

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2945559 JIV report S/N: 0300852

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

## A. GENERAL INFORMATION:

1. Fountain Incident Number: 2945559 2. Type of incident: OIL SPILL  
3. Name of Location: 8" AFAM WELL 27T FLOWLINE  
4. Name of nearest community: EGBERU 5. State: RIVERS 6 LGA: OYIGBO  
7. Production Facility/Installation: FLOWLINE  
8. Asset Owner/Hub: THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LTD (SPDC)/LAND EAST HUB

## B. INCIDENT INFORMATION:

### 9. Details of incident

- a. Date Reported: 14TH MAY 2021  
b. Start date/time of Investigation: 15TH MAY 2021/1200HRS  
c. Investigation End date: 15TH MAY 2021 Day(s) on site: ONE (1) DAY  
d. Description of spill point environment

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Firm soil                | <input checked="" type="checkbox"/> Loose soil | <input checked="" type="checkbox"/> Recently excavated area |
| <input type="checkbox"/> Under water              | <input type="checkbox"/> Swampy                | <input 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 CLAMP</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) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

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

h. Measuring unit

WGS 84

Northing:	Easting:
4.82618	7.29946
/	/

## 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

- Government reserved and designated protected area [ .m]  
 Drinking water source [ .m]  
     Surface water       Borehole  
 Built up Area [ .m]  
     Residential Area       Commercial/Industrial Area  
 Farmlands [ .m]  
 Fish Farm/Pond [ .m]  
 Fishing net [ .m]  
 Others (specify) \_\_\_\_\_ [ .m]

NONE SEEN  
WITHIN  
VICINITY

### 12. Containment measures put in place:

- Booms     Trench     Dyke     Pit     Natural depression     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:

CLAMP REPLACEMENT

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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): NOT APPLICABLE

- 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>						

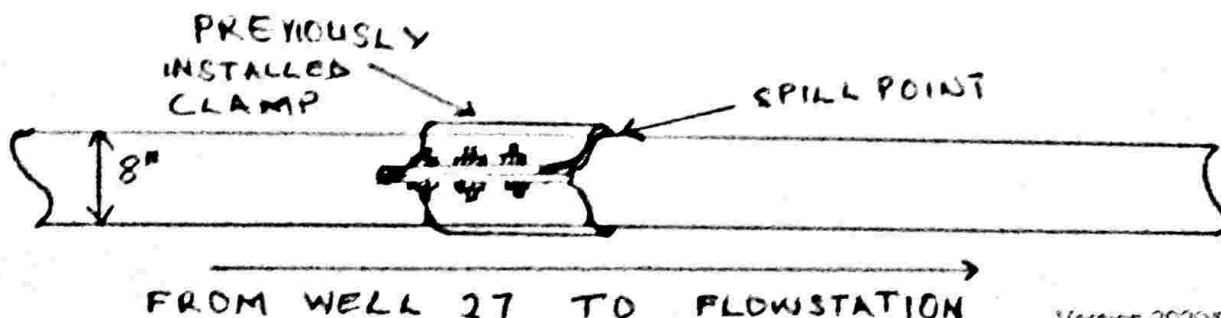
19. Fish/Nets/Ponds

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 8" AFAM WELL 27T FLOWLINE ~~SHOW~~ AT EGBERU SHOWING A FAILED CLAMP INSTALLED TO REPAIR A PREVIOUS INCIDENT**



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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 Appendix)

WGS 84

SN	Northing	Easting
1	4.82629	7.29941
2	4.82628	7.29943
3	4.82623	7.29943
4	4.82619	7.29947
5	4.82617	7.29947
6	4.82621	7.29942

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## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.0026 Ha
- Impact within SPDC ROW YES
- Impact outside SPDC ROW 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. 14.85, 0.0051, 0.0002)

\* Express in Hectares (Ha)

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

Recovered oil  $V_{rec}$  NIL Barrels

Controlled recovery evacuation from source with no impact to environment:

NIL Barrels

c. Net Estimated Spilled Volume  $V_{ES}$  (bbls)\* 0.63 BARRELS

Estimated Reported Volume\*\*  $V_{ER}$  (bbls) 0.7 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 ( $\text{m}^3$ )  $\times 6.29$ . \*\*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
- 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]:
- 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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## I. Appendix I: Overview sketch of the site

Location: 8" AFAM WELL 27T FLOWLINE AT EGBERU

