THE SHELL PETROLI	EUM DEVELOPMENT	COMPANY OF NIGERIA LIMTED.	
JOINT INVESTIGATION REPORT FO	R INCIDENT NO: 139	4890 JIV report S/N: 00643	
•	and the second s	the field by all the participating parties)	
A. GENERAL INFORMATION:			
1. Spill incident Number: 1394	890	NU COLL	
		ype of incident* OIL SPILL	
3. Name of Location 20 0Pul	<u> Kushi — Brass</u>	CREEK PIPELINE	
4. Name of nearest community TAT	<u> 10 GBENE</u> 5. State: <u>(</u>	SATELSA 6. LGAEKEREMOR	
7. Type of Production facility/Installa	ation OIL PIPELINE	SAYELSA 6. LGA EKEREMOR 8. Asset owner/District PIPELINES	
B. INCIDENT INFORMATION:			
9. Details of incident 15T M.	47, 2015		
b. Start date/time of investigat	on: 15 TH MAY, 20	15 AT 1615HRS	
c. Investigation End date: 15	"MAY, 2015 Actual	investigation duration, days: 1 DAY	
d. Description of spill point en	vironment		
☐Firmed soil	Loose soil	Recently excavated area	
☐Under water	⊠ Swampy	☐Exposed pipe surface	
☐Well Platform (on Water	•	□Drill Rig	
WAS SEEN WELDED ON O'CLOCK POSITION AND I THE 20" CRUDE OIL PH	U THE 20" OPUKUS T WAS NOT LEAKIN PELINE. THOUGH, TH	IATION, A 4" ILLEGAL HOT TAP Y HI-BRASS CREEK PIPELINE AT 12 G AT THE POINT OF ATTACHMENT ERE WAS OIL SHEEN ON SURFACE WI NNECTED ILLEGAL FLOWLINE.	70
e. Description of leak point (ti	ck as applicable);		
Drilled hole	□Hack saw cut	☐ Tear (
☐Complete Rupture	□Inward dent,	☐Well head tampering	
☐Failed Weld-on illegal hot t	ap valve, 🗖 Failed Clamp	☐Missing Pipeline/Flowline	
☑Crude oil theft (illegal bu	nkering) point,	☐Third party tampering with Clamp	•
☐Third party tampering wi	th valve setting,	☐Third party tampering with flange,	
☐Corrosión	Saver-pit over flo	•	
☐Bulging Outward		nd wall failure	ıt
impact	Failure	Icom unit failure	
☐Relief valve failure	☑Others (specify)	<u>4" WELD-ON ILLEGAL HOT-TAP I</u> AT 12 0'Clock POSITION	UALVI
f. Incident caused by:	7	MT 12 O'CLOCK POSITION	
	otage : crude the ft : Line	theft□; Accidental 3 rd party damage□)	
	here (including Mystery snil		

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

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED.

INT INVESTIGATION REPO	ORT FOR INC	IDENT NO:	1374	<u> 670</u>	JIV repart	s/N: 0	0643	
g. Spill point coording Measuring up	ates	\	N/GS	84				
Northing:	CLATITI	4DE)	<u>, v ., ., .</u>	Easting:		LON CI	TUDE.	
	4.94	191			5.6	3870	5	
		A REAL		4		14		
						1 =====		
C. RISK ASSESSMENT 10. Type of 6	environment:							
	Swamp	□Water	□sc	isonal swa	ımp□Sho	reline/Wate	rfront	
	nvironment to w							
	⊠Swamp		_	21.1atı	e A			
	_	□Water	шки	er (identi:	(Y)			
ii. Weather o	condition							
☐Rain ☐	ISunny nearest sensitive	□Dry habitat	□Wet	□Win	ıdy	□Hot	□cool	
Government re Drinking wate Built up area Farmlands Fish Farm/Por Fishing net Others (specifi	r source	ignated prote	ected area	[[[[,m] ,m] ,m] ,m] ,m]	NON THE	E WIT VICIN	HIN ITY
12. Containment meas	ures put in place	e;						
⊠Booms [Wothers: <u>COF</u>	Itrench <u>ER – D</u> am	□Dyke	□Na	tural depr	ession	□Pit	□ 1	None
13. Any pictures or vic	leo coverage?			W	[N]			
14. Further response/	repair initiated a	s at the time	of JIV?	[Y]	[W]			
If yes to item 14, give brief des	scription: REPA	HR 19	BEING	PLAN	NED !	34 TH	E PIPEL	<u> </u>
MAINTENANCE	TEAM .				•			
15. Was there any disr	uption to the inv	vestigation?		[Y]	NOT			
If yes to item 15 give brief	description: 1	InT	A-001 1	CARI	Ę			
		<u> </u>	· \	<u></u>	<u></u>	<u> </u>		—

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1394890 JIV report S/N: 00643

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
	NONE 1	H-TH-	A-A	REA OF	IMPACT
	7. Crops/Economic Trees				

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
Ĺ						
			1-1/	A-0 - A		Dr CT
			1114			ITTU

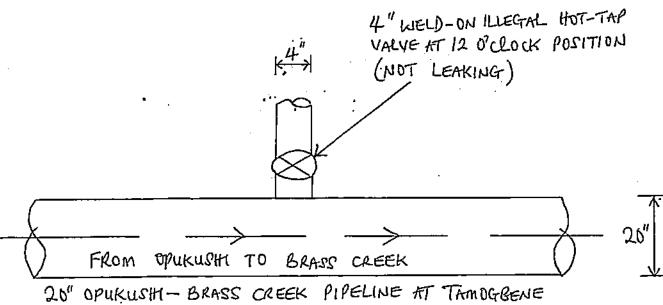
18. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments,
			-	·
		LITIMALA	0 1 1	C MONCT
<u></u>	NUME	MI THIN H	Kt / (IF IMPACT

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

S/N	Others	Description	Quantity/Size	Comments
<u> </u>	 			
	<i>\\ </i>	12117111A1 A	D=A-1	NE-IMPACT
ļ	19 0140	VALUE 1	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)



Page 3 of 8

"

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1394890 JIV report S/N: 00643

F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION 20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

S/N	Northing Northing	Easting
	4:94204	5:68716
	4.9/1.209	5168716 5.68717
<u> </u>	4.91.209	5.68693
	1.94711	5.68694
	1.91100	5-68704
	1 -94192	5-68709
	1.94 189	5-68 706
	4.9419	5.68703
<u> </u>	X = 94.21	5. 68708
	4 712	J- 08700
,		 /
	 	
		
	<u> </u>	
 .		
-		
-		4
i ·		
	 	
	/	<u> </u>
	 /	
		

Calculation of the respective estimated volume is to be done on site as far as practicable using the new split volume estimation software on site;

Conversion of m to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules:

Any split volume in excess of 1 bbt is rounded up to the next whole number.

Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl ------ Reported volume = 0.4 bbl ------ Reported volume = 0.4 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 column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED.

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1394890 JIV report S/N: 00643

23. GENERAL STATUS OF THE SITE

A.	Joint investiga	ition of the inc	ident site for	and that there	is no residual	impact after the initial
	response and J	IT therefore rec	ommend that	the site be clos	sed out 🔲	
	•					
В.	Investigation of	of the incident	site showed t	hat there is res	sidual impact :	on site requiring further
	works	□	•	į		
				•	•	

24. REPRESENTATIVES

This report 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]: 🛇
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings

 ✓

Tick as applicable

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED.

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1394890 JIV report S/N: 00643

25. Appendix 1: Overview sketch of the site

