INCIDENT NO: 2820 679 JIV report S/N:

0648

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

	ENERGE INFORMATION:		
I. For	untain Incident Number: 2820	679 2 Type of	incident OIL SPILL
3. Nor	me of Location 4" OKORDIA	- RUMUCKPE	TRUNKLINE
			S 6. LGNAHONDA WEST
7. Pro	oduction Facility/Installation	IL PIPELINE	
8. Ass B. IN	CIDENT INFORMATION:	PETROLEUM DA LIMITED (SF	DEVELOPMENT COMPANY
a. b.	tails of incident Date Reported: 29TH DECE Start date/time of Investigation: 30TH D Investigation End date: 30TH D	TH DECEMBER, 2020001	20/1545HRS s) on site: ONE (1) DAY
d.	Description of spill point environment		
		Loose soil	Recently excavated area
		Swampy	Exposed pipe surface
	☐ Well Platform (on water) ☐	Drill Rig	☐Sand bag(s)
e.	Description of leak point (tick as appli		54
	□Smooth round-edge hole	☐Rough-edge hole ☐ Inward dent,	Hack saw cut
	Complete Rupture  Failed Weld-on illegal hot tap valve	☐ Inward dent, ☐ Failed Clamp,	☐ Well head tampering ☐ Missing Pipeline/Flowline
	Crude oil theft (illegal bunkering) p		
	☐ Third party tampering with valve s		
	☐ Flare System/Bund wall failure	□Cold vent	☐ Surge vessel overflow.
	The second secon	Relief valve failu	re Accidental 3 <sup>rd</sup> party equipment impact
	☐ Valve Failure	Refier valve failu	The second secon
	☐ Valve Failure ☐ Tear(	_) Relief valve failu	
	☐ Valve Failure	Rener valve famu	

\*This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Sitiation (d) Water Leak (e) Fire: (f) Non-leaking theft point removal Version 2020/01
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Blue (Host Community):

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	Northing: LATITUDE			6.47352839		
	5.12982584					
	ASSESSMEN					
0. 1	Details of Envir	ronment				
	Type of env	ironment where s	pill occurred (selec	t one):		
	Land	□Swamp	□Water	Seasonal swamp	Shoreline/Waterfront	
	Type of env	vironment to which	h oil has spread:			
	<b>D</b> (and	Swamp	□ Waterbody (sp	ecify)		
i.	Weather co	ndition				
	√ <b>Ø</b> fory	□wet	Windy	□Hot		
1. 1	Distance to Sen	sitive habitat with	nin 100m radius			
	☐ Drinking w ☐Surfact ☐ Built up Ar	ater source ce water Bo ea ential Area Co Pond	gnated protected area rehole mmercial/Industrial Are	[m, ] [m, ]	NONE OBSERVED A	
2. (	Containment mea	asures put in place:				
	□Booms □	Trench Dyke	☐ Pit ☐ Natural	depression None		
	Others:					
3.	Any pictures or v	ideo coverage?		KY [N]		
4.	Further response	/repair initiated as	at the time of JIV?	(X) [N]		

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15. Was there any disruption to the investigation?
If yes to item 15 give brief description:
A D D D L L C L S L S
MOINTPULARIE
16. Was JIV delayed? [Y] [N]
Reason(s): NOT APPLICABLE  Delayed Community Access Approval  Others (specify)  NOT APPLICABLE  Access constraint due to terrain
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL  17. Structures / Properties
S/N Type of Structures Description Size Number Comments
18. Crops/Economic Trees
S/N Type of crops Young Medium Matured Quantity Comments  19. Fish/Nets/Ponds
S/N Fish/Nate/Ponde Days 11
20. Others (Specify) e.g. Animal Traps
S/N Others Description Quantity/Size Comments
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained
OKORDIA - RUMUEKPE TRUNKLINE AT AKINIMA SHOWING
TI IA SU DELUCK POSITION CANON
BY UNKNOWN PERSONS
ROUGH PAGES SPILL POINT (HACKSAW CUT)
& Let. 3
FROM OKORDIA MANIFOLD — RUMUEKP Version 2020/01 istribution of copies: White (Asset Owner): Pink (DPR): Green (NOSDRA): Yellow (State Ministry of Environment):  Page 3 of 8

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

21. Impacted area boundary Coordinates (If more, Print and attach as Appendix)

Fax: 1	WGS 84
S/N Northing LATITUDE	Easting LONGITUDE
1. 5.12994137	6.47348264
2. 5.12991065	6.47344665
3. 5.12978244	6.47364036
4. 5.12978244	6.47364086
5. 5.12985021	6.47360823
6. 5.1298804	6.47358741
7. 5.12974216	6.47357879
8. 5.12967759	6.4735349
8. 5.12967759	6.47352604
10. 5.1297945	6.47344253
11. 5.1298273	6.4734078
12. 5.12991819	6.47323544
13. 5.12991332	6.47330532
14. 5.12985333	6.4732)488
15, 5.12976134	6.47329299
16. 5.129745	6.473251
17. 5.129828	6.473 194
18. 5.129934	6.473203
19. 5.129849	6473296
20. 5.129823	6.473409

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YES		
		0.0051, 0.0009)
covered oil Vree!	NIL	Barrels
Barrels	environment:	
bbls)*= 67.5	4 BARRE	15
	detion of JIV (Vrect):  covered oit Vrect:  Barrels	eletion of JIV (V <sub>retJ</sub> ):  covered oit V <sub>retJ</sub> :    N   L     rec with no impact to environment:    Barrels

\*Notes:

G. INCIDENT INFORMATION:

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 volume estimation or cause of spill.

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation saftware on site: Conversion of  $m^t$  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 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 JIV procedure to use appropriate steps for column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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260		And the last of th	-	44
d.	General	Status	01	the site

- i. Joint investigation of the incident site found that there is no residual impact after the initial response and HT 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

#### 2

#### e. Representatives

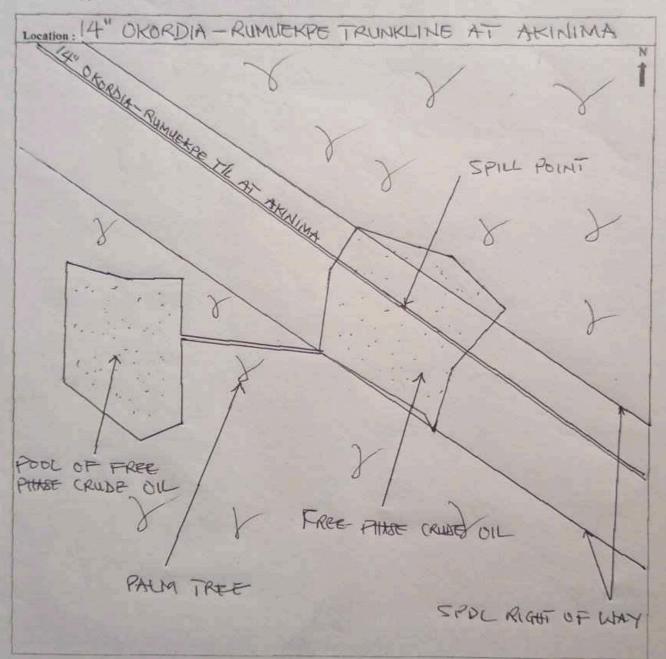
This report was filled, agreed and signed by the following joint investigation team representatives:

- . Host Community: 12
- · Department of Petroleum Resources [DPR]: □
- National Oil Spill Detection and Response Agency [NOSDRA]: □
- State Ministry of Environment [SME]: □
- . The Shell Petroleum Development Company [SPDC]: □
- Separate DPR form has been filled out with same findings □
- Separate NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site



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### g. SIGNATORIES: JOINT INVESTIGATION TEAM MEMBERS

Having read through the IIT report, the following representatives append their respective signatures in agreement with the content therein:

S/N	Name	Members present	Designation	Signature/Date and Time
1		DEPARTMENT OF PETROLEUM RESOURCES (DPR)		
2	OKo Due	NATIONAL OIL SPILL DETECTION AND RESPONSE AGENCY (NOSDRA)	PTO	30/042520 min 17:0000
3	CLIGIBA, O.	STATE MIN. OF ENVIRONMENT	Soia	Service 30/13/2620
4	ORIKE PATRICK	HOST COMMUNITY REPRESENTATIVE	GEN SEC	30/12/2020 16:20 HAS
_	DPARA FREEDOM	THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA (SPDC)	JIT	30/12/2020-1620405
	IME EFFIONG	THE NIGERIA POLICE FORCE	Tasp/cio	16:25 HRS
1				

	ACKNOWLEDGEMENT OF RECE	IPT OF JIV REPORT COPIES	
S/N	ATTESTATION	NAME	SIGNATURE/DATE
1	DPR copy received by:		SIGNATUREIDATE
2	NOSDRA copy received by:	OKEN Pres	A . 271-1-
3	STATE MINISTRY OF ENVIRONMENT copy received by:	place -	Dus 35/12/200
4	HOST COMMUNITY copy received by	ORIKE PATRICK	Fall maker