INCIDENT NO: 1484216 JIV report S/N:

Nº-0000042

(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: 1484216 2. Type of incident\* 014 SPILL 3. Name of Location 28 " NKPOKU - BOMU PIPELINE 4. Name of nearest community KPORGHOR 5. State: RIVERS 6. LGA TAI 7. Type of Production facility/Installation O'L PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA (SPAC) **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 12TH SEPTEMBER 2015 b. Start date/time of investigation: 18TH SEPTEMBER 2015 c. Investigation End date: 13TH SEPTEMBER Actual investigation duration, days: ONE (1)DAY d. Description of spill point environment Firm soil Recently excavated area □Loose soil ☐Under water Swampy Exposed pipe surface ☐Well Platform (on Water □ DrillRig Additional observations around the spill point: THE TEAM OBSERVED A 6" VALVE INSTALLED AT 12 O'CLOCK POSITION WITH A 6" ELBOW REDUCER CONNECTED TO A 4" PIPE RUNNING OVER INTO THE 2 KKOMET**R**ES BUSH. e. Description of leak point (tick as applicable); Hack saw cut ☐Drilled hole Tear ( Complete Rupture Inward dent, ☐ Well head tampering ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve Failed Clamp, 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 ☐Flare System/Bund wall failure Cold vent ☐ Surge vessel overflow, ☐ Valve Failure ☐ Relief valve failure Accidental 3<sup>rd</sup> party equipment impact Others(specify) f. Incident caused by: Third party interference (Sabotage : crude the ft : Line the ft : Accidental 3<sup>rd</sup> party damage : ☐ Operational ☐Others (including Mystery spills)

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

INCIDENT NO: 1484216 JIV report S/N: Nº 0000042 g. Spill point coordinates WGS 84 h. Measuring unit Northing: Easting: LONG 22523 C. RISK ASSESSMENT 10. Type of environment: \\ \allee \Land □Water □ Swamp ☐Seasonal swamp ☐Shoreline/Waterfront Type of environment to which oil has spread: Land □ Swamp □Water ☐River (identify) ii. Weather condition Dry `\ □Wet ☐ Hot □cool □Rain □ Windy Sunny 11. Distance from the nearest sensitive habitat Government reserved and designated protected area □ Drinking water source lm, Built up area [m, □ Farmlands 50.m] ☐ Fish Farm/Pond ,m] ☐ Fishing net ,m) Others (specify). 12. Containment measures put in place; Trench Dyke ☐Natural depression ☐None **□**Booms Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description: COMMENCED

15. Was there any disruption to the investigation?

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If yes to item 13 give blief desc	7 A C	1	<i></i>	<b>D</b>	<del></del>	
-NOI	<u> AP</u>	YL.	CA	BL	<u>-                                    </u>	
D. TYPE/NUMBERS OF PI		ANY, FOUNE	WITHIN THE	AREA OF SPE	READ OF OIL	
16. Structures / Properties  S/N Type of Structures	Description	Size	Number	Com		۱ ·
3/14 Type of Structures	Description	3 4				1
NONE Y	<del>/////</del> //	/ <i>  </i>   <del> </del>	ARE	A OF	= /MPAC	1
17. Crops/Economic Tree	3	_	· -			-
S/N Type of crops Your	2	Medium	Matured	Quantity	Comments	4
NONE WI	THIN	THE	ARE	A OF	MPAC	T
		<u>.                                    </u>				_
18. Fishing Nets/Fish Pon		· - <sub>T</sub>				<b>1</b>
S/N Nets/Ponds	Description		Quantity/Size	Comments	<u>-</u>	$\frac{1}{2}$
NONE WITH	HN TH	EA	REA	OF 11	MPACT	<b>1</b>
19. Others (Specify) i.e.	Animal Traps					- -
S/N Others	Description		Quantity/Size	Comments		-
MINE WIT	HIN TH	EA	REA	OF IN	1PACT	1
T CD - DIVIS DESCRIPTIO	NI OF I BASE BY	OINT Aubile o	latail manage of th	a look noint she	uld be contained in	J
E. GRAPHIC DESCRIPTION the leak report, overview sketch	N OF LEAK P h of the site shoul	d be added as t	netati report oj in an appendix 1) 🗚	e leak point site SECT 19	ON OF 28"	NKPOKU
BOMU PIPELINE	AT KPOR	CHIR S	HOWING	6" VALVE	INSTALLED	AT 12064
2 D'CLOCK POSITI	ON BY	UNKNOW	N PERSO	N(3)		
		∕6" ELE	BDW :			
		REBUC	ER			
0		M			MOTALLED	

NKPOKU Page 3 of 8 BOMU

AT 12 O'CLOCK POSITION VALVE HANDLE/SPILL POINT

6" FLANGE

4" PIPE

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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	Easting
	-	
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1/		$\langle \cdot \rangle$
10		- (XI)

28" NKPOK	(U - BOMU PIPELINI	AT KPORGHOR	
	NUMBER: 2015_14		
POINT	LONGITITUDE	LATITUDE	<u> </u>
1	7.22501	4.71884	
2	7.22619	4.71774	
3	7.22618	4.71773	
4	7.22596	4.71794	
5	7.22575	4.718	
6	7.22572	4.71797	
7	7.22528	4.71822	
8	7.22522	4.71833	
9	7.22519	4.71836	
10	7.22511	4.71842	
11	7.22503	4.7185	
12	7.22523	4.71862	
13	7.22616	4.71776	
14	7.22511	4.71842	
15	7.22519	4.71836	
16	7.22522	4.71833	
17	7.22528	4.71822	
18	7.22572	4.71797	
19	7.22575	4.718	
20	7.22596	4.71794	
21	7.22596	4.71794	
22	7.22614	4.71775	
23	7.22603	4.71778	
24	7.22586	4.71775	
25	7.22578	4.71775	
26	7.22556	4.71786	-
27	7.22531	4.71808	
28	7.22531	4.71817	
29	7.225	4.71839	

Jal - 13/09/2015

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_	PRIMIT	The street of the street of	ESTECO POR	
	1.74	43F ~ F		MATIONS

- 0.4619 Ha Total calculated area of impact Impact within R.O.W\_ Impact outside R.O.W
- b. Volume of oil recovered before completion of JIV (Vreed):

Recovered oil V<sub>reeJ</sub>: Barrels

Controlled recovery/evacuation from source with no impact to environment;

Net Estimated Spilled VolumeV<sub>Est</sub>(bbls)\* = 863.81 BARRELS Estimated Reported Volume\*\* Vreg(bbls)=

\*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:

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 burrels is Volume (m3) x 6.29; \*\*Round up estimated volume to next whole number using the following rules:

- Any spill volume in excess of I 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 bbl ------ Reported volume + 16 bbl Calculated volume = 0.35 bbl ------ Reported volume = 0.4 bbl Calculated volume = 0.01 bbf ----- Reported volume = 0.1 bbf

Wherever this estimation food 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 attach to the JIV report.

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	d.	General	Status	of	the	sit	€
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í.	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	nd JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	W

#### e. Representatives

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

- 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 finding.

Tick as applicable

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f. Appendix 1: Overview sketch of the site

