

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2605522 JIV report S/N: 0473

(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: 2605522 2. Type of incident\* OIL SPILL  
3. Name of Location 12" OGUTA-EGBEMA PIPELINE AT EZIORSU  
4. Name of nearest community EZIORSU 5. State: IMO 6. LGA OGUTA  
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  
a. Date Reported: 17<sup>th</sup> MARCH, 2020  
b. Start date/time of Investigation: 18<sup>th</sup> MARCH, 2020 / 1605 HRS  
c. Investigation End date: 19<sup>th</sup> MARCH, 2020 Day(s) on site: TWO DAYS  
d. Description of spill point environment

- |   |                                     |   |
|---|-------------------------------------|---|
| <input type="checkbox"/> Firm soil                | <input 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 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) Siltation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

Version 2020/01

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

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

h. Measuring unit WGS 84

Northing:	Easting:
<u>5.621670</u>	<u>6.758110</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 [      .m]  
      Residential Area       Commercial/Industrial Area  
 Farmlands [      .m]  
 Fish Farm/Pond [      .m]  
 Fishing net [      .m]  
 Others (specify) \_\_\_\_\_ [      .m]

NONE SEEN  
WITHIN AREA  
OF IMPACT

### 12. Containment measures put in place:

- Booms   
  Trench   
  Dyke   
  Pit   
  Natural depression   
  None  
 Others: \_\_\_\_\_

13. Any pictures or video coverage?       [Y]     [N]

14. Further response/repair initiated as at the time of JIV?       [Y]     [N]

If yes to item 14, give brief description:

CLAMPING AND OIL RECOVERY ON-GOING

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

If yes to item 15 give brief description:

NOT APPLICABLE

16. Was JIV delayed? [Y] [X]

Reason(s):

- Delayed Community Access Approval     Security Challenges     Access constraint due to terrain  
 Others (specify) RESIDUAL PRESSURE IN THE LINE

**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
NONE SEEN WITHIN AREA OF IMPACT					

18. Crops/Economic Trees

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

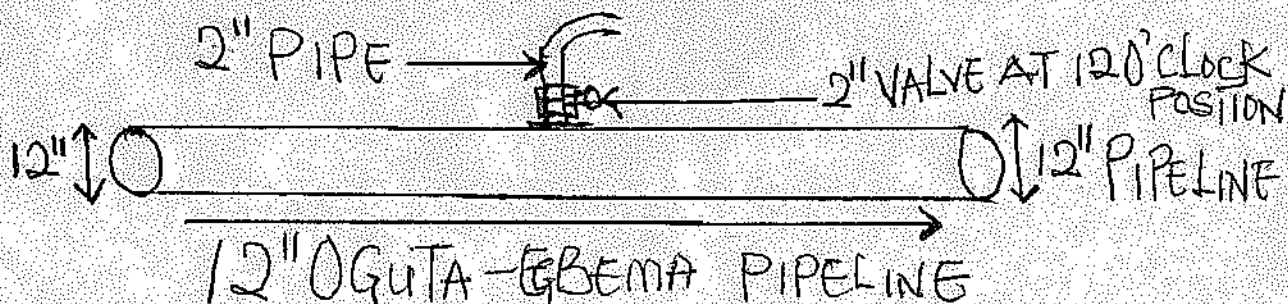
19. Fish/Nets/Ponds

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

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

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

**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 12" OGUTA TO EGBEMA PIPELINE AT EZIORSU SHOWING 2" VALVE INSTALLED AT 12 O'CLOCK POSITION BY UNKNOWN PERSON(S).





s/n	Lat	long	Remark
178	5.62221	6.75813	Boundary
179	5.62219	6.75811	Boundary
180	5.62213	6.75807	Boundary
181	5.62208	6.75809	Boundary
182	5.62184	6.75807	Boundary
183	5.62174	6.75808	Boundary
184	5.62162	6.75807	Boundary
185	5.62151	6.7581	Boundary
186	5.62145	6.75814	Boundary
187	5.62167	6.75811	Spill_Point
188	5.62144	6.75819	Boundary
189	5.62149	6.75822	Boundary
190	5.62196	6.75818	Boundary
191	5.62198	6.75833	Boundary
192	5.62181	6.75839	Boundary
193	5.62174	6.75839	Boundary
194	5.62169	6.75839	Boundary
195	5.6215	6.75844	Boundary
196	5.62133	6.75846	Boundary
197	5.62133	6.75851	Boundary
198	5.62141	6.75852	Boundary
199	5.6217	6.75853	Boundary
200	5.62188	6.75853	Boundary
201	5.62193	6.75853	Boundary
202	5.62197	6.75854	Boundary
203	5.62191	6.75857	Boundary
204	5.62189	6.75859	Boundary
205	5.62184	6.75861	Boundary
206	5.62181	6.7586	Boundary
207	5.62176	6.75861	Boundary
208	5.6217	6.75861	Boundary
209	5.6217	6.75864	Boundary

TITLE:- 12" Uguta Egba  
JIV NO:- 2605522  
INCIDENT DATE:- 17/03/2013  
INVESTIGATION DATE:- 17/03/2013  
COUSRSE :- SABOTAGE  
TERRAIN:- Light Bush a  
Note:- Please Join all P

210	5.62179	6.75862	Boundary
211	5.62187	6.75862	Boundary
212	5.62191	6.75865	Boundary
213	5.62185	6.75866	Boundary
214	5.62186	6.75869	Boundary
215	5.62192	6.7587	Boundary
216	5.62198	6.7587	Boundary
217	5.62202	6.75868	Boundary
218	5.62203	6.7586	Boundary
219	5.62205	6.75858	Boundary
220	5.62204	6.75855	Boundary
221	5.62208	6.75856	Boundary
222	5.62207	6.75853	Boundary
223	5.62202	6.75852	Boundary
224	5.62201	6.75848	Boundary
225	5.62201	6.75835	Boundary
226	5.62201	6.75827	Boundary
227	5.62201	6.75822	Boundary
228	5.62208	6.75818	Boundary
229	5.6221	6.7582	Boundary
230	5.62212	6.75819	Boundary
231	5.62214	6.75816	Boundary
232	5.62217	6.75816	Boundary
233	5.62223	6.75815	Boundary

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**G. INCIDENT INFORMATION:**

**a. Impacted Area Details \***

- Total calculated area of impact (Ha) 0.25 HA
- Impact within SPDC R.O.W YES
- Impact outside SPDC R.O.W YES

\* 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. 14.55, 0.0051, 0.0009)  
 \* Express in Hectares (Ha)

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

Recovered oil $V_{\text{rec}}$ :	<u>125</u>	Barrels
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Controlled recovery/evacuation from source with no impact to environment:

<u>NIL</u>	Barrels
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<p><b>c. Net Estimated Spilled Volume <math>V_{\text{est}}</math> (bbls)* = <u>149.98 BARRELS</u></b></p>
<p><b>Estimated Reported Volume** <math>V_{\text{rep}}</math> (bbls) = <u>150 BARRELS</u></b></p>

**\*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:

NOT APPLICABLE

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  $\text{Volume (m}^3) \times 6.29$ ; \*\*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 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 <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]:
- 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

