INCIDENT NO: 200 4206 JIV report S/N: 0986

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 2004206 2. Type of incident\* GIL SPILL 3. Name of Location 8" NKALL - IMO RIVER 2 (DELIVERY LINE) PIPELINE 4. Name of nearest community NKALL 5. State: RIVERS 6. LGA ETCHE 7. Type of Production facility/Installation OIL PIPCLINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITCED.

B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 20th January 2018 b. Start date/time of investigation: 25th JANUARY 2018 c. Investigation End date: 25th JANUARY 24 Sual investigation duration, days: TNE DAY d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil Under water Swampy ' Exposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: APPLICABLE e. 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 theft (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: ☐ Operational ☐ Mystery spills Others(specify)

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

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HACIL	PENT NU: Z	304206	JIV rep	ort S/N: ()	1986
g. Spill point coord	inates				
h. Measuring unit			las 87°		
Northings	LATITUD &	·	Easting: Lo	Pairas	
	4.9862		7.15	 2-83	
		<u> </u>	<u> </u>		
RISK ASSESSME					
10. Type of enviro	nment:				
Land	☐Swamp	□Water	☐ Seasonal sv	vamp   Shor	eline/Waterfront
i. Type	of environment to w	hich oil has spread:			
<b>□</b> Land	□Swamp	□Water	□River (iden	tify)	<del></del>
ii. Weath	ner condition				
Rain	Sunny	□Dry □Wet	□Windy	∐Hot □c	ool
11. Distance from t	the nearest sensitive l	nabitat			
☐ Governme ☐ Drinking v ☐ Built up as ☐ Farmlands ☐ Fish Farm ☐ Fishing ne ☐ Others (sp	rea : :/pond t	nated protected area	[ [ [	.m1 (	IE SEEM THIN INITY
12. Containment m	easures put in place;		•		•
Booms	Π'n	rench Dyke	Natural dep	ression $\square$ P	it 🗆 None
Others:					
13. Any pictures or	video coverage?		[Y <b>]</b>	N]	
14. Further respons	e/repair initiated as a	t the time of JIV?	[Y <b>\/</b> []	N]	
f yes to item 14, give bri REPAR M	ef description: LORK BY C	LAMPING	6N GEL	<u> 4G : </u>	
15. Was there any dis	sruption to the investig	ation?	[Y] [1	N3/	

INCIL	DENT NO: <u>20</u>	04206	JIV re	port S/N: 0	986	•
If yes to item 15 give bi	rief description:					
NC	) T AF	PLI	CAB	LE	· · · · · ·	<u> </u>
D. TYPE/NUMBERS 16. Structures / Pro		FANY, FOUND	WITHIN THE	AREA OF SPREA	AD OF OIL	
S/N Type of Struc	tures Description	Size	Numbe	r	Comments	$\exists$
NONE	WITH	NA	RCA	OT IN	1PAC	<b>=</b>
17. Crops/Econom		··				
S/N Type of crops	Young	Medium	Matured	Quantity	Comment	<u>š</u>
HOME	MIH	N A	REA	OF IM	PAC.	
18. Fishing Nets/Fi	sh Ponds					
S/N Nets/Ponds	Descri	ption	Quantity/Size	Comm	ents	-
NONE	WHTH!	V A	REA (	FIME	ACT	
19. Others (Specify	<del></del>					
S/N Others	Descri	ption	Quantity/Size	Comm	ents	
NONE		NA	REA (	F IMP	ACT	$\exists$
E. GRAPHIC DESCI	RIPTION OF LEAK I				d be contained	in
CHAL YIEW	CF 8" NH	<u> ארו – ועו</u>	O RIVER	DELLYER	4 LINE)	PIPELING
AT MICALI	SHOWING			•		<b>—</b> .
	WITH A L	expr crv	TA 9m	2 10' Clock	POS( (10	<u>v</u> .
			EAK WAS			
			•	' BAH YALV INSTALLED	• -	
		/	,	POSITION	•	
			LOCAL (	•	,	
4				<u>:</u>	9	8,17
	4	~ \_{1}				

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#### 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)

	∀	OUS &b
S/N	1	Easting LONGITUDE
{ e	· 4.98617	7.15278
2	4.98621	7.152.79
3.	4-98623	7-15288
14"	4.98621	7·15279 7·15288 7·15289
4°	4.98619	7.15286
_		
	· · ·	
	<del> </del>	
		A and on land
		A MA
	<i>&gt;</i>	
	<del>                                     </del>	<del></del>
<b> </b>		
	<del>                                     </del>	
<u> </u>	<del>  /</del>	
	<del>                                     </del>	<u> </u>
	· · · · · · · · · · · · · · · · · · ·	

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 0.604 Ha	•
Impact within R.O.W	
Impact outside R.O.W	
b. Volume of oil recovered before completion of JIV (Vree.):  Recovered oil Vree.:	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
NI Barrels	
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	
2 BARRELS	
Estimated Reported Volume** Vren(bbls)= 2 BAKRELS	
•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 estimating the spilled in the box below:	
NOT APPLICABL	E
Calculation of the respective estimated volume is to be done on site as for as practicable using the new spill volume estimated 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   bbl   is rounded up to the next whole number:	ation software on site: ing rules:
<ul> <li>Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.</li> </ul>	•
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 6e (Deviations) of the JIV procedure to a volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.	se appropriate steps for .

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d. General Status of the site
<ul> <li>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</li> </ul>
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 Resuurces [DPR]: S
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

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f. Appendix 1: Overview sketch of the site

