INCIDENT NO: 2676756 JIV report S/N: 0529

(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: 267675	2. Type of in	neident OIL SPILL
3. Name of Location 12" IMO RIVE	R2 - OGAL	PIPELINE
4. Name of nearest community OKOHIA	5. State: ABIA	6. LGA UKWA WEST
7. Production Facility/Installation		
8. Asset Owner/Hub THE SHELL PETE OF NIGERIA LI B. INCIDENT INFORMATION:	ROLEUM DEVE MITED (SPDC)	LOPMENT COMPANY
9. Details of incident a. Date Reported: 30TH JUNE 2020 b. Start date/time of Investigation: 2ND JULY c. Investigation End date: 2ND JULY d. Description of spill point environment	JLY 2020 13:45H	on site: ONE (1) DAY
☐Firm soil ☐Loose	soil	Recently excavated area
□Under water □Swampy		☐Exposed pipe surface
□Well Platform (on water) □Drill	Rig	☐Sand bag(s)
e. Description of leak point (tick as applicable); Smooth round-edge hole Complete Rupture It ailed 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 ; crude) Operational		
☐ Third party interference (Sabotage □; crude		idental 3 rd party damage □)

*This can be: (a) Oil Spill (b) Drilling fluid-Chemical (c) Silvation (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)

0529

INCIDENT NO: 2676756 JIV report S/N:

g. S h. N	Measuring unit	dinates (*Incidents	≤ 100 m apart to be	aggregated ZLL	l into one Join	t Investigation Report)
	Northing:			Eastin	ng:	
	4.9	3163 13160		7.	1846	
C. RISH	K ASSESSME	NT				
10.	Details of Env	rironment				
i.	Type of en	vironment where	spill occurred (sel	ect one):		
	Land	☐ Swamp	□water	Seas	sonal swamp	□Shoreline/Waterfront
ii.	Type of en	vironment to which	h oil has spread:			
	Land	☐ Swamp	□Waterbody (s	pecify)		
iii.	Weather co	ondition				
	Dry	□Wet	□Windy	□Hot		
11. D	istance to Sen	sitive habitat with	in 100m radius			
	☐ Governmen ☐ Drinking wa ☐ Surfac ☐ Built up Are	e water Bore		ı [,m] ,m]	NONE SEEN
	☐ Reside ☐ Farmlands ☐ Fish Farm/P	ntial Area	mercial/Industrial Are	[ea [[,m] ,m] ,m]	WITHIN
	☐ Fishing net☐ Others (spec	ify)		i	(m, (m,	VICINITY
		ures put in place:				
	□Booms □Ti □Others:	ench Dyke	Pit Natural d	epression	□None	
13. Any	pictures or vide	eo coverage?		(X)	[N]	
14. Fu	ther response/re	epair initiated as at t	he time of JIV?	141		
If yes to item 1	4. give brief desc	ription: LRECOVER	RY / REPAI	rs by	CLAMP	ING

TO TO A TION REPORT
INCIDENT NO: 2676756 JIV report S/N: 529
15. Was there any disruption to the investigation? [Y] [Y]
NOT APPLICABLE 16. Was JIV delayed? [Y] BY
Reason(s): NOT APPLICABLE Delayed Community Access Approval
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL.
S/N Type of Structures Description Size Number
18 Crops/Economic Trees Comments Comments
S/N Type of crops Young Medium Matured Quantity Comments
19. Fish/Nets/Ponds FON 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 teak point shows be confising)
A SECTION OF 12" IMO RIVER 2 - OCAL -
A THE THING A NUMBER OF THE WALLES
DELICITION OF UNKNOWN PERSON(S)
2 NOS OF 2 HBULB VALVES INSTALLED AT A 12 O'CLOOK POSITION
4/
12"
IMO RIVERT TO OGALE

INCIDENT NO: 2676756 JIV report S/N:

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	Casting
1	The second secon	7.18465
241	4.93155	7.18464
248	4. 93155	7. 18464
	4.93161	7.18461
		2-18457
251		7. 18454
252		2.18455
253	50115	2. 18452
254	6.210	7.18452
256	7 12 1 8	7.18456
257		7.18460
258	4.53167	7.18464
~>5	7 / /	
1 /	146	

INCIDENT NO: 2676756 JIV report S/N: 0529

. INCIDENT INFORMATION:		
a. Impacted Area Details *		
a. Impacted /// a system		
• Total calculated area of impact (Ha)	28218 HA	
Impact within SPDC R.O.W	1 2 5	
Impact outside SPDC R.O.W	YES	
Round off to 2 decimal places if area is ≥ 100 m ² or to 4 decimal places express in Hectares (Ha)	furea is < 100 m² (e.g. 1455,	0.0051, 0.0009)
b. Volume of oil recovered before completion of JIV (recJ):	
Recovered oil Vreed	44	Barrels
Controlled recovery/evacuation from source with no imp	ict to chivinoliticani	
NIL Barrels		
[]		
NIL Barrels		
c. Net Estimated Spilled Volume V _{Est} (bbls)* = 445	.29 BARRELS	
c. Net Estimated Spilled Volume V _{Est} (bbls)* = 445	.29 BARRELS	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI tes: • Volume estimation was done using an excel based tool (see attached for a Reported spilled volume is an estimate	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI les: • Volume estimation was done using an excel based tool (see attached for a	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI tes: • Volume estimation was done using an excel based tool (see attached for a general spilled volume is an estimate	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI tes: • Volume estimation was done using an excel based tool (see attached for a Reported spilled volume is an estimate	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI tes: • Volume estimation was done using an excel based tool (see attached for a Reported spilled volume is an estimate	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI tes: • Volume estimation was done using an excel based tool (see attached for a Reported spilled volume is an estimate	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI otes: • Volume estimation was done using an excel based tool (see attached for a graph of the stimation).	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI otes: • Volume estimation was done using an excel based tool (see attached for a graph of the stimation).	.29 BARRELS .ELS tails on the calculation)	
c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 45$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI otes: • Volume estimation was done using an excel based tool (see attached for a graph of the stimation).	.29 BARRELS .ELS tails on the calculation)	
c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 45$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI otes: • Volume estimation was done using an excel based tool (see attached for a graph of the stimation).	.29 BARRELS .ELS tails on the calculation)	
NIL Barrels c. Net Estimated Spilled Volume $V_{Est}(bbls)^* = 445$ stimated Reported Volume** $V_{rep}(bbls) = 46$ BARI otes: • Volume estimation was done using an excel based tool (see attached for a graph of the stimation).	.29 BARRELS .ELS tails 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^i 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: 2676756 JIV report S/N:0529

d.	General	Status	of	the	site

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	D/

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

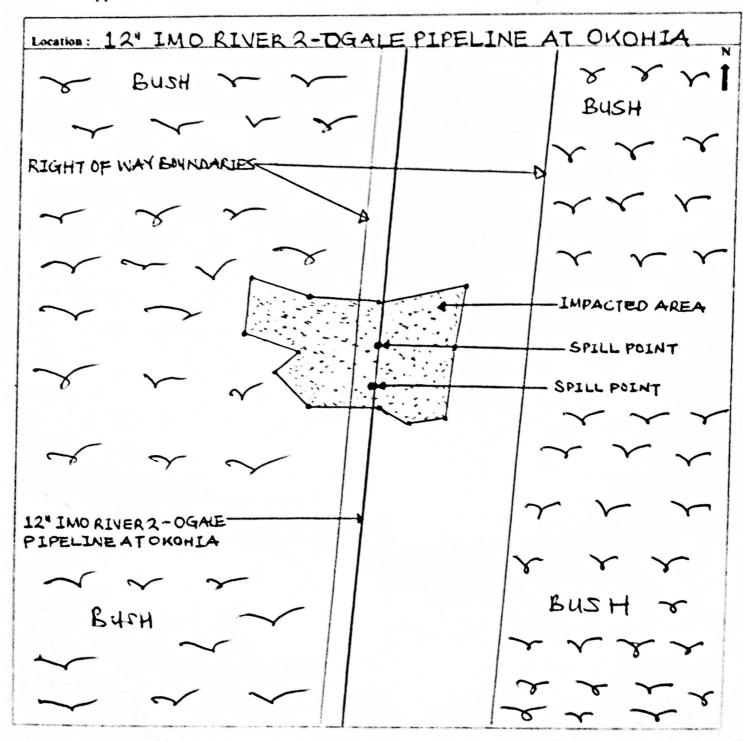
Separate NOSDRA form has been filled out with same findings

Separate SME form has been filled out with same findings

Tick as applicable

INCIDENT NO: 2676756 JIV report S/Nn 529

f. Appendix 1: Overview sketch of the site



Version 2020/01