTS. e. Description of leak point (tick as applicable); Drilled hole ☐Hack saw cut Tear (☐Complete Rupture ☐ Inward dent, ☐ Well head tampering Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline Scrude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Third party tampering with valve setting ☐ Bulging Outward ☐ Third party tampering with flange, ☐ Flare System/Bund wall failure Cold vent ☐ Surge vessel overflow, ☐ Valve Failure Relief valve failure Accidental 3rd party equipment impact Corrosion Others(specify)_ f. Incident caused by: □Third party interference (Sabotage□; crude theft□; Accidental 3rd party damage□) ☐Operational Others(specify) ☐ Mystery spills

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

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INCID	ENT NO: 19	14-3990	JIV re	port S/N:	0942) -
g. Spill point coordin	ates					
h. Measuring unit		WGS 8	4			
Northing:	1 1		Easting:			
-	LATTUE	<u>を</u>	•	المن المرات	<i>ФЕ</i>	
	· 5·289	577		5.7806	57	
				1 47	_	
<u> </u>		2			R	
C. RISK ASSESSMEN	NT			, , , , , , , , , , , , , , , , , , ,		
10. Type of environ						
☐ Land	□ Swamp	□Water	☐ Seasona	I swamp	Shoreline/W	aterfront
i. Type o	of environment to v	which oil has spread	d :			
Land	☐ Swamp	□Water	□River (ic	lentify)		
ii. Weathe	er condition					
Rain	Sunny	□Dry □we	et" 🗆 Windy	□ 1iot	□ cool	
11. Distance from th	ne nearest sensitive	habitat				
☐ Governmen ☐ Drinking w ☐ Built up are ☐ Farmlands ☐ Fish Farm/ ☐ Fishing net ☐ Others (spe	ater source ea pond	ignated protected ar	ea [[[[[[[[[[[[[[[[[[[,m] [ONES NITHI VICINI	
12. Containment me	easures put in place	D:		-	•	
Booms		Trench Dyke	e Natural	depression	₽it	□None
Others:	· · · · · · · · · · · · · · · · · · ·					
13. Any pictures or	video coverage?		[X]	[N]		
14. Further response	e/repair initiated as	at the time of JIV?	[Y]/	[N]		
if yes to item 14. give brie	of description:					
REPAIR WCA	-	AMPING -	AND OIL	SPILL 1	RECOVE	ERY
WORK ONG						
15. Was there any dis	-	tigation?	[Y]	[N]	•	

If yes to item 15 give brief description:	
if yes to item 15 give oner description:	
NOT 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	
YONE WITHIN ARKA OF IMPACT	
17. Crops/Economic Trees	
/N Type of crops Young Medium Matured Quantity Comments	
JONE WITHIN AREA OF IMPACT	
18. Fishing Nets/Fish Ponds /N Nets/Ponds Description Quantity/Size Comments	
A A C A C A C A C A C A C A C A C A C A	
JONE MITHU AKEA OF IMPACT	
19. Others (Specify) i.e. Animal Traps //N Others Description Quantity/Size Comments	
/N Others Description Quantity/Size Comments	
MONE WITHIN AKEN OF IMPACT	
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 I)	
NAL VIEW OF 18" ASSA - RUMNEKPE TRUNKLINE PIPELINE	AT
AWARA SHOWING FAILED 2" WEGAL THEFT PEINT INSTALLED	
AT 12 O CLOCK PESITION.	
TWO (2) INITIALLY CLAMPED POINTS	·
2" NIPPLE 1 FAILED 2" BALL VAIVE	
2 NIFFLE / INSTALLED AT 12 O CLOCK	-
POSITION	
	3" '1∟
ASSA - RUMUE KPE PIPELINE	

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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)

	WG 6 84	
S/N	Northing LATTUDE	Easting LONGITADE
	5.28578	6.78064
	5.28568	6 78065
	5.28564	6.78068
	5.28572	6.7807
	5.28576	6.7807
	5 28577	6.78067
	5.28577	6 . 78067
	5.28571	6 78067
	5. 28571.	<u> </u>
	5, 28571	6.78068
	5.28571	6 78067
	5 · 28571 5 · 28569	6.78068
	5 · 28569	6.78067

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 0.0068Ha.	
Impact within R.O.WYES	-
Impact outside R.O.W	_
b. Volume of oil recovered before completion of JIV (Vrec.):	 ,
Recovered oil V _{recJ} :	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
NIL Barreis	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
12.33 BARRELS	
<u> </u>	
Estimated Reported Volume** Vren(bbls)= 13 BARRELS	
Notes: Volume 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 box below:	
NOT APPLICABL	E
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estim Conversion of m ⁵ to barrels is Volume:(m3) x 6.29: **Round up estimated volume to next whole number using the follow. • Any spill volume in excess of 1 bbl is rounded up to the next whole number:	ution software on site: ing rules:
 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 volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.	se appropriate steps for .

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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:

- Host Community:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]: S
- Asset Owner:

 ☐
- Signatories 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

