JIV report S/N:

Nº 0000090

INCIDENT NO: 1707836

(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: 1707836 2. Type of incident\* OIL SPILL 3. Name of Location 8" NKALI - IMO RIVER 2 PIRELINE (BREATHING TUBE BOX) 4. Name of nearest community UMURDU-OKNARA State: RIVERS 6. LGA ETCHE 7. Type of Production facility/Installation GIL PIPELINE BREATHING TUBE BOX 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED | PIPELINE: **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 8" SEPTEMBER, 2016 b. Start date/time of investigation: 1074 SEPTEMPER 2016 c. Investigation End date: 10th SEPTEMBER, Welfial investigation duration, days: ONE DAT d. Description of spill point environment ☐Recently excavated area Firm soil Loose soil ☐Exposed pipe surface □Swampy ☐Under water Well Platform (on Water □ DrillRig Additional observations around the spill point: ON ARRIVAL AT THE INCIDENT SCENE, THE JUINT INVESTIGATION TEAM OBSERVED THAT THE KELOTEST VAIVE WAS LEAKING AND LEFT IN AN OPEN POSITION BY UNKNOWN PERSONED, ON TURNING OFF THE KERDTEST VATUE, THE LEAK STOPPED e. Description of leak point (tick as applicable); ☐ Tear ( Hack saw cut ☐Drilled hole ☐ Well head tampering Inward dent, Complete Rupture ☐ Missing Pipeline/Flowline Failed Clamp, ☐ Failed Weld-on illegal hot tap valve ☐ 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 ☐ Surge vessel overflow, ☐Cold vent ☐Flare System/Bund wall failure Accidental 3rd party equipment impact Relief valve failure ☐ Valve Failure KEROTEST YMVE . BOTHERS (specify) THIRD PARTY TAMPREING WITH f. Incident caused by: ☐Third party interference (Sabotage ☐; crude theft ☐; Line theft ☐; Accidental 3<sup>rd</sup> party damage ☐) Others (including Mystery spills) Operational

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

Measuring unit  Northing:	WGS.		Easting:	LONG		
4- (	187223		7.	6093	ĺ	
RISK ASSESSMEN	T .					
0. Type of environr	nent:					
Land	□ Swamp	□Water	☐ Seasor	ial swamp	Shoreline	:/Waterfron
i. Type of	environment to w	hich oil has spread	l:			
<b>□</b> Land	□Swamp	□Water		er (identify)		
<u> </u>	·	□ Water		er (racinity)		_
ii. Weathe	r condition Sunny	□ <sub>Dry</sub> □w	et <b>D</b> Wind	у Ыно	□cool	
☐ Rain  1. Distance from th	-	•	et 🗀 Wind	у 🖾 Но	LC001	
	reserved and design ter source a ond		rea [ [ [ [	[m,	MONE S WITHIN	4
2. Containment me	asures put in place	;			•	
Booms	□т	rench Dyke	e 🗖 Natura	depression	□Pit	□Non
Others:						
3. Any pictures or v	/ideo coverage?		[Y <del>]</del>	/ <sub>[N]</sub>		
4. Further respons	e/repair initiated as	s at the time of JIV	72. [Y]/	/ [N]		
•	lescription:	Ðı		- <b>-</b>		

		INCIE	ENT!	NO: 170	7836	JIV re	port S/NN	0000090	
	If yes	to item 15 give br	ief descrip	otion:					
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			<u> </u>	1 11					
		FYPE/NUMBERS  6. Structures / Pro		PERTIES,IF	ANY, FOUND	WITHIN THE	AREA OF SPRE	AD OF OIL	
	S/N	Type of Struct	<u> </u>	Description	Size	Number	Comm	ents	
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	S/N	7. Crops/Econom  Type of crops	Young		Medium	Matured	Quantity	Comments	
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	17	DIAC	MI	IIII	1/K	211 OF	HALL		
	1	8. Fishing Nets/F	ish Ponds			<del></del>	<del>****</del>		I
,	S/N	Nets/Ponds		escription		Quantity/Size	Comments		
			1,11	HIN	10	= A =	- IM DA	-/T	; 
		1011	Mi	11111	1	_/\		16	•
	S/N	9. Others (Specify Others		imal Traps	2 *	Quantity/Size	Comments		
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		RAPHIC DESCR ak report, overviev					leak point should	l be contained in	
SECTI		AL VIEW					2 PAPELIN	E (BRENT	HING TUBE)
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		CROTEST		BREATH	NG TUBE	8 OX "		<u></u>	
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		open		TR		Tube box book open			•
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				NKALI -	- (Mo Riv Page 3 of 1	IEC 2 PIPE	LINE		
					-				

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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)

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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  NU  NU  NU  Recovered before completion of JIV (V <sub>recJ</sub> ):  Recovered oil V <sub>recJ</sub> :  NIL  Controlled recovery/evacuation from source with no impact to environment:  NIL  Barrels	Barrels
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	
0.35 BARREL.	
Estimated Reported Volume** Vrep(bbls)= 0.4 BARKEL.	
*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:  NOT APPLICABLE	
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimated volume is to be done on site as far as practicable using the new spill volume estimated.	nion software on site;
Conversion of m <sup>4</sup> to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following Any spill volume in excess of -1 bbl - is rounded up to the next whole number.	iz taies.
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 = 0.35 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 JV procedure to us volume estimation; record the calculation in a plain sheet of paper and anach to the JV report.	e appropriate steps for

d. General Status of the site
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]:
National Oil Spill Detection and Response Agency [NOSDRA]:
State Ministry of Environment [SME]: 5
• Asset Owner: 5
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

