

JOINT INVESTIGATION REPORT

INCIDENT NO: 2730748 JV report SN: 0583

(Note: In general, it is preferable for the JIR report to be signed on the third by all the participating parties)

A. GENERAL INFORMATION

1. Facility Incident Number 2730748 & Type of Incident FIRE / OIL SPILL
2. Name of Location 8° ISIMIRI - IMO RIVER GAZ DELIVERYLINE
3. Name of nearest community UNDELECHI near ABIA & LGA UKWA-NWEST.
4. Production Facility Name OIL PIPELINE
5. Asset Owner Name THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED (PIPELINE)

B. INCIDENT INFORMATION

1. Date Reported 11TH SEPTEMBER 2020
2. Start Date/Time of Investigation 13TH SEPTEMBER 2020
3. Investigation End date 13TH SEPTEMBER 2020 Dwell on site ONE (1) DAY
4. Description of soil post environment

<input type="checkbox"/> Open soil	<input type="checkbox"/> Loose soil	<input checked="" type="checkbox"/> Recently excavated area
<input type="checkbox"/> Under water	<input type="checkbox"/> Driveway	<input type="checkbox"/> Exposed pipe surface
<input type="checkbox"/> Soil (Flatten top water)	<input type="checkbox"/> On a log	<input type="checkbox"/> Sand (log)

Additional observations around the soil post:

NOT APPLICABLE:

C. Description of leak post (tick as applicable)

- | | | |
|--|---|---|
| <input type="checkbox"/> Unwelded butt-joint leak | <input type="checkbox"/> Rough-edge hole | <input type="checkbox"/> Hot's tear out |
| <input type="checkbox"/> Complete fracture | <input type="checkbox"/> Inward dent | <input type="checkbox"/> Well head tampering |
| <input checked="" type="checkbox"/> Weld failure (crack) hot tap valve | <input type="checkbox"/> Flare Flare | <input type="checkbox"/> Moving Pipeline/flowline |
| <input type="checkbox"/> Flare oil leak (illegal burner ring) post | <input type="checkbox"/> Severe or 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 Seal |
| <input type="checkbox"/> Flare System Burn in all 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"/> Unintentional 3 rd party equipment impact |
| <input type="checkbox"/> Fire (_____) | | |
| <input type="checkbox"/> Other (specify) _____ | | |

D. Incident caused by

- Third party interference (Sabotage) credit theft Law theft Accidental 3rd party damage
- Operational Others (including Mystery spill) _____

*This form is for Oil Spill or Drilling fluid/brine/chemical release only. For other types of incidents, use Form JIR-001 (including the user manual)

Version 2020/01

Distribution of copies: White (Asset Owner) Pink (OPN) Green (NOC/OPA) Yellow (State Ministry of Environment) Blue (Local Community)

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1. Spill Point Coordinates (*Indicate 5/10th spot as in appropriate and use Joint Investigation Report)

2. Mapping ref: NGS 84

Number	Easting
LATITUDE	LONGITUDE
4-82337	7-20588

C. RISK ASSESSMENT

10. Details of Environment

1. Type of environment where spill occurred (select one)

Land Swamp Water Riparian swamp Shoreline/Waterfront

2. Type of environment in which oil has spread

Land Swamp Waterbody (specify) _____

3. Weather conditions

Dry Wet Windy Hot

4. Distance to sensitive habitat within 100m radius

- | | | | | |
|---|--|---|---|-----------|
| <input type="checkbox"/> Government owned and designated protected area | | m | } | NONE SEEN |
| <input type="checkbox"/> Drinking water source | | m | | |
| <input type="checkbox"/> Surface water <input type="checkbox"/> Runoff | | m | | |
| <input type="checkbox"/> Bush up Area | | m | | |
| <input type="checkbox"/> Residential Area <input type="checkbox"/> Commercial/Industrial Area | | m | | |
| <input type="checkbox"/> Farmland | | m | | |
| <input type="checkbox"/> Pasture/Pond | | m | } | WITHIN |
| <input type="checkbox"/> Fishing net | | m | | |
| <input type="checkbox"/> Other (specify) _____ | | m | | |

5. Containment measures put in place

Barricade Truck Dike Pile Natural depression None

Other _____

6. Any potential or visible coverage? (Y/✓/N)

7. Further response/reports initiated as a result of JIV? (Y/✓/N)

8. For item 14, give brief description:

BEING WORK ON ASHING

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INCIDENT INFORMATION

a. Impacted Area Details *

- Total excavated area of impact (m²) 0.04 Ha
- Impact within SPOC A/G W Yes
- Impact outside SPOC A/G W Yes

* Based off 0.2 distance across of area is ≥ 100 m² or to 1 distance across of area is ≥ 100 m² (e.g. 14.14, 0.001, 0.0004)
 * Legend in Manual (14)

b. Systems of oil recovered before completion of JIV (Y or N)

Recovered oil Yield	NIL	Barrels
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Controlled recovery/evaporation from source with no impact to environment.

NIL	Barrels
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c. Net Estimated Spilled Volume Y_{net} (barrels) =

36.77 BARRELS

Estimated Recovered Volume[†] (barrels) **37 BARRELS**

Notes

- 1. Further collection was done using an oil/water based soil test strip (check for details on the calculation)
- 2. Reported spilled volume is an estimate
- 3. Other other cleanup team takes into consideration for volume calculation at time of spill.

NOT APPLICABLE

Calculations of the respective estimated volume is to be done on site or as soon as practicable using the site spill volume collection software or use Calculators of oil in barrels in Volume in L or m³. **Round up estimated volume to next whole number using the following rules:

- Up spill volume is more than 1 m³ is rounded up to the next whole number
- Up spill volume is less than 1 m³ is rounded up to the next 0.1 m³

Example: Calculated volume = 11.3 m³ — Reported volume = 12 m³
 Calculated volume = 0.11 m³ — Reported volume = 0.1 m³
 Calculated volume = 0.91 m³ — Reported volume = 0.9 m³

Whenever this information that is not applicable please refer to paragraph 6. (Structure) 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

1. Joint investigators of the incident did conclude that there is no residual impact after the initial response and JIC therefore recommended that the site be closed out
2. Investigations of the incident did determine that there is residual impact on site requiring further works

e. Representatives

This report was (EBC), (DPR) and (SME) 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

To, & as applicable

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1. Appendix 1. Overview sketch of the site

