

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2725259 JIV report S/N: 0683

(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: 2725259 2. Type of incident\* OIL SPILL  
3. Name of Location 12" MORNER 2 - OGALE PIPELINE  
4. Name of nearest community ODAGWA 5. State: RIVERS 6. LGA ETCHE  
7. Production Facility/Installation CRUDE OIL PIPELINE  
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY  
OF NIGERIA LIMITED / PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date Reported: 3<sup>RD</sup> SEPTEMBER 2020  
b. Start date/time of Investigation: 5<sup>TH</sup> SEPTEMBER, 2020 / 13:14 HRS  
c. Investigation End date: 5<sup>TH</sup> SEPTEMBER, 2020 Day(s) on site: ONE 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             | <input type="checkbox"/> Sand bag(s)                        |

Additional observations around the spill point:

NOT APPLICABLE

## 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

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

h. Measuring unit WGS 84

Northing:	Easting:
<u>4.98085</u>	<u>7.17030</u>
<u>4.98083</u>	<u>7.17033</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

- |                                                                                               |   |     |
|-----------------------------------------------------------------------------------------------|---|-----|
| <input type="checkbox"/> Government reserved and designated protected area                    | [ | ,m] |
| <input type="checkbox"/> Drinking water source                                                | [ | ,m] |
| <input type="checkbox"/> Surface water <input type="checkbox"/> Borehole                      | [ | ,m] |
| <input type="checkbox"/> Built up Area                                                        | [ | ,m] |
| <input type="checkbox"/> Residential Area <input type="checkbox"/> Commercial/Industrial Area | [ | ,m] |
| <input type="checkbox"/> Farmlands                                                            | [ | ,m] |
| <input type="checkbox"/> Fish Farm/Pond                                                       | [ | ,m] |
| <input type="checkbox"/> Fishing net                                                          | [ | ,m] |
| <input type="checkbox"/> Others (specify) _____                                               | [ | ,m] |

None seen  
within  
vicinity

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:

CRUDE OIL RECOVERY AND REPAIR ACTIVITIES ARE ONGOING.

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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 constraint due to terrain  
 Others (specify) NOT APPLICABLE

**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
<u>NONE WITHIN AREA OF IMPACT</u>					

18. Crops/Economic Trees

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

19. Fish/Nets/Ponds

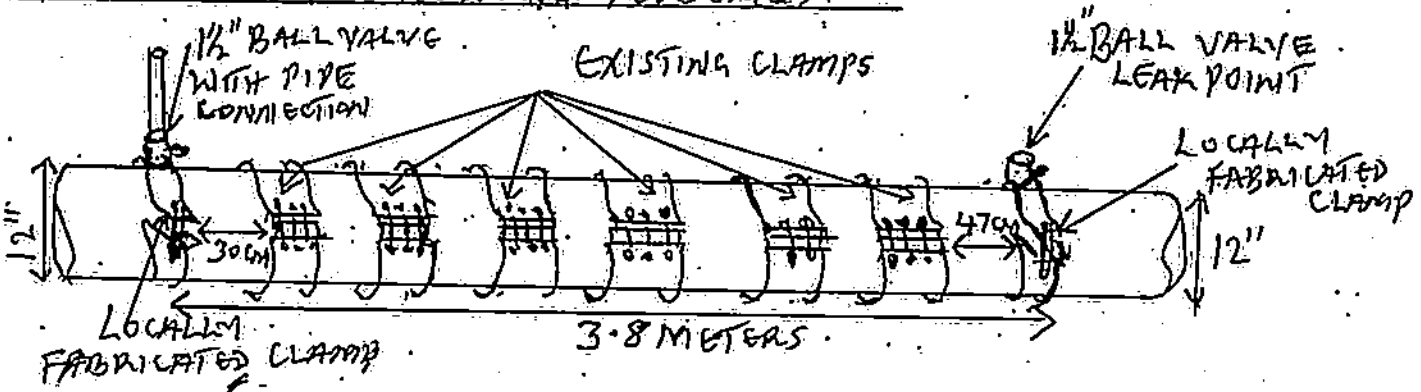
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
<u>NONE WITHIN AREA OF IMPACT</u>				

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

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

**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)

SECTION OF 12" IMPROVED 2-OGALE PIPELINE AT ODAGWA SHOWING TWO NOS OF CRUDE OIL THEFT POINTS INSTALLED AT 12 O'CLOCK POSITION BY UNKNOWN PERSONS.



FROM IMPROVED 2 TO OGALE



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## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.05 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>5</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 $V_{\text{Es}}$ (bbls)\* =

7.70 BARRELS

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

8 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 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

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

