INCIDENT NO: 2809510 JIV report S/N: (Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Fountain Incident Number: 2. Type of incident\* ()/L SPILL NKPOKU - OGALE PIPELING 4. Name of nearest community AGBONCHIA 5. State: RIVERS 6. LGA ELEME 7. Production Facility/Installation ERUDE OIL PIPELINE 8. Asset Owner/Hublite SHELL PETROLEUM DEVELOPMENT COMPANY NIGGELA LIMITED / PIPELINE 9. Details of incident DECEMBER, 2020 a. Date Reported: 714 DECEMBER, 2020/1240HRS b. Start date/time of Investigation: DECEMBER, 2020 Day(s) on site: ONE DAY. d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area Under water ☐ Swampy Exposed pipe surface ☐ Well Platform (on water) Drill Rig Li Sand bag(s) Additional observations around the spill point: AN EXCAVATION OF ABOUT 37-1 METERS LONG WITH DE-CONTED PIPELING WAS OBSERVED. e. Description of leak point (tick as applicable); Smooth round-edge hole (DRILLED) ☐Rough-edge hole ☐ Hack saw cut Complete Rupture Inward dent, ☐ Well head tampering Failed Weld-on illegal hot tap valve ☐ Failed Clamp. ☐ Missing Pipeline/Flowline Crude 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 ☐ Tear ( Others (specify) f. Incident caused by:

\*This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

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Third party interference (Sabotage ☑; crude theft □; Line theft □; Accidental 3rd party damage □)

Others (including Mystery spills)

☐ Operational

INCIDENT NO: 2809510 JIV report S/N: g. Spill Point Coordinates (\*Incidents ≤100m apart to be aggregated into one Joint Investigation Report) h. Measuring unit 16,5 Northing: Easting: C. RISK ASSES 10. Details of Environment Type of environment where spill occurred (select one): i. Land □ Swamp □ Water Seasonal swamp Shoreline/Waterfront Type of environment to which oil has spread: ii. Land □Swamp. ☐Waterbody (specify)\_ iii. Weather condition **Z**Dry □Wet □ Windy □Hot 11. Distance to Sensitive habitat within 100m radius Government reserved and designated protected area MOME SEEM ☐ Drinking water source ☐Surface water Borehole ☐ Built up Area ☐Residential Area ☐Commercial/Industrial Area □ Farmlands ,m] ☐ Fish Farm/Pond ,m Fishing net m, □ Others (specify) 12. Containment measures put in place: ☐Booms ☐Trench ☐ Dyke ☐ Pit ☐Natural depression ☐None DOTHERS: MOT APPLICABLE 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:

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ACTIVITIES

INCIDENT NO: 2809510 JI	V report S/N:
15. Was there any disruption to the investigation? [Y	
If yes to item 15 give brief description:	
MOT APPLICABLE  16. Was JIV delayed? [Y] [NY	
Reason(s):  Delayed Community Access Approval  Others (specify)  APPLICABLE	Access constraint due to terrain
<ul><li>D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITH</li><li>17. Structures / Properties</li></ul>	HIN THE AREA OF SPREAD OF OIL
S/N Type of Structures Description Size Number	Comments
AIGHE WITHIN AREA OF	IMPRIT
18. Crops/Economic Trees	1) 9/10/
S/N Type of crops Young Medium Matured	Quantity Comments
MANYE MILLIAM AKENT OF	111/1-0
19. Fish/Nets/Ponds  S/N Fish/Nets/Ponds  Description  Quantity/S	
Description Quantity/S	ize Comments
NONE WITHIN AREA OF	IMPH CT
20. Others (Specify) e.g. Animal Traps  S/N Others Description Quantity/S	
S/N Others Description Quantity/S	ize Comments
NONE KIMMA AREA OF	MACT
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description the leak report, overview sketch of the site should be added as appendix 1	tion of the leak point should be contained
in the leak report, overview sketch of the site should be added as appendix 1-TIDM OF 36" MISPOKU — OGALE PIPFLIM TWING H NOS OF IPULLED HOLES	IE AT AGBONCHIA
THE OF DESCRIPTION R	34 Uniknown pErsons
IM DRILLED SMM DRILLED HOLES	RILLED
LE (LEAK POINT) HOLEAT POINT	DAT SMM BRILLED
10 o'chock 2 o'chok positions 10'cd	oce hole (lease.
	SSION POINT)
	PasiTion PasiTion
11.78M 35-54M	2.63M
FROM MKPOKUTO DGALE	3
Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (St Blue (Host Community)  Page 3 of 8	Version 2020/01 ate Ministry of Environment):

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

21. Impacted area boundary Coordinates (If more, Print and attach as Appendix)

S/N	Northing	Easting
889	4.82945	7.13680
890	4.82546	7.13621
891	4.82556	7.13665
892	4.82560	7.13661
893	4.82562	7.13658
874	4 82564 4.82562	7.13659
875	4.82562	7.13661
896	4.82558	7. /3667
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	<i>y</i>	

INCIDENT NO: 2809510 JIV report S/N: 0733
G. INCIDENT INFORMATION:
a. Impacted Area Details *
Total calculated area of impact (Ha) O O HA
Impact within SPDC R.O.W
Impact outside SPDC R.O.W
* Round off to 2 decimal places if area is $\geq$ 100 m <sup>2</sup> or to 4 decimal places if area is $<$ 100 m <sup>2</sup> (e.g. 14.55, 0.0051, 0.0009) * Express in Hectares (Ha)
b. Volume of oil recovered before completion of JIV (Vrec.J):
Recovered oil V <sub>rect</sub> : M/L Barrels
Controlled recovery/evacuation from source with no impact to environment:
c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 0.93BARREL$ ,  Estimated Reported Volume** $V_{rep}(bbls) = 0.00$
*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 volume estimation or cause of spill:  MOT 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 m³ 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 1 bbl is rounded up to the next 0.1 bbl.  Examples: Calculated volume = 15.3 bbl

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<ul> <li>d. General Status o</li> </ul>	f the	site
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i,	Joint investigation of the incident site found that there is no residual impact after the initial response 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	<u>u</u>

#### 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]:
- The Shell Petroleum Development Company [SPDC]:
- Separate DPR form has been filled out with same findings □
- Separate NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

Tick as applicable

E. 20

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f. Appendix 1: Overview sketch of the site

06111 100 000
Location: 36" NKPOKU - DGALE PIPELINE AT AGBONEHIA
$\mathbf{N}$
36" MKPOIGH - OGALE PIPELIME
SPILL POINT?  SPILL POINT?  SPILL POINT?  SPILL POINT?
G S GHT BUSH -
SPILL POINT, V SUS H
Point
Pola Pro
SPILL POINT 2 SOUTH OF THE
No. of the second secon
EXTENT OF IMPACIENT SPILL POINT W SPILL POINT W
EXTENT OF
INTRACT IMPACIED - SPILL
ARE CO
- LIENT
LIETHT BUSH EVENT
Impact
Space
SPDC PIPELINE RIGHT OF WAY
KIGHT OF 1.18
1 WAY