THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1395016 JIV report S/N: 00640 (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: 1395016 2. Type of incident\* OIL SPILL OTUMARA - ESCRAVOS PIPELINE 4. Name of nearest community UGBOEGUNGUNS. State: DELTA 6. LGAWARRI SOUTH-WEST 7. Type of Production facility/Installation OIL PIPELINES, Asset owner/District PIPELINES B. INCIDENT INFORMATION: tails of incident a. Date of incident: 2ND MAY: 2015 9. Details of incident b. Start date/time of investigation: 8 MAY, 2015 AT 134-3 HRS TH MAY, 2015 Actual investigation duration, days: 1 DAY d. Description of spill point environment Loose soil Recently excavated area ☐Firmed soil **⊠** Swampy Exposed pipe surface ☐Under water. ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: UPON EXCAVATION, A 3" FAILED ILLEGAL HOT- TAP VALVE WITH GALVANIZED PIPE FITTING WAS SEEN WELDED ON THE 20" OTUMARA-ESCRAYOS PIPELINE AT 12 O'CLOCK POSITION. 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 flange, Third party tampering with valve setting, ☐Surge vessel overflow, ☐Saver-pit over flow, □ Corrosión □ Flare System/Bund wall failure □ Accidental 3rd party equipment ☐Bulging Outward Com unit failure Cold vent □Valve Failure impact Relief valve failure Others (specify) f. Incident caused by: ☑ Third party interference (Sabotage□; crude theft□; Accidental 3rd party damage□) Operational Others (including Mystery spills)\_

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

DINT INVESTIGATIO	ON REPORT FOR IN	ICIDENT NO:	1395	01 <u>6</u> JI	V report S/f	4: D(	0640
g. Spi <u>ll poin</u>			VGS :				
North	. /	ITUDED	1		CLONG	้นเเ็วแ	0 E)
	5.613	338			CLONG 5-17.	46 <u>8</u>	3
	<u>a</u> –			1-62	<del>. /</del>		
	The !						
C. RISK ASSES	SMENT				•		
10.	Type of environment:						
□Land	Swamp	□Water	□Sc	asonal swam	p□Shorelit	1c/Water	rfront
<b>i.</b> 7	Type of environment to	which oil has s	spread:				
□Land	⊠Swamp	□Water	□Ri	ver (identify)	)		
ií.	Weather condition						
□Rain 11. Distance	Sunny from the nearest sensiti	□Dry ive habitat	□Wet	□wind	y 🗖:	Hot	□cool
□ Drini □ Built □ Farm □ Fish □ Fishi	lands Farm/Pond	esignated prote	cted area	[ [ [	[m, m] [m, m] m]	JONE THE	E WITHIN VICINITY
12. Containm	ent measures put in pl	ace;					
□Boor □Othe		□Dyk¢	MN	ntural depres	sion 🔲	Pit	□None
13. Any picti	res or video coverage?	?		N	[N]		
14. Further	response/repair initiate	d as at the time	of JIV?	[Y]	[W]		
If yes to item 14, giv	re brief description: RE	PATR IS	BEIN	IG PLA	NNED	By_	THE
PIPELINES	MAINTENANI	CE TEM					
15. Was then	e any disruption to the	investigation?		[Y]	ROY		
If yes to item 15 g	ive brief description:	NINT	ADDI	1 CABL	F		
,		1401	<u> </u>	14101	<u>., L.,</u>		

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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
<u> </u>					
-	NOME W	THIN	-A-RE	<del>A-NE IM</del>	ACT-
			7,5	1 101 1111	<u> </u>

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
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	MOME		MIN	EA U		

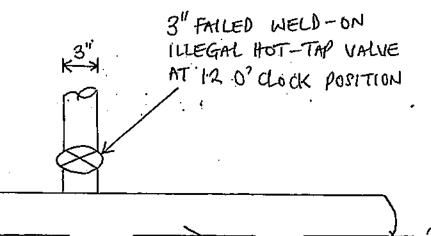
### · 18. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
ļ	L Control	1		
-	- NONE - L	HITHAN AR		E-MPACT
	101011-1/	<u> </u>	1 0	[,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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

S/N	Others	Description	Quantity/Size	Comments		
	LONE	LITHALA	-05 A-	OF IMPACT		
	MANAC	WITH T	KEN	UP IMPACI		

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)



FROM DTUMARA TO ESCRAVOS

20" OTUMARA - ESCRAVOS PIPELINE AT UGBOEGUNGUN Page 3 of 8

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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) W(15) 844

	WUS 844	1 79
S/N	Northing CLATHUDED	Easting CLONGITUDE)
	5.61338	5.17467
	5.61339	5-17468
	5-61338	5.17469
	5.61337	5-17473
	5.61342	5.17468
	5.61343 5.61336	5-17469
	5.61336	5 17476
	5.61335	5-17475
	5.61337	5.17460
	33, 37, 37,	
. <u>.</u>		
	2	
	08-05-2015	<u> </u>
		ļ <u>.</u>
	1	

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G. INCIDENT INFORMATION:	

20.	Im	nacted	Arca	Details
~0.	4141	րոււս	1 ii ca	Details

•	Total calculated area of impact	0.0029Ha	<u> </u>
•	Impact within SPDC R.O.W	YES	
. •	Impact outside SPDC R.O.W	N <sub>0</sub>	
21. Volume	of oil recovered before completion of		
	Recovered	16il Vices NIL	Barrels
Controlle	d recovery/evacuation from source w		•
	NIL.	Barreis	

722 Net Estimated Spilled Wolume V.	(bbls)
	1. U.48 BB S
ASSOCIATION OF THE STATE OF THE	Control of the Contro
Estimated Reported Volume** V <sub>rep</sub> (bbls)=	O. 5 BBL
	UND BBL

\*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:

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  $m^2$  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 | f 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 = 0.4 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.

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23.	GENER	٨L	STA	TUS	OF	THE	SITE
-----	-------	----	-----	-----	----	-----	------

A.	Joint investigation response and JIT the				iual impact a	fter the initial
В.	Investigation of the works	e incident site show	ved that there is r	esidual impa	act on site rec	quiring further

### 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]: □
- Shell Petroleum Development Company [SPDC]:
- Signatories agree with reported findings: 
   □
- Separate DPR form has been filled out with same findings

  ✓

Tick as applicable

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1395 016 JIV report S/N: 00640

25. Appendix 1: Overview sketch of the site

Location: 20" OTUMARA - ESCRAVOS PIPELINE AT UGBO	eamam
20" OTUMARA TO	
ESCRAVOS PIPELINE	
	/
SPILL POINT	7
	COMMUNITY
IMPACTED	VIII I
AREA	CON CON
	]   Iw
	四点
	UGBOE GUNG
	808 *
SPDC RIGHT OF WAY >	44
111,1 0, 0	