INCIDENT NO: 2799385 JIV report S/N:

0707

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

A. GENERAL INFORMATION:
1. Fountain Incident Number: 2799385 2. Type of incident* DIL SPILL
3. Name of Location 12" FORCADOS LOW PRESSURE DELIVERY LINE.
4. Name of nearest community OGHULHA 5. State: DELTA 6. LGA BURUTU
7. Production Facility/Installation DELIVERY LINE
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY NIGHT INFORMATION: 8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY B. INCIDENT INFORMATION:
9. Details of incident a. Date Reported: DECEMBER, 2020
b. Start date/time of Investigation: 14TH DELEMBER 2020 AT 7' 28 PM
c. Investigation End date: 14TH DECEMBER, 2020 Day(s) on site: ONE (1) DAY
d. Description of spill point environment
Firm soil
☐Under water ☐Swampy ☐Exposed pipe surface
☐Well Platform (on water) ☐Drill Rig ☐Sand bag(s)
Additional observations around the spill point:
e. Description of leak point (tick as applicable);
Smooth round-edge hole Rough-edge hole Hack saw cut
Smooth round-edge hole Complete Rupture Rough-edge hole Inward dent, Well head tampering
☐ Smooth round-edge hole ☐ Rough-edge hole ☐ Hack saw cut ☐ Complete Rupture ☐ Inward dent, ☐ Well head tampering ☐ Failed Weld-on illegal hot tap valve ☐ Failed Clamp, ☐ Missing Pipeline/Flowline
□ Smooth round-edge hole □ Rough-edge hole □ Hack saw cut □ 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
□ Smooth round-edge hole □ Rough-edge hole □ Hack saw cut □ 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,
□ Smooth round-edge hole □ Rough-edge hole □ Hack saw cut □ Complete Rupture □ Inward dent, □ Well head tampering □ Failed Weld-on illegal hot tap valve □ Failed Clamp, □ Missing Pipeline/Flowline □ Third party tampering with valve setting □ Flare System/Bund wall failure □ Cold vent □ Surge vessel overflow, □ Surge vessel overflow,
□ Smooth round-edge hole □ Rough-edge hole □ Hack saw cut □ 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 3 rd party equipment impact
□ Smooth round-edge hole □ Rough-edge hole □ Hack saw cut □ 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 3 rd party equipment impact
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Smooth round-edge hole □Complete Rupture □Inward dent, □Failed Weld-on illegal hot tap valve □Crude oil theft (illegal bunkering) point, □Third party tampering with valve setting □Flare System/Bund wall failure □Valve Failure □Tear (□Vell head tampering □Missing Pipeline/Flowline □Third party tampering with Clamp □Third party tampering with Clamp □Third party tampering with flange, □Surge vessel overflow, □Accidental 3rd party equipment impact □Accidental 3rd party equipment impact □Tear (□Cold vent □Accidental 3rd party equipment impact
Smooth round-edge hole □Complete Rupture □Inward dent, □Well head tampering □Failed Weld-on illegal hot tap valve □Crude oil theft (illegal bunkering) point, □Third party tampering with valve setting □Flare System/Bund wall failure □Cold vent □Third party tampering with flange, □Rough-edge hole □Inward dent, □Well head tampering □Missing Pipeline/Flowline □Third party tampering with Clamp □Third party tampering with flange, □Surge vessel overflow, □Valve Failure □Relief valve failure □Accidental 3rd party equipment impact □Tear □Cothers (specify) EXTERNAL COROSION f. Incident caused by: □Third party interference (Sabotage □; crude theft □; Line theft □; Accidental 3rd party damage □)
Smooth round-edge hole
Smooth round-edge hole □Complete Rupture □Inward dent, □Well head tampering □Failed Weld-on illegal hot tap valve □Crude oil theft (illegal bunkering) point, □Third party tampering with valve setting □Flare System/Bund wall failure □Cold vent □Third party tampering with flange, □Rough-edge hole □Inward dent, □Well head tampering □Missing Pipeline/Flowline □Third party tampering with Clamp □Third party tampering with flange, □Surge vessel overflow, □Valve Failure □Relief valve failure □Accidental 3rd party equipment impact □Tear □Cothers (specify) EXTERNAL COROSION f. Incident caused by: □Third party interference (Sabotage □; crude theft □; Line theft □; Accidental 3rd party damage □)

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Northing: LATITU DE Easting: LON CITU DE		ipili Point Coordin Ressuring unit	iates (*Inicidenta <u><</u>	100m apart to be as	gregated into	ane Joint	Investigation R	(eport)	
C. RISK ASSESSMENT 10. Details of Environment 1. Type of environment where spill occurred (select one): Land	W. 70	Northing:			Easting:	Easting: LONGITUDE			
10. Details of Environment 11. Type of environment where spill occurred (select one):		5.	3777		5.	300	863		
10. Details of Environment 1. Type of environment where spill occurred (select one): Land									
10. Details of Environment 1. Type of environment where spill occurred (select one): Land		-							
Type of environment where spill occurred (select one):									
Land	10.								
ii. Type of environment to which oil has spread: Land	í.	Type of env	ironment where	spill occurred (sele	ect one):				
Land		Land	□Swamp	Water	Seasona	l swamp	Shoreline	/Waterfront	
iii. Weather condition Dry	íí.	Type of env	ironment to which	ch oil has spread:					
Dry Wet Windy Hot		Land	Swamp	□Waterbody (s	pecify)				
Distance to Sensitive habitat within 100m radius Government reserved and designated protected area m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m m NODIO 6 SE 6 Drinking water source m M NODIO 6 SE 6 Drinking water source m M NODIO 6 SE 6 Drinking water source m M NODIO 6 SE 6 Drinking water source m M NODIO 6 SE 6 Drinking water source m M NODIO 6 SE 6 Drinking water source m M NODIO 6 Drinking water source m NODIO 6 Drinking water so	iii.	Weather cor	ndition						
Government reserved and designated protected area Drinking water source Surface water Borehole Built up Area Residential Area Farmlands Fish Farm/Pond Fishing net Others (specify) 12. Containment measures put in place: Booms Trench Dyke Pit Natural depression Others: Natural depression Natural d		□Dry	□wet	₩indy	□Hot				
Surface water Borehole MITHIN T Built up Area Residential Area Commercial/Industrial Area miles mile	11.	Distance to Sens	sitive habitat with	nin 100m radius					
Residential Area		☐ Drinking wa	iter source e water Bo	•	•	,m]			
12. Containment measures put in place: Booms Trench Dyke Pit Natural depression None Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? Yes to item 14, give brief description:		☐ Farmlands ☐ Fish Farm/Po ☐ Fishing net	ond	mmercial/Industrial Ar	ea [[[,m] ,m, [m,	VICIN	ηΤ y	
13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? [Y] [N] [Yes to item 14, give brief description:	12. (Containment meas	ures put in place:			~~			
13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? [Y] [N] 15. Syes to item 14, give brief description:		□Booms □Ti	rench Dyke	☐ Pit ☐ Natural	depression	Vone			
13. Any pictures or video coverage? [V] [N] 14. Further response/repair initiated as at the time of JIV? [Y] [N] [yes to item 14, give brief description:						·			
yes to item 14, give brief description:	13. A					[N]			
NOT APPLICABLE	14.	Further response/r	repair initiated as a	t the time of JIV?	[Y]	[N]			
NOT APPLICABLE	yes to ite	m 14, give brief des	cription:						
	NOT	APPL	ICABL	.E					

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15. Was there any disruption to the investigation? [Y]
If yes to item 15 give brief description:
NOT APPLICABLE 16. Was JIV delayed? [YF [N]
Reason(s): Delayed Community Access Approval Others (specify) LOGISTICS CONSTRAINTS.
 D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 17. Structures / Properties
S/N Type of Structures Description Size Number Comments 18. Crops/Economic Trees
S/N Type of crops Young Medium Matured Quantity Comments 19. Fish/Nets/Ponds
S/N Fish/Nets/Ponds Description Quantity/Size Comments 20. Others (Specify) e.g. Animal Traps
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1)
A SECTION OF 12" FORCADOS LOW PRESSURE DELIVER) LINE AT OGHULHA SHOWING ACOROSSION AT 3 O'CLOCK
POSITION. EXTERNAL CORUSION SPILL POINT
FROM FORCA DOS TO ESTUARY FLOW STATION
FROM FORCADOS TO ESTUARY FLOW STATION

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

21. Impacted area boundary Coordinates (If more, Print and attach as Appendix)

S/N	Northing	Easting
	//	
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	X/	
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a. Impa	cted Area Details *
a. Impa	Total calculated area of impact (Ha) NIL
	Impact within SPDC R.O.W
	Impact within SPDC R.O.W Impact outside SPDC R.O.W NIL
	* Impact outside SPDC R.O. w
ouna ojj to xpress in H	ectares (Ha)
. Volun	ne of oil recovered before completion of JIV (VrecJ):
· VOILI	Recovered oil V _{recJ} : A Barrels
Controll	led recovery/evacuation from source with no impact to environment:
Condon	Barrels
c. Net l	Estimated Spilled Volume V _{Est} (bbls)* =
c. Net l	1012
	Estimated Spilled Volume V _{Est} (bbls)* =
stimated F	Estimated Spilled Volume V _{Est} (bbls)* = 0 - 5 BARREL
stimated F	Estimated Spilled Volume $V_{Est}(bbls)^* = 0.5 \text{ BARREL}$ Reported Volume** $V_{rep}(bbls) = 0.5 \text{ BARREL}$ The estimation was done using an excel based tool (see attached for details on the calculation)
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = 0.5 \text{ BARREL}$ Reported Volume** $V_{rep}(bbls) = 0.5 \text{ BARREL}$ The estimation was done using an excel based tool (see attached for details on the calculation) and spilled volume is an estimate
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$
tes: Volum Repor	Estimated Spilled Volume $V_{Est}(bbls)^* = O \cdot S \cdot BARREL \cdot O \cdot S \cdot B \cdot BARREL \cdot O \cdot S \cdot B \cdot B$

Conversion of m3 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 I bbl is rounded up to the next whole number.

Any spill volume in less than 1 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 = 0.1 bbl.

Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JIV procedure to use appropriate steps for column 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	cito
u.	Generai	Status	or the	site

i.	Joint investigation of the incident site found that there is no residual impact after the initial response at therefore recommend that the site be closed out	nd JIT
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 Resources [DPR]: □
- National Oil Spill Detection and Response Agency [NOSDRA]: ☑
- State Ministry of Environment [SME]:
- The Shell Petroleum Development Company [SPDC]:
- Separate DPR form has been filled out with same findings □
- Separate NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

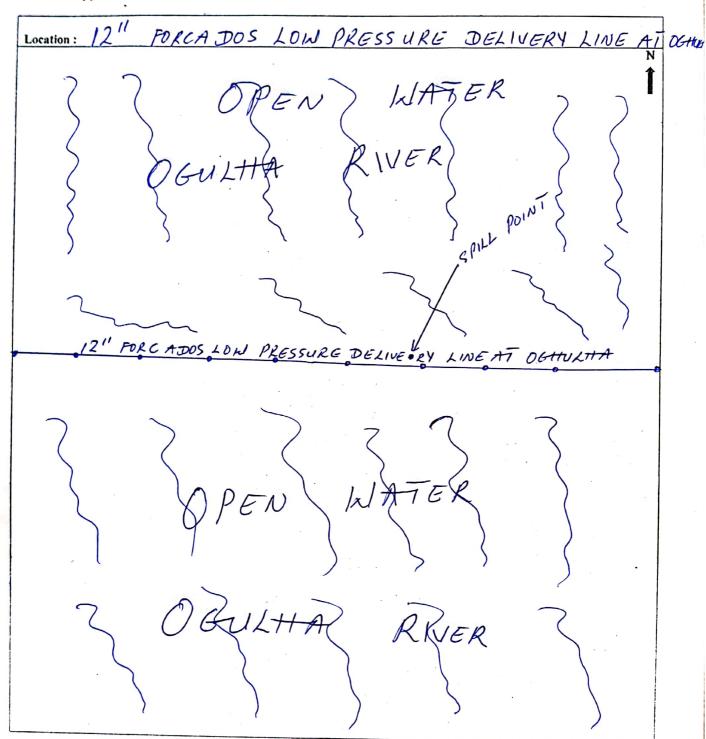
Tick as applicable

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f. Appendix 1: Overview sketch of the site



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