INCIDENT NO: 2000620 JIV report S/N: 0991 (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: 2000620 2. Type of incident\* O/L SP/LL 3. Name of Location 14" OKORDIA - RUMLIERPE PIPELINE 4. Name of nearest community 1 K A T A 5. State: RIVERS 6. LGA A HOADA EAST 7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LTD B. INCIDENT INFORMATION: 9. Détails of incident a. Date of incident: 12TH JANUARY 2018 b. Start date/time of investigation: 25TH JANUARY 2018/1400HRS c. Investigation End date: 28TH JANUARY 2018 Actual investigation duration, days: FOUR (4) DAYS 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 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: Third party interference (Sabotago ; crude theft□; Line theft□; Accidental 3rd party damage□) ☐ Operational ☐ Mystery spills Others(specify)

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

INCIDENT NO: 2000620 JIV report S/N: 0991

<ul><li>g. Spill point coording</li><li>h. Measuring unit</li></ul>	nates	14	as Q4	
Northing:	·		Easting:	
	5:0430	49	6.59093	,0
<del></del>	<u> </u>	<del></del>		
			-	
C. RISK ASSESSME	NT			
10. Type of environ	ment:			
Land	Swamp	□Water	Seasonal swamp	Shoreline/Waterfront
i. Type o	of environment to wh	ich oil has spread:		
Land	☐ Swamp	□Water	☐River (identify)	
ii. Weath	er condition			
Rain	Sunny J	Zory □wei	□Windy □Hot	□ cool
11. Distance from the	ne nearest sensitive h	abitat		
☐ Governmer ☐ Drinking w ☐ Built up are ☐ Farmlands ☐ Fish Farm ☐ Fishing net ☐ Others (spe	pond	nated protected area	[ ,m] [ ,m] [ ,m] [ ,m] [ ,m] [ ,m]	NONE SEEN WITHIN VICINI
12. Containment me	easures put in place;			·
□Booms	ΠTr	ench Dyke	☐ Natural depression	√□ Pit □ None
Others:	<u>_</u>			
13. Any pictures or	video coverage?		WT [N]	
14. Further response	repair initiated as at	the time of JIV?	[N]	
if yes to item 14, give brie		PV CI	AMPINSG	

INCIDENT NO: 2000620 JIV report S/N:0991 If yes to item 15 give brief description: THE HOST COMMUNITY STOPPED WORK, CLAIMING THAT, SHELL DO NOT RECOGNISE THEM AS HOST COMMUNITY WITH RESPECT TO SCHOLARSHIPS, AND NON-INCLUSION IN SURVELLANCE CONTRACT CHRISMAS GIFTS 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 17. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments 18. Fishing Nets/Fish Ponds S/N Nets/Ponds Description Quantity/Size Comments 19. 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

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 I) A SECTION OF 14"

OKORDIA - RUMUEKPE PIPELINE AT IKATA SHOWING DRILLED HOLE AT 100'CLOCK POSITION BY UNKNOWN PERSONS.

CONCRETE CONTING

DRILLED HOLE AT 10 O'CLOCK
POSITION/SPILL POINT

14"

OKORDIA TO RUMUEKPE
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)

	- Improved area obtained y Coordinates (1) more	MGS 84
S/N	Northing	Easting
	5.04302	L.59095
	5.04208	6.59093
	5 04270	0 3 10 13
	5.043010	6.570893
	5.04302 5.04298 5.043020 5.04309	6.59095 6.59093 6.590893 6.59084
	1 5.04212	6 59090
	5.043079	6.590935
	012011	0 010 133
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	INCIDENT NO: 200620 JIV report S/N:	0931
G. II	NCIDENT INFORMATION:	
a.	Impacted Area Details	
	Total calculated area of impact  Impact within R.O.W  Tes	

0991

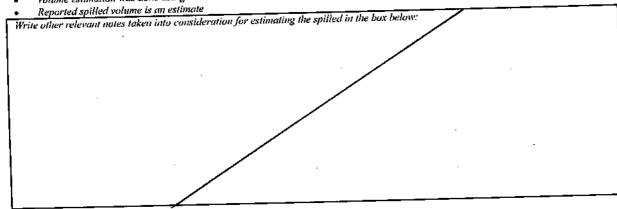
Impact outside R.O.WND	_ <del></del>
Volume of oil recovered before completion of JIV (Vreed):	<del>- 15</del> - 1.
Recovered oil V <sub>recJ</sub> : 47	Barrels
Controlled recovery/evacuation from source with no impact to environment:    N/L   Barrels	

c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	
64.84 BARRELS	
Estimated Reported Volume** V <sub>rest</sub> (bbls)= 65 BARRELS	

•Notes:

b.

Volume estimation was done using an excel based tool.(see attached for details on the calculation)



Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site:

Conversion of m' to barrels is Volume: (m3) x 6.29: \*\*Round up estimated volume to next whole number using the following rules:

Any spill volume in excess of 1 bbl is rounded up to the next whole number:

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

Calculated volume = 15.3 bbl ------- Reported volume = 16 bbl ------- Reported volume = 0.4 bbl ------- Reported volume = 0.4 bbl ------- Reported volume = 0.1 bbl Examples:

Wherever this estimation tool is not applicable please refer to paragraph 6e (Deviations) of the JIV procedure to use appropriate steps for a volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.

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<li>d. General Status of the si</li>	d. 🗆	Genera	al Status	of the	site
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i. Joint investigation of the incident site found that there is no residual impact after the initial response therefore recommend that the site be closed out	and JIT
ii. Investigation of the incident site showed that there is residual impact on site requiring further works	W
e. 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 ap	plicable

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f. Appendix 1: Overview sketch of the site

