INCIDENT NO: 1520850 JIV report S/N:

Nº 0000392

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 2. Type of incident\* OIL/CHEMICAL SPILL 1. Spill incident Number: 3. Name of Location FORCADOS TERMINAL FOAM STATI 4. Name of nearest community OGULAGHA 5. State: DELTA 6. LGA BURUTU 7. Type of Production facility/Installation FOAM CHEMICAL LINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY Details of incident 5TH NOVEMBER, 2015 9. Details of incident b. Start date/time of investigation: 9TH NOVEMBER, 2015 AT 1122 HRS c. Investigation End date: 9TH NOVEMBER, Actual investigation duration, days: ONE DAY. d. Description of spill point environment Loose soil Firm soil Recently excavated area **□**Swampy Exposed pipe surface □Under water □ DrillRig □Well Platform (on Water Additional observations around the spill point: ON ARRIVAL AT SITE, WE OBSERVED THAT THE LEAK POINT IS ABOUT 0.5m ABOVE GROUND LEVEL. THE J.I.T. ESTABLISHED THAT THE LEAK WAS AS A RESULT OF CHECK VALVE FAILURE FROM THE FIRE FORM CHEMICAL AERATOR LINE. e. Description of leak point (tick as applicable); 🔲 Tear ( Hack saw cut ☐Drilled hole ☐ Well head tampering Inward dent, Complete Rupture ☐ Missing Pipeline/Flowline Failed Clamp, ☐ Failed Weld-on illegal hot tap valve ☐ Third party tampering with Clamp ☐ Saver-pit over flow ☐ Crude oil theft (illegal bunkering) point, ☐ Third party tampering with flange, ☐ Bulging Outward ☐Third party tampering with valve setting Cold vent ☐ Surge vessel overflow, ☐ Flare System/Bund wall failure Accidental 3rd party equipment impact ☑ Valve Failure Relief valve failure Others(specify) f. Incident caused by: ☐Third party interference (Sabotage☐;crude theft☐; Line theft☐; Accidental 3<sup>rd</sup> party damage☐) ☑Operational Others (including Mystery spills)

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

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		•					000000	
g. Spill point coordina	les	WGS	84	<b> </b> -				
h. Measuring unit Northing:		<u> </u>		asting:				
	5.336	833		5.350	667			
							<del></del>	
C. RISK ASSESSMEN	<u> —                                   </u>						<del></del>	
10. Type of environn								
☑Land	□Swamp	·			☐Seasonal swamp ☐Shoreline/Waterfront			
i. Type of	environment to wi	nich oil has s	pread:			,		
☑Land	□Swamp				River (identify)			
ii. Weather	r condition							
□Rain	⊠Sunny I	⊐ <sub>Dry</sub> I	□Wet	□Windy	□Hot	□cool		
11. Distance from th	e nearest sensitive	habitat						
☐ Government <li>☐ Drinking wa</li> <li>☐ Built up are:</li> <li>☐ Farmlands</li> <li>☐ Fish Farm/P</li> <li>☐ Fishing net</li> <li>☐ Others (spec</li>	ond	gnated protec	eted area	[ [ [ [	, ,		VITHIN INITY	
12. Containment me	asures put in place	;		•				
□Booms	□т	rench 🗆	Dyke	☑ Natural d	epression	□Pit	□None	
□Others:	<del></del>							
13. Any pictures or	video coverage?			W	[N]			
14. Further respons	e/repair initiated a	s at the time	ofJIV?	[Y]	[W]			
If yes to item 14, give brief	lescription:	NOT	APP	<u>LICABI</u>	_E			
	investion to the inc		··		100/1		<del></del>	

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\_AERATOR UNIT (LEAK POINT)

TO CD TANK 102

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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
1.	5.336833	5.350667
2.	5.336667	5.350667
3.	5.33 6667	5.350611
<u>4.</u>	5.33 675	5.35 0 667
<u>5.</u>	5.336833	5.350694
6.	5.33 6833	5.350667
7	5.33 6917	5.350694
8	5.336972	5.350556
9.	5.337	5.350556
10.	5.337056	5.35 0556
11.	5.337028	5.35 0472
12.	5.336972	5.350444
13.	5.336889	5.350417
14.	5.336889	5.350417
15.	5.336917	<i>5</i> · 3 <i>5</i> 0 3 6 1
16	5.336972	<i>5</i> .350361
17.	5.336972	5.350361
18.	5.33 6861	5.350472
19.	5.33 68 06	5.350472
20.	5.33 675	<u>5.3505</u>
21.	5.33 675	<i>5</i> ·35 <u>0639</u>
		· ·

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G. INCIDENT INFORMATION:
a. Impacted Area Details
Total calculated area of impact  Impact within R.O.W  Impact outside R.O.W  NO  Burnels  Recovered oil V <sub>reed</sub> :  Controlled recovery/evacuation from source with no impact to environment:  NIL Barrels
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =
0.84BBLS
Estimated Reported Volume** V <sub>rep</sub> (bbls)= 0.9BBLS
*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:

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<sup>3</sup> to burrels is Volume (m3) x 6.29; \*\*Round up estimated volume to next whole number using the following rules:

NOT APPLICABLE

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

Any spill volume in less than — I bbl — is 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 ------ Reported volume = 0.4 bbl

Wherever this estimation tool is not applicable please refer to paragraph 6c (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.

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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

#### М

#### 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]:
- 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

