JIV report S/N:

INCIDENT NO: 1436 947

Nº 0000031

(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: 1436947 2.Type of incident* 011_ BOMU - BONNY PIPELINE 4. Name of nearest community **DWOKIRI** 5. State: **RIVERS** 6. LGA **ANDONI** 7. Type of Production facility/Installation OIL PIPELINE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED / PIPELINE B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 6TH JULY, 2015 8TH JULY, 2015/13:16 HOURS b. Start date/time of investigation: c. Investigation End date: 8TH JULY 2015 Actual investigation duration, days: 0 NE(1) DAY d. Description of spill point environment Loose soil ☐Firm soil Recently excavated area Under water Exposed pipe surface ☐ Well Platform (on Water □ DrillRig AT SITE, THE JOINT INVESTIGATION Additional observations around the spill point: ON ARRIVAL TEAM CONFIRMED THAT THE SPILL INCIDES PREVIOUS INCIDENT (REFERENCE MARCH, 2015 AND JIV DATE OF AND e. Description of leak point (tick as applicable); ☐Drilled hole ☐Hack saw cut ☐ 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, ☐ Third party tampering with Clamp ☐ Saver-pit over flow ☐ Third party tampering with valve setting ☐ Bulging Outward ☐ Third party tampering with flange, ☐Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3rd party equipment impact ☐ Relief valve failure ☐ Valve Failure ☐Others(specify) f. Incident caused by: Third party interference (Sabotage ; crude theft ; Line theft ; Accidental 3rd party damage) Others (including Mystery spills)

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

	INCIDENT NO: 14369	<u>4 / </u>	_ JIV report S	N: Nº	0000031
g. \$	Spill point coordinates				
		5 84			
	Northing: (LATITUDE)	Ee.	sting: (Long	(3auti	
	4.56422		7.25		
	30/22			1 64	
C. RIS	K ASSESSMENT				
10.	Type of environment:		•	,	
	□Land ✓Swamp □Wat	:er	Seasonal swamp	☐Shoreline/	/Waterfront
	i. Type of environment to which oil has	spread:			
	□Land	Vater	River (identify)		
	•	·	DRIVER (Identity)_		
	ii. Weather condition	_		_	
	√ Rain □ Sunny □ Dry	□Wet	□Windy □Hot	□cool	
11.	Distance from the nearest sensitive habitat				
	 □ Government reserved and designated prote □ Drinking water source □ Built up area □ Farmlands □ Fish Farm/Pond □ Fishing net ✓ Others (specify). MANGROVE VEG 		[,m] [m,] [m,] [m,] [m,] [m,]		
12.	Containment measures put in place;				
	✓Booms □Trench □] Dyke J	Natural depression	□Pit	None
	Dothers: EXISTING CONSTRU	•			
13.	Any pictures or video coverage?		[Y]/ [N]		
14.	Further response/repair initiated as at the time	of JIV?	[Y] [N]		
If yes to	item 14, give brief description:			,	
RECO	VERY OF FREE-PHASE OIL	WITHI	N CONSTRUCTE	D COFFE	RDAM AROUN
性制	L POINT WAS DONE TO ENAME PORARY REPAIRS WERE DONE POINT VALVE AND BLIND-FLANGIN	BY PROP	FKLY CLOSING- PRUDE THEFT POI	<u>id aft ai</u> otz ot ta	<u>BSERVE</u>) (RUD P FURTHER LEA
15.	Was there any disruption to the investigation?		[Y] [N]	_	-

INCIDENT NO: 1436947 JIV report S/N: Nº 0000031 If yes to item 15 give brief description: D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 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 Others Description Quantity/Size Comments E. GRAPHIC DESCRIPTION OF LEAK POL detail report of the leak point should be contained in the leak report, overview sketch of the site should be a appendix () SECTION OF 28" BOMU - BONNY PIPELINE AT OWOKIRI SHOWING ONE NO. CRUDE OIL THEFT LEAKING FLANGE WITH POINT AT 12 MISSING BOLTS O' CLOCK AND NUTS (AS OBSERVED 6" VALVE. POSITION. 6" FLANGE.

INCIDENT NO: 1436947 JIV report S/N: Nº \$688031

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)

	THE ENGLISH			
S/N	Northing (LATITUDE)	Basting (LONTHINDE)		
1.	4.56562	7 . 25231		
ئىق	4.56582	7.25232		
3.	4.56576	7-15252		
4-	4.56565	7.25253		
5	4 . 56559	7.25250		
6.	4.56560	7.25235		
7,	4.56516	7. 25224		
8 ∙	4.56473	7.25216		
9.	4.56462	7. 25235		
10.	4.56445	7.25231		
11.	4.56453	7.25222		
12	4.56443	7.25208		
13.	4.56424	7.25201		
14	4.56419	7.25193		
15	4.56420	7.25188		
.16	4.56428	7.25188		
17	4.56434	4.25195		
18	4.56473	7.25207		
19	4.56521	7-25219		
		•		

INC	IDENT NO:_	1436947	JIV report	s/n: 🎢 🖁 🕻	900031
G. INCIDENT INF	ORMATION:				
a. Impacted A	rea Details				
• 1m	tal calculated area o pact within R.O.W_ pact outside R.O.W	785	۹ 		
b. Volume of o	il recovered befor	re completion of JIV			. `
		Recovered oil V _{reex} :	1 20	Barrel:	š
Controlled reco	N11	rom source with no im Barrels	pact to environment:		
c. Net Estimate	ed Spilled Volum	$\frac{eV_{Est}(bbls)^*}{70}$).73	· .	
Estimated Reported	Volume** V _{rep} (bb	$\frac{ds}{ds} = 71 \Omega \Delta t$	RELS	· ·	
 Reported spille 	d volume is an estimate	ecel based tool, tsee attached for attion for estimating the spilled		LE	
Conversion of m' to harrel	s is Volume (m3) x 6.29;	the done on site as far as pract **Round up estimated volume is rounded up to the next whole	to next whole monber using	hane estimation software the following rules:	e on site:
Any spill volum	e in less than — I hbl	is rounded up to the next 0.1 b	bt.		
Examples:	Calculated volume = t Calculated volume = t	5.3 bbl Reported volum 9.35 bbl Reported volum 9.01 bbl Reported volum	ac = 0.4 bbf ac = 0.1 bbf		
Wherever this estimation	tool is not applicable pl	vase refer to paragraph 6c d	Deviations) of the AV proce	dure to use appropriate	e steps for

volume estimation, record the calculation in a plant sheet of paper and attach to the AW report.

INCIDENT NO: 1436947 JIV report S/N: Nº 9000031
d. General Status of the site
i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out
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

INCIDENT NO: 1436947 JIV report S/N:

Nº 0000031

f. Appendix 1: Overview sketch of the site

