1 :

INCIDENT NO: 2103940 JIV report S/N: 0957 (Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: I. Spill incident Number: 2103940 2. Type of incident\* Of SPILL 3. Name of Location 20" KOLO CREEK - RUMUEUPE (TRUNKLINE) PIPELINE. (KM9)5. Slato: RIVERS 6. LOA ABUA ODUAL 4. Name of nearest community OBKU 7. Type of Production facility/Installation Otl PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA. LIMITED ( PIPECINE B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 21<sup>ST</sup> June, 2318 b. Start date/time of investigation: 374 JULY, 2018 c. Investigation End date: 4TH JULY, 2018 Actual investigation duration, days: JK10- DATSd. Description of spill point environment Recently excavated area ☐Firm soil Loose soil Swamov Under water ☐Exposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: THE JOINT INVESTIGATION TEAM OBSERVED THE LEAK POINT OTHTSIDE SPDC RIGHT OF WAY ON A 2" PIPE CONNECTED TO THE THEFT POINT ILLEGALLY INSTALLED ON THE 20" KOLO CREEK -RUMUEKPE PIPELINE AT BOAY (KM9). c. Description of leak point (tick as applicable): Drilled hole ☐Hack saw cut Tear ( Complete Rupture Inward dent, ☐ Well head tampering ☐ Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline Crude oil thest (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 ☐ Corrosion Others(specify)\_ f. Incident caused by: ☐ Third party interference (Sabotage □; crude the ft □; Line the ft □; Accidental 3<sup>nl</sup> party damage □)

☐ Mystery spills

☐Operational

Others(specify)

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

JIV report S/N: 0957

INCIDENT NO: 2103940 g. Spill point coordinates h. Measuring unit Easting: Northing: C. RISK ASSESSMENT 10. Type of environment: Seasonal swamp ☐ Shoreline/Waterfront □Swamp □Water Land i. Type of environment to which oil has spread: Swamp Scherower River (identify). □Water ☐ Land ii. Weather condition ⊠cool. **☑**Rain □Hot ✓Wei □Windy Dry □ Sunny 11. Distance from the nearest sensitive habitat NONE SEEN ,mj □ Government reserved and designated protected area ,m] □ Drinking water source MITTHIN ☐ Built up area ,m] ,m] □ Farmlands VICINITY. ,m] □ Fish Farm/pond ,mĵ ☐ Fishing net Others (specify). 12. Containment measures put in place; Dyke Pit None ☐ Natural depression Trench Booms Others: INJ /NJ 13. Any pictures or video coverage? [Y] . [N] 14. Further response/repair initiated as at the time of JIV? if yes to item 14, give brief description: REPHIR WORK MND TEMPORKET KECORERY OF SPILLED CRUDE OIL OF THEFT POINT [NJ 15. Was there any disruption to the investigation? [Y].

INCIDENT NO: 2103940 JIV report S/N:0957							
If yes to item 15 give brief description:							
NOI APPLICABLE							
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL  16. Structures / Properties							
S/N Type of Structures Description Size Number Comments							
NONE WITHIN ARAL OF IMPACT							
17. Crops/Economic Trees							
S/N Type of crops Young Medium Matured Quantity Comments							
NONE ATTHIN AREA OF IMPACT							
18. Fishing Nets/Fish Ponds							
S/N Nets/Ponds Description Quantity/Size Comments							
NONE WITHIN ARIA OF IMPACT							
19. Others (Specify) i.e. Animal Traps							
S/N Others Description : Quantity/Size Comments							
NONE WITHIN AR A OF IMPACT							
E. GRAPHIC DESCRIPTION OF LEAK POINT (While detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix l)							
SECTIONAL VIEW OF 20" KO LO CREEK-RUMUEKPE (TRUNKLINE) PIPELINE							
AT ODAY SHOWING: LEAK DUE TO 3" BALL VALUE THEFT FITTING							
INSTALLED AT 120' CLOCK POSTION BY UNKNOWN PERSONG)							
3" REDUKE TO 2" SPILL							
3" PIPE POINT OU DIRE SPILL							
NON LEAKING TO THEFT FITTING EXTENTION							
3" BATI VALUE INTO THE FOREST							
INSTALLED AT 3" NIPPLE							
2 (							
Page 3 of 8							

INCIDENT NO: 2103940 JIV report S/N: 0957

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

20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

	WGS R4	<u> </u>
S/N	Northing LATITUDE	Easting LONGITUDE
	4-92828	6.43732
	4.92830	6-43732
	4. 92827	6-43729 - 6-43728
	4.9 2829	6.43728
<u> </u>		
, .		
<del></del>		
	,	
<u> </u>		
-		
•		
	/	
-		
ļ		
· -		
-		
·		

INC	IDENT NO: <u>2103</u>	3940	JIV report S/N:	0357
G. INCIDENT INF	ORMATION:	•		
a. Impacted A	rea Details			<u>.</u>
• To	tal-calculated area of impact		ollHa	-
• Im	pact within R.O.W	YE5	<del></del>	
• Im	pact outside R.O.W	.No		<u>-</u>
b. Volume of o	il recovered before com		i):	<del></del>
		covered oil V <sub>reel:</sub>	NIL	Barrels
Controlled rec	overy/evacuation from sou	Barrels	to environment:	
. ·		•	<u> </u>	· 
e. Net Estimat	ed Spilled VolumeV <sub>Est</sub> (b)	<u>bls)*</u> =		
	3.	38 BARRE	∟S	
Estimated Reporte	d Volume** V <sub>ree</sub> (bbls)=	4 BARRE	s.	
<ul> <li>Reported spill</li> </ul>	tion was done using an excel based ed volume is an estimate Inotes taken into consideration for c			
irrue omer rejevan	notes taken und consuceration for t	esumanng me sputea in n	e out below.	
1	MOT A	(PPLI	CABLE	
	•	• •		·
Conversion of m <sup>1</sup> to barre	live estimated volume is to be done e ils is Volume:(m3) x 6.29: **Round ne in excess of I bbl is rounded	up estimated volume to ne	ext-whole number using the followi	ntion software on site: ng rules:
Any spill volu	ne in less than I bbl is rounde	d up to the next 0.1 bbl.		•
Examples:	Calculated volume = 15.3 bbi - Calculated volume = 0.35 bbi Calculated volume = 0.01 bbi	Reported volume =	0.4 bbl	
Wherever this estimation	n tool is not applicable please ref	_		c appropriate steps fo

INCIDENT NO: 2103940 JIV report S/N: 0957
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
c. Representatives
This report was filled, agreed and signed by the following joint investigation team representatives:
Host Community:
Department of Petroleum Resuurces [DPR]: □
National Oil Spill Detection and Response Agency [NOSDRA]:
State Ministry of Environment [SME]:
Asset Owner:
Signatories agree with reported findings:
Separate DPR form has been filled out with same findings □
Tick as applicable

The same

INCIDENT NO: 210394 0 JIV report S/N: 0957

f. Appendix 1: Overview sketch of the site

