

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1457280 JIV report S/N: Nº 0000038

(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: 1457280 2. Type of incident\* OIL SPILL  
3. Name of Location EIELEBON WELL 6 FLOWLINE  
4. Name of nearest community OGBOLOMA 5. State: BAYELSA 6. LGA TENAGOA  
7. Type of Production facility/Installation FLOWLINE  
8. Asset owner/District SPDC / LAND 2.

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date of incident: 4<sup>TH</sup> AUGUST, 2015  
b. Start date/time of investigation: 7<sup>TH</sup>, 20<sup>TH</sup> AUGUST, 2015 / 14:00PM  
c. Investigation End date: 5<sup>TH</sup> NOVEMBER, 2015 Actual investigation duration, days: THREE (3) DAYS  
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 checked="" type="checkbox"/> Swampy | <input type="checkbox"/> Exposed pipe surface    |
| <input type="checkbox"/> Well Platform (on Water | <input type="checkbox"/> Drill Rig         |  |

Additional observations around the spill point:

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

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Drilled hole                                     | <input 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 checked="" type="checkbox"/> Others (specify) <u>MYSTERY SPILL</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) MYSTERY SPILL.

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

# JOINT INVESTIGATION REPORT

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g. Spill point coordinates

h. Measuring unit

Northing:	Easting:

## 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 from the nearest sensitive habitat

- Government reserved and designated protected area [ .m]  
 Drinking water source [ .m]  
 Built up area [ .m]  
 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     
  Natural depression     
  Pit     
  None
- Others: \_\_\_\_\_

13. Any pictures or video coverage?

[N]

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

[Y]     [N]

If yes to item 14, give brief description:

RECOVERY WAS DONE.

15. Was there any disruption to the investigation?

[Y]     [N]

# JOINT INVESTIGATION REPORT

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If yes to item 15 give brief description:

NOT APPLICABLE

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

16. Structures / Properties

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

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
1	PALM TREE	✓	✓	✓	FEW	IMPACTED BY SPILL
NONE WITHIN AREA OF IMPACT						

18. Fishing Nets/Fish Ponds

S/N	Nets/Ponds	Description	Quantity/Size	Comments
NONE WITHIN AREA OF IMPACT				

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

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

**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)

NOT APPLICABLE



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INCIDENT NO: 1457280 JIV report S/N: **Nº 0000038**

**G. INCIDENT INFORMATION:**

**a. Impacted Area Details**

- Total calculated area of impact 0.122 HA
- Impact within R.O.W YES
- Impact outside R.O.W YES

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

Recovered oil $V_{rec.I}$ :	0.5	Barrels
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Controlled recovery/evacuation from source with no impact to environment:

N/A	Barrels
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**c. Net Estimated Spilled Volume  $V_{Est}(bbls)^* =$**

1.51 BARRELS

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

2 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  $m^3$  to barrels is  $Volume(m^3) \times 6.29$ ; **\*\*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 volume estimation, record the calculation in a plain sheet of paper and attach to the JIV report.

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1457280 JIV report S/N: N<sup>o</sup> 0000038

## 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]:
- Asset Owner:
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings:

*Tick as applicable*

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Nº 0000038

f. Appendix 1: Overview sketch of the site

Location: EFELEBOU WELL 6 FLOWLINE AT OGBOLOMA

