INCIDENT NO: 1579923 ___ JIV report S/N: Nº 5000379 (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: 1579923 2. Type of incident* DIL SPILL 3. Name of Location 20" OTUMARA - ESCRAVOS PIPELINE 4. Name of nearest community UGBOEGUNGUNS. State: DELTA 6. LGA WARRI SOUTH-WEST 7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY NIGERIA LIMITED/PIPELINES B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 22ND FEBRUARY, 2016 b. Start date/time of investigation: 15T NOVEMBER, 2016 AT 1106 HRS c. Investigation End date: 157 NOVEMBER, 2016 Actual investigation duration, days: CAIE DAY d. Description of spill point environment Loose soil Recently excavated area ☐Firm soil **☑** Swampy Exposed pipe surface ☐Under water ☐Well Platform (on Water DrillRig Additional observations around the spill point: ON EXCAVATION, THE JOINT INVESTIGATION TEAM OBJERVED A 2" VALUE ILLEGALLY ATTACHED TO THE 20" OTUMARA - ESCRAVOS PIPELINE AT 12 0' CLOCK POSITION. THE LEAK WAS BASBRUED TO HAVE STOPPED AS AT THE TIME OF THIS INVESTIGATION. e. Description of leak point (tick as applicable); Hack saw cut Tear (☐Drilled hole ☐ Inward dent. ☐ Well head tampering ☐Complete Rupture ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ Failed Clamp, ☐ Third party tampering with Clamp ☑Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow Third party tampering with flange, ☐ Bulging Outward Third party tampering with valve setting □Cold vent ☐ Surge vessel overflow, ☐ Flare System/Bund wall failure Accidental 3rd party equipment impact Relief valve failure ☐ Valve Failure Others(specify) f. Incident caused by: ☐ Third party interference (Sabotage☐;crude theft☐; Line theft☐; Accidental 3rd party damage☐) ☐Operational ☐Others (including Mystery spills)_ PELINE DOCUMENT CENTRE

16 JAN 2017 *This can be: a) Oil Spill by Drilling fluid Chemical c) Siliation d) construction c) Engroachment f) Fire.

JIV report S/N:

INCIDENT NO: 155 POINT THEFT g. Spill point coordinates WGS 84 h. Measuring unit Easting: Northing: 517034 C. RISK ASSESSMENT 10. Type of environment: Swamp □ Water Seasonal swamp ☐Shoreline/Waterfront Land Type of environment to which oil has spread: Swamp □Water ☐River (identify) Land iì. Weather condition Sunny □Hot □cool Drv □Wet Windy Rain 11. Distance from the nearest sensitive habitat Government reserved and designated protected area ☐ Drinking water source ,m] Built up area ,m] Farmlands [m, ☐ Fish Farm/Pond □ Fishing net □ Others (specify). 12. Containment measures put in place; Natural depression ☐Pit None Trench Dyke Booms Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description: PPLICABLE [Y]

15. Was there any disruption to the investigation?

TYPE/NUMBERS O		F ANY, FOUNI	O WITHIN THE		EAD OF OIL
Type of Structure		n Size	Number	Comp	nents
NONE	WITH	N ART	A O	- IMPA	CT
17. Crops/Economic Type of crops	Trees Young	Medium	Matured	Quantity	Comments
Type of crops	- Gung	T A A	A	Quantity	A Comments
NONE	= WH	H(N)	TREA	OF IMI	ACT
18. Fishing Nets/Fish Nets/Ponds	Ponds Description		Quantity/Size	Comments	
Tiets t onus	Description		=-A A	1 1 1 1	
MOME	WIH	IN AR	- / 	- (MPA-C	
19. Others (Specify) Others	i.e. Animal Traps Description		Quantity/Size	Comments	
NONE	WITH	IN AR	EA OF	IMPA	€7
GRAPHIC DESCRII leak report, overview s					
CTION OF	20" OTUMAN	LA - ESCI	CAVOS PIP	ELINE HI (16BOEGWGUN
towing; FAI	_) <u> </u>	· Cracock 1	-C-1 ((())
MLED 2" VALUE	_	FT			
- 0' CLOCK POSI	TION	\sim	7		
		3/5	<i>k</i>		
		۲	<u> </u>		

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

	Northing	Easting	
	5.61958	5.17028	-
	5.61858 5.61858	5.17028 5.17038	
	561851	5.17044	
	5.61851	5.17044	
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_			_
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		166	
		01/11/2016	
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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact	
Impact within R.O.W	
Impact outside R.O.W	
b. Volume of oil recovered before completion of JIV (Vrec.):	
Recovered oil V _{recJ} : NIL	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
9.30 BBLS	
Estimated Reported Volume** V _{rep} (bbls)=	
*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:	<u>-</u>
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^{\dagger} 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 T bbl is counded 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

Colculated volume = 0.01 bbl Reported volume = 0.1 bbl

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

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d. General Status of the site

i.	Joint investigation of the incident site found that there is no residual impact after the initial response a	ınd 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	12

e. Representatives

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

- Host Community:
- Department of Petroleum Resources [DPR]: ☑
- National Oil Spill Detection and Response Agency [NOSDRA]:

 ✓
- State Ministry of Environment [SME]:
- Asset Owner:

 ✓
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site

