

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1742185 JIV report S/N: N<sup>o</sup> 0000184

(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: 1742185 2. Type of incident\* OIL SPILL  
3. Name of Location 18" ASSA - RUMUEKYE PIPELINE  
4. Name of nearest community EGBEDA 5. State: RIVERS 6. LGA EMOHUA  
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: 1<sup>ST</sup> NOVEMBER, 2016  
b. Start date/time of investigation: 4<sup>TH</sup> NOVEMBER, 2016  
c. Investigation End date: 4<sup>TH</sup> NOVEMBER 2016 Actual investigation duration, days: 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             |   |

Additional observations around the spill point:

JOINT INVESTIGATION TEAM OBSERVED A HOSE CONNECTED TO THE CRUDE OIL THEFT POINT AT SITE.

### 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 checked="" type="checkbox"/> Failed Weld-on illegal hot tap valve       | <input type="checkbox"/> Failed Clamp,        | <input type="checkbox"/> Missing Pipeline/Flowline                         |
| <input checked="" 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.

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g. Spill point coordinates

h. Measuring unit

WGS 84

| Northing: (LATITUDE) | Easting: (LONGITUDE) |
|----------------------|----------------------|
| 5.21942              | 6.7652               |
| <del>5.21942</del>   | <del>6.7652</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     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?  [N]

If yes to item 14, give brief description:

RECOVERY ACTIVITIES ONGOING.

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

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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 |
|-----|-----------------------------------|-------------|------|--------|----------|
|     | <u>NONE WITHIN AREA OF IMPACT</u> |             |      |        |          |

17. Crops/Economic Trees

| S/N | Type of crops                     | Young | Medium | Matured | Quantity | Comments |
|-----|-----------------------------------|-------|--------|---------|----------|----------|
|     | <u>NONE WITHIN AREA OF IMPACT</u> |       |        |         |          |          |

18. Fishing Nets/Fish Ponds

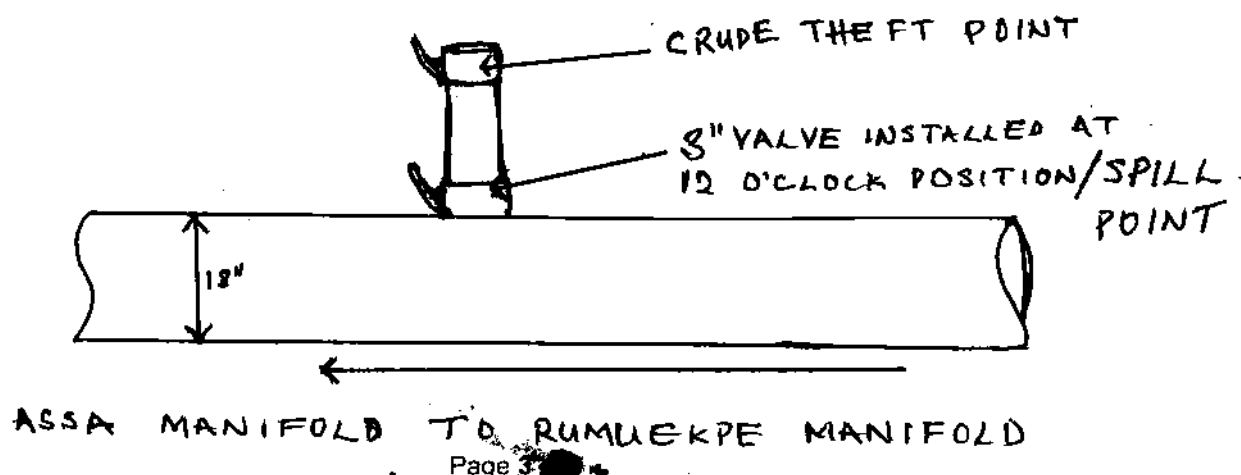
| S/N | Nets/Ponds                        | Description | Quantity/Size | Comments |
|-----|-----------------------------------|-------------|---------------|----------|
|     | <u>NONE WITHIN AREA OF IMPACT</u> |             |               |          |

19. 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 18" ASSA - RUMUEKPE PIPELINE AT EGBEDA SHOWING POSITION OF CRUDE OIL THEFT POINT AS



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

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

| S/N | Northing | Easting |
|-----|----------|---------|
|     |          |         |
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|     |          |         |
|     |          |         |

\* ATTACHED

GVA

COORDINATES

07-11-2016

18" ASSA- RUMUEKPE TRUNKLINE SPILL @ EGBEDA  
INC.NO:1742185; INC DATE: 01/11/2016; INV DATE04/11/2016

| PT_ID | EAST    | NORTH   |
|-------|---------|---------|
| SP    | 6.7652  | 5.21942 |
| 742   | 6.76473 | 5.21773 |
| 743   | 6.76469 | 5.21771 |
| 744   | 6.76484 | 5.21771 |
| 745   | 6.76484 | 5.21768 |
| 746   | 6.76475 | 5.21785 |
| 747   | 6.76472 | 5.21797 |
| 748   | 6.76492 | 5.21791 |
| 749   | 6.765   | 5.21834 |
| 750   | 6.76509 | 5.21835 |
| 751   | 6.76498 | 5.2184  |
| 752   | 6.76482 | 5.21832 |
| 753   | 6.76479 | 5.21837 |
| 754   | 6.76489 | 5.21836 |
| 755   | 6.76493 | 5.21857 |
| 756   | 6.76506 | 5.21872 |
| 757   | 6.76504 | 5.21893 |
| 758   | 6.76511 | 5.21933 |
| 759   | 6.76526 | 5.21937 |
| 760   | 6.76478 | 5.21778 |
| 762   | 6.76485 | 5.21777 |
| 763   | 6.76492 | 5.21829 |
| 764   | 6.76498 | 5.21842 |
| 765   | 6.76506 | 5.21889 |
| 766   | 6.76509 | 5.21889 |
| 767   | 6.76517 | 5.21931 |
| 768   | 6.76519 | 5.21931 |
| 769   | 6.7652  | 5.21943 |
| 770   | 6.76521 | 5.21942 |

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## G. INCIDENT INFORMATION:

### a. Impacted Area Details

- Total calculated area of impact 0.30HA
- Impact within R.O.W YES
- Impact outside R.O.W YES

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

|                           |           |         |
|---------------------------|-----------|---------|
| Recovered oil $V_{rec}$ : | <u>45</u> | Barrels |
|---------------------------|-----------|---------|

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

|            |         |
|------------|---------|
| <u>NIL</u> | Barrels |
|------------|---------|

### c. Net Estimated Spilled Volume $V_{est}$ (bbls)\* =

202.88 BARRELS

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

202 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

Location: 18" ASSA - RUMUEKPE PIPELINE AT EGBEDA.

