JIV report S/N:

INCIDENT NO: 1902496

Nº 0000333

Accidental 3rd party equipment impact

(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: 2.Type of incident* D 6. LGA UKWA-WEST 5. State: AB FLOW LINE 7. Type of Production facility/Installation PETROLEUM DEVELOPMENT COMPANY LIMITED/LAND EAST HUB **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 31 AuGust, 2017/13:25 Hours b. Start date/time of investigation: Actual investigation duration, days: DNE (1) DAY c. Investigation End date: 4TH d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area ☐Under water Swampy ZExposed pipe surface ☐Well Platform (on Water ☐ DrillRig Additional observations around the spill point: THE POINT SECTION THE EXPOSED OF THE FLOW LINE SUPPORTED SPDC BY PLATFORMS INSTALLED BY THE ASSET OWNER. e. Description of leak point (tick as applicable); Hack saw cut ☐Drilled hole 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 ☐ Third party tampering with flange, ■ Bulging Outward Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure

☐ Relief valve failure

Others (including Mystery spills)

☐ Valve Failure

☐Others(specify)

f. Incident caused by:

☐Third party interference (Sabotage☐:crude theft☐: Line theft☐: Accidental 3rd party damage☐)

^{*}This can be: at Oil Spitt b) Dvilling fluid Chemical c) Siltation d) construction (e) Encroachment f) Fire,

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g. Spill point coordina						
h. Measuring unit	W0	iS 84	<u>-</u>			
Northing:	LATITIOE)	, ,	Easting: (_ Lめん	ijso€)	
	4.98404		7.170.69			
	1 3 0 1 2 1		//	1		
				T_{-}		
C. RISK ASSESSMEN	т					
10. Type of environn	nent:					
□Land	Swamp	Water	Seasonal	swamp	□Shoreline/	Waterfron
i. Type of	environment to which oil	has spread:				
Land	Swamp	□Water	River	(identify)		-
ii. Weather	condition					
√ Z Rain	□Sunny □Dry	□wet	□windy	□Hot	□cool	
11. Distance from the	nearest sensitive habitat					
☐ Drinking wat ☐ Built up area ☐ Farmlands ☐ Fish Farm/Po ☐ Fishing net			[[[[2 r	,m] ,m; ,m, ,m] ,m] ,m]		
12. Containment mea	sures put in place;		•			
□Booms	Trench	□Dyke	Natural de	pression	□Pit	□None
Others:						
13. Any pictures or vi	deo coverage?		[Y]/ [N]		
14. Further response	repair initiated as at the t	ime of JIV?	[Y] [NJ		
If yes to item 14, give brief de	scription:	PLI	CABI			
15. Was there any dist	ruption to the investigation	n?		N J		

INCIDENT NO: 1902496 JIV report S/N: Nº 0000333 If yes to item 15 give brief description D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Type of Structures Size Description Number Comments 17. Crops/Economic Trees Medium S/N Type of crops Young Matured Quantity Comments 18. Fishing Nets/Fish Ponds S/N | Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps Others Description Quantity/Size Comments E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix 1) SECTION OF IMORIVER I WELL 55 FLOW LINE AT IGIRI-UKWU (OWAZA) SHOWING POSITION OF LEAK POINT (HACK SAW CUT) 60 MM LONG HACK SAW CUT FROM 9 TO 12 0'CLOCK POSITION FROM IMORIVER ! WELL 5

RIVER I FLOW STATION

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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)

(LA(1140E)	Easting (LONGITUDE)
4.98363	7.1785
4.98377	7 17849
4.98386	7.17855
4.98386	7-17849
4·984	7.178.55
4·98421	7.17858
4-98432	7.17856
4.9844	7.17862
4.98326	7.178.55
4-98327	1 7.17863
4.98422	7.17862
4.98385	7. 17845
4-98387	7. 17844
4 -98388	7 · 17849
	7-178 55
4.98408	7.17863 7.17863
4.98386	7. 17863
4-98366	7.17863
4.98 345	7.17862
/ 5	
	Northing (LATITUDE) 4.98363 4.98377 4.98386 4.98386 4.98421 4.98421 4.98326 4.98327 4.98422 4.98385 4.98385 4.98388 4.98388 4.98388 4.98386 4.98386 4.98386

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_	1 % 1 JUN 12 12 12 12 12 12 12 12 12 12 12 12 12	INFORMATION:	
P -	I WE DIED WE	TARREST ALVANAGE	,

G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact Impact within R.O.W YES	
Impact outside R.O.W	-
b. Volume of oil recovered before completion of JIV (V _{recJ}):	 1
Recovered oil V _{recJ} :	Barrels
Controlled recovery/evacuation from source with no impact to environment: Nil Barrels	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* = +2.64	·
Estimated Reported Volume** V ₍₁₅₀ (bb/s)= 43 BARRELS	
*Notes: • Volume estimation was done using an excel based tool.tsee 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: APPLICABLE	
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimate. Conversion of m ² to burrels is Volume (m3) x 6.29: **Round up estimated volume to next whole number using the following Any spill volume in excess of -1 bbt - is rounded up to the next whole number.	on software on site; rules:
 Any spill volume in less than — I libbt — is rounded up to the next 0.1 libbt. 	
Examples: Calculated volume = 15.3 bbl Reported volume = 16 bbl Calculated volume = 0.35 bbl Reported volume = 0.4 bbl	

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

Calculated volume = 0.01 bbl ----- Reported volume = 0.1 bbl

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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 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

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f. Appendix 1: Overview sketch of the site

