INCIDENT NO: 2947192

JIV report S/N:000864 (Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Fountain Incident Number: 2947192 2. Type of incident* OILSPILL 3. Name of Location 1611 EGBENDA - ASSA 4. Name of nearest community ____6. LGA OHAJI-EGBENNA 7. Production Facility/Installation 8. Asset Owner/Hub IHE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA 9. Details of incident a. Date Reported: b. Start date/time of Investigation: 2014 MAY, 20211150HRS c. Investigation End date: __ Day(s) on site: ONE DAY d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area Under water □ Swampy Exposed pipe surface ☐Well Platform (on water) □Drill Rig ✓ Sand bag(s) Additional observations around the spill point: NOT APPLICABLE e. Description of leak point (tick as applicable); ☐Smooth round-edge hole Rough-edge hole Hack saw cut Complete Rupture ☐ Inward dent, ☐ Well head tampering □ Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline Grude 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 Tear (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 fluid/Chemical (c) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal Version 2020/01 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

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15. Was there any disruption to the investigation? [Y] [Y]
If yes to item 15 give brief description:
NOTALLICADLE
16. Was JIV delayed? [Y] [V]
Reason(s): Delayed Community Access Approval Security Challenges Access constraint due to terrain Others (specify) NOT APPLICABLE
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
NOVESCEN MITHIN AREA OF IMPACT
18. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments
S/N Type of crops Young Medium Matured Quantity Comments
NUME OF A MITTIN AREA OF MITTALE
19. Fish/Nets/Ponds S/N Fish/Nets/Ponds Description Quantity/Size Comments
S/N Fish/Nets/Ponds Description Quantity/Size Comments A A A A A A A A A A A A A A A A A A A
20. Others (Specify) e.g. Animal Traps
S/N Others Description Quantity/Size Comments
G. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1) A SECTION OF 16" EGBENTA- ASSA PIPELINE AT OBILE SHOWING 3" AND 2" BALL VALVES INSTALLED A-
20°CLOCK POSITION BY UNKNOWN PERSONS).
3"BALL VALVE/SPILL POINT
2" BALLVALVELT SPILLPOINT & CONCRETE CAST
16" 15 OT 16" EGBEMA-ASSA
PIPELINE AT OBILE
EGBEMA TO ASSA

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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)

S/N	Northing	Easting
	5.395861	6.78975
	5.395861	6.789694
	5.395778	6.78975
	5.39575	6.78975 6.789669
	5 395833	6.789638
		•
/		

a. Impacted Area Details * • Total calculated area of impact (Ha) O'O HA • Impact within SPDC R.O.W YES • Impact outside SPDC R.O.W YES Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) • Wolume of oil recovered before completion of JIV (V real): Recovered oil V real: Barrels C. Net Estimated Spilled Volume V Est(bbls) = 3 · 75 BARRELS Soles: • Volume estimation was done using an excel based tool (see attached for details on the calculation) • Reported spilled volume is on estimate Write other relevant notes taken into consideration for volume estimation or cause of spill: NOT APPLICABLE NOT APPLICABLE NOT APPLICABLE Idealation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site and post in the calculation of the value in excess of 1 bbl is rounded up to the next whole number using the following rules: • Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl. Exemples Calculated volume as 15 bbl were Parented volume = 16 bbl.	INC	SIDENT NO: <u> </u>	1000864
Total calculated area of impact (Ha)	. INCIDENT INFO	ORMATION:	
Impact outside SPDC R.O.W Impact outside SPDC R.O.W Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) Barrels Controlled recovered before completion of JTV (Vrec1): Recovered oil Vrec1: Barrels Controlled recovery/evacuation from source with no impact to environment: AIL Barrels C. Net Estimated Spilled Volume V _{Ext} (bbls)* = 3 · T5 BARRELS Sestimated Reported Volume** V _{res} (bbls)= ALBARRELS 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: NOT APPLICABLE Applicable using the new spill volume estimation software on site moversion of m² to barrels is Volume (m3) x 6.29; **Nound 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. Ary spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.	a. Impacted A	rea Details *	
Impact outside SPDC R.O.W Impact outside SPDC R.O.W Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) Description of JTV (Vrec1): Recovered oil Vrec2: Recovered oil Vrec3: Recovered oil Vrec4: Barrels Controlled recovery/evacuation from source with no impact to environment: AIL Barrels C. Net Estimated Spilled Volume V _{Ext} (bbls)* = 3 · T5 BARRELS Estimated Reported Volume** V _{res} (bbls)= ARRELS Ioles: 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: NOT APPLICABLE Iculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site newersion of m² to barrels is Volume (m3) x 6.29; **Nound up estimated volume to next whole number using the following rules: Any spill volume in nexess 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.	• To	tal calculated area of impact (Ha)	
Impact outside SPDC R.O.W YES			
Express in Hectares (Ha) b. Volume of oil recovered before completion of JTV (Vrca): Recovered oil Vreal: Reparted: Barrels C. Net Estimated Spilled Volume Vreal(bbls)* = 3 · 75 RARROLS Controlled recovery/evacuation from source with no impact to environment: NIL Barrels C. Net Estimated Spilled Volume Vreal(bbls)* = 3 · 75 RARROLS College: 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: NOT APPLICABLE 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 and provides to both the control of market is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules: Any spill volume in less than 1 bbl is rounded up to the next whole number. Any spill volume in less than 1 bbl is rounded up to the next whole number.			
Recovered oil V _{rec} : 2BARRELS Controlled recovery/evacuation from source with no impact to environment: NIL Barrels c. Net Estimated Spilled Volume V _{Est} (bbls)* = 3 · 75BARRELS Sestimated Reported Volume** V _{rep} (bbls)= ABARRELS Total 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: Not APPLICABLE Inversion 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 1 bbl is rounded up to the next 0.1 bbl.	Round off to 2 decime	al places if area is > 100 m² on to 4 desired to 100 2 (1155 a cost	(1, 0.0009)
Recovered oil Vree: 2 BARRELS Controlled recovery/evacuation from source with no impact to environment: NIL Barrels c. Net Estimated Spilled Volume V _{Est} (bbls)* = 3 · 75BARRELS [Sestimated Reported Volume** V _{rep} (bbls)= ABARRELS [Jotes: • 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: NOT APPLICABLE [Inculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site and the site of the site of the spill volume is consideration of miles to be done on site as far as practicable using the new spill volume estimation software on site and miles is the spill volume in estimation software on site and miles is the 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.	b. Volume of o	oil recovered before completion of JIV (VrecJ):	×
Controlled recovery/evacuation from source with no impact to environment: Nil Barrels		Recovered oil VrecJ: DR 200510	Barrels
C. Net Estimated Spilled Volume V _{Est} (bbls)* = 3 · 75BARREES Sestimated Reported Volume** V _{rep} (bbls)= 4L ARRELS Otes: 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: NOT APPLICABLE Includition of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site and the spill volume in the spill volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules: Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.	Controlled reco	overy/evacuation from source with no impact to environment:	
Cotes: 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: NOT APPLICABLE Caulation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site aversion of m³ to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules: Any spill volume in less than 1 bb1 is rounded up to the next whole number.		Barrels	
Description of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site version of m' to barrels is Volume (n3) x 6.29; **Round up estimated volume to next whole number using the following rules: Any spill volume in less than 1 bb1 is rounded up to the next whole number.	c. Net Estima	ited Spilled Volume V _{E-1} (bbls)* = 2 . TER A COSt C	Con 2 to 10 7 10
 version of m² to barrets is votume (m3) x 0.29; **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. 	 Volume estimate Reported spille 	nt notes taken into consideration for volume estimation or cause of spill:	
 Any spill volume in less than I bbl is rounded up to the next 0.1 bbl. Any spill volume in less than I bbl is rounded up to the next 0.1 bbl. 			
Examples: Calculated volume = 15 3 bbl Panartad volume = 16 141	Any spill volume	s is volume (m3) x 0.29; **Rouna up estimated volume to next whole number using the following e in excess of \(\) l bbl \(\) is rounded up to the next whole number.	on software on site; rules:
Calculated volume = 13.3 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.	Examples:		

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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 therefore recommend that the site be closed out	and JIT
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]: ✓	
• 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 ap	plicable

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f. Appendix 1: Overview sketch of the site

