INCIDENT NO: 3023982 JIV report S/N:0000923

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

A. GENERAL INFORMATION:			
. Fountain Incident Number: 3023982	2. Type of incident	* OIL SPILL	
Name of Location 16" NUN RIVER.	- KOLOCREEK	PIPELINE	
. Name of nearest community AGUOBIRI	5. State: BAYELSA 6.	LGA SENTHERN-1JAN	
7. Production Facility/Installation OIL Pipe	LINE		- + . l. l. c. l
Asset Owner/Hub TITE SHELL PET LINITED (SPDC) / G. INCIDENT INFORMATION:	ROLEYM DEVE PIPELINE	LOPMENT COMPANY	OF MIGEN
b. Start date/time of Investigation: 7 TH SEPTEMBER  c. Investigation End date: 7 TH SEPTEMBER	EMBER, 2021 /120	OHRS ite: DNE (1) DAT	
d. Description of spill point environment			
Firm soil Loose so	oil 🔽	Recently excavated area	
☐ Under water ☐ Swampy ☐ Well Platform (on water) ☐ Drill Ri	,	Exposed pipe surface Sand bag(s)	
e. Description of leak point (tick as applicable);  Smooth round-edge hole  Complete Rupture  railed Weld-on illegal hot tap valve  Crude oil theft (illegal bunkering) point,  Third party tampering with valve setting  Flare System/Bund wall failure  Valve Failure  Tear (	Rough-edge hole Inward dent, Failed Clamp, Saver-pit over flow Bulging Outward Cold vent Relief valve failure	Hack saw cut Well head tampering Missing Pipeline/Flowline Third party tampering with Third party tampering with Surge vessel overflow, Accidental 3rd party equipment	flange,
Others (specify)	/		
f. Incident caused by:  ☐ Third party interference (Sabotage ☐; crude ☐ Others (including ☐ Others (including ☐ Others)	e theft ⊠; Line theft □; Acc Mystery spills)	idental 3 <sup>rd</sup> party damage □)	

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Blue (Host Community)

<sup>\*</sup>This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal Version 2020/01

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	Northing: Easting:
	4.824192 6.147686
RISK	ASSESSMENT
10. I	Details of Environment
i.	Type of environment where spill occurred (select one):
	Land Swamp Swamp Shoreline/Waterfront
ii.	Type of environment to which oil has spread:
	Land Swamp Waterbody (specify)
iii.	Weather condition
	□Dry □Wet □Windy □Hot
11. I	Distance to Sensitive habitat within 100m radius
	☐ Government reserved and designated protected area ☐ Drinking water source ☐ Drinking water source ☐ Drinking water source
	□ Surface water □ Borehole □ Built up Area □ Commercial/Industrial Area □ Commercial/Industrial Area
	Farmlands [MACCOM]
	☐ Fish Farm/Pond ☐ Fishing net  [NIL,m] [NIL,m]
	Others (specify) [MIL, m]
12. (	Containment measures put in place:
	Booms Trench Dyke Pit Natural depression Mone
	Others:
13. 4	Any pictures or video coverage? [V] [N]
14.	Further response/repair initiated as at the time of JIV? [Y]
s to it	em 14, give brief description:
	IDT APPLICABLE

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15. Was there any disruption to the investigation? [Y] [Y]  If yes to item 15 give brief description:
NOT APPLICABLE
Reason(s):  Delayed Community Access Approval  Others (specify)  Not Applicable  Others (specify)
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL  17. Structures / Properties
S/N Type of Structures Description Size Number Comments  ONE HIN AREA OF MACI
18. Crops/Economic Trees  S/N Type of crops Young Medium Matured Quantity Comments  1. CASSAVA FEW FEW MANY MANY IMPACIED BY SPIL  2. PLANIAIN 4NOS NIL NIL 4NOS IMPACIED BY SPIL  2. PLANIAIN 4NOS NIL NIL 4NOS IMPACIED BY SPIL
19. Fish/Nets/Ponds  S/N Fish/Nets/Ponds  Description  Quantity/Size Comments  A T A M A T A
20. Others (Specify) e.g. Animal Traps  S/N Others Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1) A SECTION OF 16"NYN RISEL KOLLCREEK-PICLIME AT ACHOBIRI SHOWING A 2" NIPPLE INSTALLED AT 12 NICLOCK POLITION DENE BY UNKNOWN PERSONS.
12 O'CLOCK PESTION BENE BY CONCENT TERSONS  LEAK POINT  3"NIPPLE INSTALLED  AT 12 O'CLOCK POSITION.

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FROM NUN RWER - KOLOCKEEK PIPELINE

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

7	Northing	Easting
, y ·	4.824692	6.149248
N E	4.824842	6.149316
	4.825017	6.149261
	4.824736	6.149068
	4.824653	6.148886
	4.824533	6.148387
	4.824387	6.147959
	4.824290	6.147699
	4.824316	6.147493
	4.824602	6.147537
	4.62458	6.147484
	4.824393	6.147474
	4.824252	6. 147466
	4.824096	6.14+132
1 (3	4.824016	6.147298
	4.824171	6.147777
	4. 624304	6.14.7894
	4.824398	6.148152
	4.82446	6.148314
	H. 874319	6.148561
	4. 824606	6.148700

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	MCIDENIT	TRITTODALLONGO
v.	INCIDENT	INFORMATION:

a.	Impacted	Area	Details *	•
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Volume of oil	recovered	before com	pletion o	f.HV (	V 1):
	Volume of oil	Volume of oil recovered	Volume of oil recovered before com-	Volume of oil recovered before completion of	Volume of oil recovered before completion of JIV (

Recovered oil V<sub>recJ</sub>: NIL Barrels

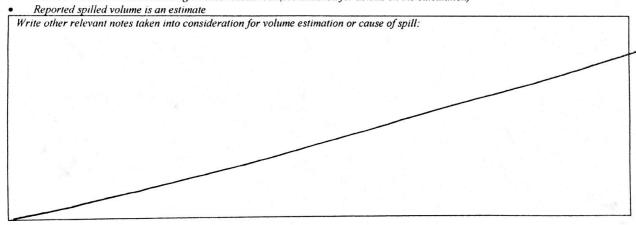
Controlled recovery/evacuation from source with no impact to environment:

MIL Barrels

c. Net Estimated Spilled Volume VE	$E_{st}(bbls)^* =$	120.84	BARRELS	and the second of the second o
Estimated Reported Volume** V <sub>rep</sub> (bbls)=		BARRELS		e and a policina restriction for the second

\*Notes:

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



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  $m^3$  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 ------ 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 column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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<sup>\*</sup> Round off to 2 decimal places if area is  $\geq$  100 m² or to 4 decimal places if area is  $\leq$  100 m² (e.g. 14.55, 0.0051, 0.0009)

<sup>\*</sup> Express in Hectares (Ha)

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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 <u>filled</u>, <u>agreed</u> and <u>signed</u> 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  $\Box$
- Separate NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site

