JIV report S/N:

Nº 0000257

INCIDENT NO: 182017

(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* Oll L Spill incident Number: FLOWLINE (DWAZA) 5. State: ABIA 6. LGA <u>UKWA -</u> WEST 4. Name of nearest community 7. Type of Production facility/Installation 011 FLOW LINE DEVELOPMENT COMPANY PETROLEUM LIMITED LAND EAST 9. Details of incident MARCH, 2017 a. Date of incident: b. Start date/time of investigation: 21ST MARCH, 2017/12:49 Hours c. Investigation End date: 21ST MARCH. Actual investigation duration, days: DNE(1) DAY d. Description of spill point environment 2017 Recently excavated area Loose soil ☐Firm soil Exposed pipe surface ☐ Swampy ☐Under water □ DrillRig Well Platform (on Water OBSERVED AROUND Additional observations around the spill point: **D**ITCH INVESTIGATION TEAM'S SPILL POINT AS AT TIME OF JOINT ARRIVAL AT SITE. e. Description of leak point (tick as applicable); Hack saw cut Tear (☐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 Others(specify) f. Incident caused by: Third party interference (Sabotage \(\bigcirc \); crude theft \(\Bigcirc \); Line theft \(\Bigcirc \); Accidental 3rd party damage \(\Bigcirc \)) Others (including Mystery spills)_

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

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15. Was there any disruption to the investigation?

[N]/

[Y]

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If yes to item 15 give brief	description:	PLIC	ABL		
D. TYPE/NUMBERS Of 16. Structures / Proper	rties	ANY, FOUNI	WITHIN THE	AREA OF SPRE	AD OF OIL
S/N Type of Structure	MITHIN	Size	EA D	Comm	PACT
17. Crops/Economic 1 S/N Type of crops Y	Trees Young	Medium	Matured	Quantity	Comments
I PALM	3		_4	7 No.	SUPERFICIALLY
TREES		<u> </u>	· -	<u> </u>	BY SPUL
18. Fishing Nets/Fish	Ponds				
S/N Nets/Ponds	Description		Quantity/Size (Comments	
NICKIE IA	(- - 	And	X NI	TURN	<u> </u>
MONE	ALTHIN	HKE		TIVIPA	
19. Others (Specify) i.	 .e. Animal Trans				
S/N Others	Description		Quantity/Size	Comments	
	A 6	. 1	F 1	- 1.45	NAT.
NOVE	WIIHIV	AK	LA U	- M +	ACT
E. GRAPHIC DESCRIP	TION OF LEAK P	OINT (while o	letail report of the	leak point shoul	d be contained in
the leak report, overview sh	ketch of the site shoul	ld be added as a			
ECTION OF	KIMO RIV	ER 3 '			LOWLINE
F 10101 11111	1/0/11/27	/ CHOY	WING D	ACITION	NE
I ICIKI LUKWU	A LO WATER	$\int \int \int dx$	TANK DAVAL	03(1(0))	. 01
r IGIRI-4KWL	EAK POIN	IT (HAC	CK SAW	Cu1).	
		H <i>f</i>	OMM LON ICK SAW (TO 30°CL	CUT FROM	
FROM	IMO RIVE	R 3 W	ELL 37		
To 11	MO RIVER	3 F	LOW STAT	NOI	

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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)

	WGS B	<u> </u>
S/N	Northing LATITUDE	Easting LONG TWOE
-	4.99164	7.1952
_	4.99161	7. 19517
	4.99163	7.1951
	4.39165	7.19500
	4.99155	7.19486
	4. 99156	7.19483
	4.99172	7.194.97
	4.99179	7.19505
_	4.99177	7.19507
	4.99173	7.19566
	4.99172	7.19511
	4.99166	7. 19513
	4.99168	7.19502
		
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	INFORMATION:	
a. Impacte	ed Area Details	
. •	Total calculated area of impact 0-037Hg	
•	Impact within R.O.WYES	
•	Impact outside R.O.W	
b. <u>Volume</u>	of oil recovered before completion of JIV (V _{recJ}):	
	Recovered oil V _{ree} j:	Barrels
comonec	recovery/evacuation from source with no impact to environment: NIL Barrels	
	imated Spilled Volume $V_{Est}(bbls)^* = 0.78$ orted Volume** $V_{rep}(bbls)^* = 0.28885$	
пинанен кер	orted Volume** V _{rep} (bbls)= 0.8 BARREL.	
Folume	estimation was done using an excel based tool, tsee attached for details on the calculation)	
Volume : Reported	estimation was done using an excel based tool,tsee attached for details on the calculation) I spilled volume is an estimate devant notes taken into consideration for estimating the spilled in the box below;	
Volume Reported Write other re	I spilled volume is an estimate levant notes taken into consideration for estimating the spilled in the box below;	
Volume : Reported Write other re	I spilled volume is an estimate	
Volume Reported Write other re	I spilled volume is an estimate levant notes taken into consideration for estimating the spilled in the box below;	
Reported Write other re	I spilled volume is an estimate levant notes taken into consideration for estimating the spilled in the box below;	
Volume Reported Write other re	I spilled volume is an estimate levant notes taken into consideration for estimating the spilled in the box below;	

Any spill volume in excess of - 1 bbl - is rounded up to the next whole number.

Any spill volume in less them I bbl is rounded up to the next 0.1 bbl.

Examples. Calculated volume = 15.3 bbl ----- Reported volume = 16 bbf 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 6e (Deviations) of the JW procedure to use appropriate steps for volume estimation, record the calculation in a plain sheet of paper and attach to the 411 report.

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d.	General	Status	of the	site

i.	Joint investigation of the incident site found that there is no residual impact after the initial response a therefore recommend that the site be closed out	ınd JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Q/

Representatives
eport 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

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f. Appendix 1: Overview sketch of the site

