INCIDENT NO: 2820 444 JIV report S/N:

0741

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

GENERAL INFORMATION:
Fountain Incident Number: 2820444 2. Type of incident* O12 SP122
Name of Location 18" ASSA - RUMINETERF PIPELINE
Name of nearest community OCHIA 5. State: 1MO 6. LGA OHAJI-EGBENGA
Production Facility/Installation CRMDE OIL VIPELINIE
Asset Owner/Hub HE SHELL PETROLEMA DEVELOPMENTI COMPAN
INCIDENT INFORMATION: OF MIGERIA LIMITED / PIPELINE
Details of incident a. Date Reported: 2914 DECEMBER, 2020 b. Start date/time of Investigation: 3157 DECEMBER 2020 / 12:05 HRS c. Investigation End date: 317 DECEMBER 2020 / 12:05 HRS d. Description of spill point environment Firm soil Zhoose soil Zhecently excavated area. Under water Swampy Exposed pipe surface Zhand bag(s) Additional observations around the spill point: BLACI POLYTHEME MATERIAL WIAS OBSERVED.
e. Description of leak point (tick as applicable); 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 Cothers (specify) Enough-edge hole Rough-edge hole Inward dent, Well head tampering Missing Pipeline/Flowline Third party tampering with Clamp Cold vent Surge vessel overflow, Accidental 3rd party equipment impact
f. Incident caused by: ☐ Third party interference (Sabotage ☐; crude theft ☐; Line theft ☐; Accidental 3 rd party damage ☐) ☐ Operational ☐ Others (including Mystery spills)

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

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g	. Sp	ill Point Coordinate	es (*Incidents <u><</u> 10	00m apart to be aggi	regated into one Join	nt Investigation Report	A.
h	. M	easuring unit		1265 8	3-10 3-10	" Investigation Report	,
	20	Northing:	ATTOOP	Design and account to the second	Faction	NGITUDE	
		5-	34582		6.70	1467	
					-	1700	
). F	RISK	ASSESSMENT					
		Details of Environ	ment	8			
i				ill occurred (selec	t one):		
		Land	□Swamp	□water	Seasonal swamp	Shoreline/Wate	erfront
i	i.	Type of enviro	onment to which	oil has spread			
		Land	Swamp	□Waterbody (spe	ecifia		
i	ii.	Weather condi		(opt			
		Dry	□Wet	□Windy	Hot		
1	ı. D	V Distance to Sensiti			#HOT		st
		Government re Drinking water Surface w Built up Area Residentia Farmlands Fish Farm/Pone Fishing net Others (specify ontainment measure	served and design source Tater Borel Al Area Common	nated protected area hole mercial/Industrial Area	[,m]	Monle S Walistan	TICIMIT
		Others:					<u> 10 </u>
13	. Aı	ny pictures or video	coverage?	e e e e e e e e e e e e e e e e e e e	[N] [N]		2
14	. F	urther response/rep	air initiated as at	the time of JIV?	[N]		- 20
res to	item E	14, give brief description 14, give brief descri	ption: AND G.	REPAI	2 ACTIVI	TIES A	RE

INCIDENT NO: 28204411 JIV report S/N. 9741 15. Was there any disruption to the investigation? [Y] If yes to item 15 give brief description: Reason(s): Access constraint due to terrain **DOthers (specify) NOT APPLICABLE 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 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)
TION OF 18" ASSA— RUMUERPE PIPELIME AT OCHIA 2" PPE COMERCIE CASTED AREA 21 BALL VALVE RUMUEKPE Version 2020/01 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment):

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Blue (Host Community)

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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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	APPEND	IX A
18" A	SSA-RUMUEKPE TE	RUNKLINE AT OCHIA
	INCIDENT NUMB	ER:2820444
POINT	LONGITUDE	LATITUDE
1	6.79488	5.34682
2	6.79486	5.34669
3	6.79483	5.34673
4	6.79477	5.34666
5	6.79476	5.34637
6	6.79466	5.34615
7	6.79459	5.34581
8	6.79465	5.34579
9	6.79462	5.34572
10	6.79455	5.34547
11	6.79455	5.34529
12	6.7945	5.34512
13	6.79444	5.34508
14	6.79447	5.345
15	6.79433	5.34459
16	6.79424	5.3441
17	6.79414	5.34371
18	6.79412	5.3437
19	6.79405	5.34346
20	6.79404	5.34339
21	6.79406	5.34339
22	6.79425	5,34404
23	6.79459	5.34534
24	6.79474	5.34591
25	6.79492	5.3468
sp	6.79462	5.34582



•

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	' ' /	
G. INCIDENT INFORMATION:		

a. Impacted Are	ea Details *	
• Total	al calculated area of impact (Ha) 6.25Ha	
• Impa	act within SPDC R.O.W	
	act outside SPDC R.O.W NO	
	places if area is $\geq 100 \text{ m}^2$ or to 4 decimal places if area is $\leq 100 \text{ s}$.	n² (e.g. 14.55, 0.0051, 0.0009)
b. Volume of oil	recovered before completion of JIV (VrecJ):	
 - -	Francisco de Calabrata de Calab	8 Barrels
Controlled recov	very/evacuation from source with no impact to environ	
	M/L Barrels	
c. <u>Net Estimate</u>	ed Spilled Volume V _{Est} (bbls)* =	
	170.68 BARREI	<u>\$</u>
Estimated Reported	$Volume^{**} V_{rep}(bbls) = 1712.4026$	· ·
	I I WINNE	<u>~</u>
Notes: • Volume estimation	n was done using an excel based tool.(see attached for details on the calci	i a i
<u>Reported spilled vi</u>	volume is an estimate	uation)
"The other relevant n	notes taken into consideration for volume estimation or cause of spill:	
Mo	TAPPLICAB	LE
		7
minimum of up to parters 12	estimated volume is to be done on site as far as practicable using the new is Volume (m3) x 6.29; **Round up estimated volume to next whole number nexcess of I bbi is rounded up to the next whole number.	spill volume estimation software on site; 2r using the following rules:
 Any spill volume in 	n less than 1 bbl is rounded up to the next 0.1 bbl.	a a
Examples: C	Calculated volume = 15.3 bbl Reported volume = 16 bbl	a *
	Calculated volume = 0.35 bbl Reported volume = 0.4 bbl Calculated volume = 0.01 bbl Reported volume = 0.1 bbl.	
herever this estimation tool i	is not applicable please refer to paragraph 6c (Deviations) of the JIV production in a plain sheet of paper and attach to the JIV report.	cedure to use appropriate steps for colum

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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 a 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	10

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
- ullet Separate SME form has been filled out with same findings $oxdit{\Box}$

Tick as applicable

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f. Appendix 1: Overview sketch of the site

Location: 18" ASSA-RUNGUEKPE PIPELINE AT OCHA.
, , , , , , , , , , , , , , , , , , ,
18" ASSA-RUMINEROPE
PIPELIME /
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 / ///////////////////////////////////
3 PILL POINT
LIGHT BUSH
RIGHT OF WE
EXTENT OF IMPACT
TIMPACT

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