

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2690503 JIV report S/N: 0573

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

## A. GENERAL INFORMATION:

1. Fountain Incident Number: 2690503 2. Type of incident\* OIL SPILL  
3. Name of Location 8" NKALI-IMOR 2 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 (SPDC)/PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date Reported: 21<sup>ST</sup> JULY, 2020  
b. Start date/time of Investigation: 22<sup>ND</sup> JULY, 2020/1210HRS  
c. Investigation End date: 22<sup>ND</sup> JULY, 2020 Day(s) on site: ONE 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:

PRODUCTION SAMPLE POINT CONTROL BOX REMOVED BY UNKNOWN PERSON.

## 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 checked="" 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:
4.985125	7.138524
<del> </del>	<del> </del>
<del> </del>	<del> </del>

## 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 [ 5 ,m]  
 Fish Farm/Pond [      ,m]  
 Fishing net [      ,m]  
 Others (specify) \_\_\_\_\_ [      ,m]

### 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:

CLAMPING ON-GOING

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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
NONE WITHIN AREA OF IMPACT					

18. Crops/Economic Trees

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

19. Fish Nets/Ponds

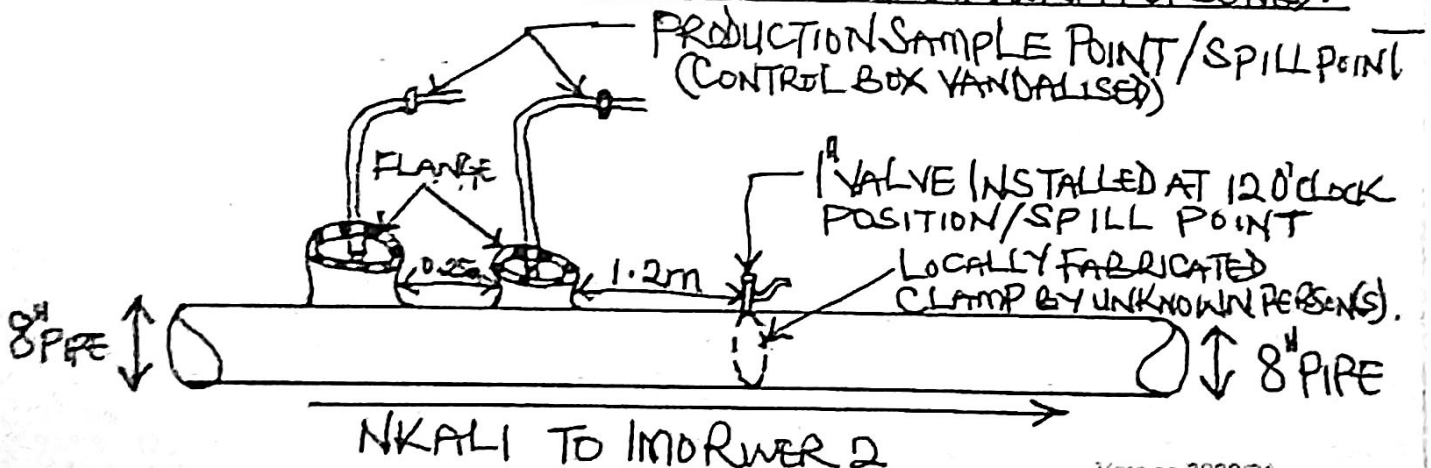
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
NONE SEEN WITHIN AREA OF IMPACT				

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

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

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) A SECTION OF 8" NKALI-IMORIVER 2 AT ODAGWA SHOWING 1" LOCALLY FABRICATED CLAMP (INSTALLED) ALONGSIDE WITH (ONE) 1" VALVE AT 12 O'CLOCK BY UNKNOWN PERSON(S).



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F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

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

S/N	Northing	Easting
1	4.985091	7.138488
2	4.985147	7.138517
3	4.985155	7.138547
4	4.985166	7.138570
5	4.985181	7.138509
6	4.985194	7.138529
7	4.985190	7.138556
8	4.985202	7.138594
9	4.985208	7.138618
10	4.985153	7.138626
11	4.985110	7.138589
12	4.985069	7.138535
13	4.985231	7.138442
14	4.985222	7.138435
15	4.985236	7.138412
16	4.985261	7.138433
17	4.985238	7.138451
18	4.985247	7.138458
19	4.985190	7.138517

*[Handwritten Signature]*



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**G. INCIDENT INFORMATION:**

**a. Impacted Area Details \***

- Total calculated area of impact (Ha) 0.01305 Ha
- Impact within SPDC R.O.W YES
- Impact outside SPDC R.O.W YES

\* Rounding off to 2 decimal places if area is > 100 m<sup>2</sup> or to 4 decimal places if area is < 100 m<sup>2</sup> (e.g. 1.2345678, 0.0000)

\* Express in hectares (Ha)

**b. Volume of oil recovered before completion of JIV (V<sub>recovered</sub>)**

Recovered oil V <sub>recovered</sub>	Barrels
<u>NIL</u>	

Controlled recovery/evacuation from source with no impact to environment

<u>NIL</u>	Barrels
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**c. Net Estimated Spilled Volume V<sub>net</sub>(bbls)\* = 1.74 BARRELS**

**Estimated Reported Volume\*\* V<sub>reported</sub>(bbls) = 2 BARRELS**

**\*Notes:**

- Volume estimates were done using an aerial Aerial View (see aerial view for details on the calculation)
- Reported spilled volume is in barrels

Other notes related to this spill are included in the investigation report or volume estimates or cause of spill

NOT APPLICABLE

Calculations of the respective estimated volume is to be done as per the procedure in the spill volume estimation software as per Conversion of m<sup>2</sup> to barrels in Volume (m<sup>2</sup>) x 0.29 \*\* 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 is less than 1 bbl is rounded up to the next 0.1 bbl

**Examples**

Calculated volume = 1.3 bbl	Reported volume = 1 bbl
Calculated volume = 0.13 bbl	Reported volume = 0.1 bbl
Calculated volume = 0.01 bbl	Reported volume = 0.1 bbl

Whenever this estimation tool is not applicable please refer to paragraph 6.1 (Continued) of the JIV procedure to use appropriate spill volume estimation, record the calculations 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:

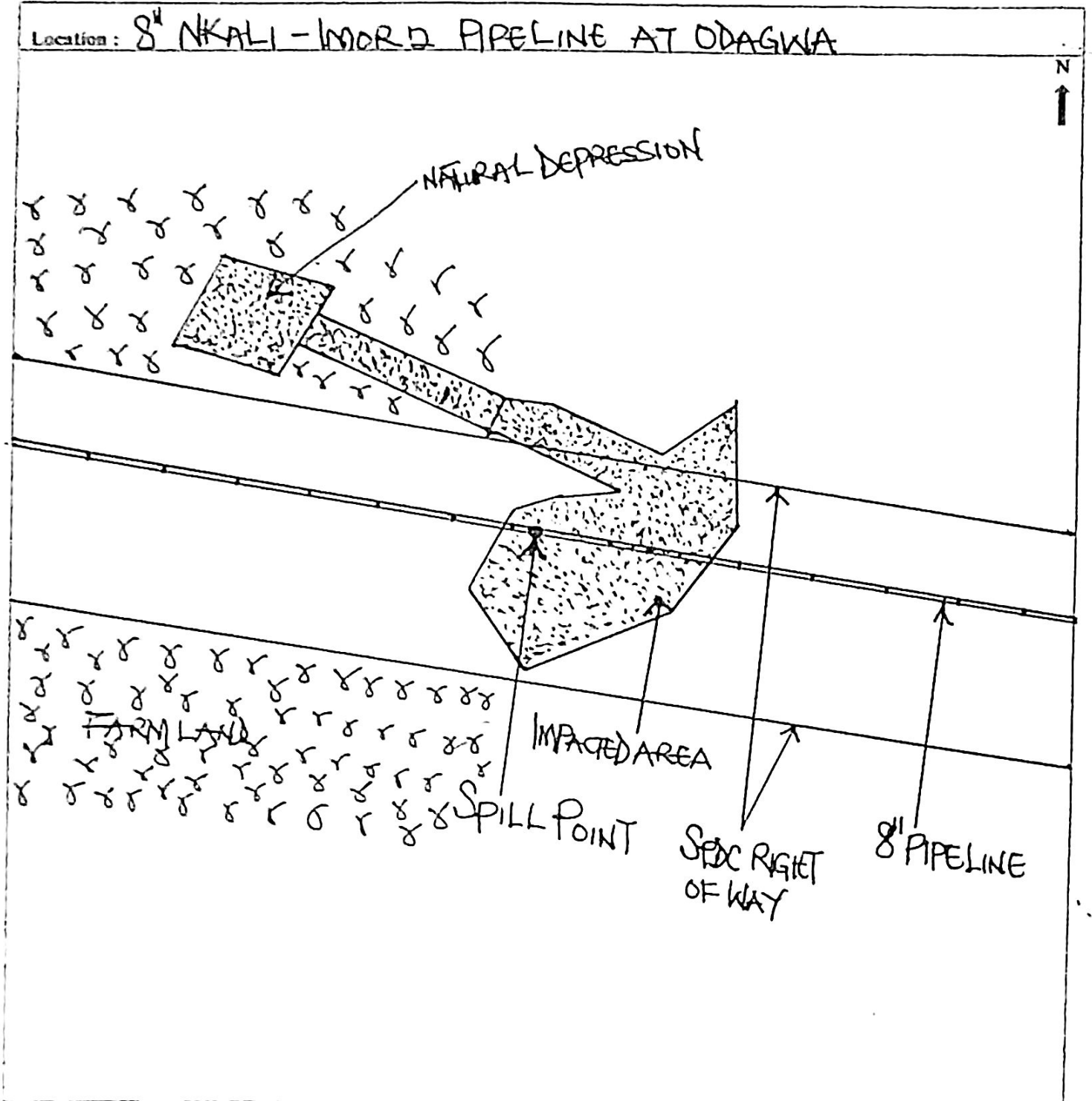
- Host Community:
- Department of Petroleum Resources [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- The Shell Petroleum Development Company [SPDC]:
- *Separate DPR form has been filled out with same findings*
- *Separate NOSDRA form has been filled out with same findings*
- *Separate SME form has been filled out with same findings*

*Tick as applicable*

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## 1. Appendix 1: Overview sketch of the site



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