

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2067467 JIV report S/N: 107

(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: 2067467 2. Type of incident\* OIL SPILL  
3. Name of Location 12" IMO RIVER - OGALE PIPELINE  
UMUELECHI  
4. Name of nearest community (UZUAKU) 5. State: ABIA 6. LGA UKWA-WEST  
7. Type of Production facility/Installation OIL PIPELINE  
8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY  
OF NIGERIA LIMITED / PIPELINE

## B. INCIDENT INFORMATION:

### 9. Details of incident

- a. Date of incident: 28TH APRIL, 2018  
b. Start date/time of investigation: 4TH MAY, 2018 / 12:18 HOURS  
c. Investigation End date: 4TH MAY, 2018 Actual investigation duration, days: ONE (1) 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

Additional observations around the spill point: SPILL WAS OBSERVED TO HAVE OCCURRED IN AN ONGOING REMEDIATION SITE WITHIN THE VICINITY OF A RAILWAY TRACK. UPON EXPOSING THE SPILL POINT, THE SURROUNDING POLYKENE TAPE COATING WAS NOTICED TAMPERED WITH BY UNKNOWN PERSON(S).

### c. Description of leak point (tick as applicable);

- Drilled hole  Hack saw cut  Tear ( \_\_\_\_\_ ),  
 Complete Rupture  Inward dent,  Well head tampering  
 Failed Weld-on illegal hot tap valve  Failed Clamp,  Missing Pipeline/Flowline  
 Crude oil theft (illegal bunkering) point,  Saver-pit over flow  Third party tampering with Clamp  
 Third party tampering with valve setting  Bulging Outward  Third party tampering with flange,  
 Flare System/Bund wall failure  Cold vent  Surge vessel overflow,  
 Valve Failure  Relief valve failure  Accidental 3<sup>rd</sup> party equipment impact  
 Corrosion  Others(specify) \_\_\_\_\_

### f. Incident caused by:

- Third party interference (Sabotage ; crude theft ; Line theft ; Accidental 3<sup>rd</sup> party damage   
 Operational  Mystery spills  Others(specify) \_\_\_\_\_

\*This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2067467 JIV report S/N: 1037

g. Spill point coordinates

h. Measuring unit

WGS 84

Northings: LATITUDE	Eastings: LONGITUDE
4.89380	7.17641
<del> </del>	<del> </del>
<del> </del>	<del> </del>
<del> </del>	<del> </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 [ 20 ,m]
- Fish Farm/pond [      ,m]
- Fishing net [      ,m]
- Others (specify) [      ,m]

12. Containment measures put in place;

- Booms     
  Trench     
  Dyke     
  Natural depression     
  Pit     
  None
- Others: BUND WALL

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:

RECOVERY OF FREE-PHASE OIL WAS BEING DONE

15. Was there any disruption to the investigation?

[Y] [N]

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2067467 JIV report S/N:1037

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
NONE WITHIN AREA OF IMPACT					

**17. Crops/Economic Trees**

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

**18. Fishing Nets/Fish Ponds**

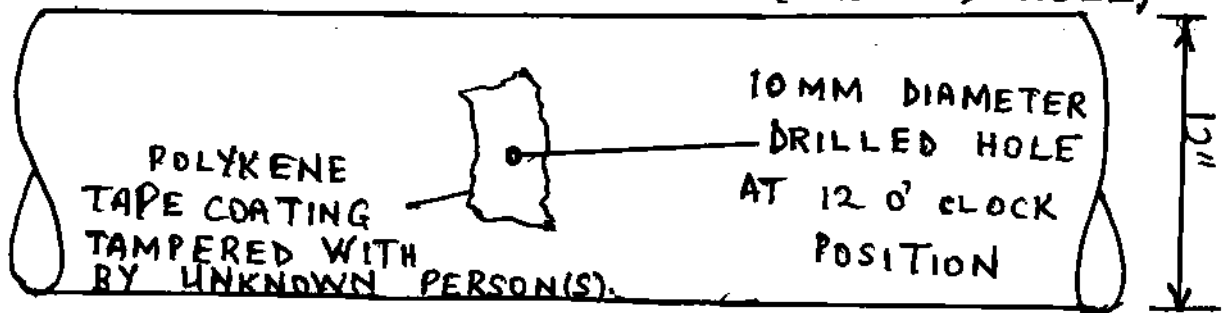
S/N	Nets/Ponds	Description	Quantity/Size	Comments
NONE WITHIN AREA OF IMPACT				

**19. Others (Specify) i.e. Animal Traps**

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

**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 I)

PLAN SECTION OF 12" IMO RIVER - OGALE PIPELINE AT UMUELECHI (UZUAKU) SHOWING POSITION OF LEAK POINT (DRILLED HOLE)



FROM IMO RIVER  
→  
TO OGALE



# JOINT INVESTIGATION REPORT

INCIDENT NO: 2067467 JIV report S/N: 1037

## G. INCIDENT INFORMATION:

### a. Impacted Area Details

- Total calculated area of impact 0.07Ha
- 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>56</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  $V_{Est}$ (bbls)\* = 115.57

Estimated Reported Volume\*\*  $V_{rep}$ (bbls) = 116 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:

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  $m^3$  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 6e (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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INCIDENT NO: 2067467 JIV report S/N: 1037

## 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]:
- 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

