INCIDENT NO: 2812730 JIV report S/N: 0598

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

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A. GENERAL INFORMATION:
1. Fountain Incident Number: 2813.150 2. Type of incident* OIL STILL
1. Fountain Incident Number: 2812730 2. Type of incident* OIL SPILL 3. Name of Location 20" KOLOCKEEK - RUMUEKPE PIPELINE
4. Name of nearest community OWEREWERE 5. State: KIVERS 6. LGA ABUA / ODUAL
7. Production Facility/Installation OIL PIPELINE
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED (SPAC) PIPELINE B. INCIDENT INFORMATION:
9. Details of incident a. Date Reported: 20TH DECEMBER, 2020 b. Start date/time of Investigation: 23RD DECEMBER, 2020/1400HRS c. Investigation End date: 23RD DECEMBER, 2020 Day(s) on site: ONE (1) 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 □ Sand bag(s)
Additional observations around the spill point: APPLICABLE
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture Failed 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 Others (specify) f. Incident caused by: Third party interference (Sabotage ; crude theft ; Line theft ; Accidental 3 rd party damage)
Operational Others (including Mystery spills)

*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)

INCIDENT NO: 2812730 JIV report S/N: g. Spill Point Coordinates (*Incidents \le 100m apart to be aggregated into one Joint Investigation Report) WGS 84 h. Measuring unit Easting: Northing: LONG ITUDE LATITIDE 4.96737 6.60995 C. RISK ASSESSMENT 10. Details of Environment Type of environment where spill occurred (select one): ☐ Shoreline/Waterfront ☐ Water Seasonal swamp Swamp Type of environment to which oil has spread: ii. ☐ Waterbody (specify)_ ☐ Swamp Weather condition iii. □Hot □Wet ☐ Windy 11. Distance to Sensitive habitat within 100m radius ☐ Government reserved and designated protected area NONE SEEN Drinking water source MIHIN ☐ Borehole ☐Surface water m] ☐ Built up Area Commercial/Industrial Area ☐Residential Area ,ml □ Farmlands ,m] ☐ Fish Farm/Pond ,m] ☐ Fishing net m] ☐ Others (specify) _ 12. Containment measures put in place: □Booms □Trench □ Dyke □ Pit □Natural depression ☑None Others: 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: ACTIVITIES ONGOING KEPAIR

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15. Was there any disruption to the investigation? [Y] [Y] If yes to item 15 give brief description:
NOT APPLICABLE
16. Was JIV delayed? [Y]
Reason(s): Delayed Community Access Approval 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
MONE WITHIN AREA OF IMPACT
18. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments I FALM TREE NONE 7NOS MANY MANY IMPACTED
2 RUBBER TREE TONOS MANY MANY MANY MANY MANY
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
S/N Others Description Quantity/Size Comments NONE WITHIN ARTA OF IMPACT
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained
n the leak report, overview sketch of the site should be added as appendix 1) A SECTION OF 20" KOLOCREG UMUEKPE PLPBLINE AT OWERENIERE SHOWING A 2" VALVE CONNECTED T
2" GALVANIZED PIPE AT 12 O'CLOCK POSITION BY UNKNOW PERSONS.
24 GALVANIZE
LEAK POINT PAPE
AT 12 O'CLOCK POSITION.
20"
FROM KOLOCKESK-RUMUCKPS PIPELINE Version 2020/01- vistribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment);

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Blue (Host Community)

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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)

	Was	84
Northing	LATITUDE	Easting LONGITUDE
	4.96728	6-60992
	4.96760	6.61121
e a service describe	4.96742	6.60958
	4.96736	6.60915
	4.96727	6.60793
	4.96783	6.61125
	4.96795	6.61027
	4.96778	6-60965
	4.96707	6,60795
	4.96708	6.60795 6.60850 6.61124
	4-96742	6.61124
7 2 1 2 2		
	Northing	Northing LATITUDE 4.96728 4.96760 4.96742 4.96736 4.96722 4.96783 4.96795 4.96707 4.96708 4.96742

INCIDENT NO. 2 812 730

	CIDENT NO: <u>2</u>			
INCIDENT IN	FORMATION:			
. Impacted	Area Details *			
• 1	otal calculated area of in	npact (Ha)	1-33Ha	
• Iı	mpact within SPDC R.O.	W	YES	
	mpact outside SPDC R.O	We have the Property of the	785	
Cound off to 2 decir Express in Hectares	nal places if area is ≥ 100 n s (Ha)	n ² or to 4 decimal places	if area is < 100 m² (e.g. 14.55	, 0.0051, 0.0009)
b. Volume of	oil recovered before o	completion of JIV ($ m V_{recJ}$):	
	THE STATE OF THE S	Recovered oil Vreca	NIL	Barrels
Controlled red	covery/evacuation from	source with no imp	act to environment:	
		i Barrels		
c. Net Estim	ated Spilled Volume		1•81BARR€L	A company of the state of the s
and the second of the second		$V_{Est}(bbls)^* = 40$	1.81 BARREL	The matter for the adaptive of the second of
and the second of the second	ated Spilled Volume	$V_{Est}(bbls)^* = 40$		
stimated Report tes: Volume estima	ated Spilled Volume \ted Volume \ted Volume** \text{Vrep(bbls)}	$\frac{V_{Est}(bbls)^* = 40}{402}$	ARRELS	Section 1 to 1
stimated Report	ated Spilled Volume \ted Volume \ted Volume** \text{Vrep(bbls)}	$V_{Est}(bbls)^* = 40$ $E = 402 B$ cased tool. (see attached for a	ARRELS details on the calculation)	
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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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- 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:
- 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

