JIV report S/N:

Nº 0000095

INCIDENT NO: 1506818

(Note: As practicable as possible the JTT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 1506818 2.Type of incident\* Oll\_ NKPOKU - BOMU PIPELINE 5. State: RIVERS 6. LGA OBID / AKPOR 4. Name of nearest community PIPELINE 7. Type of Production facility/Installation \_ [] [] PETROLEUM DEVELOPMENT COMPANY LIMITED / PIPELINE 9. Details of incident TH OCTOBER, 2015 a. Date of incident: b. Start date/time of investigation: 20TH OCTOBER, c. Investigation End date: 20 TH O CTOBER, Actual investigation duration, days: ONE (1) DAY d. Description of spill point environment 2015 Loose soil Recently excavated area ☐Firm soil □Swampy ☐Exposed pipe surface Under water ☐ DrillRig ☐Well Platform (on Water CONHECTIONS To e. Description of leak point (tick as applicable); Tear ( ☐Hack saw cut ☐Drilled hole ☐ Well head tampering ☐ Inward dent. Complete Rupture ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ Failed Clamp, ☐ Saver-pit over flow ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, ☐ Bulging Outward ☐ Third party tampering with flange, Third party tampering with valve setting Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3<sup>rd</sup> party equipment impact ☐ Relief valve failure ☐ Valve Failure Others(specify) f. Incident caused by: Third party interference (Sabotage□;crude theft□; Line theft□; Accidental 3<sup>rd</sup> party damage□) Others (including Mystery spills) Operational

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

g. Spill point co	1	GS 84	•	w. No	0000095
Northing	···	<del> </del>	Easting: (LONG)	TUDE	)
4.8	387"		7.06289°		
					<u></u>
į					<del></del>
10. Type of en					
Land	☐ Swamp	□Water	Seasonal swamp	Shoreline/	Waterfront
i. Ty	pe of environment to w	hich oil has spread:	•		•
<b>Z</b> Land	☐Swamp	□Water	☐River (identify)	•	-
ii. W	eather condition				
□Rain	<b>√</b> Sunny	□Dry □Wet	□Windy □Hot	Cool	
11. Distance fr	om the nearest sensitive	habitat			
□ Drinki ☑ Built u □ Farmla □ Fish Fi □ Fishing	ends arm/Pond	,	[ ,m] [ ,m] [ 15 ,m] [ ,m] [ ,m] [ ,m]	·	
12. Containme	nt measures put in place	;	•		
Booms	□т	rench Dyke	✓ Natural depression	<b>✓</b> Pit	None
Others	BUND WALL,	EXCAVATED	DITCH AROUN	SALL	POINT
13. Any picture	es or video coverage?		[X] [N]		
14. Further re	sponse/repair initiated as	s at the time of JIV?	. [Y]/[N]		
yes to item 14, give		ASE OIL AR	LOUND LEAK PO	AW THIC	S DONE. A
Y CLAMPIN	ONCLUDING TO IG WAS PLA any disruption to the inv	MNED.	ER LEAK WAS OBS	erved An	ID REPAIR

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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 S/N | Type of Structures Description Size Number Comments 17. Crops/Economic Trees Quantity Medium Matured Type of crops Young Comments 18. Fishing Nets/Fish Ponds Quantity/Size Nets/Ponds Comments Description 19. Others (Specify) i.e. Animal Traps Others Quantity/Size Description Comments E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, every new sketch of the sale should be added as an appendix 1) SECTION OF 136" NKPOKU -2" SPOOL PIECE (PIPE) BOMU PIPELINE 2" ELBOW AT ATALI SHOWING 2" SPOOL ONE (1) NO. 2" PIECE (PIPE) CRUDE OIL THEFT POINT INSTALLED BY BALL VALVE VALVE UNKNOWN PERSON(S) HANDLE 2" NIPPLE 12 o' CLOCK POSITION. Page 3 of 8

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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	84
S/N	Northing: LATITUDE	Easting : LONGITUDE
1.	4.88873"	7.06289°) `A
2,	4.88867"	7.06289 AREA
	4.88869	7.0628°
	4,88871°	7.06277
5.	4.8885	7.06238'\ -0'
6.	4.88849"	7.06238°) - B' 7.06241°   REA
7.	4.888310	7.06203° 1
	4.88835°	7.06204°
	<u> </u>	,
9	4.88807°	7.0615°7 °(.
10.	4.88804°	7.06159° AREA
11.	4.88772°	7.0611
	4.88776	7.06/05.)
<u>.</u>		
		•
		,

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. INCIDENT INFORMATION:
a. Impacted Area Details
Total calculated area of impact 0 · 0 7 + 11 q
Impact within R.O.WYES
Impact outside R.O.WYES
b. Volume of oil recovered before completion of JIV (V <sub>ree</sub> ):
Recovered oil V <sub>reeJ</sub> : 29 Barrels
Controlled recovery/evacuation from source with no impact to environment:
NIL Barrels
·
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =
55.96
timated Reported Volume** V <sub>rep</sub> (bbls)= F C PAQA++ A
timated Reported Volume** V <sub>ren</sub> (bbls)= 56 BARRELS
ntex:
<ul> <li>Volume estimation was done using an excel based tool, (see attached for details on the calculation)</li> <li>Reported spilled volume is an estimate</li> </ul>
Write other relevant notes taken into consideration for estimating the spilled in the box below:
Λ
NOT APPLICABLE
I NO I ATTLICABLE
·
·
culation of the property estimated values is to be dear as site as for some in the second solution of the property of the second solution
culation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site; wersion of $m^3$ 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 bhl Reported volume = 16 bhl Calculated volume = 0.35 bbl Reported volume = 0.4 bbl

Wherever this estimation tool is not applicable please refer to paragraph be (Declations) of the AU procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the AU 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 a therefore recommend that the site be closed out	md JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Q/

#### e. Representatives

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

- Host Community:
- Department of Petroleum Resources [DPR]: 5
- 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

