THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1382396 JIV report SIN: 00872 (Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 1382396 2. Type of incident* OIL SPILL 3. Name of Location 28" Borny - BORNY TRANS NIGER PIPELINE 4. Name of nearest community BODO WEST. 5. State: RIVERS 6. LGA GO KANA 7. Type of Production facility/Installation OIL PIRELINE 8. Asset owner/District PIRELINE SWAMP B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 30^{Tel} MARCH, 2015 b. Start date/time of investigation: 29 TH KPEIL, 2015 c. Investigation End date: 29 TH APRIL 2015 Actual investigation duration, days: ONE DAT d. Description of spill point environment Recently excavated area Firmed soil Exposed pipe surface Under water Drill Rig ☐ Well Platform (on Water) Additional observations around the spill point: NOT APPLICABLE e. Description of leak point (tick as applicable); Tear (Hack saw cut Drilled hole ☐ Well head tampering Inward dent, Complete Rupture Failed Weld-on illegal hot tap valve, Failed Clamp ☐ Missing Pipeline/Flowline Third party tampering with Clamp ☑Crude oil theft (illegal bunkering) point, Third party tampering with valve setting, ☐Third party tampering with flange, Surge vessel overflow, ☐Saver-pit over flow, ☐ Corrosión Flare System/Bund wall failure Accidental 3rd party equipment ☐Bulging Outward Cold vent Com unit failure ☐ Valve Failure impact Relief valve failure Others (specify) f. Incident caused by:

Third party interference (Sabotage□; crude theft□; Line theft□; Accidental 3rd party damage□)

Others (including Mystery spills)

Operational

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

T INVESTI	SATION REF	PORT FOR INC	IDENT NO:	15873	76 JIV re	port S/N:	7,800
g. Spil	I point coordi Measuring Northing:		W	ûs 9	Easting:		
	04	.6020	331		007.25	586019	·
			193	25			<i>2</i> 0:
						42	
C. RISK A	SSESSMEN						
10.	Туре о	f environment:					
	Land	⊠ Swamp	□Water	□Se	asonal swamp	Shorel ne/Wa	terfront
	i. Type of	environment to v	which oil has	spread:			
	Land	Swamp	□Water	□Ri	ver (identify)		
i	i. Weather	condition				,	
	Rain stance from th	Sunny e nearest sensitiv	Dry e habitat	□Wet	□Windy	Hot	□cool
	Government Drinking wa Built up are: Farmlands Fish Farm/P Fishing net Others (spec	ond	signated prote	ected area	[m,] [m,] [m,] [m,] [m,]	MITE	tin nity
12. Co	ontainment me	asures put in plac	ce;				
_	Booms Others:	Trench	Dyke	□N	atural depression	Pit	□Non
13. Aı	ny pictures or	video coverage?			[Y] [N	i i	•
14. F	urther respons	se/repair initiated	as at the tim	e of JIV?	-[Y] []	0.2	
If yes to iten	n 14, give brief	description:	EMPO	RARY	REPA	TR WO	CK BT
SCR) WE	APPING					
		isruption to the i			[Y] [Y]	13/	
		ef description:	3.				
11 yes to to	- Serve on	107		ו ממ	100	216	
	1	101	t	11 -	1 CH		

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

16. S	16. Structures / Properties					
S/N Tyj	e of Structures	Description	Size	Number	Comments	
No	NE W	11 (-1-11	4 A	ea o	MPACT	
17. C	rops/Economic Trees	<u> </u>	1			
S/N Typ	oe of crops Young	Tittu	Medium	Matured Qu	Comments PACI	
18. Fí	sh/Nets/Ponds					
S/N Fish	/Nets/Ponds D	escription		Quantity/Size Com	nents	
Non	IE NI	IHIN	ARC	AOF	IMPACT	
19. O	thers (Specify) i.e. An	imal Traps				
S/N Oth	ers D	escription		Quantity/Size Com	ments	
No	NE MI	itter	4 A	RCA OF	= MPACT.	
E. GRAPF leak report	HC DESCRIPTION (, overview sketch of the	OF LEAK POI e site should be	NT (while deta added as an ap	ul report of the leak po pendix 1)	int should be contained in the	
ECTIONAL VIEW	of 28" 8	Somu - J	BENNY	TRANS N	HOER PIPELINE AT	
Bobo					L THEFT POINT	
			3	" ILLGEALLY	INSTALLED	
	÷ *		īt	"ILLGEALLY IEFT POINT (FREE PHASE	
			/ 1	MPACT FOUND	S AROUND THE	
			~ F	POINT DUE	to Brinkerz	
				Activities)		
78" THP					28'TH?	
	В	omu-Bo	Page 3 of 8	PELINE	*	

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

	NU	Sy more representation as an appendix)
S/N	Northing	Easting
	04.6019474	007.2586328
	04.6020973	1007.2586447
	04.6019500	007.2584200
	04.6019474 04.6020973 04.6019500 04.6020300	007.2586447
		/
		
		1 204
		20/1-
		29/04/2015-
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JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1387396 JIV report S/N: 00872
G. INCIDENT INFORMATION:
20. Impacted Area Details
Total calculated area of impact 0.03 HA
Impact within SPDC R.O.W
Impact outside SPDC R.O.W
21. Volume of oil recovered before completion of JIV (V _{reel}):
Recovered oil V _{reel} ; Nu. Barrels
Controlled recovery/evacuation from source with no impact to environment: Barrels Barrels
NIL Barrels
22. Net Estimated Spilled Volume V _{Est} (bbls)* =
0-98 breach
Estimated Reported Volume** V _{rep} (bbls)=
*Notes: • Valume 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:
l l
NOT APPLICABLE
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 valume in excess of I bbl 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.
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 STILL I ETHOLEON DEVELOT MENT SOME AND OF THIS		
IOINT INVESTIGATION REPORT FOR INCIDENT NO: 1382396 JIV report 23. GENERAL STATUS OF THE SITE	t S/N:	00872
A. Joint investigation of the incident site found that there is no residual response and JIT therefore recommend that the site be closed out	mpact	after the initia
B. Investigation of the incident site showed that there is residual impact o works	n site r	equiring furthe
24. REPRESENTATIVES		
This report was filled, agreed and signed by the following joint investigation representations	ntative	s:
		-
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

