JIV report S/N:

INCIDENT NO:

Nº 0000223

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A, GENERAL INFORMATION: 2.Type of incident* OIL SPILL 1. Spill incident Number: RONNY PIPELINE 4. Name of nearest community BODD-CITY 5. State: RIVERS 6. LGA GOKANA 7. Type of Production facility/Installation [] [] PETROLEUM DEVELOPMENT COMPANY -9. Details of incident 21 ST DECEMBER, 2016 a. Date of incident: b. Start date/time of investigation: 24TH DECEMBER, 2016/14:35 Hours c. Investigation End date: 14TH DECEMBER, Actual investigation duration, days: ONE (1) DAY d. Description of spill point environment Recently excavated area Loose soil ☐Firm soil Swamov Exposed pipe surface □Under water □Well Platform (on Water Additional observations around the spill point: THE TIGATION TEAM ON THE SAME BLIND POINT. THE COFFERDAM HITHERTO BUILT BY THE ASSET e. Description of leak point (tick as applicable); ☐ Tear (Hack saw cut ☐Drilled hole ☐ Inward dent, ☐ Well head tampering Complete Rupture ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve 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, Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Relief valve failure Accidental 3rd party equipment impact ☐ Valve Failure ☐Others(specify) f. Incident caused by: ☐ Third party interference (Sabotage☐;crude theft☐; Line theft☐; Accidental 3rd party damage☐) Others (including Mystery spills)

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction c) Encroachment f) Fire.

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g. Spill point coordin	iates	Lasa	74			
h. Measuring unit -Northing:			Englise 1	- 		
	1-ATITU	<u>₽</u>		741	-	
<u> </u>	L·57345	5		539C)	
			.,			
C DIEV ARGERONE						
10. Type of environ						•
□Land	√ Swamp	□Water	☐Seasonal swa	mp □s	horeline/\	Waterfront
і. Туре о	f environment to w	hich oil has spread:				
Land	✓ Swamp	□Water	□River (ide	entify)		-
ii. Weath	er condition			-	_ ,	
□Rain	☐ Sunny	□Dry □Wet	□Windy □]н₀	Zcool	
11. Distance from the	he nearest sensitive	habitat				
 Drinking w Built up are Farmlands Fish Farm/l Fishing net 	rater source ea Pond	gnated protected area	, , , , , , , , , , , , , , , , , , ,	n] n] n] n] n]		
12. Containment me	easures put in place	;	•			
Booms	Dτ	rench Dyke	□Natural depre	ssion [□Pit	None
Øothers: C	DFFERDAM	CONSTRUCT	ED AROUND	the sp	ILL P	TAIC
13. Any pictures or	video coverage?		[Y] / [N]		
14. Further respon	se/repair initiated a	s at the time of JIV?	. [XV [N]		
If yes to item 14, give brief RECOVERY OF	F FREE-PH		_			
AFFECTED PI	PELINE SE	CTION WAS	BEING KLAI	ined b	A RTI	ND-ELANGING
15. Was there any o	disruption to the inv	estigation?	[Y] [N	1 /		

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	If yes to ite	em 15 give b	rief desc	eription:		_						
	No)	_	A	PP	LICA	BL	E				_
		E/NUMBER: tructures / Pr			ies,if	ANY, FOUNE	WITHI	N THE A	AREA O	F SPREA	D OF OIL	
F		pe of Struct			iption	Size	Numbe	er		Comme	nts	
	No	NE	A	#T+	HN	AR	EA	10		M	ACT	
L		crops/Econon	nic Tree			Medium	Mature	ed	Quanti	ty	Comments	
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	1401	4 <u>F</u>	WV I	THI	1	AKEA	U	Γ	[IX]	PAC		_
г		ishing Nets/I	Fish Pon		•		O	USI-a C		40.		
	S/N Net	ts/Ponds		Descript	.———		Quantity	//Size	Commen	18		
-	No	NE	W	ITH	M	ARE	Α	OF.		4PA	$e \pm$	
ſ		Others (Special hers	fy) i.e. 7	Animal Tr Descript			Quantit	y/Size	Comme	nts		
	Mn	NF	-	VIT	— - #1	N A	RF.	A	0F	1	1PAC	T
į						DINT (while a			leak poi	nt should	be containe	rd in
c'_		-		. 10	te should	d be added as d	ın append	4 ^(ix 1)	BAL	∟ VA	LVE	
2F	C 101	N OF BONN	يكس	U	15			·				
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		POINT						U				
_		CK Pos		.5	1							
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FR	OM			1			7	Ο"				
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T.	BON	INY		_16				-				"

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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)

		· 84 ·
S/N	Northing LATITUDE	Easting LONGTUDE
1.	4.57365	7.25358
2.	4.57358	7.25363
3,	4.57351	7,25379
4.	4.57352	7,25363
5.	4.57340	7.25392
6.	4.57322	7.25397
7.	4.57324	7,25391
છ•	4.57345	7.25405
9.	4.57351	7 · 25403
10.	4 · 57356	7.25359
11 -	4.57363	7.25356
12.	4.57351	7-25360
13.	4.57337	7.25373
•		· .
		•
		

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G.	INC	EDENT	INFOR	MLA	TION

a. Impacted Ar	ea Details
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•	Total calculated area of impact_	0.08Ha		
•	Impact within R.O.W	∀€ S		
	Impact outside R.O.W	465	 	

. Volume of a	oil recovered before comple	tion of JIV	$(V_{ m rec,l})$:	
	Recov	ered oil V _{ree.J} :	1	Barrels
Controlled rec	overy/evacuation from source	with no im	pact to enviro	onment:
	Nil	Barrels		

c. Net Estimated Spilled VolumeV _{Est} (1	bbls)* = 4.91	
Estimated Reported Volume** V _{rep} (bbls)=	5 BARRELS	

*Notes:

- Volume estimation was done using an excel based tool, (see unached 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;

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' 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 I bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bld ----- Reported volume = 16 bld 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 3D procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the AV 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 JIT therefore recommend that the site be closed out	T
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	<i>-</i> -

	<u> </u>
e. Representatives	
This report was filled, agreed and signed by the following joint investigation team rep	oresentatives:
Host Community:	
Department of Petroleum Resources [DPR]: □	
National Oil Spill Detection and Response Agency [NOSDRA]:	
State Ministry of Environment [SME]:	
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

