

# JOINT INVESTIGATION REPORT

INCIDENT NO: 2679256 JIV report S/N:

0641

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

## A. GENERAL INFORMATION:

1. Fountain Incident Number: 2679256 2. Type of incident\* OIL SPILL  
3. Name of Location 20<sup>th</sup> KOLOCRCEK - RUMHEKPE PIPELINE  
4. Name of nearest community OWEREHERE 5. State RIVERS 6. LGA OBUA - ODUAL  
7. Production Facility/Installation OIL PIPELINE  
8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED PIPELINE

## B. INCIDENT INFORMATION:

9. Details of incident  
a. Date Reported: 1<sup>ST</sup> JULY, 2020 4:42PM  
b. Start date/time of Investigation: 5<sup>TH</sup> JULY 2020 16:25PM  
c. Investigation End date: 5<sup>TH</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:

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"/> Hack saw cut                                      |
| <input type="checkbox"/> Complete Rupture                                     | <input type="checkbox"/> Inward dent          | <input type="checkbox"/> Well head tampering                               |
| <input checked="" 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 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 or Slurries (c) Water Leak (d) Fire (e) Non-leaking (f) pipe rupture

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15. Was there any disruption to the investigation? (Y) (N)  (Y)  (N)

16. Was there any other disruption to the investigation?

NOT APPLICATION

17. Was JIV delayed? (Y) (N)  (Y)  (N)

- Reasons:
- Delays/Accessibility Access Approval
  - Security Challenges
  - Access constraint due to terrain
  - Other (specify):

18. TYPE NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

19. Structures, Properties

S/N	Type of Structure	Description	Size	Number	Comments
NONE WITHIN AREA OF IMPACT					

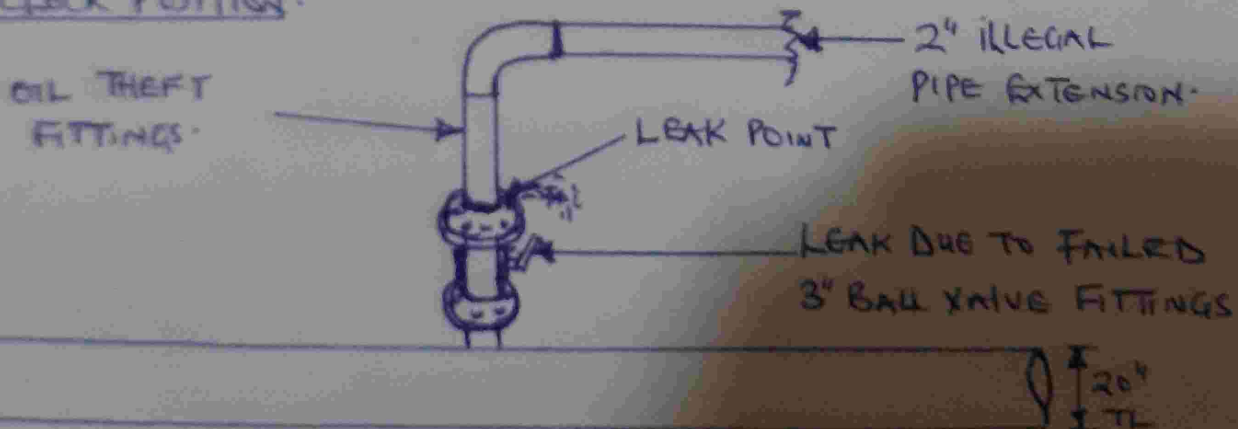
S/N	Type of crop	Young	Medium	Matured	Quantity	Comments
NONE WITHIN AREA OF IMPACT						

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

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

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the final report, overview sketch of the site should be added as appendix 1)

SECTIONAL VIEW OF 20" KOLDCREEK - RUMBEKPE (TRUNKLINE) PIPELINE AT GHEREWERE SHOWING: FAILED 3" BALL VALVE FITTINGS INSTALLED AT 12 O'CLOCK POSITION.





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## G. INCIDENT INFORMATION:

### a. Impacted Area Details \*

- Total calculated area of impact (Ha) 0.22 ha
- Impact within SPDC R.O.W YES
- Impact outside SPDC R.O.W YES

\* Rounded 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)  
\* Expressed in Hectares (Ha)

### b. Volume of oil recovered before completion of JIV ( $V_{\text{rec}}$ ):

Recovered oil $V_{\text{rec}}$ :	<u>NIL</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 $V_{\text{res}}$ (bbls)\* =

24 BARRELS

Estimated Reported Volume\*\*  $V_{\text{rep}}$  (bbls) = 24 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 ( $\text{m}^3$ ) 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 6c (Deviations) of the JIV procedure to use appropriate steps for column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

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# JOINT INVESTIGATION REPORT

INCIDENT NO: 24792-56 JIV report SIN: 0641

## a. General Status of the site

Joint investigation of the incident did follow the form a full incident report after the initial response and JIV function is intended for the site to be closed

Investigation of the incident did follow the form a residual report on site requiring further work

## b. Representatives

This report was filled, signed and signed by the following joint investigation team representatives:

- Blue 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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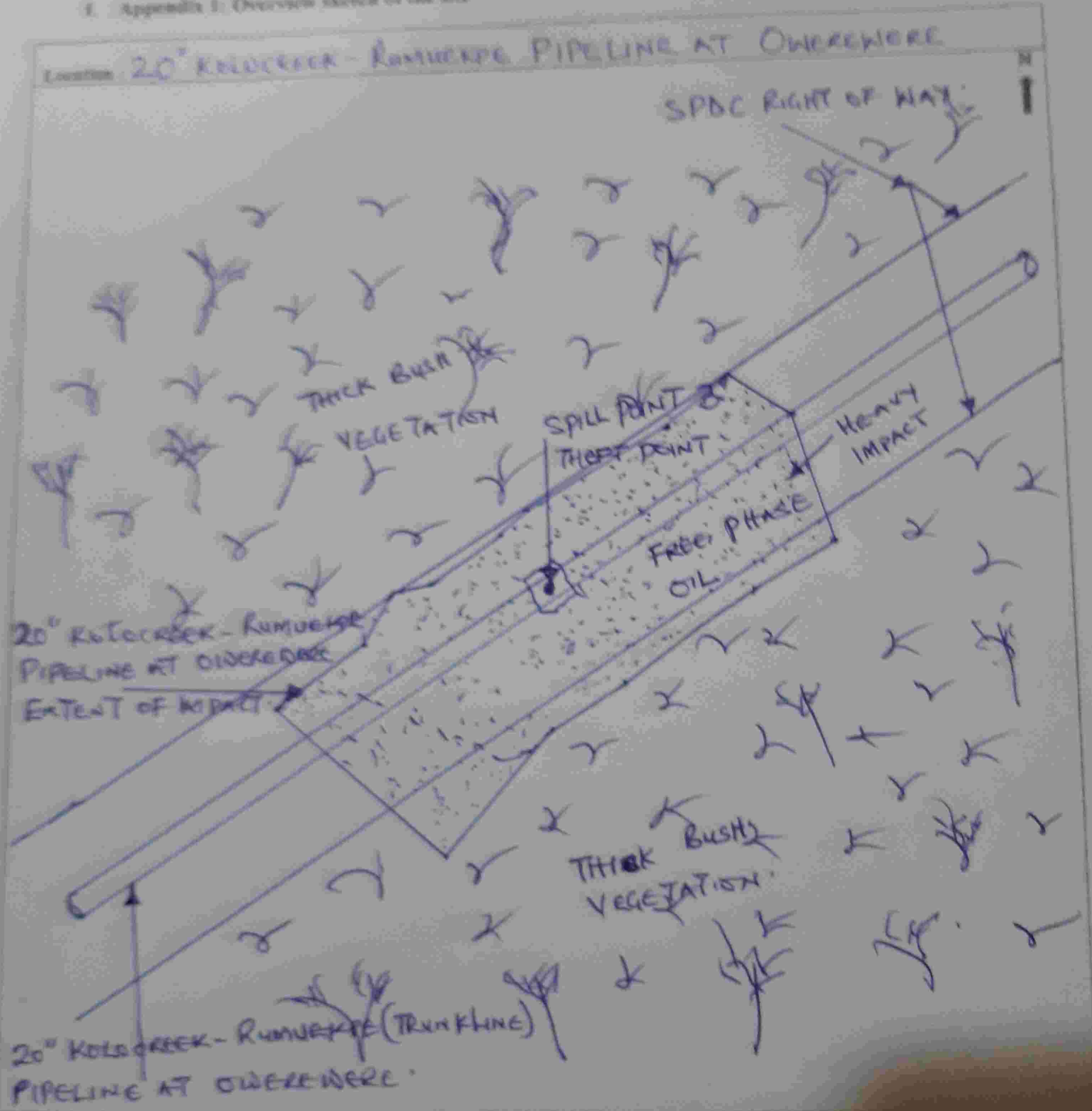
Blue (Blue Community)



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



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