INCIDENT NO: 2903033 JIV report S/N:0000829

(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: 2903033 2. Type of incident* OIL SPILL 3. Name of Location 18" ASSA - RUMUEKPE PIPELIME

ELELE ALIMINI

5. State: RIVERS 6. LGA EMOHUA 7. Production Facility/Installation CRUDE OIL PIPELINE 8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY OF B. INCIDENT INFORMATION: NIGERIA LIMITED / PIPELIME 9. Details of incident
a. Date Reported: 30 MARCH 2021
b. Start date/time of Investigation: 31 MARCH 2021 / 13:45 HRS c. Investigation End date: 15T APRIL 2021 Day(s) on site: Two DAYS d. Description of spill point environment Loose soil ☐Firm 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: APPLICABLE e. Description of leak point (tick as applicable); ☐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 3rd party equipment impact ☐ Tear (Others (specify) f. Incident caused by: Third party interference (Sabotage □; crude theft □; Line theft □; Accidental 3rd party damage □)

Others (including Mystery spills)

Operational

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

000829

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	Northing:			Easting:
	5.09	5388		6.70296
RISI	K ASSESSME	NT	7	
10.	Details of Env	rironment		
i.	Type of er	vironment where	spill occurred (se	elect one):
	Land	□Swamp	□Water	Seasonal swamp Shoreline/Waterfront
ii.	Type of er	vironment to whi	ch oil has spread	
	Land	Swamp	□Waterbody	(specify)
iii.	Weather c	ondition		
	□Dry	Wet	□Windy	□Hot
11.	Distance to Se	nsitive habitat wit	hin 100m radius	
	□ Drinking v □Surfi □ Built up A	ace water Borea rea dential Area Core /Pond t	ignated protected a prehole pmmercial/Industrial	i mi NOME SEEM
12. (Containment me	asures put in place:		
	□Booms □	Trench Dyke	Pit Natu	ral depression None
	Others:			
13. <i>A</i>	Any pictures or	video coverage?		[N]
14.	Further respons	e/repair initiated as	at the time of JIV?	[N]
		lescription:		

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15. Was there any disruption to the i	nvestigation?	[Y]	W	, , , , , , , , , , , , , , , , , , , ,
16 Was IIV 1-1- 10	3LE			Section 2
Reason(s): Delayed Community Access Appro		rity Challenges	☐ Access con	straint due to terrain
D. TYPE/NUMBERS OF PROPERTION17. Structures / Properties	ES, IF ANY, F	OUND WITHIN	THE AREA O	F SPREAD OF OIL
S/N Type of Structures Description	n Size	Number	Com	ments
AVAE MITHIAL	ARE	DE	IMP	201
18. Crops/Economic Trees	4		11017	101
S/N Type of crops Young PALMIREE	Medium	Matured	Quantity	Comments
			12	IMPACTED BY STIL
19. Fish/Nets/Ponds				
S/N Fish/Nets/Ponds Description		Quantity/Size	Comments	
NONE WITHIN	AREX	+ OF	MP	-09
20. Others (Specify) e.g. Animal Traps S/N Others Description			(/ 1///	V /
S/N Others Description		Quantity/Size	Comments	
MONE MUHIN	ARE	A Of	- 1/4/	1101
E. GRAPHIC DESCRIPTION OF LEAK PO in the leak report, overview sketch of the site sho	INT (while deta	iled description o	f the leak point si	hould be contained
10m 0+ 18" ASSA-Run	TUBICPE	PIPELIN	ENTO	0.0 41
TIMEL PARTIDAL M	012	VICE	OHITS IN	STALLED AT
2010	ouldary m	M perso	nis	7()
	ON PIPE	øk.		
K POINTS CONM	ECTION			
2" 1	BALL	*	1001 0	
	HLVE -	yes -	LEAK P	oinis
(12.4 M	SERS	DEL		^
				18"
ROM ASSA TO RUMU	EKPE.			V
tribution of copies : White (Asset Owner); Pink (DPR)	Green (NOSDRA e 3 of 8); Yellow (State Min	Ve listry of Environmen	ersion 2020/01 nt);

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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
	A .	1
	12)
	(X)	(
9.	A	
		N
1	(x)	
	P	
		*
+		

JIV ALONG 1	8" ASSA TO	RUMUEKPE	PIPELINE AT ÉLELE AI	IMINI FID: 2	903033
PNT ID L	ONG I	.AT	PNT_ID	LONG I	_AT
- 337	6.70301	5.05381	380	6.7036	5.05331
338	6.70302	5.05389	381	6.70365	5.05334
339	6.70298	5.05389	382	6.70367	5.05331
340	6.70296	5.05384	383	6.70355	5.05316
341	6.70294	5.05385	384		
342	6.70295	5.05402	385	6.70351	
343	6.70299	5.05405	386	6.70338	5.0533
344	6.70307	5.05396	387	6.70331	5.05324
345	6.70327	5.05394	388	6.70339	5.05314
346	6.70326	5.05399	389	6.70345	5.05313
347	6.70339	5.054	390	6.70345	5.05308
348	6.70351	5.05402	391	6.70346	5.05293
349	6.70355	5.05402	1	6.70348	5.0529
350	6.70359	5.05402	2	6.70353	5.05283
351	6.70361	5.054	3	6.70346	5.05282
352	6.70362	5.05396	4	6.70328	5.05274
353	6.70358	5.05393	5	6.7033	5.05284
354	6.70357	5.05389	6	6.70333	5.0529
355	6.70355	5.05389	7	6.70336	5.05291
356	6.70348	5.05393	8	6.70339	5.05309
357	6.70349	5.05382	9	6:7033	5.05309
358	6.70344	5.05378	10	6.70322	5.05315
359	6.70338	5.05377	11	6.70312	5.0531
360	6.70333	5.05378	12	6.703	5.05316
361	6.70333	5.05372	13	6.70301	5.05324
362	6.70339	5.05371	14	6.70298	5.05325
363	6,70339	5.05361	:15	6.70294	5.05333
364	6.70341	5.05359	16	6.70284	5.0533
3.65	6.70341	5.05353	17	6.70284	5.05335
366	6.70335	5.05355	18	6.70289	5.05339
367	6.70332	5.05365	19	6.70288	5.0534
368	6.70331	5.05368	20	6.70283	5.05342
369	6,70324	5.05361	21	6.70286	5.05347
370	6.70316	5.05364	22	6.70289	5.05359
37.1	6.70314	5.05359	23	6.70296	5.05363
372	6.70324	5.05349	24.	6.703	5.05363
,373	6.70326	5.05352	25.	6.70301	5.05371
374	6.70329	5.05349	26	6.70305	5.05382
375	6.70327	5.05343		/2/	حاب _
376	6.70339	5.05335	4	Her	
377	6.7035	5.0534		1	
378	6.70357	5.05337			
379	6.70355	5.05332			

 INCIDENT INFORMATION: a. Impacted Area Details * Total calculated area of impact (Ha)	0051, 0.0009)
 Total calculated area of impact (Ha) Impact within SPDC R.O.W Impact outside SPDC R.O.W Jound off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0 pages in Hectares (Ha) Volume of oil recovered before completion of JIV (VrecJ): Recovered oil VrecJ:	0051, 0.0009)
 Impact within SPDC R.O.W Impact outside SPDC R.O.W ound off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0 xpress in Hectares (Ha) Volume of oil recovered before completion of JIV (VrecJ): Recovered oil VrecJ:	0051, 0.0009)
• Impact outside SPDC R.O.W	0051, 0.0009)
Found off to 2 decimal places if area is $\geq 100 \text{ m}^2$ or to 4 decimal places if area is $< 100 \text{ m}^2$ (e.g. 14.55, 0.0 express in Hectares (Ha) Volume of oil recovered before completion of JIV (V_{recJ}): Recovered oil V_{recJ} :	
Nolume of oil recovered before completion of JIV (VrecJ): Recovered oil VrecJ: 6.7	0051, 0.0009)
Recovered oil V _{recJ} : 69	
Recovered oil V _{recJ} : 69	
	15 :
	Barrels
Controlled recovery/evacuation from source with no impact to environment: MIL Barrels	
MIL Baileis	
c. Net Estimated Spilled Volume V _{Est} (bbls)* =	
timated Reported Volume** Vrep(bbls)= 223 BARRELS	Ls
imated Reported Volume** V _{rep} (bbls)=	
223 BARRELS	
28:	
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:	
NOT ADDICABLE	
MUINTILLUNDLE	

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Blue (Host Community)

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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 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

1

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

