JIV report S/N:

INCIDENT NO: 1738804

(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: 1738804 2.Type of incident\*\_OIL SPILL 3. Name of Location KANBO WELLS - 7 L/S AND 9T WELLHEADS CLUSTER 4. Name of nearest community AGBIDIAMA 5. State: BAYELSA 6. LGA EKEREMOR 7. Type of Production facility/Installation WELLHEAD CLUSTER SHELL PETROLEUM DEVELOPMENT COMPANY NIGERIA LIMITED/SWAMP WEST B. INCIDENT INFORMATION: 9. Details of incident 25TOCTOBER, 2016 b. Start date/time of investigation: 27TH OCTOBER, 2016 AT 1425thes c. Investigation End date: 27 TH OCTOBER, 201 Actual investigation duration, days: ONE DAY d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil Exposed pipe surface ☐Under water □ Swampy Well Platform (on Water DriffRig Additional observations around the spill point: ON ASSESSMENT MAST INOTASTICATION TWO THE OBSERVED THAT THE CAMERON CONTROL UNIT (CCU) ALTUATORS ON KANBO WELLS 71 AND 95 WERE REMOVED BY UNKNOWN PERSONS, WHILE THE CCU ACTUMOR ON KANBO WELL-9T WAS TAMPERED WITH 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 3<sup>rd</sup> party equipment impact ☐ Valve Failure Relief valve failure Dothers(specify) THEFT OF CCU ACTUATORS f. Incident caused by: ☐ Third party interference (Sabotage ☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐) Operational -Others (including Mystery spills)\_

<sup>\*</sup>This can bey a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

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g. Spill point coordinates h. Measuring unit  WGS 84	•
Northing:	Easting:
SP = 4.876433	5.667336
C. RISK ASSESSMENT	•
10. Type of environment:	3+
□Land ☑Swamp □Water	Seasonal swamp Shoreline/Waterfront
i. Type of environment to which oil has spread:	
□Land □Swamp □Water	River (identify)
ii. Weather condition	•
□Rain □Sunny □Dry □Wet	□Windy □Hot □cool
11. Distance from the nearest sensitive habitat	
☐ Government reserved and designated protected area ☐ Drinking water source ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net ☐ Others (specify).	[ ,m] [ ,m] [ ,m] [ ,m] THE VICINITY
12. Containment measures put in place;	
□Booms □Trench □Dyke	□Natural depression □Pit ■None
Others:	. •
13. Any pictures or video coverage?	[Y] [N]
14. Further response/repair initiated as at the time of JIV?	[Y] [W]
If yes to item 14, give brief description: NOT APPLIC	
15. Was there any disruption to the investigation?	[Y] [W]

INCIDENT NO: 1738804 JIV report S/N: NO 0000376 If yes to item 15 give brief description: APPLICABLE D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Type of Structures Description Size Number Comments 17. Crops/Economic Trees Quantity S/N Type of crops Young Medium Matured Comments 18. Fishing Nets/Fish Ponds Nets/Ponds Description Quantity/Size Comments S/N 19. Others (Specify) i.e. Animal Traps S/N Others Quantity/Size Comments Description 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)
SECTIONS OF KANBO WELLS - 74/S AND 97 WELLHEADS CLUSTER AT AEBIDIAMA SHOWING; POSITIONS OF STOREN CLUS ON KANBO TAMPERED COUL ON KANBOAT POSITION OF STOLEN POSITION OF STOLEN. CCU ACTUATION CCU ACTUATOR KANBO 97 WELLHEAD KANBO FLIC MELLHEND IMPERED CCU ACTUATOR

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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)

0.07	Northing WGS 8	<u> </u>
S/N	Northing	
	4.876467	5.667332
	4.016401	5. 66 755 2
	4.8764	5.66732
	4.87642	5.6673
	F-87-642	5.0073
	4.876455	5.66736
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G.	INC	IDEN	T INI	FORM	ATION:

INCIDENT INFORMATION:	
. Impacted Area Details	•
Total calculated area of impact	<u>.</u> .
• Impact within R.O.W	
Impact outside R.O.W	
. Volume of oil recovered before completion of JIV (Vreed):	
Recovered oil V <sub>rec.j</sub> : MIL	Barrels
Controlled recovery/evacuation from source with no impact to environment:	
NIL Barrels	:
· · · · · · · · · · · · · · · · · · ·	•
. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =	
	•
0.12 BBL	
timated Reported Volume** V <sub>rep</sub> (bbls)= 0.2 BBL	·
lotes:  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 estimating the spilled in the box below:	
NOT APPLICABLE	

Conversion of m2 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.

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 volume estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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d.	General	Status	of t	he	site
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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	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]:
- 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

