

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2368339 JIV report S/N: 1030020

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

## A. GENERAL INFORMATION:

1. Fountain Incident Number: 2368339 2. Type of incident\* OIL SPILL  
3. Name of Location 4" OBELE - IBAA PIPELINE  
4. Name of nearest community IBAA 5. State: RIVERS 6. LGA EMOHUA  
7. Type of Production facility/Installation OIL SPILL  
8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED / PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date Reported: 7<sup>TH</sup> JUNE 2019  
b. Start date/time of investigation: 14<sup>TH</sup> JUNE 2019 / 13:25 HRS  
c. Investigation End date: 14<sup>TH</sup> JUNE 2019 Actual investigation duration, days: ONE (1) DAY  
d. Description of spill point environment  
 Firm soil  Loose soil  Recently excavated area  
 Under water  Swampy  Exposed pipe surface  
 Well Platform (on Water)  Drill Rig

Additional observations around the spill point:

BURNT AREA WAS OBSERVED BY THE JOINT INVESTIGATION TEAM.

## e. Description of leak point (tick as applicable);

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Drilled hole                               | <input checked="" type="checkbox"/> Hack saw cut | <input type="checkbox"/> Tear (_____)                                      |
| <input type="checkbox"/> Complete Rupture                           | <input type="checkbox"/> Inward dent,            | <input type="checkbox"/> Well head tampering                               |
| <input type="checkbox"/> Failed Weld-on illegal hot tap valve       | <input type="checkbox"/> Failed Clamp,           | <input type="checkbox"/> Missing Pipeline/Flowline                         |
| <input type="checkbox"/> Crude oil theft (illegal bunkering) point, | <input type="checkbox"/> Saver-pit over flow     | <input type="checkbox"/> Third party tampering with Clamp                  |
| <input type="checkbox"/> Third party tampering with valve setting   | <input type="checkbox"/> Bulging Outward         | <input type="checkbox"/> Third party tampering with flange,                |
| <input type="checkbox"/> Flare System/Bund wall failure             | <input type="checkbox"/> Cold vent               | <input type="checkbox"/> Surge vessel overflow,                            |
| <input type="checkbox"/> Valve Failure                              | <input type="checkbox"/> Relief valve failure    | <input type="checkbox"/> Accidental 3 <sup>rd</sup> party equipment impact |
| <input type="checkbox"/> Others(specify) _____                      |  |  |

## f. Incident caused by:

- Third party interference (Sabotage ; crude theft ; Line theft ; Accidental 3<sup>rd</sup> party damage   
 Operational  Others (including Mystery spills) \_\_\_\_\_

\*This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire, g) non leaking Theft point removal  
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g. Spill point coordinates

f. Measuring unit

WGS 84

Northing:	Easting:
SP1 = 4.99569	6.80662
SP2 = 4.99586	6.80661

### C. RISK ASSESSMENT

10. Type of environment:

- Land   
  Swamp   
  Water   
  Seasonal swamp   
  Shoreline/Waterfront

i. Type of environment to which oil has spread:

- Land   
  <sup>SEASONAL</sup> Swamp   
  Water   
  River (identify) \_\_\_\_\_

ii. Weather condition:

- Rain   
  Sunny   
  Dry   
  Wet   
  Windy   
  Hot   
  Cool

11. Distance to Sensitive habitat within 100m radius

- Government reserved and designated protected area [        ,m]  
 Drinking water source [        ,m]  
 Built up area [        ,m]  
 Farmlands NONE SEEN [        ,m]  
 Fish Farm/Pond WITHIN VICINITY [        ,m]  
 Fishing net [        ,m]  
 Others (specify). [        ,m]

12. Containment measures put in place;

- Booms   
  Trench   
  Dyke   
  Natural depression   
  Pit   
  None  
 Others: \_\_\_\_\_

13. Any pictures or video coverage?

[N]

14. Further response/repair initiated as at the time of JIV?

[N]

If yes to item 14, give brief description:

REPAIR DONE BY CLAMPING

15. Was there any disruption to the investigation?

[Y]  [N]

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If yes to item 15 give brief description:

NOT APPLICABLE

16. Was JIV delayed?  (N)

If yes to item 16 give brief description: ACCESS DENIED DUE TO FREEDOM TO OPERATE.

**D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL**

17. Structures / Properties

S/N	Type of Structures	Description	Size	Number	Comments
<u>NONE WITHIN AREA OF IMPACT</u>					

18. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
1	<u>PALM TREE</u>	<u>—</u>	<u>—</u>	<input checked="" type="checkbox"/>	<u>3</u>	<u>BURNT BY FIRE IMPACTED BY SPILL.</u>
2	<u>BAMBOO TREE</u>	<u>—</u>	<u>—</u>	<input checked="" type="checkbox"/>		

19. Fish/Nets/Ponds

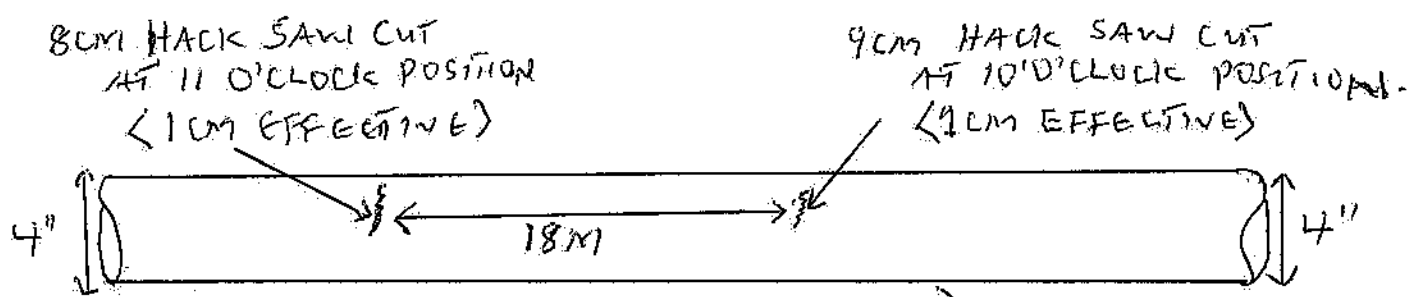
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
<u>NONE WITHIN AREA OF IMPACT</u>				

20. Others (Specify) i.e. Animal Traps

S/N	Others	Description	Quantity/Size	Comments
<u>NONE WITHIN AREA OF IMPACT</u>				

**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 4" OBELE - IBAA PIPELINE AT IBAA SHOWING HACK SAW CUTS AT 10 O'CLOCK AND 11 O'CLOCK POSITIONS.



FROM OBELE FLOW STATION TO IBAA MANIFOLD Version 2019/01

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**F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION**

21. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

VNS 84

S/N	Northing	Easting
	4.99687	6.80674
	4.99681	6.80671
	4.99665	6.80669
	4.99661	6.80666
	4.99633	6.80669
	4.996332	6.806658
	4.99561	6.80662
	4.99570	6.80665
	4.99576	6.80665
	4.99563	6.80657
	4.99584	6.80664
	4.99605	6.80668
	4.99661	6.80675
	4.99672	6.80675
	4.99689	6.80673
	4.99615	6.80665
	4.99594	6.80660
	4.99582	6.80659
	4.99578	6.80662

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**G. INCIDENT INFORMATION:**

**a. Impacted Area Details**

- Total calculated area of impact: 0.08ha
- Impact within SPDC R.O.W: YES
- Impact outside SPDC R.O.W: YES

**b. Volume of oil recovered before completion of JIV ( $V_{rec}$ ):**

Recovered oil $V_{rec}$ :	<u>NIL</u>	Barrels
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Controlled recovery/evacuation from source with no impact to environment:

<u>NIL</u>	Barrels
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**c. Net Estimated Spilled Volume  $V_{est}$ (bbls)\* =**

<u>3.04 BARRELS</u>	
<b>Estimated Reported Volume** <math>V_{rep}</math>(bbls) =</b>	<u>4 BARRELS</u>

**\*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 volume estimation or cause of spill:

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  $m^3$  to barrels is Volume ( $m^3$ ) 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 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  
 Calculated volume = 0.01 bbl — Reported volume = 0.1 bbl.

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

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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 response and JIT therefore recommend that the site be closed out <input type="checkbox"/>
ii. Investigation of the incident site showed that there is residual impact on site requiring further works <input checked="" type="checkbox"/>

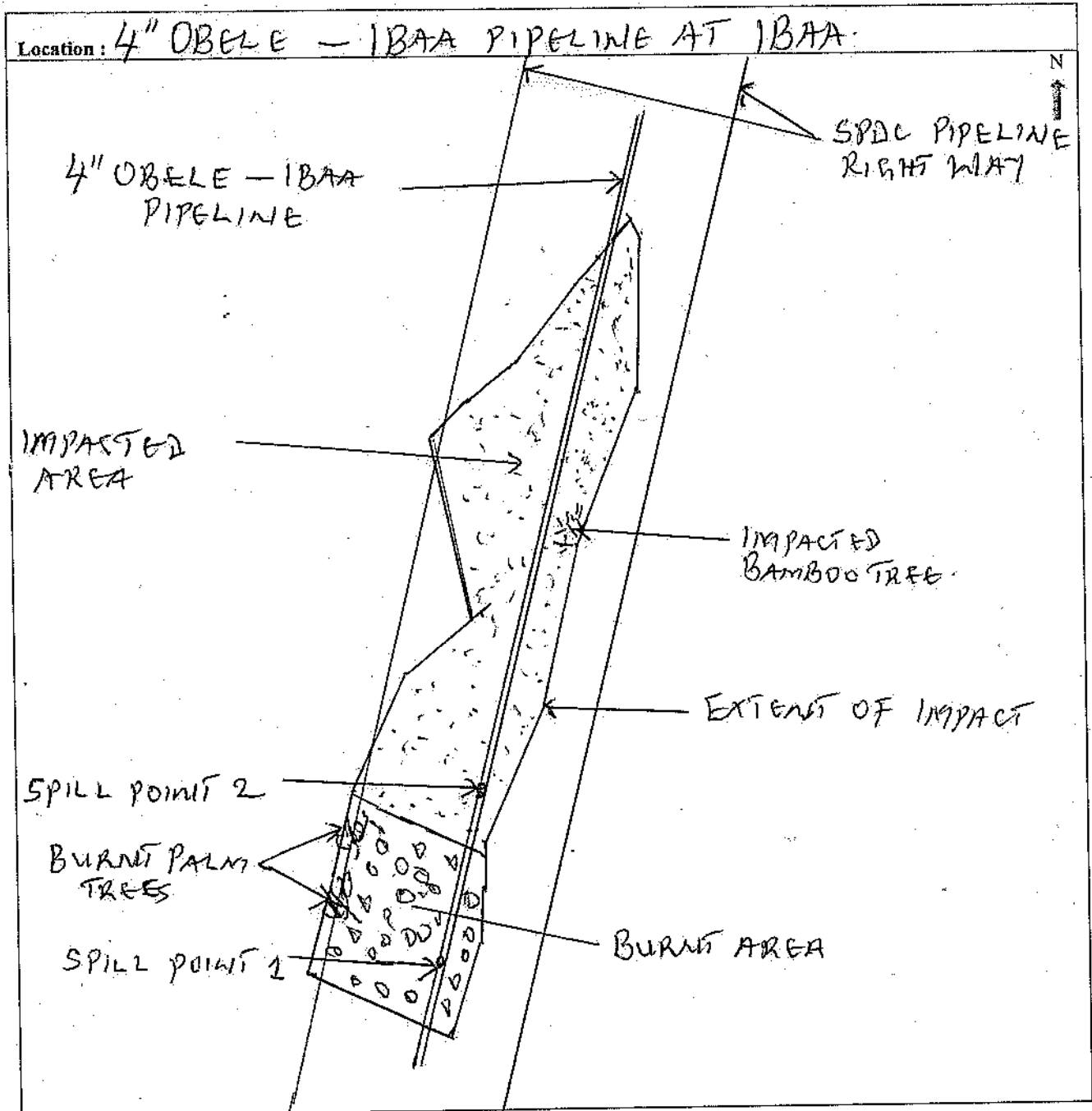
## e. Representatives

<p>This report was <u>filled</u>, <u>agreed</u> and <u>signed</u> by the following joint investigation team representatives:</p> <ul style="list-style-type: none"><li>• Host Community: <input checked="" type="checkbox"/></li><li>• Department of Petroleum Resources [DPR]: <input type="checkbox"/></li><li>• National Oil Spill Detection and Response Agency [NOSDRA]: <input checked="" type="checkbox"/></li><li>• State Ministry of Environment [SME]: <input checked="" type="checkbox"/></li><li>• Shell Petroleum Development Company [SPDC]: <input checked="" type="checkbox"/></li><li>• <i>Separate DPR form has been filled out with same findings</i> <input type="checkbox"/></li></ul> <p style="text-align: right;"><i>Tick as applicable</i></p>
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f. Appendix 1: Overview sketch of the site



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