INCIDENT NO: 1918070 JIV report S/N:

(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: 1918070 _____ 2.Type of incident* OIL SPILL 3. Name of Location 20" KOLOCREK - RUMUEKPE PIPELINE 4. Name of nearest community ODAU 5. State: RIVERS 6. LGA ABUA ODUA 7. Type of Production facility/Installation GL PIFELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 29 Th August, 2017 b. Start date/time of investigation: 3RDSEPTEM BBC 2017 c. Investigation End date: 36 SEPT, 201 Actual investigation duration, days: TNE DAT d. Description of spill point environment **⊡**Loose soil ☐Firm soil Recently excavated area ☐ Under water ☐ Swampy Exposed pipe surface ☐Well Platform (on Water ☐ DrillRig Additional observations around the spill point: CRUDE OIL LEAK FROM AN EARLIER REPORTED MON-LEAKING ILLEGAL CONNECTION, WITH (FID NO 1752257) ON THE 20" KOLO-CREEK - RUMUEKPE PIPELINE AT ODAY, WAS DUE TO FAILED WELD-ON ILLEGAL HOT TAP VAIVE AS OBSERVED BY THE JOINT INVESTIGATION TEAM. e. Description of leak point (tick as applicable); ☐Drilled hole ☐ Hack saw cut ☐ Tear (Complete Rupture ☐ Inward dent, ☐ Well head tampering Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Third party tampering with valve setting ☐ Bulging Outward ☐ Third party tampering with flange, ☐Flare System/Bund wall failure Cold vent ☐ Surge vessel overflow, ☐ Valve Failure ☐ Relief valve failure Accidental 3rd party equipment impact ☐Others(specify)_ f. Incident caused by: ☐ Third party interference (Sabotage☐:crude theft☐: Line theft☐: Accidental 3rd party damage☐) ☐ Operational Others (including Mystery spills)_____

^{*}This can be; a) Oil Spill b) Drilling third Chemical c) Siltation d) construction (c) Encroachment f) Fire,

	INCIDE	NT NO: <u>\</u>	<u> 118070 </u>	JIV repo	ort S/N:	No	0000340
g. Spill n	ooint coordinate	s					
h. Meast		(WGS8	4)				
	orthing:	<u> </u>	1	Easting:	- N C		
	<u> </u>	^ 1		<u> </u>	DNG		
	4.928	2		6.436	66		
	1			•			
L_			<u>. </u>				
C. RISK AS	SSESSMENT						
10. Typ	e of environme	nt:					
₽	Land	□Swamp	□Water	☐Seasonal sw	_{′amp} □S	horeline/\	Vaterfront
i	. Type of er	vironment to wh	nich oil has spread:				
	Land	Swamp	□Water	□River (ie	dentify)		_
ii	. Weather c	andition					
	,		/	_		- / .	
	Rain	•	□Dry ⊠Wet	□Windy	□ _{Hot} I	⊠cool	
11. Dist	tance from the r	earest sensitive	habitat				
0 0 0	Government re Drinking water Built up area Farmlands Fish Farm/Pon Fishing net Others (specify	d	gnated protected are	[,m] ,m] ,m]	NE SI ITHIN ICINI	
l2. Con	itajnment measi	res put in place:	;			4	
	Booms	□т	rench Dyke	□Natural depr	ession E	Pit	□None
	Others:						
13. Any	y pictures or vid	eo coverage?		[Y }∕ [Y]	1]		
14. Fu	rther response/r	epair initiated as	s at the time of JIV?	[Y] \	١]		
_ REPA		K BY CI	-vwbing b	mis eil	SPILL R	Seco n	ERY
MOKK	C GNG	OING.					
15. Wa	s there any disre	aption to the inv	estigation?	[Y] [N	1		

		iN	CIDE	NT NO	0 : <u> </u> 91	8070	JIV re	eport S/	N.N	2 0000340	ļ
	If yes	to item 15 gi	ve brief d	escription	οπ;						
			VC		A	PPL	ICAR	SLE	-		
		TYPE/NUME 6. Structures			ERTIES,IF	ANY, FOUNI	WITHIN THE	AREA OF	SPRE	AD OF OIL	
	S/N	Type of St	ructures	1	Description	Size	Number		Comm	ents]
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·	1 S/N	7. Crops/Eco		rees		Medium	Matured	Quantit	v	Comments	7
	<u> </u>	2/2/	10	,ung		I A	- C	Quantit	<i>,</i>	Comments	- -
	\perp	UNE		M	1111		REA	OF	N	MACI	-
		8. Fishing N	ete/Eich P	Pande							_
	S/N	Nets/Ponds			ription		Quantity/Size	Comment	S]
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		9. Others (S	ecify) i.e		.		0 111 161				1
	S/N	Others	•	Desc	ription		Quantity/Size	Commen	ts A	<u> </u>	1
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	-	3"	NIPP	l E							
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INCIDENT NO: 1918070 JIV report S/N: NO 0000340

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)

	WG584	
S/N	Northing LAT	Easting LONG
1	4.9281	6.4364
2	4.9282	6.4364
3	4.9283	6.4368
4	4.9283	6-4372
5	4.9284	6.4377
6	4.9285	6.4382
7	4-9284	6-4384
8	4.9281	6.4382
9	4.9282	6.4377
10	4.9281	6.4372
	4.9281	6.4369
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INCIDENT NO: 1918070 JIV report S/N:

a. I	mpacted	Area	Details
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- Total calculated area of impact

 Impact within R.O.W

 TES
- Impact outside R.O.W \ES

b. Volume of oil recovered before completion of JIV (Vrec1):

Recovered oil V_{rect}: N1L Barrels

Controlled recovery/evacuation from source with no impact to environment:

NIL Barrels

c. Net Estimated Spilled VolumeV_{Est}(bbls)* =

796.18 BAKKELS

Estimated Reported Volume** V_{rvp}(bbls)=

797 BARRELS

*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 estimation software on site; Conversion of m³ to burrels 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.

Examples: Calculated volume = 15.3 bbl ------ Reported volume = 16 bbl

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

INCIDENT NO: 1918070 JIV report S/N: Nº 30034
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}:
Asset Owner:
Signatories agree with reported findings.
Separate DPR form has been filled out with same findings□
Tick as applicable

INCIDENT NO: 1918070 JIV report S/N: Nº \$006340

f. Appendix 1: Overview sketch of the site

