JIV report S/N:

Nº 0000185

INCIDENT NO: 1698 297

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1698297 1. Spill incident Number: 2. Type of incident\* 1 OBIGBO NORTH -4. Name of nearest community OGALE 5. State: RIVERS 6. LGA ELEME PIPELINE 7. Type of Production facility/Installation [1] PETROLEUM DEVELOPMENT COMPANY LIMITED / PIPEL INE 9. Details of incident August a. Date of incident: 2 2016/15:35 Hours b. Start date/time of investigation: 26TH AUGUST, AUGUST, Actual investigation duration, days: The Old AYS c. Investigation End date: 2 17H d. Description of spill point environment 2016 ☐Firm soil Loose soil Recently excavated area ☐Under water ☐Swampy Exposed pipe surface ☐Well Platform (on Water □ DrillRig Additional observations around the spill point: UPON EXPOSURE JOINT INVESTIGATION POLYKENE TAPE COATING SURROUNDING THE FOUND TO HAVE BEEN TAMPERED WITH BY **LINKNOWN** e. Description of leak point (tick as applicable); ☐ Drilled hole ☐ Hack saw cut Tear ( ☐ Inward dent, Complete Rupture ☐ Well head tampering ☐ Failed Weld-on illegal hot tap valve ☐ Failed Clamp, . Missing Pipeline/Flowline 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 3rd party equipment impact 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)

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

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e. S	pill point coordinat	es				
_	feasuring unit		WGS 6	24		
	Northing:			Easting:		
	4.8	331020		7.1554	94	
				<b>_</b>	/	
C. RIS	K ASSESSMENT	•				
	Type of environme					
	Land	□Swamp	□Water	Seasonal swamp	□Shoreline/	Waterfront
	i. Type of e	environment to whi	ch oil has spread:			
		_	-	_		
	Land	Swamp	□Water	☐River (identify	/)	_
	ii. Weather	condition				
	<b>⊠</b> Rain	□Sunny □	Dry   Wet	□Windy '□Ho	ı 🗆 cool	
11	Distance from the	*	•			,
		eserved and designer source	nated protected area	[m, ] [m, ] [m, ] [m, <b>£</b> ] [m, ]		
. 12	Containment meas	sures out in place:		•		
	Booms	• •	ench Dyke	Natural depression	Pit	□None
	Others:					
13.	Any pictures or vi	deo coverage?		[Y] [N]		
14.	Further response	repair initiated as:	at the time of JIV?	. [Y] [N]		
MOP	PING OF SERWARDS,	PILL IMPA	FREE-		MATERIAS DONE	L AND WHILE CLAMPING
. 15.	Was there any dis	ruption to the inves	stigation?	[Y] [N]		

JIV report S/N: N 0000185 INCIDENT NO: 1698297 If yes to item 15 give brief description: 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 S/N Type of crops Young Medium Matured Quantity **Comments** 18. Fishing Nets/Fish Ponds Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps S/N Others Description Quantity/Size Comments 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) SECTION OF I" ELBOW OBIGBO NORTH-OGALE PIPELINE T OGALE SHOWING ONE (1) No. CRUDE OIL THEFT POINT INSTALLED AT LOCALLY FABRICATED CLOCK POSITION CLAMP BY UNKNOWN PERSON(S).

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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)

	W43	<u> </u>
S/N	Northing	Easting
	4.83109	7.15556
··· · - <del>-</del> · ·	4.83097	7.15558
	4. 83 091	7.15556
	4.83091	7.15551
	4. 83 073	7.155 46
	4. 83028	7.15546
	11. 82982	2.15537
	1L. Q294L	7.155 30
	4.82892	7.15523
	4. 82850	7.15521
	4. 82851	7.15517
		7.155 16
	4.82862	2.155.20
	4.82862	7.15(27
	4. 82982	7.15533
	4.82015	7.155214
-	4.83015	7.15539
	4. 83098	<del>サーランプー</del>
		7.15513
<del></del>	1. 02 11 0	7.100
		7.15544
~	4 83105	7.15553
	A- 02 10 1	T 1333 3
1		

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- 1			<b>ENFORM</b>	

a. Impacted Area Deta	atts	Is
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- Total calculated area of impact 0.20+A
- Impact within R.O.W

b. Volume of oil recovered before completion of JIV (VrecJ):

Recovered oil V<sub>rect</sub>: N11 Barrels

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

N11 Barrels

c. Net Estimated Spilled VolumeV<sub>Est</sub>(bbls)\* = 21 BARRELS

Estimated Reported Volume\*\* V<sub>rsp</sub>(bbls)=

21 BARRELS

#### \*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;

Not

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<sup>4</sup> 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.
- July 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 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 plant sheet of paper and attach to the AV report.

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d.	General	Status	of the	gita
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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	Q/

#### e. Representatives

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

- 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:

Tick as applicable

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f. Appendix 1: Overview sketch of the site

