INCIDENT NO: 2814845 JIV report S/N: 0597

(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: 2814845 2. Type of incident. OIL SPILL 3. Name of Location 14" OKORDIA - RUMUEKPE PIPELINE 4. Name of nearest community FOEOHA 5. State: RIVERS 6. LGA AHEADA-EAST 7. Production Facility/Installation OIL PIPELING 8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY
B. INCIDENT INFORMATION:

OF NIGERIA LIMITED (SPOY) / PIPELINE 9. Details of incident a. Date Reported: 22NO DECEMBER, 2020 b. Start date/time of Investigation: 22ND DECEMBER, 2020/1545HRS c. Investigation End date: 22ND DECEMBER 2020 Day(s) on site: ONE (1) DAY d. Description of spill point environment Recently excavated area Loose soil Firm soil **□**Swampy Exposed pipe surface Under water Sand bag(s) Drill Rig ☐ Well Platform (on water) Additional observations around the spill point: APPIICABLE e. Description of leak point (tick as applicable); Rough-edge hole ☐ Hack saw cut ☐Smooth round-edge hole ☐ Well head tampering ☐ Inward dent, Complete Rupture ☐ Missing Pipeline/Flowline ☐ Failed Clamp, Pailed Weld-on illegal hot tap valve ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with flange, ☐ Third party tampering with valve setting ☐ Bulging Outward ☐ Surge vessel overflow, □Cold vent ☐ Flare System/Bund wall failure Accidental 3rd party equipment impact ☐ Relief valve failure ☐ Valve Failure ☐ Tear (Others (specify) f. Incident caused by: Third party interference (Sabotage : crude theft ; Line theft : Accidental 3rd party damage :)

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Others (including Mystery spills)

Operational

^{*}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 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

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RISK ASS	ESSMENT					
	s of Environ	ment				
	.	ant whomas	mill occurred (se	elect one):		
i. Ty	pe of enviro	nment where s	spill occurred (se	siect one).	8 2 7 2 X 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	. W 1
. ₩L	and	Swamp	□Water	☐ Seasonal s	wamp [Shoreline/Waterfront
ii. Ty	ne of enviro	nment to which	ch oil has spread			
ii. 13	pe of chivine	Annient to wind				
- La	ınd	Swamp	☐Waterbody	(specify)		
ii. W	eather condi	tion				
	14.7	□Wet	☐ Windy	□Hot		
₩ D	•					
11. Distan	ce to Sensiti	ve habitat with	nin 100m radius			
□ G	overnment re	served and desi	gnated protected a	area [,m] — ,m]) NONE SE
□ D	rinking water		rehole	, <u>L</u>	,,	1
□В	uilt up Area		mmercial/Industrial	A ran	,m]	NONE SEI WITHIN YILINITY
n F	☐Residentia armlands	al Area Li Coi	mmerciai/industriai	[,m]	VILINE
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	thers (specify		8 S S		<i>y</i>	
		es put in place:		A second		
□во	oms Tren	nch Dyke	☐ Pit ☐ Natu	ral depression	None	
2 8		2 19			12 2	
					INI	
3. Any pict	ures or video	coverage?		[4]	[14]	
l. Further	response/rep	air initiated as a	at the time of JIV	? [14]	[N]	
		ACTION OF THE PROPERTY OF THE				

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15. Was there any disruption to the investigation? [Y]
If yes to item 15 give brief description:
NOT APPLICABLE
16. Was JIV delayed? [Y]
Reason(s): Delayed Community Access Approval Security Challenges Access constraint due to terrain Others (specify) NOT APPLICABLE
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
NONE WITHIN AREA OF IMPACT
18. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments
NONE WITHIN AREA OF IMPACT
19. Fish/Nets/Ponds S/N Fish/Nets/Ponds Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
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 14" TKORD HUMLERPE POELING AT FORTH SOUNDY A 3" NITE WITH AT FORTH SOUNDY A 3" NITE WITH
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14° <u>√</u>)
FROM OKORDIA-RUMUCKEE PUPELWO

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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	LATITUDE	Easting	LONGITUDE
		5-02361	, , ,	6.62250
		5-02363		6-62247
		5.02360		6.62245
		5.02360 5.02359		6.62248
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			4	
	//			

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Impacted Area Details *		
Total calculated area of impact (Ha)	0.002Ha	
Impact within SPDC R.O.W	YES	
Impact outside SPDC R.O.W	No	
and off to 2 decimal places if area is $\geq 100~\text{m}^2$ or to 4 decimal places in Hectares (Ha)	es if area is $\leq 100~\text{m}^2$ (e.g	. 14.55, 0.0051, 0.0009)
Volume of oil recovered before completion of JIV	(V.,):	
Recovered oil V		Barrels
Controlled recovery/evacuation from source with no i		
	in page to city it official	• •
NIL Barrels		
c. Net Estimated Spilled Volume V _{Est} (bbls)* = 1.	31 BARRELS	
Barrels 2. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 1$. timated Reported Volume** $V_{rep}(bbls)^* = 2BARR$	31 BARRELS ELS for details on the calculation	
E. Net Estimated Spilled Volume V _{Eu} (bbls)* = 1. timated Reported Volume** V _{rep} (bbls)= 2 BARR es: Volume estimation was done using an excel based tool (see attached Reported spilled volume is an estimate	31 BARRELS ELS for details on the calculation	
E. Net Estimated Spilled Volume V _{Est} (bbls)* = 1. timated Reported Volume** V _{rep} (bbls)= 2 BARR es: Volume estimation was done using an excel based tool (see attached Reported spilled volume is an estimate	31 BARRELS ELS for details on the calculation	
C. Net Estimated Spilled Volume V _{Est} (bbls)* = 1. Stimated Reported Volume** V _{rep} (bbls)= 2 BARR Tes: Volume estimation was done using an excel based tool (see attached Reported spilled volume is an estimate	31 BARRELS ELS 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 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.

Calculated volume = 15.3 bbl ----- Reported volume = 16 bbl Examples: 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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•					-:4-
d.	Genera	i Status	01	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. 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

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f. Appendix 1: Overview sketch of the site

ocation: 14"	OKORDIA -	Rymuskps	PIPELINE AT	EDEONA
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OKORAIA				
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