INCIDENT NO: 28 29 256 JIV report S/N:

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

A. GENERAL INFORMATION:	2
1. Fountain Incident Number: 2829256 2. Type of in	cident* OIL SPILL
3. Name of Location 18" ASSA - RUMUEK PE 17,	PELINE
3. Name of Location 18" ASSA - RUMUEK PE 17 ELELE ALIMINI 5. State: RIVERS	6. LGA EMOHUA
7. Production Facility/Installation CRUDE OIL PIPCLIF	ue
8. Asset Owner/Hub THE SHELL PETROLEUM DE	LELOPMENT COMPANY
8. Asset Owner/Hub THE SHELL PETROLEUM DER B. INCIDENT INFORMATION: DF NIGERIA LIMITED	PAPELINE
9. Details of incident a. Date Reported: 9TH JAMUARY 2021 b. Start date/time of Investigation: 10TH JAMUARY 202 c. Investigation End date: 10TH JAMUARY 2021 Day(s) 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	□Sand bag(s)
Additional observations around the spill point:	
MOT APPLICABLE	
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture Failed Weld-on illegal hot tap valve Third party tampering with valve setting Flare System/Bund wall failure Valve Failure Tear (☐ Hack saw cut ☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange, ☐ Surge vessel overflow, ☐ Accidental 3 rd party equipment impact
f. Incident caused by: ☐ Third party interference (Sabotage □; crude theft □; Line theft □; Acc □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	ccidental 3 rd party damage □)

*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)

INCIDENT NO: 2829256 JIV report S/N:

g. Sp	ill Point Coordinate	es (* $Incidents \le 1$)	00m apart to be agg	regated into one Joint Investigation Report)
h. Me	easuring unit		145 8	4
	Northing:			Easting:
¥	5.05	520		6.70306
	L			
C. RISK	ASSESSMENT		8	
10. I	Details of Environ	ment		
i.	Type of enviro	nment where sp	oill occurred (selec	t one):
	Land	□Swamp	□Water	Seasonal swamp Shoreline/Waterfront
ii.	Type of enviro	nment to which	oil has spread:	
j	Land	□Swamp	□Waterbody (spe	ecify)
iii.	Weather condit	tion		*
B	⊅ Dry	□Wet	□Windy	☑Hot
11. D	istance to Sensitiv	ve habitat within		
, V	☐ Drinking water ☐ Surface water ☐ Built up Area ☐ Residential ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net	source ater	nated protected area hole mercial/Industrial Area	[,m] NOME SEEM [,m] WITHM VICIMITY [,m] [,m] [,m] [,m] [mppmted
		10 100	Tradicki,	epression Done
	Others:	CII LI Dyke L	J Pit WINatural d	epression LINone
13. An	y pictures or video	coverage?	in .	(X) [N]
14. Fı	arther response/repa	air initiated as at t	the time of JIV?	[N]
f yes to item REP	14, give brief descrip	~	IPIMG CO	IMPI ETEN
REC	ONERY	ACTIVI	11es 0	MGOINEG.
	100	0.5 44 75 60 35 36 36 36		

INCIDENT NO: 2829256 JIV report S/N: 0748 15. Was there any disruption to the investigation? [Y] If yes to item 15 give brief description: Reason(s): ☐ Delayed Community Access Approval ☐ Security Challenges Access constraint due to terrain Others (specify) MOT D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 17. Structures / Properties Type of Structures Description Size Number Comments: 18. Crops/Economic Trees S/N Type of crops Young Medium Matured : 3 Quantity Comments PALM TREE SIX IMPACTED PLAMAIM Thio BY SPILL 19. Fish/Nets/Ponds S/N Fish/Nets/Ponds Description ... Quantity/Size | Comments 20. Others (Specify) e.g. Animal Traps S/N Others Description Quantity/Size Comments 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) OF 18" ASSA - RUMUEICPE PIPELING AT ELELE ALIMINI SHOWING CRUDE 012 THEFT POINT INSTALLED AT DERSON LEAR POINT FROM ASSA TO RMMUCKPE Version 2020/01 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community) Page 3 of 8

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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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	The state of the s	4
<u> </u>		

1 401	1 - E	=	B' 1'	C = 1 - 1 1 1 1
JIV along 18"	Assa to	Kumuekpe	a Pipeline a	t Elele Alimini

ious 19	W229 IO VI	illinekhe Lih	emic at Li			
_ISD L	AT	LONG		PNT_ISD	LAT	LONG
1	5.05613	6.70314		28	5.05467	6.70314
2	5.05609	6.70314		29	5.05464	6.7031
3	5.05606	6.70313		30	5.05464	6.70307
4	5.05594	6.70309		31	5.05454	6.70305
5	5.05588	6.70311		32	5.05452	6.70304
6	5.05592	6.70315		33	5.05452	6.70303
7	5.05594	6.7032		34	5.05463	6.70305
8	5.05591	6.70321		35	5.0548	6.70304
9	5.05582	6.70324		36	5.05481	
10	5.05576	6.70321		37	5.05494	6.70303
11	5.05569	6.70319	11	38	5.05501	6.70304
12	5.05566	6.70321		39	5.05507	6.703
13	5.05559	6.70321		40	5.05515	6.70298
14	5.05555	6.7032		41	5.0553	6.70298
15	5.0555	6.70321		42	5.05544	6.70305
16	5.05542	6.7032		43	5.05552	6.70303
17	5.05535	6.70319		44	5.05561	6.70299
18	5.05528	6.70319		45	5.0557	6.703
19	5.05524	6.70317		46	5.05586	6.70302
20	5.05517	6.70318		47	5.05588	6.70296
21	5.05511	6.7032		48	5.05593	6.70296
22	5.05501	6.70319		49	5.05591	6.70301
23	5.05492	6.70318		50	5.05592	6.70305
24	5.05488	6.70315		51	5.05598	6.70309
25	5.05486	6.70316		52	5.05608	6.7031
26	5.05478	6.70316		53	3 5.05612	6.70311
27	5.05474	6.70317		SP	5.0552	6.70306

Jam 1.

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G. INCIDENT INFORMATION: a. Impacted Area Details * Total calculated area of impact (Ha) Impact within SPDC R.O.W Impact outside SPDC R.O.W * Round off to 2 decimal places if area is \geq 100 m^2 or to 4 decimal places if area is < 100 m^2 (e.g. 14.55, 0.0051, 0.0009) * Express in Hectares (Ha) b. Volume of oil recovered before completion of JIV (VrecJ): Recovered oil Vreel Barrels Controlled recovery/evacuation from source with no impact to environment: Barrels Net Estimated Spilled Volume Vest(bbls)* = 148 87 BARRELS Estimated Reported Volume** Vren(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 volume estimation or cause of spill: JOI APPLICABLE 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 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 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 = 0.1 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	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 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

