

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1713683 JIV report S/N: Nº 0000183

(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: 1713683 2. Type of incident\* OIL SPILL  
3. Name of Location 12" IMORIVER - OGALE PIPELINE  
4. Name of nearest community OWAZA 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 LTD (SPDC)

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date of incident: 18TH SEPTEMBER 2016  
b. Start date/time of investigation: 21ST SEPTEMBER 2016 / 1300HRS  
c. Investigation End date: 21ST SEPTEMBER 2016 Actual investigation duration, days: ONE (1) 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             |   |

Additional observations around the spill point: THE JOINT INVESTIGATION TEAM OBSERVED 3 NOS OF 2" VALVES INSTALLED 30CM FROM EACH AT 12 O'CLOCK POSITION, BY UNKNOWN PERSONS

### e. Description of leak point (tick as applicable):

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Drilled hole  | <input type="checkbox"/> Hack saw cut         | <input type="checkbox"/> Tear (_____),                                     |
| <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"/> 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) construction e) Encroachment f) Fire.



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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
<b>NONE WITHIN AREA OF IMPACT</b>					

**17. Crops/Economic Trees**

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
1	PALMTREES			MATURED		IMPACTED

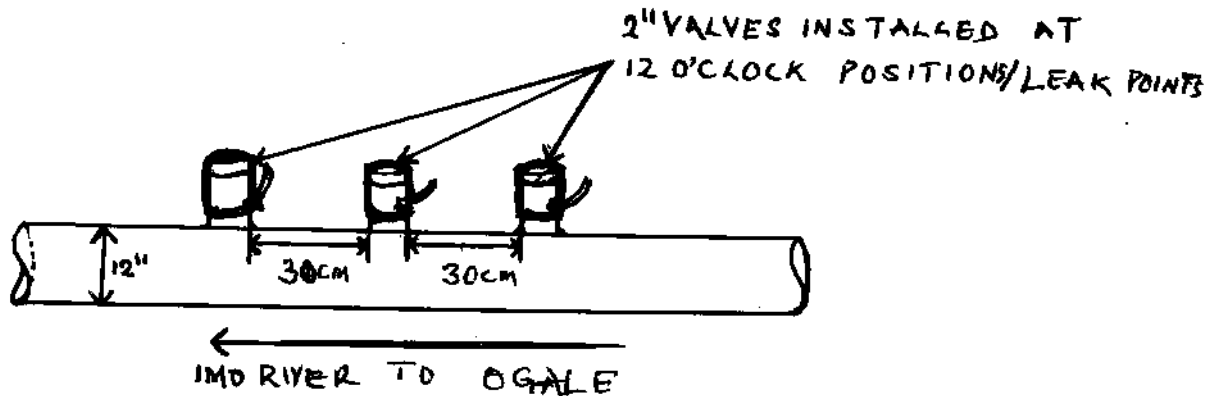
**18. Fishing Nets/Fish Ponds**

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

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

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

**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 1) **A SECTION OF 12" IMD RIVER - OGALE PIPELINE SHOWN AT DWAZA SHOWING 3 NOS OF 2" VALVES INSTALLED 30CM APART FROM EACH AT 12 O'CLOCK POSITIONS BY UNKNOWN PERSONS.**






**12" IMORIVER - OGALE PIPELINE AT OWAZA SPILL SITE IMPACTED AREA COODINATES**

**INCIDENT NUMBER: 1713683**

NAME	LATITUDE	LONGITUDE
452	4.9435	7.18481
453	4.94348	7.18477
454	4.94348	7.18473
455	4.94346	7.18471
456	4.94347	7.18466
457	4.94348	7.1845
458	4.94341	7.18445
459	4.94336	7.18431
460	4.94336	7.18426
461	4.94355	7.18428
462	4.94369	7.18377
463	4.94368	7.1839
464	4.94373	7.18389
465	4.94377	7.18389
466	4.94366	7.18393
467	4.94359	7.18424
468	4.94361	7.18427
469	4.94361	7.18429
470	4.94356	7.18446
471	4.9435	7.18464
472	4.9437	7.18477
473	4.94371	7.18481
474	4.94329	7.18449
475	4.94323	7.18448
476	4.94328	7.18438
477	4.94331	7.18436
478	4.94334	7.18441

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## G. INCIDENT INFORMATION:

### a. Impacted Area Details

- Total calculated area of impact 0.12 Ha.
- 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>30 BARRELS</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 $V_{esp}$ (bbbls)\* =

98.93 BBLS

### Estimated Reported Volume\*\* $V_{rep}$ (bbbls) =

99 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:

/

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  $Volume (m^3) \times 6.29$ ; \*\*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 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

- |  |
|--|
| 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):
- 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

