

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 0001019

(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: 3053329 2. Type of incident\* OIL SPILL  
3. Name of Location AJATITON WELL 1 L FLOW LINE  
4. Name of nearest community OPUKUSHI 5. State: BAYELSA 6. LGA EKEREMO  
7. Production Facility/Installation FLOW LINE  
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY NIGERIA LIMITED / WEST ASSET

## B. INCIDENT INFORMATION:

### 9. Details of incident

- a. Date Reported: 27<sup>TH</sup> OCTOBER, 2021  
b. Start date/time of Investigation: 5<sup>TH</sup> NOVEMBER, 2021 AT 2:05 PM  
c. Investigation End date: 5<sup>TH</sup> NOVEMBER, 2021 Day(s) on site: ONE (1) DAY  
d. Description of spill point environment

- |   |                                     |  |
|---|-------------------------------------|--|
| <input type="checkbox"/> Firm soil                | <input type="checkbox"/> Loose soil | <input type="checkbox"/> Recently excavated area         |
| <input type="checkbox"/> Under water              | <input type="checkbox"/> Swampy     | <input checked="" type="checkbox"/> Exposed pipe surface |
| <input type="checkbox"/> Well Platform (on water) | <input type="checkbox"/> Drill Rig  | <input type="checkbox"/> Sand bag(s)                     |

Additional observations around the spill point:

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

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Smooth round-edge hole                           | <input type="checkbox"/> Rough-edge hole      | <input type="checkbox"/> Hack saw cut                                      |
| <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"/> Tear ( _____ )                                   |   |  |
| <input checked="" type="checkbox"/> Others (specify) <u>FAILED FLANGE</u> |   |  |

### 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) Situation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

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# JOINT INVESTIGATION REPORT

001019

INCIDENT NO: 3053329 JIV report S/N:

g. Spill Point Coordinates (\*Incidents  $\leq 100m$  apart to be aggregated into one Joint Investigation Report)

h. Measuring unit

WGS (84)

Northing: <span style="float: right;">LATITUDE</span>	Easting: <span style="float: right;">LONGITUDE</span>
4. 876433	5. 858449

## C. RISK ASSESSMENT

### 10. Details of Environment

i. Type of environment where spill occurred (select one):

- Land     
  Swamp     
  Water     
  Seasonal swamp     
  Shoreline/Waterfront

ii. Type of environment to which oil has spread:

- Land     
  Swamp     
  Waterbody (specify) \_\_\_\_\_

iii. Weather condition

- Dry     
  Wet     
  Windy     
  Hot

### 11. Distance to Sensitive habitat within 100m radius

- |   |   |     |   |            |
|---|---|-----|---|------------|
| <input type="checkbox"/> Government reserved and designated protected area                    | [ | ,m] | } | NONE SEEN  |
| <input type="checkbox"/> Drinking water source  | [ | ,m] |   |            |
| <input type="checkbox"/> Surface water <input type="checkbox"/> Borehole                      |   |     |   |            |
| <input type="checkbox"/> Built up Area  | [ | ,m] |   |            |
| <input type="checkbox"/> Residential Area <input type="checkbox"/> Commercial/Industrial Area |   |     |   |            |
| <input type="checkbox"/> Farmlands  | [ | ,m] |   |            |
| <input type="checkbox"/> Fish Farm/Pond   | [ | ,m] | } | WITHIN THE |
| <input type="checkbox"/> Fishing net  | [ | ,m] |   |            |
| <input type="checkbox"/> Others (specify) _____   | [ | ,m] |   |            |

### 12. Containment measures put in place:

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

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:

NOT APPLICABLE

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 0001019

15. Was there any disruption to the investigation? [Y] [N]

If yes to item 15 give brief description:

NOT APPLICABLE

16. Was JIV delayed? [Y] [N]

Reason(s):

- Delayed Community Access Approval     Security Challenges     Access constraint due to terrain  
 Others (specify) \_\_\_\_\_

**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
	<u>NONE WITHIN AREA OF IMPACT</u>					

19. Fish/Nets/Ponds

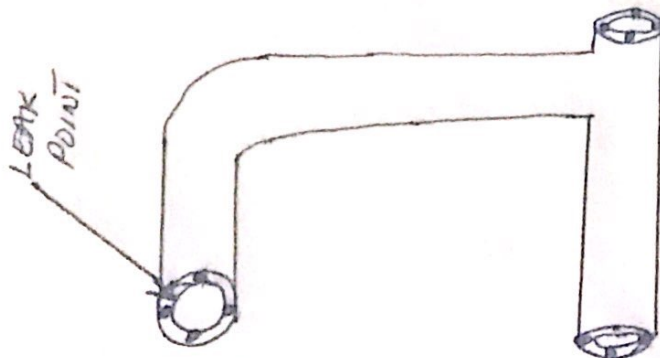
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
	<u>NONE WITHIN AREA OF IMPACT</u>			

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

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

**E. GRAPHIC DESCRIPTION OF LEAK POINT** (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1)

A SECTION OF AJATITON WELL 1 L FLOWLINE HADOK<sup>UP</sup> AAH  
 AT OPUKUSHI SHOWING FAILED FLANGE



Version 2020/01

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 001019

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

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

WGS (84)

S/N	Northing	Easting
	4. 876433	5. 858449
	4. 876425	5. 858403
	4. 876457	5. 858434
	4. 876449	5. 858474
	4. 876425	5. 858455
	4. 876426	5. 858426

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 0001019

## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.0017 Ha
- Impact within SPDC R.O.W YES
- Impact outside SPDC R.O.W NO

\* Round off to 2 decimal places if area is  $\geq 100 \text{ m}^2$  or to 4 decimal places if area is  $< 100 \text{ m}^2$  (e.g. 14.55, 0.0051, 0.0009)  
\* Express in Hectares (Ha)

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

Recovered oil $V_{\text{rec}}$ :	<u>NIL</u>	Barrels
----------------------------------	------------	---------

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

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

0.05 BARREL

### Estimated Reported Volume\*\* $V_{\text{rep}}$ (bbls)=

0.1 BARREL

#### \*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  $\text{m}^3$  to barrels is Volume ( $\text{m}^3$ ) 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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# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 001019

## 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

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]:
- The Shell Petroleum Development Company [SPDC]:
- *Separate DPR form has been filled out with same findings*
- *Separate NOSDRA form has been filled out with same findings*
- *Separate SME form has been filled out with same findings*

*Tick as applicable*

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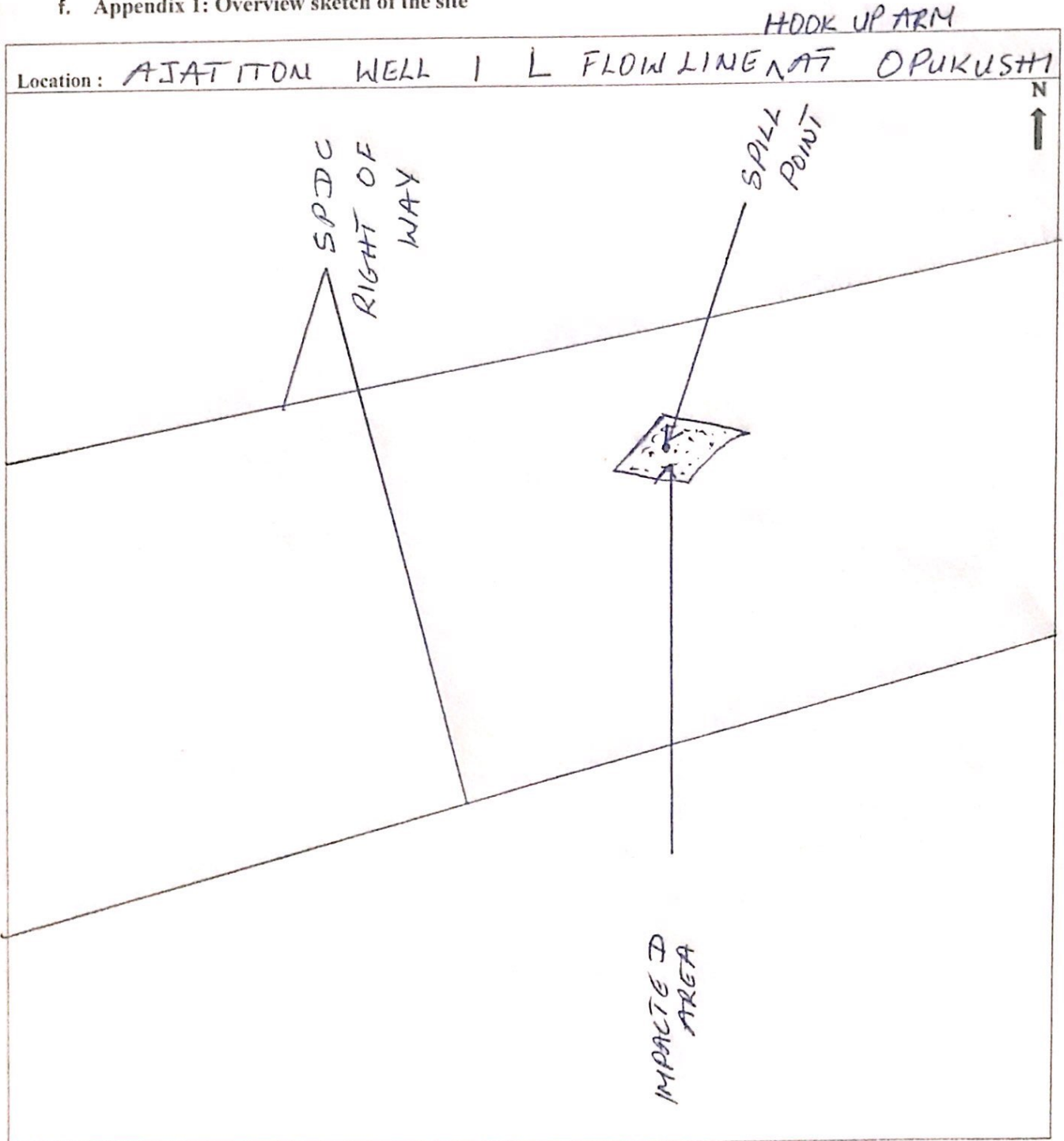
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Page 6 of 8

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3053329 JIV report S/N: 0001019

f. Appendix 1: Overview sketch of the site



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Page 7 of 8