

# JOINT INVESTIGATION REPORT

INCIDENT NO: 3076774 JIV report S/N: 01113

*(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: 3076774 2. Type of incident: OIL SPILL  
 3. Name of Location: 20" KOLO CREEK - RUMULEKPE PIPELINE  
 4. Name of nearest community: ODAU 5. State: RIVERS 6. LGA: ABUJA/ODUWAL  
 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: 28th DECEMBER, 2021  
 b. Start date/time of Investigation: 31st DECEMBER, 2021 12:15 HRS  
 c. Investigation End date: 31st DECEMBER, 2021 days on site 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                       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"/> Straight cut (Similar to 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 oil theft , Line theft , Accidental 3<sup>rd</sup> party damage )  
 Operational                       Others (including Mystery spills) \_\_\_\_\_

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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: <span style="float: right;">LATITUDE</span>	Easting: <span style="float: right;">LONGITUDE</span>
4.928101	6.435957
/	/
/	/

## 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 VICINITY

### 12. Containment measures put in place:

- Booms   
  Trench   
  Dyke   
  Pit   
  Natural depression   
  None   
  Others

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:

REPAIR BY CLAMPING

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

If yes to item 15 give brief description:  
NOT APPLICABLE  
NOT APPLICABLE

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

Reason(s):  
 Delayed Community Access Approval  Security (Subjects)  Other constraint due to terrain  
 Other (specify) NOT APPLICABLE

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL  
 17. Structures / Properties

SN	Type of Structures	Description	Size	Number	Comments
<u>NONE WITHIN AREA OF IMPACT</u>					

18. Crops/Economic Trees

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

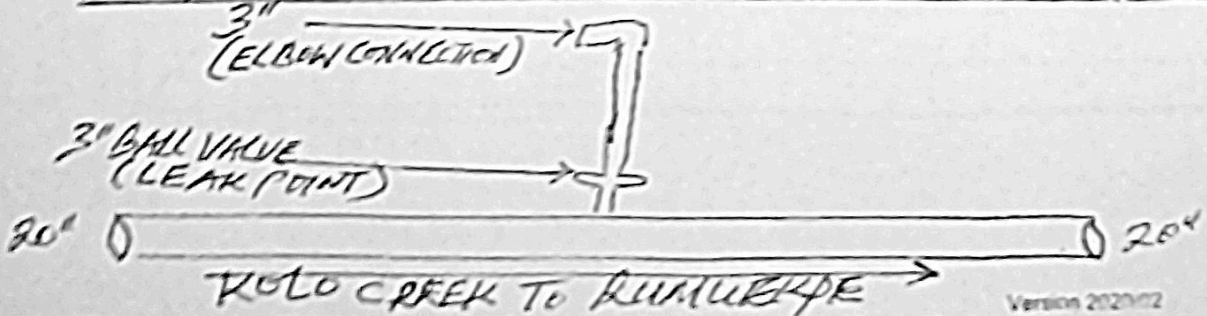
19. Fish/Netts/Ponds

SN	Fish/Netts/Ponds	Description	Quantity	Size	Comments
<u>NONE WITHIN AREA OF IMPACT</u>					

20. Others (Specify) i.e. Animal traps

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

E. GRAPHIC DESCRIPTION OF LEAK POINT (include detail report of the leak report, overview sketch of the site should be added as an appendix) A SECTION OF 20" KULO-CREEK-RUMUEKPE PIPELINE AT CDAL SHOWING A 3" BALL VALVE WITH A 3" ELBOW CONNECTION INSTALLED AT 12 O'CLOCK POSITION BY UNKNOWN PERSON(S)



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TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

21. Impacted area boundary Coordinates (If more, Print and attach as an Appendix)

SN	Northing	Easting

See ATTACHED FOR  
COORDINATES LISTING

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## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.71 Ha
- Impact within SPDC R.O.W (Ha) YES
- Impact outside SPDC R.O.W (Ha) 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  $V_{\text{rec}}$ : 22 BARRELS Barrels

Controlled recovery/evacuation from source with no impact to environment:

NIL Barrels

c. Net Estimated Spilled Volume  $V_{\text{res}}(\text{bbls})^*$  169.54 BARRELS

Estimated Reported Volume\*\*  $V_{\text{rep}}(\text{bbls}) =$  170 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 Volume ( $\text{m}^3$ )  $\times 6.29$ ; \*\* 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

Version 2020/02

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

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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 JIV 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

