JOINT INVESTIGATION REPO	ORT FOR INCIDENT NO:	<i>1192317</i> JIV	report S/N: 0554
(Note: As practicable as pos.	sible the JIT report is to be	signed in the field by all the	participating parties)
A. GENERAL INFORMAT	ΓΙΟΝ:		•
1. Spill incident Number: \underline{I}	192317	_ 2.Type of incident*_	ON SPILL
3. Name of Location SA			ROBULTON FACILITY
4. Name of nearest communi	ity5	. State: BAYELSA 6. I	GA NEMBE
7. Type of Production facility	y/Installation FLOW ST	Asset owner/D	istrict SWAMP 2
B. INCIDENT INFORMA	TION:		
9. Details of incident a. Date of incident:	77# JUNE 20	14	120 HOURS
b. Start date/time of in	vestigation: 10 7th Ju	ME 2014: 11	. 20 /10 4/44
c. Investigation End d	ate: 107# June 2014	Actual investigation durat	ion, days Done Day
d. Description of spill			
Firmed soil	Loose so		excavated area
Under water	☐Swampy	- I	pipe surface
M Well-Platform (o	ONCRETE	PRODUCTION TAC	INTY ON WHICK
DOLDAL TIAN A	around the spill point: IT NTA BARBARA TAULITY CLOS RUDE OIL WERE	そり わんみいり (火)	THAT THE OIL SPILL INGE MOBILE IVER EDGES WHERE
e. Description of leak	point (tick as applicable);		
Drilled hole	☐Hack sav),
Complete Ruptur			d tampering
	egal hot tap valve, DFailed C llegal bunkering) point,		Pipeline/Flowline
:	negal bunkering) point, ering with valve setting,	_	rty tampering with Clamp rty tampering with flange,
□Corrosión		Surge ve	
☐Bulging Outward	d □Flare Sys	stem/Bund wall failure	Accidental 3rd party equipment
impact	Valve Failure	com unit failure	□Cold vent
Relief valve failu	ure Others (s	specify)	<u> </u>
f. Incident caused by:			
Third party interfered		ft□: Line theft□: Accident	al 3 rd narty damage∏)
	Cothers (including Mys		and purry curringold)

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire.

Northing:	nit M			Easting:			···
5	778 - 85	9		4	4903	9.02	
	$-\!$					/	
	/				- /	/	
RISK ASSESSMENT	ı					-	
10. Type of	environment:						
□Land [∑ Swamp	☐ Water	□Sea	sonal sw	amp□St	oreline/Wa	terfront
ii. Weather o		□Water	□Riv	er (identi	ify)		JOINTINUE AIN COVER
Rain C	Sunny nearest sensitiv	□Dry ve habitat	⊠ wet	□wi	ndy	□Hot	□cool
☐ Government re ☐ Drinking water ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pon ☐ Fishing net ☐ Others (specify	r source NC	signated protes NE L HM VIC	ctod area	[[[[[,m] ,m] ,m] ,m] ,m]		
2. Containment meast	ures put in plac	ce;					
⊠Booms [Trench	□Dyke	□Nat	ural depr	ession	□Pit	None
3. Any pictures or vid	leo coverage?			[W]	[N]		
4. Further response/r	epair initiated	as at the time	of JIV?	[Y]			
-	cription:	E 01L	Seen	/	/		
to item 14, give brief des	L 1) 1/2						
to item 14, give brief des		evestigation?			[\\]		

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D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

16. Structures / Properties

S/N Type of Structures	Description	Size	Number	Comments
NOT	AP	PLI	CARLO	
	1 1		0 170 700	

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7 1 0	DIC	A 2 i		
	IVU		KIC	ABL	T	-
	<u> </u>					

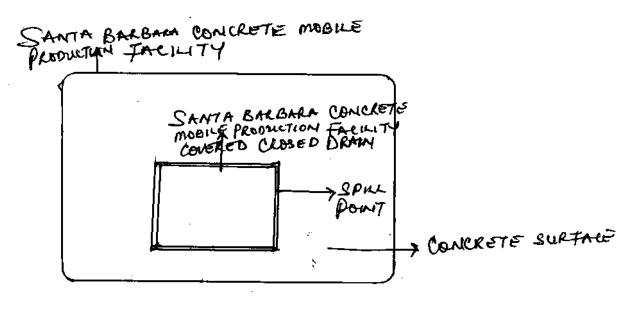
18. Fish/Nets/Ponds

S/N Fi	sh/Nets/Ponds	Description	Quantity/Size	Comments
	NDT	APRII (1 A 10 1	
$\vdash\vdash\vdash$	401	11000		

19. Others (Specify) i.e. Animal Traps

S/N	Others	Description	Quantity/Size	Comments
<u> </u>	1/27	A-PDI IC	ARI.	
	/	11111		
1				

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix 1)



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F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

20. Impacted area boundary Coordinates (If more, Print and attach as an appearance MINNA (M.O-B=LT)	ıdix)
---	-------

	THE PERSON OF TH	<u> </u>
S/N	Northing MINN & CM 10 - E	
	59779·19 59779·18 59778·35 59778·38	449038·49 449039·62 449039·63 449038·48
	59779 • 18	449039.62
	59778 - 35	449039.63
	59778 · 38	449038 48
[
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	<u> </u>	

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20. Impacted Area	Ph 11				
	Details		, ,		
• Total	calculated area of impact	0.00009	3Ha (≥1	m ²)	
• Impac	ct within SPDC R.O.W_	~ (€	<u> </u>		
• Impac	ct outside SPDC R.O.W _		•		
1. Volume of oil r	recovered before compl	letion of JIV (V _{recl})			
	· · · · · · · · · · · · · · · · · · ·	covered oil V _{recJ} :	NIL		Barrels
Controlled recove	ery/evacuation from sou	urce with no impac			<u> </u>
	NIL	Barrels			
	1 7 ,				
					
2. Net Estimated	Spilled Volume V _{En} (1	$\frac{\text{obls}}{\text{obls}} = 0.13$	BARRES		16 18 18
		, -			
				4	
imated Departed V	alument II (LLI) - D	A DAMASIN			1 1 1 1 1 1
imateu Keporteu v	olume** V _{rep} (bbls)=	12 BARREN	3		
			<u></u>		
tes: Volume estimation	was done using an excel based	tool fees attached for det	vile ou the coloulation	ı.	
- L DIMING COTTINGO	olume is an estimate			<i>y</i>	
	es taken into consideration for e	and the second second second second	e hay below:	1 0-	m
		esumaing ine spilled in th	A TisiT A	in intak	J (4) 7025
Write other relevant not	1 01 2000 4-101	WECTICATION	1 からげ ハ	to IMPA	THE MOBILE
ON THE DAY	L C (1) . / w() . A (1) .)	VESTIGATION	I VISIT /	MUCHU /	7. W 1/1 W W 1
ON THE DAY	L C (1) . / w() . A (1) .)	VESTIGATION	I VISIT /	MUCHU /	7. W 1/1 W W 1
ON THE DAY	L C (1) . / w() . A (1) .)	VESTIGATION	I VISIT /	MUCHU /	7. W 1/1 W W 1 - T
Write other relevant note ON THE DAY SEEN ON THE PRODUCTION VISIBLE C	TACILITY. PUOE OIL STA	vestigation its Environ in was see Based on	N VISIT N MENT AR FM ON TH THE INTO	e CONCRI	ETE COVER WITH THE
Write other relevant note ON THE DAY SEEN ON THE PRODUCTION VISIBLE C	TACILITY. PUOE OIL STA	vestigation its Environ in was see Based on	N VISIT N MENT AR FM ON TH THE INTO	e CONCRI	ETE COVER WITH THE
Write other relevant note ON THE DAY SEEN ON THE PRODUCTION VISIBLE C	TACILITY. PUOE OIL STA	vestigation its Environ in was see Based on	N VISIT N MENT AR FM ON TH THE INTO	e CONCRI	ETE COVER WITH THE
Write other relevant note ON THE DAY SEEN ON THE PRODUCTION VISIBLE CL PRODUCTION ANI, AREA	L C (1) . / w() . A (1) .)	VESTIGATION ITS ENVIRON IN WAS SEE BASED ON WITH BARBAR LE METERS (SITH WAS	MENT AREM ON THE INTERMED AND AND AND AND AND AND AND AND AND AN	E CONCRI FR VI FW PRODULT AN ESTIL 1 BY RE	ETE COVER WITH THE TON FACILITY NATED HN ON THE

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^3 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.

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1192317 JIV report S/N:

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A.	Joint investigation of the incident site found that there is no residual impact after the init response and JIT therefore recommend that the site be closed out	ti
В.	Investigation of the incident site showed that there is residual impact on site requiring furt works	h
24.	REPRESENTATIVES	
his r	eport was filled, agreed and signed by the following joint investigation representatives:]
•	Host Community:	
•	Department of Petroleum Resources [DPR]: □	
•	National Oil Spill Detection and Response Agency [NOSDRA]:	
•	State Ministry of Environment [SME]:	
•	Nigeria Police Force [NPF]: □	
•	Shell Petroleum Development Company [SPDC]:	
•	Signatories agree with reported findings:	
•	Separate DPR form has been filled out with same findings 🗖	
	Tick as applicable	

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25. Appendix 1: Overview sketch of the site

