JIV report S/N:

Nº 0000304

INCIDENT NO: 1760992

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 2.Type of incident*_OIL SPILL 1. Spill incident Number: 1760992 YOKRI WELL-127T GAS LIFT LINE 5. State: DELTA 6. LGA BURUTU 4. Name of nearest community YOKR1 7: Type of Production facility/Installation GAS LINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED/SWAMP WEST 9. Details of incident Details of incident 15TDECEMBER 2016 b. Start date/time of investigation: 21ST DECEMBER, 2016 AT 1245+RS c. Investigation End date: 21 TDECEMBER, 2016 Actual investigation duration, days: ONE DAY d. Description of spill point environment Recently excavated area Loose soil ☐Firm soil Exposed pipe surface □Swampy . ☐Under water ☐ Well Platform (on Water DrillRig Additional observations around the spill point: ON ASSESSMENT JOINT INVESTIGATION TEAM OBSERVED THAT THE 2" BALL VALUE ON YOKKI WELL-127T GAS LIFT LINE WAS REMOVED BY UNKNOWN PERSONS. THE TWO OPEN GAS LINE WERE OBSERVED TO HAVE BEEN BLIND FLANGED e. Description of leak point (tick as applicable); ☐Hack saw cut ☐ Tear (Drilled hole ☐ Inward dent, ☐ Well head tampering Complete Rupture ☐ Missing Pipeline/Flowline ☐ Failed Clamp, Failed Weld-on illegal hot tap valve ☐ Third party tampering with Clamp ☐ Saver-pit over flow ☐ Crude oil theft (illegal bunkering) point, ☐ 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 Wothers(specify) THEFT OF 2" BALL VALVE f. Incident caused by: ☐Third party interference (Sabotage ☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐) ☐ Operational Others (including Mystery spills)

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

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g. Spill point coordinates W95 84 h. Measuring unit Easting: Northing: C. RISK ASSESSMENT 10. Type of environment: **∑**Swamp Land □Water ☐ Shoreline/Waterfront ☐ Seasonal swamp Type of environment to which oil has spread: Land ☐ Swamp □Water ☐River (identify) Weather condition Sunny □Rain □Wet ☐ Hot Dry **□**Windy 11. Distance from the nearest sensitive habitat Government reserved and designated protected area ,m) □ Drinking water source ,m] Built up area m, NONE WITHIN □ Farmlands Fish Farm/Pond THE VICINITY ☐ Fishing net ☐ Others (specify). 12. Containment measures put in place; **□**Booms None Dyke ☐ Pit Trench Natural depression Others: INI INI 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description: 15. Was there any disruption to the investigation? [Y]

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If yes to item 15 give brief des	scription: NOT AP	PLICAB	LE
			:
D. TYPE/NUMBERS OF F		D WITHIN THE	E AREA OF SPREAD OF OIL
S/N Type of Structures	Description Size	Number	Comments
NONE	ATHIN A	REA	OF IMPACT
17. Crops/Economic Tre		Maturad	Onartitu Comments
S/N Type of crops You	ng Meatum	Matured	Quantity Comments
MONE	WITHIN AR	CA- (A IMPACT
18. Fishing Nets/Fish Po S/N Nets/Ponds	nds Description	Quantity/Size	Comments
NONE	WITHIN	TREA	OF IMPACT
19. Others (Specify) i.e. S/N Others	Animal Traps Description	Quantity/Size	Comments
NONE	WITHIN	AREA	OF IMPACT
the leak report, overview skete SECTION OF 21 Y	ch of the site should be added as	an appendix 1) TEAS LI	he leak point should be contained in FT LINE +FT YOKK!
SHOWING! POSITIO	N OF STOLEN 2"	BALL VALU	<u>(E ·</u>
	POSITION OF STOLE 2" BALL VALUE	FN	•
		, ->	
	K		•

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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 anach as an appendix)

		47 704
S/N	Northing	Easting
	5.45804	5.2255
	5·45 804 5·45 805	5·22558 5·22555 5·22549
	5.45 79 1	5.22 555
	5.45794	5.22 5110
	3.73 1.14	322347
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. INCIDENT INFORMATION:	
a. Impacted Area Details	•
Total calculated area of impact Impact within R.O.W Impact outside R.O.W NO b. Volume of oil recovered before completion of JIV (V _{rec.J}): Recovered oil V _{rec.J} :	Barrels
Controlled recovery/evacuation from source with no impact to environment: Barrels Barrels	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* = 0.55 BBLS Estimated Reported Volume** V _{rep} (bbls)= 1 BBLS	
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: ACOT APPLICABLE	

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 less than I bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15,3 bbt ------ 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 6c (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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_	C	C1 - 4 -	. 6'41	٠.
a.	General	Status	or the	site

i,	Joint investigation of the incident site found that there is no residual impact after the initial response a therefore recommend that the site be closed out	and JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	

e. Répresentatives

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]: D
- 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

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f. Appendix 1: Overview sketch of the site

