

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1873270 JIV report S/N: Nº 000294

(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: 1873270 2. Type of incident\* OIL SPILL  
3. Name of Location 8" ETELEBON - KOLOCREEK PIPELINE  
4. Name of nearest community OPOLO 5. State: BAYELSA 6. LGA TENAGOA  
7. Type of Production facility/Installation OIL PIPELINE  
8. Asset owner/District SPDC / PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date of incident: 12<sup>TH</sup> JUNE, 2017  
b. Start date/time of investigation: 20<sup>TH</sup> JUNE, 2017 / 11:42 AM  
c. Investigation End date: 24<sup>TH</sup> JUNE, 2017 Actual investigation duration, days: FIVE (5) 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"/> <u>SEASONAL</u><br>Swampy | <input type="checkbox"/> Exposed pipe surface    |
| <input type="checkbox"/> Well Platform (on Water | <input type="checkbox"/> DrillRig                             |  |

Additional observations around the spill point:  
ON ARRIVAL OF JOINT INVESTIGATION TEAM, THE SPILL SITE WAS FLOODED WITH CRUDE OIL IMPACT SEEN ON WATER.

### 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>CORROSION (PIN HOLE)</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) construction e) Encroachment f) Fire.

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g. Spill point coordinates

h. Measuring unit

WGS 84

Northing:	Easting:
LATITUDE	LONGITUDE
4.93137	6.35675
/ <del>8</del>	/ <del>8</del>

## 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 NONE SEEN [      .m]  
 Fish Farm/Pond WITHIN VICINITY [      .m]  
 Fishing net [      .m]  
 Others (specify).

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 WORK WAS DONE BY CLAMPING.

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

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If yes to item 15 give brief description:

ON THE SECOND AND FOURTH DAYS OF THE JOINT INVESTIGATION THERE WAS COMMUNITY DISTURBANCE.

**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	RAFFIA PALM	—	—	✓	FIVE	ALL IMPACTED
2	OIL PALM/TREE	—	✓	—	TWO	BY THE SPILL.

18. Fishing Nets/Fish Ponds

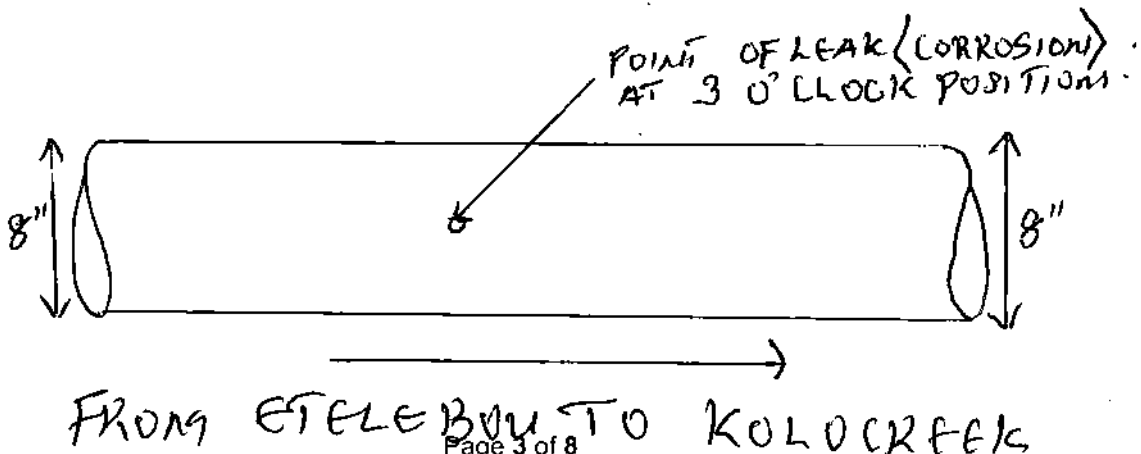
S/N	Nets/Ponds	Description	Quantity/Size	Comments
NONE WITHIN AREA OF IMPACT				

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)

SECTION OF 8" ETELEBON - KOLOCREEK PIPELINE AT OPOLO SHOWING POINT OF CORROSION/ LEAK POSITION





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**G. INCIDENT INFORMATION:**

**a. Impacted Area Details**

- Total calculated area of impact 0.19 Ha
- Impact within R.O.W YES
- Impact outside R.O.W NO

**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)\* =**

37.95 BARRELS

**Estimated Reported Volume\*\*  $V_{rep}$  (bbls) =** 38 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 ( $m^3$ ) 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 volume 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

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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f. Appendix 1: Overview sketch of the site

