JIV report S/N:

Nº 0000085

INCIDENT NO: 1538313

(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: 1538313 2. Type of incident\* OIL SPILL FIRE 3. Name of Location WELL 27 8" FROWLINE 4. Name of nearest community Atama NDOKE. State: RIVERS 6. LGA 6 LIGBO 7. Type of Production facility/Installation FLOW LINE. 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIG LTD. B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 6 TH December 2015 b. Start date/time of investigation: 7Th JANKAEJ, 2016 c. Investigation End date: 7th JANWAT 25 Stual investigation duration, days: 5NG UNT d. Description of spill point environment DLoose soil ☐Firm soil Under water ☐ Swampy ☐Exposed pipe surface ☐ Dril!Rig Well Platform (on Water Additional observations around the spill point: ON EXCAVATION, THE JOINT INVESTIGATING TEAM OBJERVED THE PRESENCE OF SAND BAGS, PUNCH, DRILL BIT SCREW DRIVER AND CONCRETE EAST HOLDING 2" BALL VALUE INSTITUTE AT 12° CLOCK POSITION. e. Description of leak point (tick as applicable); ☐Hack saw cut ☐ Tear ( ` Drilled hole ☐ Inward dent... ☐ Well head tampering Complete Rupture Failed Weld-on illegal hot tap valve ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐ Bulging Outward ☐ Third party tampering with flange, ☐ Third party tampering with valve setting ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Cold vent Accidental 3rd party equipment impact ☐ Valve Failure Relief valve failure ☐Others(specify) f. Incident caused by: Third party interference (Sabotage□; crude theft : Line theft □; Accidental 3rd party damage□) Others (including Mystery spills) ☐ Operational

<sup>\*</sup>This can be; a) Oil Spill b) Drilling fluid Chemical c) Siltation d) construction e) Encroachment f) Fire,

INCIDENT NO: 1538313 JIV report S/N: Nº 0000085 g. Spill point coordinates h. Measuring unit Easting: Northing: ATITUDE SOUTIDE 4130 C. RISK ASSESSMENT 10. Type of environment: ☐Shoreline/Waterfront □Water ☐ Seasonal swamp ☐Swamp Type of environment to which oil has spread: ■Water ☐River (identify) □ Swamp Weather condition □cooĭ □Wet ■Windy □D<sub>TY</sub> □Rain 11. Distance from the nearest sensitive habitat Government reserved and designated protected area (m, [m, □ Drinking water source ,m] Built up area ſm, ☐ Farmlands ☐ Fish Farm/Pond □ Fishing net Others (specify). 12. Containment measures put in place; □None ☐ Natural depression Trench Dyke □ Booms Others: 13. Any pictures or video coverage? [Y] 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description; PLANNED KEPKIR WORK INN [Y] 15. Was there any disruption to the investigation?

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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)

		•
S/N	Northing LATITUDE	Easting LONGITUDE
1.	4.84131	7.26240
2.	4.84129	7.26243
3	4.84127	7.26240
4.	4.84129	7·26240 7·26243 7·26240 7·26238
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G. INCIDENT INFORMATION:
a. Impacted Area Details
<ul> <li>Total calculated area of impact 0.0012Ha</li> <li>Impact within R.O.W 1ES</li> <li>Impact outside R.O.W No</li> </ul>
b. Volume of oil recovered before completion of JIV (Vrec.):
Recovered oil V <sub>recJ</sub> : NIL Barrels
Controlled recovery/evacuation from source with no impact to environment:    NIL   Barrels
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =
(1+1) BARRET = 2 BARRETS
Estimated Reported Volume** V <sub>rep</sub> (bbls)= 2 backets
*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;
THE SPILL ON 6TH DECEMBER, 2015 WAS ACCOMPANIED BY FIRE ON 14TH DECEMBER, 2015 AND YOLUME
Considered.
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' to barrels is Volume (m3) 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.
<ul> <li>Any spill volume in less than = 1 bbl = is rounded up to the next 0.1 bbl.</li> </ul>
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 puragraph 6c (Deviations) of the MV procedure to use appropriate steps for

volume estimation; record the calculation in a plain sheet of paper and and, han the AV report.

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a.	General	Status	oi the	site

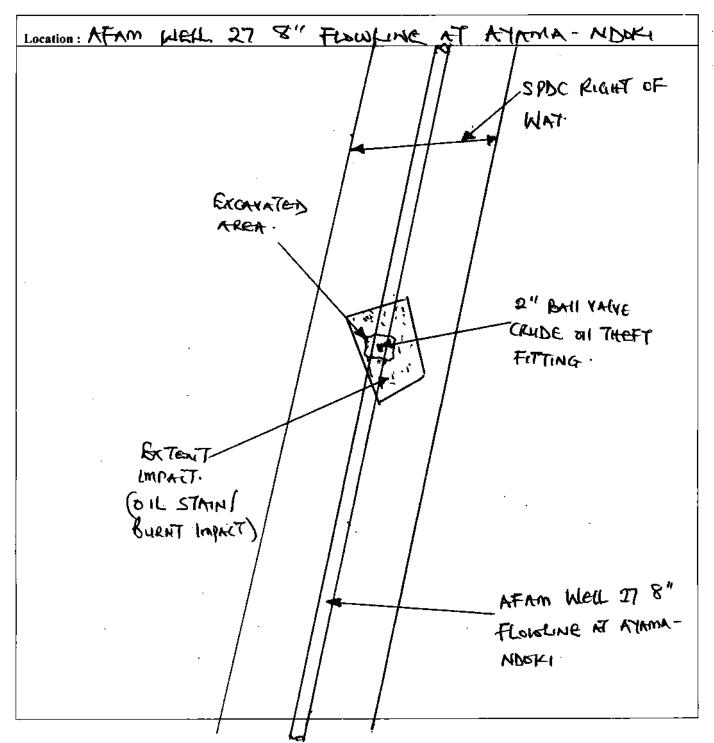
i.	Joint investigation of the incident site found that there is no residual impact after the initial response	and JIT
	therefore recommend that the site be closed out	
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	

#### e. Representatives

This report was filled, agreed and signed by the following joint investigation team rep	
	resentatives:
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



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