INCIDENT NO: 1494 903

Nº 0000076

JIV report S/N:

(Note: As practicable as possible the JIT	report is to be signed in the field by all	the participating parties)
A. GENERAL INFORMATION:		•
I. Spill incident Number: <u>1494</u>	903 2.Type of incident	OIL SPILL
3. Name of Location 24" BOA	1U - BONNY PI	PELINE
4. Name of nearest community <u>OWO</u>	KIRI 5. State: RIVERS	6. LGA ANDON!
7. Type of Production facility/Installation	OIL PIPELINE	
B. Asset owner/District THE SHELL	L PETROLEUM DEVELOPM	ENT COMPANY OF NIGERIA (S
B. INCIDENT INFORMATION:		PIPELINE
9. Details of incident	T	
a. Date of incident: 28TH SEF	1714 OCTOBER, 2015,	/11:00HRS
		<u> </u>
	BER 2015 Actual investigation dura	ition, days: <u>ONE (I) DA</u> Y
d. Description of spiff point environm		
☐Firm soil	La Loose soil	Recently excavated area
☐ Under water	√ ⊆ Swampy □	Exposed pipe surface
☐Well Platform (on Water	□ DrillRig	
I DESERVED EVIDE	NCE OF CORROSIONS EST (U.T) INDICATED S	STIGATION TEAM (JIT) AROUND THE SPILL POINT, OME WALL LOSS ALSO,
e. Description of leak point (tick as a	•	
Drilled hole Complete Rupture Failed Weld-on illegal hot tap valve Crude oil theft (illegal bunkering	☐ Hack saw cut☐ Inward dent,☐ Failed Clamp,	☐ Tear (), ☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp
☐ Flare System/Bund wall failure ☐ Valve Failure ☐ Others(specify) CORROS	☐Cold vent☐ Relief valve failure	☐ Third party tampering with flange, ☐ Surge vessel overflow, ☐ Accidental 3 rd party equipment impact
☐ Valve Failure ☐ Others(specify) CORROS f. Incident caused by:	□Cold vent □ Relief valve failure	Surge vessel overflow, Accidental 3 rd party equipment impact
Valve Failure Others(specify) CORROS f. Incident caused by: Third party interference (Sabota	☐Cold vent☐ Relief valve failure	Surge vessel overflow, Accidental 3 rd party equipment impact

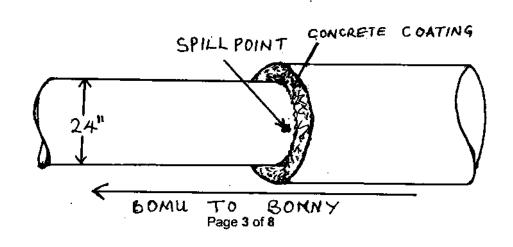
^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire.

point coordinate suring unit forthing:	s	10	^				
		WG	S 8	4			
	(LATI	โบกร		Easting:	CLON	G TWO	-7
<u> </u>	01.54	140	'	νν ^[7]	17/17	<u> </u>	
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SSESSMENT							
pe of environmen	nt:						
Land	√⊿Swamp	□w₁	ater	☐ Seasonal	swamp	☐Shorelin	e/Waterfront
i. Type of en	vironment to wh	nich oil ha	s spread:				
Land	√ Z/Swamp	√B	Water	□Rive	(identify))	_
ii. Weather c	ondition		-				
Z Rain	DSunny 1	Dry	□wet	□windy	□Hot	Псоо	i
stance from the n	earest sensitive	habitat					
Drinking water Built up area Farmlands Fish Farm/Pon Fishing net Others (specify	SOURCE NON NITHAL DIMPACT NITIME VISIT	NE ON THE N AS OF J	BSERVE AREA	01=[- TF=[,m] ,m] ,m] ,m] ,m]	(ON)	
~	<u> </u>		Dvke	□Natural d	eoression	□Pit	□None
_							7,2
			•	مهجوی	Γ % Ε?		
	_						
urther response/r	epair initiated as	at the tim	ne of JIV?	VY	[N]		
		OM	1ENC	ED.			
1	Land i. Type of en Land ii. Weather co Rain stance from the n Government re Drinking water Built up area Farmlands Fish Farm/Pone Fishing net Others (specify ntainment measu Booms Others: y pictures or viduather response/re	Land Swamp i. Type of environment to will Land Swamp ii. Weather condition Rain Sunny stance from the nearest sensitive Government reserved and design Drinking water source NON Built up area Farmlands WITHWI Fish Farm/Pond IMPACT Fishing net Others (specify). TIME VISIT- Intainment measures put in place: Booms DT Others: y pictures or video coverage? Jurther response/repair initiated as 14, give brief description:	Land Swamp Washington Washington Weather condition Rain Sunny Dry stance from the nearest sensitive habitat Government reserved and designated pro Drinking water source NONE Or Built up area Farmlands WITHMI THE Parameter (Specify). TIME OF JUSIT Intainment measures put in place; Booms Drinkers: Type of environment to which oil had been proposed to the proposed prop	JLand Swamp Water i. Type of environment to which oil has spread: JLand Swamp Water ii. Weather condition Rain Sunny Dry Wet stance from the nearest sensitive habitat Government reserved and designated protected area Drinking water source NONE OBSERVE Built up area Farmlands WITHINI THE AREA Fish Farm/Pond IMPACT AS AT Fishing net Others (specify). TIME OF JOINT ON SIT Intainment measures put in place; Booms DTrench Dyke Jothers: Typictures or video coverage? Justine response/repair initiated as at the time of JIV?	Je of environment: Je of environment to which oil has spread: Je	Description: Desc	Dependent of environment: Comparison Co

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If yes to item 15 give brief description: APPLICABCE						
	CYPE/NUMBERS C 6. Structures / Propo		ANY, FOUNI	WITHIN THE	AREA OF SPREAD OF OIL	
S/N	Type of Structur	es Description	Size	Number	Comments	
\wedge	ONE	WITHII	V TH	EAR	CA OF IMPAC	Ī
1	7. Crops/Economic	Trees				
S/N	Type of crops	Young	Medium	Matured	Quantity Comments	
				1		
\mathcal{N}	DNE WI	THIN 11	EA	REA	DEMPACT	
			<u> </u>	1		
1	8. Fishing Nets/Fish	n Ponds				
S/N	Nets/Ponds	Description		Quantity/Size	Comments	
A	DNE W	I HIN TH	E A	EA	F IMPACT	
19. Others (Specify) i.e. Animal Traps						
S/N	Others	Description		Quantity/Size	Comments	
1.	NYPA PALM	MATURE	-	MKNY	IMPACTED	
2.	MANGROVE	MATURE		MANY	IMPACTED	
3.	NATER SURFA				IMPACTED	
-9.	INTER STATE INTEREST					
the le	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) A SECTION OF 24" BOMU BONNY PIPELINE AT OWOKIRI SHOWING SPILL POINT DUE TO					

CORROSION BETWEEN 9 AND 10 O'CLOCK POSITIONS.



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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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24" BC	MU-BONNY TNP @ OW	OKIRI
1NC.NO: 1494903	T	28/09/2015
	INV.DATE: 07/10/2015	
POINT	LATITUDE	LONGITUDE
SP	7.247	4.54148
197	7.24746	4.54212
198	7.24671	4.54174
199	7.2442	4.54327
200	7.2433	4.54112
201	7.24718	4.54131
202	7.24343	4.5448
203	7.2449	4.54229
204	7.24584	4.54281
205	7.24723	4.54148
206	7.24563	4.54261
207	7.24737	4.54066
208	7.24665	4.54191
209	7.24637	4.54136
210	7.74626	4.54162
211	7.24621	4.5414
212	7.24622	4.54118
213	7.24601	4.54124
214	7.24617	4.54165
215	7.24646	4.54203
216	7.24663	4.54225
217	7.24693	4.54223
218	7.24717	4.54217
219	7.24558	4.54267
220	7.24494	4.5424
221	7.24466	4.54236
222	7.24469	4.54221
223	7.24462	4.54235
224	7.2446	4.54289
225	7.24443	4.54342
226	7.24418	4.54396
227	7.24424	4.54398
228	7.2445	4.54343
229	7.24467	4.54294
230	7.24336	4.54478
231	7.24329	4.54476
232	7.2435	4.54445
233	7.24371	4.54413
234	7.24375	4.54361
235	7.24411	4.54287
236	7.24429	4.54237
237	7.24439	4.54281
238	7.24434	4.54203

24" B(OMU-BONNY TNP @ OW	/OKIRI	
1NC.NO: 1494903	INC.DATE: 28/09/2015		
	INV.DATE: 07/10/2015		
POINT	LATITUDE	LONGITUDE	
239	7.2445	4.54207	
240	7.2446	4.5415	
241	7.24461	4.54084	
242	7.24438	4.54069	
243	7.24391	4.54097	
244	7.24341	4.54123	
245	7.24335	4.54088	
246	7.24388	4.54042	
247	7.24417	4.54021	
248	7.24484	4.54034	
249	7.24583	4.54037	
250	7.24677	4.54053	

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a.	Im	pacted	Area	Details

Total calculated area of impact Impact within R.O.W_ Impact outside R.O.W

Volume of oil recovered before completion of JIV (Vrecd):

Recovered oil Vrecl: Barrels

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

Barrels

Net Estimated Spilled VolumeV_F (bbls)* =

96.96 BARRELS

Estimated Reported Volume** Vreo(bbls)=

97 BARRELS

*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 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 ne' 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,
- Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbt ----- Reported volume = 16 bbt Calculated valume = 0.35 bbl ----- Reported valume = 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 HV procedure to use appropriate steps for volume estimation; record the calculation in a plain sheet of paper and attach to the AV report.

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d. General Status of the site

į.	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]
- Asset Owner \ \alpha
- 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

