INCIDENT NO: 2224449 JIV report S/N:0192

(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: 222449	2. Type of incident* OIL SPILL
3. Name of Location 6" MININTA - AHI	A BULKLINE
4. Name of nearest community AKPABU 5.8	State: RIVERS 6. LGA EMOHUA
7. Type of Production facility/Installation FLOWLI	NE CONTRACTOR OF THE STATE OF T
8. Asset owner/District THE SHELL PETRIL  (SPDC) /  B. INCIDENT INFORMATION:	EUM DEVEROPMENT COMPANY OF NIGERIAL
9. Details of incident  a. Date of incident: 9TH DECEMBER 20  b. Start date/time of investigation: 11TH DECEM  c. Investigation End date: 4HH DECEMBER 2018  d. Description of spill point environment    Firm soil   Loose soil     Under water   Swampy     Well Platform (on Water)   Drill Rig	Cetual investigation duration, days: TWO (2) AAYS
e. Description of leak point (tick as applicable);	PLICABLE
Complete Rupture  Failed Weld-on illegal hot tap valve  Crude oil theft (illegal bunkering) point  Third party tampering with valve setting  Flare System/Bund wall failure  Valve Failure	Hack saw cut  □ Tear (
	eft□; Line theft□; Accidental 3 <sup>rd</sup> party damage□)  □ Others(specify)

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

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C.

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g. Spill point coordinates	· <i>t</i>		
Measuring unit WCS & C	1.OE	Easting: LUNCIT	WE
5.134	+93	€ 740	70
RISK ASSESSMENT			
10. Type of environment:			
☑Land □Swam	np Water	Seasonal swamp	Shoreline/Waterfront
i. Type of environmen	t to which oil has spread:		
☑Land □Swa	mp	River (identify)	<u></u>
ii. Weather condition			
□Rain □Su	nny ⊠Dry □Wet	□Windy □Hot	□cool
11. Distance from the nearest ser	nsitive habitat		
☐ Government reserved a☐ Drinking water source☐ Built up area☐ Farmlands☐ Fish Farm/Pond☐ Fishing net☐ Others (specify).	and designated protected are	ea [ ,m] [ ,m] [ ,m] [ >5 C ,m] [ ,m] [ ,m]	
12. Containment measures put in	n place;		
Booms	<b>☑</b> Treneh □Dyke	☐Natural depression	□Pit □None
Others:	_		
13. Any pictures or video cover	age?	[WT [N]	
14. Further response/repair initi	ated as at the time of JIV?	[Y] [W]	
f yes to item 14, give brief description:			
NOT	APPL	ICAB	LE
15. Was there any disruption to	the investigation?	WY WI	

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16. Structures / Properties S/N Type of Structures	Description	Size	Number	.(	Comments
NONE X	1) TH/	NA	REA	- CH	IMPACT
17. Crops/Economic Trees  S/N Type of crops Young  I PALM TREES M	YNY	Medium	Matured	Quantity MAN >	
18. Fishing Nets/Fish Ponds S/N Nets/Ponds	Description	ART	Quantity/Size	Comments	PACT
19. Others (Specify) i.e. Ar S/N Others	imal Traps Description		Quantity/Size	Commen	ts
GRAPHIC DESCRIPTION	OF LEAK PO	INT (while de	tailed report of the	ne leak poir	A C T
ne leak report, overview sketch o ININTA — AHIA RILLED HOLE ERSONS,	BULKL	INE A	T AKPA	KU S	HOWING 5M
		,	5MM	DRILLE LOCK P	ED HOLE AT POSITION

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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)

	West 4	
S/N	Northing LATITUDE	Easting LONGITUDE
W/351	· · · · · · · · · · · · · · · · · · ·	6.74032
WP352	5.13477	6.74002
WP 353	5.13526	6.74096
w1354	5.13529	674111
w/355		6.74065
WP 356	5.13462	6.74066
W/357	5.13482	6.74044
W358		6.74070
W350)	5.13485	6.74-083
		16/1

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$\sim$	INL	CII	)EN	T 17	VIE 4	$\alpha$	RAI A	TI	$\Delta$	٠T.
Ų.	TIA.		JEIN	1 1	AL.	$\sigma$	TATE 1.2		O.	۹.

	•	Total calculated area of impact_	0.7716 tig.	
	•	Impact within R.O.W	YES	
	•	Impact outside R.O.W	YES	
b.	Volume	of oil recovered before comp	detion of JIV (VrecJ):	
		Re	ecovered oil V <sub>reci</sub> :	Barrels

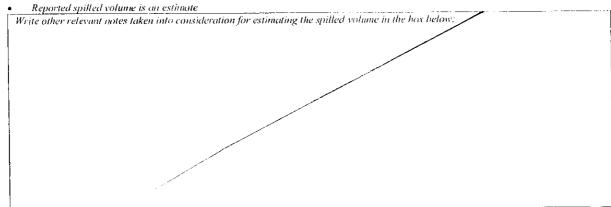
Controlled recovery/evacuation from source with no impact to environment:

NIL	Barrels

c. Net Estimated Spilled Volume V <sub>Est</sub> (	bbls)* =
	10.63 BARRELS
Estimated Reported Volume** Vrep(bbls)=	11 BARRELS

\*Notes.

Volume estimation was done using an excel based tool (see attached for details on the calculation).



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  $m^2$  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 bbl ------ Reported volume = 16 bbl Calculated volume = 0.35 bbl ------ Reported volume = 0.4 bbl Calculated volume = 16.01 bbl ------ Reported volume = 0.4 bbl

Wherever this estimation tool is not applicable please refer to paragraph 6c tDeviations) of the AV 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	
	gint investigation of the incident site found that there is no residual impact after the initial response and	Y 1

- i. Joint investigation of the incident site found that there is no residual impact after the initial response and JTT 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:

Tick as applicable

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f. Appendix 1: Overview sketch of the site

