

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2631887 JIV report S/N:

0488

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

## A. GENERAL INFORMATION:

1. Fournain Incident Number: 2631887 2. Type of incident: OIL SPILL  
3. Name of Location: 14" OKORDIA - RUMUEKPE PIPELINE AT EDEGHA  
4. Name of nearest community: EDEGHA 5. State: RIVERS 6. LGA: ATKOTDA EAST  
7. Production Facility/Installation: CRUDE OIL PIPELINE  
8. Asset Owner/Hub: THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED (SPDC)/PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident: 26<sup>th</sup> APRIL 2020  
a. Date Reported: 26<sup>th</sup> APRIL 2020  
b. Start date/time of investigation: 27<sup>th</sup> APRIL 2020 / 1400HRS  
c. Investigation End date: 27<sup>th</sup> APRIL 2020 Day(s) on site: ONE DAY  
d. Description of spill point environment  
 Firm soil  Loose soil  Recently excavated area  
 Under water  Swampy  Exposed pipe surface  
 Well Platform (on water)  Drill Rig  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 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"/> Tear (_____)   |   |  |
| <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) Effluent (d) Water Leak (e) Fire (f) Non-leaking theft point removal  
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# JOINT INVESTIGATION REPORT

INCIDENT NO: 2631887 JIV report S/N: 0488

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

h. Measuring unit WGS 84

Northing: <u>LATITUDE</u>	Easting: <u>LONGITUDE</u>
<u>5.032402</u>	<u>6.607040</u>
/	/

## 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 [ 55 ,m]
  - Residential Area       Commercial/Industrial Area
- Farmlands [ 27 ,m]
- Fish Farm Pond [      ,m]
- Fishing net [      ,m]
- Others (specify) \_\_\_\_\_ [      ,m]

### 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:

CLAMPING ON-GOING/RECOVERY OF FREE PHASE AND RESIDUAL CRUDE OIL.

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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):

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

D. TYPENUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

17. Structures / Properties

S/N	Type of Structures	Description	Size	Number	Comments
<b>NONE SEEN WITHIN AREA OF IMPACT</b>					

18. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
<b>NONE SEEN WITHIN AREA OF IMPACT</b>						

19. Fish Nets/Ponds

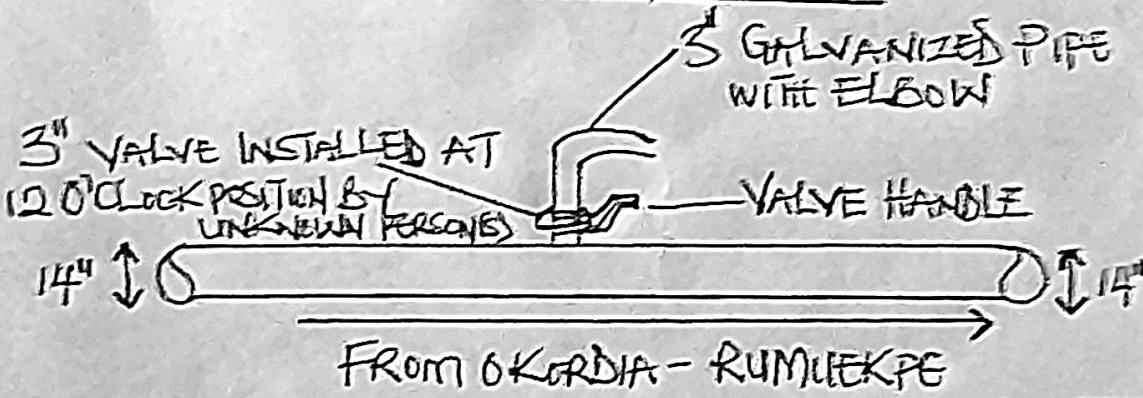
S/N	Fish Nets/Ponds	Description	Quantity/Size	Comments
<b>NONE SEEN WITHIN AREA OF IMPACT</b>				

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

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

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

**A SECTION OF 14" O.KORDIA RUMUEKPE PIPELINE AT DEMA, SHOWING 3" VALVE INSTALLED AT 12 O'CLOCK POSITION BY UNKNOWN PERSON(S).**





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## GENERAL INFORMATION

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.027 Ha
- Impact within SPIN R.O.W. Yes
- Impact outside SPIN R.O.W. No

\* Based on total impacted area of 100 m<sup>2</sup> or more, or a calculated volume of impact of 100 m<sup>3</sup> (e.g. 10 x 10 x 1000).  
\* Impact on Recreation (R/R)

### b. Volume of oil recovered before completion of JIV (V<sub>rec</sub>)

Recovered oil (V<sub>rec</sub>) 15 BARRELS Barrels

Checked/verified evaluation from sources with no impact to environment:

NIL Barrels

c. Net Estimated Spilled Volume (V<sub>net</sub>)\*\* - 198 BARREL

Estimated Reported Volume\*\* (V<sub>net</sub>) - 207 BARRELS

### Notes

- Volume calculation was done using an excel based tool developed for use on the calculator
- Reported volume is in barrels

When calculating net volume, please refer to paragraph 4c. for volume estimation for cases of spill.

NOT APPLICABLE

Calculation of the net spill volume is to be done on site as far as possible using the net spill volume estimation software on JIV.  
(Conversion of m<sup>3</sup> to barrels is 1.62). \*\*Round up estimated volume to next whole number using the following rules:

- Any spill volume in excess of 1 m<sup>3</sup> is rounded up to the next whole number.
- Any spill volume in less than 1 m<sup>3</sup> is rounded up to the next 0.1 m<sup>3</sup>.

Example: Calculated volume = 13.5 m<sup>3</sup> — Reported volume = 78 m<sup>3</sup>  
Calculated volume = 0.15 m<sup>3</sup> — Reported volume = 0.4 m<sup>3</sup>  
Calculated volume = 0.07 m<sup>3</sup> — Reported volume = 0.1 m<sup>3</sup>

Whenever this software tool is not applicable, please refer to paragraph 4c. (Determination) of the JIV procedure to use appropriate steps for volume estimation. Record the calculation on 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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## f. Appendix 1: Overview sketch of the site

