JIV report S/N:

Nº 0000168

INCIDENT NO: 1635930

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1635930 I. Spill incident Number: ___ 41/42/43 (FLOWLINES) CLUSTER 3. Name of Location 5. State: RIVERS 6. LGA | KWERRE 4. Name of nearest community OMUNKOTI 7. Type of Production facility/Installation ROLEUM DEVELOPMENT COMPANY 9. Details of incident MAY, 2016 a. Date of incident: b. Start date/time of investigation: 20TH MAY, 2016/11:04 Hours c. Investigation End date: 20 TH MAY, 2016 Actual investigation duration, days: 0NE(1) DAY d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area Exposed pipe surface ☐Under water Swampy Well Platform (on Water DrillRig Additional observations around the spill point: LEAK
THE WELL 43 L FLOWLINE WITHIN ION JOINT (LE e. Description of leak point (tick as applicable); Tear (☐Drilled hole Hack saw cut ☐ Well head tampering Complete Rupture ☐ Inward dent. ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ 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 ☐Flare System/Bund wall failure □Cold vent ☐ Surge vessel overflow, Accidental 3rd party equipment impact Relief valve failure ☐ Valve Failure INSULATION JOINT Others(specify) DAMAGED FLOW LINE CATHODIC f. Incident caused by: ☐Third party interference (Sabotage☐;crude theft☐; Line theft☐; Accidental 3rd party damage☐) Dothers (including Mystery spills) **EQUIPMENT** FAILURE, DUE ☐ Operational PREVIOUS FIRE INCIDENT

^{*}This can be: a) Oil Spill b) Drilling fluid Chemical c) Siltation d) construction c) Encroachment f) Fire.

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-	ill point coordinate		63ij					
h. Me	easuring unit Northing:	MGS	84		Easting:	1 ===		
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	4.931	<u>953 </u>			子.0	2146		
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DISK	ASSESSMENT		•					
	Type of environme	ent:						
	Land	☐Swamp	П	Vater	□ Seasona	d swamp [Shoreline/\	Waterfront
'	•	•			LT Season	n swamp c	SHOTCHHO!	W ALC: HOIR
	i. Type of e	nvironment to	which oil h	ias spread:				
,	∠ Land	□ Swamp	ב	Water	□Riv	er (identify)		- .
	ii. Weather	condition						
	Rain	Sunny	□Dry	□wet	□Windy	□Hot	□cool	
11.	Distance from the	nearest sensitiv	e habitat					
	☐ Government r ☐ Drinking wate ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pot ☐ Fishing net ☐ Others (specif	r source		rotected area		[m, [m, [m, [m, [m, [m,		
12.	Containment meas	sures put in pla	ce;		•			
	Booms		Trench	Dyke	□Natural	depression	□Pit	□None
	Others: CON	CRETE	bRAIN	IAGE				
	Any pictures or vi	-	•		[Y]/	'[N]		
14.	Further response		Las at the t	ime of JIV?	[Y]	[N]		•
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r yes to it	tem 14, give brief de	scription:	APF	LIC	ABLI	<u></u>		

JIV report S/N: Nº 0000168 INCIDENT NO: 1635930 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 Type of Structures Description Size Number Comments 17. Crops/Economic Trees S/N Type of crops Young Medium Quantity Matured Comments 18. Fishing Nets/Fish Ponds S/N Nets/Ponds Description Quantity/Size **Comments** AGBADA 19. Others (Specify) i.e. Animal Traps 2 WELL S/N Others Description Quantity/Size Comments 43 L FLOWLINE ail report of the E. GRAPHIC DESCRIPTION OF LEAK POINT (while stail the leak report, overview sketch of the site should be added as an ap-AGBADA 2 WELL 435 FLOW LINE DAMAGE TO FLOWLINE **DUE** TO IMPACT -OIL STAINS OBSERVED BESIDE LEAK POINT FROM PREVIOUS FIRE INCIDENT DISUSED FLOW LINE SECTION UT MES CLUSTE LINES HOWNELL SHOWNELL SUSPECTED OMUOHIA OMUOKOJI TOOMI LEAK POINT DAMAGED INSULATION CATHORINATION FIRE PREVIOUS

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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		,		
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3⋅	4	. 93044		7.	02144	_		
4.	4	. 93050	_		02147			
5.	4	. 93050		7	02150			
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7.		1. 93056	- · · · -	7	02147			
8.		93054		7	.02142			
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G.	INC	IDE	NT	INFO	DRM	ΛT	TON	i:

a. Impacted	l Area Details
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	•	Total calculated area of	impact 0 100	74 Hg	
	•	Impact within R.O.W_	755	·	
	•	Impact outside R.O.W	NIL		
b. <u>Volu</u>	me	of oil recovered befor	e completion of JIV	$(V_{rec,l})$:	
			Recovered oil V _{rec.}	Nii	Barrels
				1301	
Contro	lled	recovery/evacuation fr	om source with no im	pact to environment:	

c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	0.09
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

Weise when the second control is a control in the second control

Write other relevant notes taken into consideration for estimating the spilled in the box below:

THE SPILL-IMPACTED AREA IS APPROXIMATELY 80% OF THE TOTAL CALCULATED AREA OF IMPACT.

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 m⁴ 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 - l bbl - is rounded up to the next whole number,

Any spill volume in less than - 1 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 Colculated volume = 0.01 bbl ------- Reported volume = 0.1 bbl

Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JW procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the JW report

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d.	Genera	LS	tatue	of	the	cite
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i.	Joint investigation of the incident site found that there is no residual impact after the initial response at 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

