JIV report S/N:

Nº 0000181

INCIDENT NO: 164 0339

(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: 1640339 2. Type of incident* DI SPILL AGBADA 2 - NKPOKU PIPELINE 4. Name of nearest community RUK POKWU 5. State: RIVERS 6. LGA OBIO/AKPOR 7. Type of Production facility/Installation DIL PIPELINE PETROLEUM DEVELOPMENT COMPANY LIMITED / PIPELINE SHELL DF NIGERIA 9. Details of incident a. Date of incident: 24TH b. Start date/time of investigation: 2ND JUNE, 2016/14:05 Hours, JUNE, 2016 c. Investigation End date: 9TH AUGUST 20 Actual investigation duration, days: FIVE (5) DAYS d. Description of spill point environment ☐ Firm soil Loose soil Recently excavated area ☐Under water ☐Swampy Exposed pipe surface ☐Well Platform (on Water □ DrillRig Additional observations around the spill point: TWO No. 2" ILLEGAL FITTINGS, BEING THE SPILL POINT AND A NON-LEAKING CRUDE OIL THEFT POINT, WERE BOTH OBSERVED, UPON EXPOSURE, CONCEALED IN CAST CONCRETE WITH WOODEN FORMWORK (PLANKS) LEFT IN PLACE e. Description of leak point (tick as applicable); ☐Drilled hole Hack saw cut ☐Complete Rupture ☐ inward dent, ☐ Well head tampering ☐ Failed Clamp, Failed Weld-on illegal hot tap valve ☐ Missing Pipeline/Flowline ✓ Crude 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, ☐Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure ☐ Valve Failure Relief valve failure Accidental 3rd party equipment impact Others(specify) f. Incident caused by: Third party interference (Sabotage□; crude theft□; Line theft□; Accidental 3rd party damage□) Others (including Mystery spills) ☐ Operational

^{*}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?

[Y] [N]

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If yes to item 15 give brief description:

COMMUNITY REPRESENTATIVES DISRUPTED THE TILV.

AND FINALLY ON 11TH JUNE 2016 AT WHIGH TIME.

THE EXPOSURE OF THE SPILL FOINT WALLEH WAS OBSERVE D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Comments Size Number Description Type of Structures Crops/Economic Trees Comments Matured Quantity Medium Young S/N | Type of crops 18. Fishing Nets/Fish Ponds Quantity/Size Comments S/N Nets/Ponds Description 19. Others (Specify) i.e. Animal Traps Quantity/Size Comments Description E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in CONCRETE the leak report, overview sketch of the site should be added as an appendix 1) SECTION OF AGBADA 2 NKPOKU WOOD EN PIPELINE For M Work AT RUKPOKWU (PLANKS) SHOWING 2 NO. 2" CRUDE OIL THEFT POINTS. NON-LEAKING NOT DRILLED o St Tiol 200MM BETWEEN THROUGH) AT CLOCK POSITION. AGBADA NKPOKU MANIFOLD

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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)

		
S/N	Northing LATITUDE	Easting LON GTUDE
	4.91839	7.00212
	4.91836	7.00218
	4.91837	7.00220
	4.91851	7. 00222
	4.91845	7.00222 7.00225
	. 4.91850	7. 00228
	. 1 7/03	
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a .	Impacted Area	Details
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•	Total calculated area of impact	0-015 th	
•	Impact within R.O.W	YES	
•	Impact outside R.O.W	No	

b.	Volume of oil recovered	d before completion of JIV ($V_{rec.l}$
		- peror + compression of or a	· rec

Barrels Recovered oil V_{rec.I}: Controlled recovery/evacuation from source with no impact to environment:

c. Net Estimated Spilled VolumeV _{Est} (bbls)* 0.99
Estimated Reported Volume** V _{rep} (bbls)= BARREL

*Notes:

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;

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; Conversion 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 I bbl is counded up to the next 0.1 bbl.

Calculated volume = 15.3 bbl ----- Reported volume = 16 bbl Examples: 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 be (Deviations) of the AV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attack to the AV report

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d. General Status of the sit	d.	General	Status	of the	site
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	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	Q/

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

