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(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: 1987291 2. Type of incident\* SIL SPILL 3. Name of Location 28" BOMN - BONNY TRANS NIGER PIPELINE 4. Name of nearest community WATER SIDE 5. State: RIVERS 6. LGA COKANA 7. Type of Production facility/Installation GIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 1874 DECEMBER 2017 b. Start date/time of investigation: 19 TH DECEMBER 2017 c. Investigation End date: 19Th DEC, 2017 Actual investigation duration, days: ONE DAY d. Description of spill point environment Loose soil ☐Firm soil Recently excavated area Swanny ☐Under water 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 Runture ☐ 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 ☐ Corresion Others(specify) f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3rd 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,

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	) JGS PH = Easting:
4 57 4433	7.254142
C. RISK ASSESSMENT  10. Type of environment:	
□Land □Swamp □Water	Seasonal swamp Shoreline/Waterfront
i. Type of environment to which oil has spread:	
□Land □Swamp □Water	River (identify)
ii. Weather condition	
□Rain ☑Sunny □Dry □Wef	□Windy ☑Hot □cool
11. Distance from the nearest sensitive habitat	
☐ Government reserved and designated protected area☐ Drinking water source☐ Built up area☐ Farmlands☐ Fish Farm/pond☐ Fishing net☐ Others (specify).	[ ,m] NONE SEEN [ ,m] WITHIN [ ,m] VICINITY. [ ,m]
12. Containment measures put in place;	
□Booms □Trench □Dyke	✓ Natural depression □ Pit □ None
Others:	
13. Any pictures or video coverage?	[Y <b>]</b> [N]
14. Further response/repair initiated as at the time of JIV?	$[Y] \checkmark [N]$
if yes to item 14, give brief description: TEMPORKRY REPRIR BY BLIND	FLANGING.
15. Was there any disruption to the investigation?	[Y] [N]/

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If yes to item 15 give brief description:
NOT 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 AREA OF IMPACT
17. Crops/Economic Trees  S/N Type of crops Young Medium Matured Quantity Comments
NONE WITHIN AREA OF IMPACT
18. Fishing Nets/Fish Ponds  S/N Nets/Ponds Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
19. Others (Specify) i.e. Animal Traps
S/N Others Description Quantity/Size Comments
HONE WITHIN ARLA OF IMPACI
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 1)  NAL VIEW OF 28" BOMY BONNY TRANS NIGER PIDELINE AT PA
WATER SIDE SHOWING FAILED 6" WEID-ON ILLEGAL HOT TAP VA
LEAK DUE TO 6" FAILE
WE'D -ON ILLECAL HOT
TAP VAIVE INSTALLED A
12 O CLOCK POSITION
28" TN?
Bomu - BONNY PIPELINE Page 3 of 8

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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)

-		
S/N	Northing	Easting
	4.57441	7-25416
	4:57 442	7.25410
	4.57 437	7.25412
	4.57 437	7.25 409
	4.57.537	7.25 419
	4.575387	7.25 4097
	4.57501	7-25491
-	4:57 491	7.25512
	4:57 490	7.25518
	4.57508	7.25519
	4.57.518	7.25517
	4:57522	7.25510
	4.57524	7.25482
_	4:575301	7.254194
	4.575194	7.254839
-		
		/-

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact 0.24hg  Impact within R.O.W 155  Impact outside R.O.W 155  b. Volume of oil recovered before completion of JIV (V <sub>reel</sub> ):	-
Recovered oil V <sub>reed</sub> : NIL	Barrels
Controlled recovery/evacuation from source with no impact to environment:    Ni   Barrels	
c. Net Estimated Spilled VolumeV <sub>Est</sub> (hbls)* =	
9.95 BARRELS	
Estimated Reported Volume** Vreu(bbls)=	
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 APPLICABLE	
Calculation of the respective estimated volume is to be done on site as fur as practicable using the new spill volume estimate Conversion of m' to barrels is Volume: (m3) x 6.29: **Round up estimated volume to next whole number using the following	ion software on site:
<ul> <li>Any spill volume in excess of I bbl is rounded up to the next whole number:</li> </ul>	<b>-</b>

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 use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl Calculated volume = 0.35 bbl ------ Reported volume = 0.4 bbl

Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Examples:

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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		
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		

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f. Appendix 1: Overview sketch of the site

