INCIDENT NO: 1863621 JIV report S/N:

Nº 0000290

(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: 1863621 2. Type of incident* OIL SPILL 3. Name of Location 12" IMO RIVER - OGALE PIPELINE 4. Name of nearest community <u>UZUAKU</u> 5. State: <u>ABIA</u> 6. LGA <u>UKWA WEST</u> 7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LTD 9. Details of incident a. Date of incident: 29TH MAY 2017 b. Start date/time of investigation: 4TH JUNE 2017 153 OHRS c. Investigation End date: TH JUNE 2017 Actual investigation duration, days: FOUR (4) DAYS d. Description of spill point environment Recently excavated area Loose soil ☐ Firm soil **□**Swampy Exposed pipe surface ☐Under water DrillRig ☐ Well Platform (on Water Additional observations around the spill point: THE JOINT INVESTIGATION TEAM SAW A DRILLED HOLE 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 Saver-pit over flow Crude oil theft (illegal bunkering) point, ☐ 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 (Sabotago Ccrude theft□; Line theft□; Accidental 3rd party damage□)

☐ Operational

Others (including Mystery spills)

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

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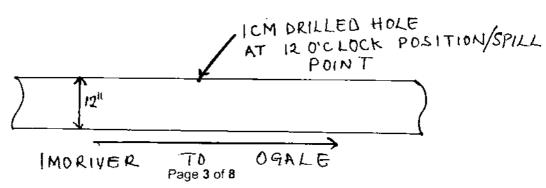
g. Spill point coordinates WGS 84 h. Measuring unit Northing: LONGITUDE LATITUDE C. RISK ASSESSMENT 10. Type of environment: Land □Water ☐ Swamp ☐Shoreline/Waterfront Seasonal swamp Type of environment to which oil has spread: 1 Land □ Swamp □Water River (identify) Weather condition Rain □Sunny \□Dry □Wet ■Windy □Hot □cool 11. Distance from the nearest sensitive habitat [m, _JIM] ☐ Government reserved and designated protected area □ Drinking water source [NIL .m] [NIL, ,m] Built up area Farmlands [m, 02>] M/4 ,m] ☐ Fish Farm/Pond NIL ,m] □ Fishing net Others (specify). RAIL WAY 12. Containment measures put in place; Natural depression \square_{Dyke} Booms Trench □None 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: REPAIR BY CLAMPING

15. Was there any disruption to the investigation?

[1] ([1])

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If ye	s to item 15 give b	rief descrip	ntion:	_			-
	\mathcal{N}	7	A	PP	10	ABL	
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties							
S/N	Type of Struc		Description	Size	Number	Comm	ents
	ONE	WI	7#/N	AR	EA)F MP	ACT
	17. Crops/Econor	,				10	
S/N	Type of crops	Young		Medium	Matured	Quantity	Comments
1	ONE	M	THIN	ARI	EA O	FIMPA	CT
	18. Fishing Nets/						
S/N	Nets/Ponds	De	escription		Quantity/Size	Comments	
Λ	DNE	WIT	HIN	ARE	A OF	MP	+CT
	19. Others (Speci	fy) i.e. Ani	mal Traps				
S/N	Others	De	escription		Quantity/Size	Comments	
\nearrow	IONE		[[] 	VAR	EA	OF MI	ACT
E. G	RAPHIC DESC. eak report, overvie	RIPTION w sketch o	OF LEAK PO	DINT (while a d be added as a	letail report of the in appendix 1) 🛔	e leak point should SECT (the contained in 12
						ZUAKU	
				AT 12	0'CLOC	k P0317	rion B)
UN	KNOWN	PER	SONS.				
	<u> </u>						



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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)

		MUZ 84
S/N	Northing LATITUDE	Easting LONDITUNE
ક્ર	4.89462	7-17698
549	4.89443	7-17678
.550	4.89412	7.17657
551	4.89413	7.17635
5-52	4.89411	7-17649
553	4.89407	7117649
554	4.89406	7.17652
535	4+89397	7.17647
55%	4.8°1386	7.17641
557	4.89371	7.17631
558	4.89367	7.17635
5 59	4.89376	7.17646
560	4.89372	7.17649
561	4-89387	7.17662
562	4.89409	7-17677
563	4.89437	7-17688
964	4.89434	7-17694
565	4.89442	7.17699
566	4.89440	7.17699
367	4.894.57	7-17708
568	4.89464	7-17699
569	4.89460	- 7.17639

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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	
Impact outside R.O.W Volume of oil recovered before completion of JIV (V _{rect}):	_
Recovered oil V _{recJ} : 3 7 3	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
628.87 BBLS	
Estimated Reported Volume** Vrep(bbls)= 629 BARRELS	
*Notes: • Volume estimation was done using an excel based tool.tsee 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^3 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 - 1 bbl - is rounded up to the next 0.1 bbl.

Wherever this estimation tool is not applicable please refer to paragraph 6: (Deviations) of the JIV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and article to the JIV report.

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d.	General	Status	of the	site
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i.	Joint investigation of the incident site found that there is no residual impact after the initial response and JII therefore recommend that the site be closed out	Γ
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].\□
- National Oil Spill Detection and Response Agency |NOSDRA|:\
- State Ministry of Environment [SME]
- Asset Owner: 2
- 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

