

# JOINT INVESTIGATION REPORT

INCIDENT NO: 1428935 JIV report S/N: Nº 000006

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

## A. GENERAL INFORMATION:

1. Spill incident Number: 1428935 2. Type of incident\* OIL SPILL  
3. Name of Location OBIGBO WELL 10 T WELLHEAD  
4. Name of nearest community UMUDINOR 5. State: RIVERS 6. LGA OYIGBO  
7. Type of Production facility/Installation WELL HEAD  
8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED / LAND 1

## B. INCIDENT INFORMATION:

### 9. Details of incident

- a. Date of incident: 27TH JUNE, 2015  
b. Start date/time of investigation: 30TH JUNE, 2015 / 11:40 HOURS  
c. Investigation End date: 30TH JUNE, 2015 Actual investigation duration, days: ONE (1) DAY  
d. Description of spill point environment

- |  |                                     |  |
|--|-------------------------------------|--|
| <input type="checkbox"/> Firm soil                                       | <input type="checkbox"/> Loose soil | <input type="checkbox"/> Recently excavated area |
| <input type="checkbox"/> Under water                                     | <input type="checkbox"/> Swampy     | <input type="checkbox"/> Exposed pipe surface    |
| <input checked="" type="checkbox"/> Well Platform (on <u>LAND</u> Water) | <input type="checkbox"/> Drill Rig  |  |

Additional observations around the spill point: THE JOINT INVESTIGATION TEAM ON ARRIVAL AT SITE OBSERVED THAT TWO (2) NO. GAS LIFT VALVES ON THE OBIGBO WELL 10 T WELL HEAD HAD BEEN REMOVED BY UNKNOWN PERSONS WITH ONE OF THEM TO WHICH A GAS LIFT VALVE WAS INITIALLY CONNECTED BEING THE LEAK POINT. ALSO, MISSING BOLTS AND NUTS WERE OBSERVED ON THE MASTER AND SURVEY VALVES

### 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 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 |

Others (specify) CHRISTMAS TREE GAS LIFT VALVES' REMOVED BY UNKNOWN PERSON(S).

### 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) Situation d) construction e) Encroachment f) Fire.

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g. Spill point coordinates

h. Measuring unit

was 84

Northing: (LATITUDE)	Easting: (LONGITUDE)
4.88072	7.12355
<hr/>	<hr/>
<hr/>	<hr/>

### 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

- |  |              |
|--|--------------|
| <input type="checkbox"/> Government reserved and designated protected area | [      ,m]   |
| <input type="checkbox"/> Drinking water source                             | [      ,m]   |
| <input checked="" type="checkbox"/> Built up area                          | [ 5      ,m] |
| <input type="checkbox"/> Farmlands   | [      ,m]   |
| <input type="checkbox"/> Fish Farm/Pond                                    | [      ,m]   |
| <input type="checkbox"/> Fishing net                                       | [      ,m]   |
| <input type="checkbox"/> Others (specify).                                 |              |

12. Containment measures put in place;

- Booms     
  Trench     
  Dyke     
  Natural depression     
  Pit     
  None
- 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:

NOT APPLICABLE

15. Was there any disruption to the investigation?

[ Y ] [ N ]

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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
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** (The detail report of the leak point should be contained in the leak report, overview sketch of the site should be attached as an appendix 1)

OBIGBO WELL 10T CHRISTMAS TREE

OBSERVED MISSING BOLTS AND NUTS ON SURVEY VALVE

SURVEY CAP

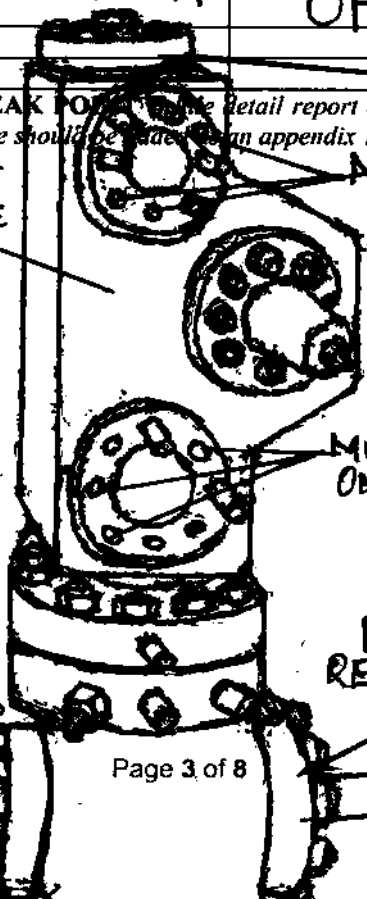
OBSERVED MISSING BOLTS AND NUTS ON MASTER VALVE

INITIAL POSITION OF GAS LIFT VALVE REMOVED BY UNKNOWN PERSON(S) (LEAK POINT)

GAS LIFT LINE

SECTION OF OBIGBO WELL 10T WELL HEAD AT UMUDINOR SHOWING LEAK POINT (MISSING GAS LIFT VALVE REMOVED BY UNKNOWN PERSON(S)).

INITIAL POSITION OF SECOND GAS LIFT VALVE REMOVED BY UNKNOWN PERSON(S) (BLINDED BY SPDC ASSET OWNER AS AT TIME OF JIV).



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

20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

was 84

S/N	Northing (LATITUDE)	Easting (LONGITUDE)
2	4.88084	7.12389
3	4.88091	7.12389
4	4.88095	7.12387
5	4.88114	7.12395
6	4.88118	7.12393
7	4.88101	7.12329
8	4.88092	7.12325
9	4.88097	7.12337
10	4.88091	7.12339
11	4.88090	7.12334
12	4.88087	7.12318
13	4.88059	7.12326
14	4.88059	7.12336
15	4.88050	7.12337
16	4.88052	7.12342
17	4.88062	7.12346
18	4.88060	7.12354
21	4.88049	7.12346
22	4.88045	7.12338
23	4.88031	7.12340
24	4.88048	7.12359
25	4.88052	7.12382
26	4.88040	7.12382
27	4.88053	7.12410
28	4.88050	7.12416
29	4.88057	7.12412
30	4.88075	7.12412
31	4.87982	7.12388
32	4.88046	7.12370
33	4.88071	7.12461

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**G. INCIDENT INFORMATION:**

**a. Impacted Area Details**

- Total calculated area of impact 0.41 Ha
- Impact within R.O.W YES
- Impact outside R.O.W NO

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

Recovered oil $V_{rec.}$ :	<b>NIL</b>	Barrels
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Controlled recovery/evacuation from source with no impact to environment:

<b>NIL</b>	Barrels
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**c. Net Estimated Spilled Volume  $V_{Est}$ (bbls)\* = 3.99**

**Estimated Reported Volume\*\*  $V_{rep}$ (bbls) = 4 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<sup>3</sup>) 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 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

