INCIDENT NO: 2446418 JIV report S/N:1030133

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

A. GENERAL INFORMATION:

DILLEUL	Q ·	NI COIL
1. Fountain Incident Number:		OIL SPILL
3. Name of Location NEW 20" (	KC/L) Kolo	<u>Creek-Runuekpe PIPELINE</u>
4. Name of nearest community OKOMA 1	5. State: RIVERS 6.	LGA AHOADA EAST
	PIPELINE	· .
8. Asset owner/District IHE SHELL PETRO	IEUM DEVELOPI	<u>WENT COMPANY OF NIGERIA</u>
B. INCIDENT INFORMATION:	TIME	•
9. Details of incident a. Date Reported: 03-09-019 2 b. Start date/time of investigation: 05-09-2 c. Investigation End date: 5 th Sept EMBER 2019 d. Description of spill point environment    Description of Spill point Environment	QUIY 3-30PM Actual investigation duration oil	(2111 SEPTEMBER 1900)
NOT AP	PLICAB	LE
e. Description of leak point (tick as applicable);  Drilled 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  Others(specify)	☐ Hack saw cut ☐ Inward dent, ☐ Failed Clamp, ☐ Saver-pit over flow ☐ Bulging Outward ☐ Cold vent ☐ Relief valve failure	☐ Tear (), ☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange, ☐ Surge vessel overflow, ☐ Accidental 3 <sup>rd</sup> party equipment impact
f. Incident caused by: ☐Third party interference (Sabotage□; crude ☐Operational ☐Others (including N		ntal 3 <sup>rd</sup> party damage□)

\*This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire, g) non leaking Theft point removal Version 2019/01
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g. Spill point coordinates WGS84 h. Measuring unit Easting: Northing: SCHILLA C. RISK ASSESSMENT 10. Type of environment: ☐ Land Scasonal swamp ☐Shoreline/Waterfront **□**Swamp □Water Type of environment to which oil has spread: □Water River (identify) □Swamp Weather condition  $\square_{Dry}$ ☑wet ₩indy □Hot Sunny 11. Distance to Sensitive habitat within 100m radius ☐ Government reserved and designated protected area ,m] Drinking water source ,m] □ Built up arca ,m] Farmlands ,m] ☐ Fish Farm/Pond ☐ Fishing net Others (specify). 12. Containment measures put in place; □Pit · Dyke ☐Natural depression □None Trench □Booms 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: [Y] 15. Was there any disruption to the investigation?

If yes to item 15 give brief description:

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TO A DOLL CAD LE	
NUI APPLICABLE	
16. Was JIV delayed? [Y] [W-]-	
If yes to item 16 give brief description: NOT APPLICABLE.	
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL	
17. Structures / Properties	٠,
S/N. Type of Structures Description Size 3. Number Comments	
	•
18. Crops/Economic Trees	
S/N Type of crops: Young Medium Matured Matured Quantity (Quantity) (Comments )	
1. CASSAVA YES YES TES IMPACTED IMPACTED IMPACTED IMPACTED IMPACTED IMPACTED IMPACTED IMPACTED	
19. Fish/Nets/Ponds  Description:  Liquantity/Size: Comments & Fig. 2.	
NIN PISHINCISIA GIRLS	
CO Other (Specifical in Aminus) France	
20. Others (Specify) i.e. Animal Traps  S/N Others Description Quantity/Size : Comments	
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the	
ECILON OF 20" LOLO CREEK - RUMMEKPE PIPELINE AT	
KOMA SHOWING CRUDE OIL THEFT POINT (NSTALLED AT 12 O'Clock DO	síú
TEKK BOING	
2"BALL VALVE.	·
1) 20"	
FROM KOLD CREEK TO RIMMLER E. Version 2019/01 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host	
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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 an appendix)

S/N	Northing	Easting
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4.	*	•
<u> </u>		

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 1-846928HC1-851	F)
Vinc	<u>1</u> -12
\ \\/=C	<del>-</del> .
Impact outside SPDC R.O.W	<del></del>
b. Volume of oil recovered before completion of JIV (Vres):	Вапеls
Recovered oil Vree: NIL	Barreis
Controlled recovery/evacuation from source with no impact to environment:    Null Barrels   Barr	
c. Net Estimated Spilled Volume VE: (bbls)* =	*
153.33 BARREI	٤
Estimated Reported Volume** Vrm (bbls)= 154 BARRELS	<b>;</b>
- 1 Ditter	
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:	· · · i
Write other relevant notes taxen into consideration for volune estimation of cause of spini	•
	. ]
	ì
	•
	_
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estim Conversion of m to barrels is Volume (m3) x 6.29; *Round up estimated volume to next whole number using the follow Any spill volume in excess of 1 bbl is rounded up to the next whole number.	uation software on sile; ing rules:
Any splll volume in less than 1 bbl 1s 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.	,
Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JIV procedure to use appearing time in a plain sheet of paper and attach to the JIV report.	ropriate steps for column

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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

Ν-

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

  ✓

Tick as applicable

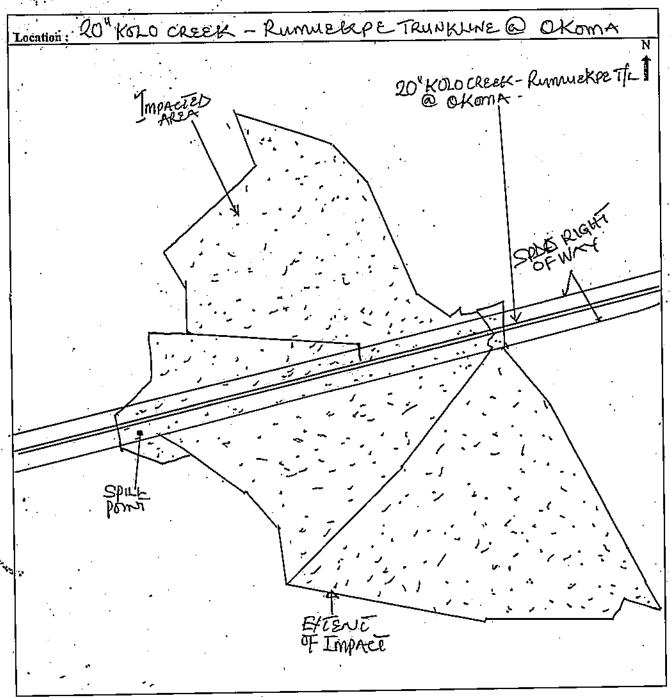
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f. Appendix 1: Overview sketch of the site



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