INCIDENT NO: 2799487 JIV report S/N:

0596

(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: 279948	7 2. Type of incident* OTL SPILL RUMUEKPE PIPELINE 5. State: RIVERS 6. LGA EMEHUA
3. Name of Location 14" OKORDIA -	RUMUEKPE PIPELINE
4. Name of nearest community NAMUEK E	5. State: RIVERS 6. LGA EMCHUA
7 December 1 - 11: 17 . 11 . 17 . 19 . 19 . 19 . 19 . 19 .	21:12
8. Asset Owner/Hub THE SHELL PE	TROLEUM DEVELOPMENT COMPANY
OF NIGERIA LIM B. INCIDENT INFORMATION:	TROLEUM DEVELOPMENT CEMPANY ITED (SPOC)/PIPELIME
9. Details of incident a. Date Reported: QND DECE-MBEA	,2020
b. Start date/time of Investigation: 3 PD DEC	LEMBER, 2020 1500HRS L, 2020 Day(s) on site: ONE (1) DAY
d. Description of spill point environment	Bay(s) on site.
☐Firm soil ☐Loose	soil Recently excavated area
☐Under water ☐Swamp	도 있다면 해가 있는 경기에서 가장 하면 보고 있다면 보고 있다면 보고 있다면 하는데 되었다면 하는데
□Well Platform (on water) □Drill R	ig Sand bag(s)
Additional observations around the spill point:	APPLICABLE
발표를 맞게 되는 그 그리고 가는 그 그리고 있다. 그리고 한다.	APPLICABLE
NOTA	Rough-edge hole Hack saw cut
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture	☐ Rough-edge hole ☐ Hack saw cut ☐ Well head tampering
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture Failed Weld-on illegal hot tap valve	☐ Rough-edge hole ☐ Hack saw cut ☐ Inward dent, ☐ Well head tampering ☐ Failed Clamp, ☐ Missing Pipeline/Flowline
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture	☐ Rough-edge hole ☐ Hack saw cut ☐ Well head tampering
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) point,	□ Rough-edge hole □ Hack saw cut □ Inward dent, □ Well head tampering □ Failed Clamp, □ Missing Pipeline/Flowline □ Saver-pit over flow □ Third party tampering with Clamp □ Bulging Outward □ Third party tampering with flange, □ Cold vent □ Surge vessel overflow,
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture 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	□ Rough-edge hole □ Inward dent, □ Failed Clamp, □ Saver-pit over flow □ Bulging Outward □ Hack saw cut □ Well head tampering □ Missing Pipeline/Flowline □ Third party tampering with Clamp □ Third party tampering with flange,
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) point, Third party tampering with valve setting Flare System/Bund wall failure	□ Rough-edge hole □ Hack saw cut □ Inward dent, □ Well head tampering □ Failed Clamp, □ Missing Pipeline/Flowline □ Saver-pit over flow □ Third party tampering with Clamp □ Bulging Outward □ Third party tampering with flange, □ Cold vent □ Surge vessel overflow,
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture 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 () Others (specify)	□ Rough-edge hole □ Hack saw cut □ Inward dent, □ Well head tampering □ Failed Clamp, □ Missing Pipeline/Flowline □ Saver-pit over flow □ Third party tampering with Clamp □ Bulging Outward □ Third party tampering with flange, □ Cold vent □ Surge vessel overflow, □ Relief valve failure □ Accidental 3 rd party equipment impact
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture 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 () Others (specify)	□ Rough-edge hole □ Hack saw cut □ Inward dent, □ Well head tampering □ Failed Clamp, □ Missing Pipeline/Flowline □ Saver-pit over flow □ Third party tampering with Clamp □ Bulging Outward □ Third party tampering with flange, □ Cold vent □ Surge vessel overflow,
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture 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 () Others (specify) f. Incident caused by: Third party interference (Sabotage \(\Pi \); crude	□ Rough-edge hole □ Hack saw cut □ Inward dent, □ Well head tampering □ Failed Clamp, □ Missing Pipeline/Flowline □ Saver-pit over flow □ Third party tampering with Clamp □ Bulging Outward □ Third party tampering with flange, □ Cold vent □ Surge vessel overflow, □ Relief valve failure □ Accidental 3 rd party equipment impact

*This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal Version 2020/01

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment);

Blue (Host Community)

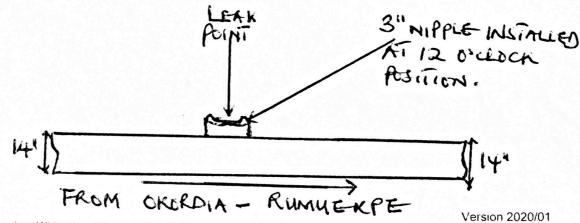
0596

INCIDENT NO: 2799487 JIV report S/N:

	Northing:	145 84 LAT		Easting:	LON	G
	4	.9941:	32	6.6	6879	27
		/			/	
Sk	(ASSESSMENT					
0.	Details of Enviro	onment				
	Type of envi	ronment where s	spill occurred (se	elect one):		
	Land	Swamp	□Water	Seasonal sw	amp	Shoreline/Waterfront
	Type of envi	ronment to which	ch oil has spread			
	Land	Swamp	□Waterbody	(specify)		
i.	Weather cor	dition				
	Dry	□Wet	□Windy	□Hot		
ı.	Distance to Sens	itive habitat with	hin 100m radius			
	☐ Drinking wa ☐Surfac ☐ Built up Are	ter source e water Bo ntial Area Co	ignated protected a prehole promercial/Industrial	(,m] ,m] ,m] ,m] ,m] ,m]	NONE SER WITHIN VIUNII
2.	Containment mea					
	□Booms □1	rench Dyke	☐ Pit ☐ Natu	ral depression 🔲	None	
	Others:					
3.	Any pictures or vi	deo coverage?		[1]	1]	
				? [4]		

INCIDENT NO: 2799487 JIV report S/N. 2596

15. Was there any disruption to the investigation? [Y]
yes to item 15 give brief description:
NOT APPLICABLE
16. Was JIV delayed? [Y]
Reason(s): Delayed Community Access Approval Security Challenges Access constraint due to terrain Others (specify) NOT APPLICABLE
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 17. Structures / Properties
N Type of Structures Description Size Number Comments
NONE WITHIN AREA OF IMPACT
18. Crops/Economic Trees Normal
I PALM TREE 2 NOS NONE 3NOS IMPACIED
19. Fish/Nets/Ponds
S/N Fish/Nets/Ponds Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
20. Others (Specify) e.g. Animal Traps S/N Others Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained
HAPPIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained to the leak report, overview sketch of the site should be added as appendix 1) A SECTION 14" EXCLOSUME KPE PELINE AT RUMUEKPE SHOWING A 3" NIPPLE
WTALLED AT 12 OPLLOCK POSITION BY UNKNOWN FERSONS
POINT 3" NIPPLE INSTALLED
AT 12 o'clock



Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment), Blue (Host Community) Page 3 of 8

INCIDENT NO: 2799487 JIV report S/N: 0596

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

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

84
Easting LorGn 486
6.66865
6.66871
6.668792
6.668739
6.668713
6.668518
6.668517
6.668399
6.66829
6-668193
6-667415
6667415
6.666963
6.667281
6.667936
6.668071
6.668354

INCIDENT NO: 2799487JIV report S/N: 0596

G. INCIDENT INFORMATION:

Total calcu	lated area of impact (Ha)	·OHa	
Impact with	hin SPDC R.O.W		
	side SPDC R.O.W 7ES		
	if area is $\geq 100 \text{ m}^2$ or to 4 decimal places if ar	ea is < 100 m² (e.g. 14.55,	0.0051, 0.0009)
Volume of oil recov	vered before completion of JIV (Vrec		
	Recovered oil V _{recJ} :	NIL	Barrels
Controlled recovery/e	vacuation from source with no impact	to environment:	
	NIL Barrels		
4220	illed Volume $V_{Est}(bbls)^* = 71.5$ $me^{**} V_{rep}(bbls) = 72 34$	SO BARREL	4
timated Reported Volu	me** V _{rep} (bbls)= 72 BA	RRELS	\
es: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	\$
timated Reported Volu es: Volume estimation was a Reported spilled volume	me** Vrep(bbls)= 72 BAR	RRELS ils on the calculation)	<u> </u>
timated Reported Volu es: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	<u></u>
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	\$
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	<u></u>
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	\$
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils on the calculation)	<u></u>
tes: Volume estimation was a Reported spilled volume	me** V _{rep} (bbls)= 72 BAA done using an excel based tool (see attached for detains an estimate	RRELS ils 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^3 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.

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.

Version 2020/01

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

Page 5 of 8

INCIDENT NO: 2799487 JIV report S/N:0596

d. General Status of the si	it	•	the	of	atus	Si	General	d.
-----------------------------	----	---	-----	----	------	----	---------	----

- 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

V

e. Representatives

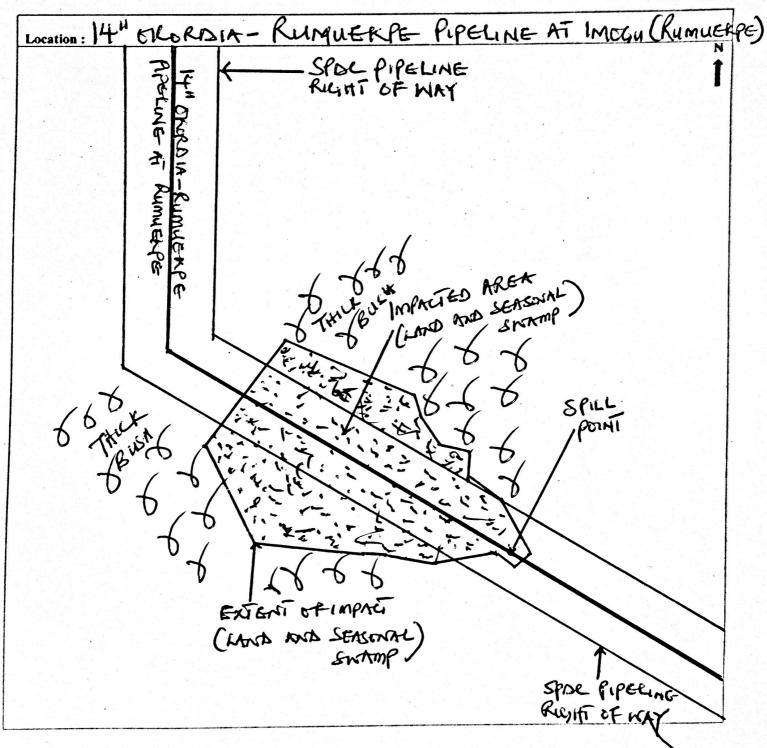
This report was filled, agreed and signed by the following joint investigation team representatives:

- 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

INCIDENT NO: 2799487 JIV report S/N9596

f. Appendix 1: Overview sketch of the site



Version 2020/01

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

Page 7 of 8