THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA JOINT INVESTIGATION REPORT (SPDC)

INCIDENT NO: 1465510 JIV report S/N:

Nº 0000041

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

A. GENERAL INFORMATION:		
I. Spill incident Number: 1465510	2.Type of incident*	OIL SPILL / FIRE
3. Name of Location 28" NKPDKU -	-BOMU PIPE	LINE
I. Name of nearest communityG_1_0	5. State: <u>RIVERS</u> 6	LGA GOKANA
7. Type of Production facility/Installation O/L P		
B. Asset owner/District THE SHELL PE	TROLEUM DEV	ELOPMENT COMPANY OF N
B. INCIDENT INFORMATION:		(SPDC
a. Date of incident: 19TH AUGUST, 2 b. Start date/time of investigation: 20TH AUGUST 20 c. Investigation End date: 20TH AUGUST 20 d. Description of spill point environment Description of spill point environment	GUST 2015 / 11 WSActual investigation durate coil F THE TOLNT INV	Recently excavated area Exposed pipe surface
e. Description of leak point (tick as applicable); Drilled hole Complete Rupture 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 Others(specify)		☐ Tear (
f. Incident caused by: Third party interference (Sabotage Crude	theft□; Line theft□; Accide Mystery spills)	ntal 3 rd party damage□)
Operational Others (including	Mystery spins)	

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

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g. Spill point coordinates			
h. Measuring unit LAG	<u> </u>		
Northing: (LATITUSE)	Easting: (LONTLETE	120	
4.69999	7.24618		
		<u> </u>	
		·	
C. RISK ASSESSMENT			
10. Type of environment:			
Land Swamp DWater	Seasonal swamp	Shoreline/V	Vaterfront
i. Type of environment to which oil has s	pread:		
✓ Land □Swamp □Wa	ater		
ii. Weather condition			
Rain Sunny DDry L	☑ Wet □Windy □Hot	Cool	
11. Distance from the nearest sensitive habitat			
☐ Government reserved and designated protection in Drinking water source NONE OBS☐ Built up area ATTHE TIME ☐ Farmlands☐ Fish Farm/Pond INVESTIGATI☐ Fishing net☐ Others (specify).	ERVED AS] OF JONNT[,m]		
12. Containment measures put in place;	A	-/	_
□Booms □Trench ✓	Dyke Natural depression	Pit	□None
Others:			
13. Any pictures or video coverage?	e of JiV? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
14. Further response/repair initiated as at the time	e of JIV? [N]		
If yes to item 14, give brief description: REPAIR BY C	LAMPING		
15. Was there any disruption to the investigation?	[Y] VINT		

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If yes	If yes to item 15 give brief description:						
	NULAPPLICABLE						
	D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties						
S/N	Type of Structi		Description	Size	Number	Comm	ents
<u></u>	IONE	K	ITHIN	J. 741	ARE	AOF	MPACI
1	7. Crops/Econom:	ic Trees		<u> </u>			
S/N	Type of crops	Young		Medium	Matured	Quantity	Comments
	PALM TREE	<u>n</u>		1	\	<u> </u>	BORN
1	8. Fishing Nets/Fi	ish Ponds	S				
S/N	Nets/Ponds		Description		Quantity/Size	Comments	-
-	16 41	1.18-	Tive	$\overline{I_{i}} = \lambda$		<u> </u>	
Δ	IDNE	WI	HIN	1112 1	KEA	OF IM	PACI
1	9. Others (Specify	y) i.e. Aı	nimal Traps				<u>- </u>
S/N	Others		Description		Quantity/Size	Comments	
	DAJF. W	1111	411	∄E ∧₁	REA (FIMI	ACT
17	0,00	<u> </u>	1	,, <u> </u>		-	•
E. G	RAPHIC DESCR	IPTION	OF LEAK P	OINT (while o	letail report of th	ie leak point shoul	d be contained in
the le	ak report, overvier	w sketch (of the site should	a be aaaea as i	in appenaix i) #	SECT	
NKP	oku - b	OM) FIF=1	L 170 E	Al Gil	D, SHOWI	NG A HUNDRED
AND	SEVENT	בו) א	o mm) m	ULIMET	RES HA	iksaw c	WT, AT 1200 CLO
POS	ITION , D	ONE	ВУι	MKNOWI	V PERS	DNS	
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NKPOKU TO BOMU

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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 appendix)

	(A)	25 84·
S/N	Northing LATITUDE)	Easting-(LUNGITUSE)
94	4.70012	7 - 24636
95	4.70025	7.24615
96	4.69998	7.24599
97	4. 69957	7. 24615
98	4.69990	7.24619
99	. 4.69987	7 24624
100	4.69975	7.24609
101	4.69972	7.24610
(02	4.69971	7.24616
103	4.69977	7.24618
154	4.69982	7.24626
105	4.69987	7.24629
106	4.69995	7.24626
107	4.70008	7.24609
108	4.70003	7.24624
.109	4.70008	7:24626
110	4.70004	7.24629
		<u> </u>
		•
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G,	INC	IĐENT	INFOR	RMA	TION:
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а.	Impacted	Area	Details
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	•	Total calculated area of impact 0 · 11 Ha
	•	Impact within R.O.W
	•	Impact outside R.O.W
b.	Volume	of oil recovered before completion of JIV (V _{rec.I}):
		Recovered oil Vreel: 1 PD 310 Rarrele

Controlled recovery/evacuation from source with no impact to environment:

NIL	Barrels

c. Net Estimated Spilled VolumeV_{Est}(bbls)*=122·27 + 20·79
= 143.06

Estimated Reported Volume** V_{rep}(bbls)= 144 BARRELS

*Notes:

Volume estimation was done using an excel based tool, (see attached for details on the calculation)

Reported spilled volume is an estimate

Write other relevant notes taken into consideration for estimating the spilled in the box below:

THE SPILLED YDLUME ESTIMATION, THE YOLUME
CONSUMED BY FIRE WAS IN CONSIDERATION.

DETAILS CAN BE FOUND IN THE ATTACHED
YOLUME ESTIMATION DETAILS.

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^s 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 bhl - is rounded up to the next whole monber.

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

Wherever this estimation tool is not applicable please refer to paragraph be (Deviations) of the AV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the AV report.

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d	General	Status	of the	site
u.	CICHCIAL	Dialus	OI LIIL	3111

i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out
 ii. Investigation of the incident site showed that there is residual impact on site requiring further works

e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- Host Community:
- Department of Petroleum Resources [DPR]
- State Ministry of Environment [SME]
- Asset Owners
- Signatorics agree with reported finding
- Separate DPR form has been filled out with same findings

Tick us applicable

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f. Appendix 1: Overview sketch of the site

