INCIDENT NO: 1484844 JIV report S/N:

Nº 0000077

(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: 1484844 2. Type of incident\* OIL SPILL 3. Name of Location ETELEBOU FLOWSTATION MANIFOLD 4. Name of nearest community OGBOLOMA 5. State: BANELSA 6. LGA YENAGOA 7. Type of Production facility/Installation FLOW STATON MANIFOLD 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED/ PIPELINE 9. Details of incident a. Date of incident: 11TH SEPTEMBER, 2015 b. Start date/time of investigation: 21ST SEPTEMBER, 2015/1530HOURS c. Investigation End date: 215 September, Actual investigation duration, days: ONE (1) DAY d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area DExposed pipe surface (INJECTION HOSE) ☐Under water **□**Swampy ☐Well Platform (on Water ☐ DrillRig Additional observations around the spill point: SPILL WAS OBSERVED TO HAVE OCCURRED ON THE 4" INJECTION HOSE WITHH AN AUXILLIARY PUMP UNIT NEAR ETELEBON FLOWSTATION. e. Description of leak point (tick as applicable); ☐ Tear ( Drilled hole Hack saw cut ☐Complete Rupture ☐ Inward dent, ☐ Well head tampering ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ 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, □Coid vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure ☐ Valve Failure Relief valve failure Accidental 3rd party equipment impact DONNERS(specify) FALLED HERETISH THE f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3<sup>rd</sup> party damage☐) Doperational Others (including Mystery spills)

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

	INCIDE	NT NO: <u>14</u>	84844	JiV r	eport S/N:	Nº 000	0077
g. S	pill point coordinat	es					
_	Leasuring unit		Was	. &Y		1	
	Northings (	ATITUSE)		Easting:	LONGITU	(30	
	5.	025356		G	.36062		
				-			
						<del></del>	ļ
C. RIS	K ASSESSMENT	ī					
10.	Type of environme	ent:					
	<b>L</b> and	□ Swamp	□Water	Season	al swamp 🔲 S	shoreline/Waterfro	nt
	i. Type of e	environment to which	ch oil has spread:				
	Land	Swamp	□Water	□Riv	er (identify)		
	ii. Weather	condition	•				
	□Rain	<b>⊠</b> ≲unny □	Dry DWet	□Windy	/ DHot	Dcool	
11.		nearest sensitive ha	•				
	<ul> <li>□ Drinking wat</li> <li>□ Built up area</li> <li>□ Farmlands</li> <li>□ Fish Farm/Po</li> <li>□ Fishing pet</li> </ul>		·	a [ [ . [ . [	,m] ,m] ,m] ,m] ,m] 3,m]		
12.	Containment mea	sures put in place;		•			
	□ Booms	□тге	nch Dyke	□Natural	depression	Pit DNo	ne
	um Dan	MS WERE INF	THE NEPL	ra gara	ASSET OWN	HER BUT WI	<b>R</b> PEHOVE
13.	Any pictures or v	ideo coverage?		W	[ N ]		
14.	Further response	repair initiated as	at the time of JIV?	[Y]	NY		
If yes to	item 14, give brief d	escription:					
	NOT	APPL	ICAB	LE			_
15	. Was there any dis	sruption to the inves	stigation'?	[Y]	[N]		_

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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 Type of crops Young Medium Matured Comments Quantity 18. Fishing Nets/Fish Ponds S/N Nets/Ponds Quantity/Size **Comments** Description 19. Others (Specify) i.e. Animal Traps 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 AUXILLIARY PUMP UNIT SHOWING SPILL POINT Spill Point / (4" FAILED INTECTION HOSE) INJECTION PUMP. Page 3 of 8 TO PIGGING 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 / ATTIVAS Rasting ( 1 CTT ( 1 ) 8 )					
S/N	Northing (LATITUDE)	" ( poran use)			
10	5.025391	6.360731			
<u></u>	5.025483	6.360731 6.360741			
<u>چ</u>	5.025390	6-360700			
4	5.025490	6.360710			
			7		
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•		,			
		•			
7	<del>1</del> ,	<u> </u>			

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G. INCIDENT INFORMATION:			
a. Impacted Area Details			
Total calculated area of impact D · DO4 Ha  Impact within R.O.W TES  Impact outside R.O.W No			
b. Volume of oil recovered before completion of JIV (V <sub>recJ</sub> ):  Recovered oil V <sub>recJ</sub> :	Barre	ls	
Controlled recovery/evacuation from source with no impact to environment:    Barrels   Barrels	<u> </u>		
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =			
0.15			
Estimated Reported Volume** V rep(bbls)=			
*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 hox below:    MOTAPPLICABLE			
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimated conversion of m <sup>2</sup> to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following Any spill volume in excess of 1 bbl is rounded up to the next whole number.		are on site;	
Any spill volume in less than - 1 bbl - is rounded up to the next 0.1 bbl.			
Examples: Calculated volume = 15.3 bb1 Reported volume = 16 bb1 Calculated volume = 0.35 bb1 Reported volume = 0.4 bb1 Calculated volume = 0.01 bb1 Reported volume = 0.1 bbt			
Wherever this estimation tool is not applicable please refer to paragraph be (Devianous) of the AV procedure to us volume estimation; record the eal altition in a plain sheet of paper and attach to the AV report.	e appropri	iate steps fi	n.

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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 therefore recommend that the site be closed out	esponso	e and JIT
ii. Investigation of the incident site showed that there is residual impact on site requiring furthe	r works	V
e. Representatives		
This report was filled, agreed and signed by the following joint investigation team represen	atives:	
Host Community:		
<ul> <li>Department of Petroleum Resources [DPR]:</li> </ul>		
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		
Tį	ck as ap	plicable

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f. Appendix 1: Overview sketch of the site

