INCIDENT NO: 2679887 JIV report S/N:

0644

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

A. G	ENERAL INFORMATION:			
l. Fo	ountain Incident Number: 2679	887	2. Type of in	cident OIL SPILL
3. Na	ame of Location 12" IMO	RIVE	R1 - OGALI	PIPELINE
	ame of nearest community UMUOL			
	oduction Facility/Installation		IL PIPELIN	
8. As B. IN	OF NIGERIA OCIDENT INFORMATION:	PETRO	DLEUM DEVEL LTED (SPDC)	OPMENT COMPANY PIPELINE
a . b. c.	Start date/time of Investigation: 3p Investigation End date: 3p Description of spill point environmen	D JULY 2		on site: ONE (1) DAY
		Loose s	oil	Recently excavated area
	Under water	□Swampy □Drill Ri	y	☐Exposed pipe surface ☐Sand bag(s)
e.	Description of leak point (tick as appl Smooth round-edge hole Complete Rupture Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering) Third party tampering with valve s Flare System/Bund wall failure Valve Failure Tear (Others (specify)	point, setting	Rough-edge hole Inward dent, Failed Clamp, Saver-pit over flow Bulging Outward Cold vent Relief valve failure	☐ 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
¢.	Incident caused by: Third party interference (Sabotage Departional Others (in			cidental 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

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Blue (Host Community)
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g.	Spi	Il Point Coordina	ates (*Incidents <u><</u> I	00m apart to be ag	gregated into or	ne Joint I	nvestigation Report)	
h.	Me	leasuring unit WMS 84			4	f		
		Northing:			Easting:			
		4.0	16970	-	7.18	153	30	
					1	_		
C, R	IISK	ASSESSMEN	т					
1	0. I	Details of Envir	ronment					
i		Type of env	ironment where s	spill occurred (sele	ect one):			
		Land	Swamp	□Water	Seasonal	swamp	Shoreline/Waterfrom	
i	i.	Type of env	vironment to which	ch oil has spread:				
		Land	Swamp	□Waterbody (s	pecify)			
i	ii.	Weather co	ondition					
		□Dry	₩et	□Windy	□Hot			
1	11. I	Distance to Sen	sitive habitat with	hin 100m radius				
		☐ Drinking w☐Surfac☐ Built up Ar	vater source ce water Bo rea ential Area Co	ignated protected are rehole ommercial/Industrial A	[[,m] ,m] ,m] ,m] ,m]	NONE SEEN WITHIN VICINITY	
1	12. (Containment mea	sures put in place:					
		□Booms □	Trench Dyke	☐ Pit ☐ Natura	l depression	None		
		Others:						
1	3. A	Any pictures or v	ideo coverage?		[*/			
1	14.	Further response	e/repair initiated as	at the time of JIV?	141	[N]		
If yes	to ite	em 14, give brief d SPI	escription:	ERYLREPA	irs by	CLAN	MPING	

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15. Was there any disruption to the investigation? [Y] [Y] [Y]	
NOT APPLICABLE 16. Was JIV delayed? [Y] [N)	
Reason(s): NOT APPLICABLE Delayed Community Access Approval	ain
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF O	— IIL
S/N Type of Structures Description Size Number	
Description Size Number Comments	
18. Crops/Economic Trees S/N Type of crops Van	=
Medium Medium	_
Quantity Comments	4
19 FIRM WITHIN AREA OF IMPACT	_
19. Fish/Nets/Ponds S/N Fish/Nets/Ponds Description	J
Pisn/Nets/Ponds Description Quantity/Size Comments	7
20. Others (Specify) e.g. Animal Traps	4
NO Others Description	j
Description Quantity/Size Comments	1
GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained the leak report, overview sketch of the site should be added as appendix 1)	
the leak report, overview sketch of the site should be added as appendix 1) SECTION OF 12" IMO RIVER 1 — OGALE PIPELINE I UMUDLOLO SHOWING 2" BILL DATA THE PIPELINE	
7 C) T () () (
I UMUDIDIO SHOWING 2"BULB VALVE INSTALLED	_
I A 120 CLOCK POSITION BY UNKNOWN PERSON(S)	-
	-
A 2"BUB VALVE INSTALLED AT 1	2 Oc
12"	
IMO RIVER1 TO OGALE	
2001년 2월 2월 1일 전 1일	

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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
265	4.96979	7.18525
1266	4.96974	7·18531 7·18532 7·18523
267	4.96966	7.18532
268	4.96964	7.18523
	/	
-		
1		
-		
1		
	/	

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G. INCIDENT INFORMATION:	

. Impaci	ted Area Det	aile *				
	ted Area Det				100	
	Total calcu	lated area of im	pact (Ha)(2.010	67#	A
•	Impact with	nin SPDC R.O.	w	YE	5	
•	Impact outs	side SPDC R.O	.W	20	See of the	
and off to 2 press in Hec	decimal places				$s < 100 m^2$ (e.g.	14.55, 0.0051, 0.0009)
Volume	e of oil recov	ered before c		·		
	di dia diamenta	acuation from	Recovered o	1.00	5	Barrels
		LNI	Ba	Tels		
Net Es	stimated Spil	lled Volume V	$V_{\rm Est}(\rm bbls)^* =$	6.801	BARRELS	
imated Re	ported Volum	ne** Vrep(bbls)	= 7 RA	RRELS		
s :				,		
		ne using an excel b	ased tool (see attac	hed for details on	the calculation)	
	d spilled volume is relevant notes take	en into consideratio	on for volume estim	ation or cause of s	pill:	
					_	
ation of the						
rsion of m to b	barrels is Volume (volume is to be do (m3) x 6.29; **Rou of 1 bbl is roun	ınd up estimated ve	olume to next who	the new spill volum ie number using the	ne estimation software on

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. Examples:

Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JIV procedure to use appropriate steps for col estimation, record the calculation in a plain sheet of paper and attach to the JIV report.

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d. Ge	nerai	Status	01	tne	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	0

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

Location: 12" IMORIVER 1 - OGALE, P.	IPELINE AT UMUOLOLO
688	\~ ~ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
BUSH	1 - x 8
1 2 2 2 1	1~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
12' IMO RIVER 1 - OGALE PIPELINE AT UMUDIDID	Bush -
~ ~ ~	/~ ~ ~
~ ~ ~	\ ~ ~ ~
IMPACTED AREA	SPILL POINT
8 ~ /	OT LECT OTH T
~~	~ ~ ~
Bush	~ ~ ~
8 ~ ~ 8	1 2 1 8 1 1
BOUNDARIES	~ ~ ~ ~
~~~	Bush ~
~ ~ ~ ~ /	~ ~ ~ ~
V	

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