INCIDENT NO: 1599264 JIV report S/N:

Nº 0000133

(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: 1599264 2. Type of incident\* O/L SP/LL 3. Name of Location OGUTA WELL 17 L FLOWLINE UMUDRODDGWUM 4. Name of nearest community OGUTA 5. State: 1MO 6. LGA OGUTA 7. Type of Production facility/Installation FLOWLINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA (SPOC LANDT **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 21st MARCH 2016 b. Start date/time of investigation: 3/ST MARCH 2016/1300HRS c. Investigation End date: 3157 MAR CH 2016 Actual investigation duration, days: ONE (1) DAY d. Description of spill point environment VEFirm soil/CONCRETE ☐Loose soil ☐Recently excavated area ☐Under water ☐ Swampy DExposed pipe surface ☐Well Platform (on Water DrillRig Additional observations around the spill point: THE JOINT INVESTIGATION TEAM OBSERVED CORROBED FLOWLINE SURFACE AND A PIN-HOLE POINT AT 6 O'CLOCK POSITION. e. Description of leak point (tick as applicable); ☐ Drilled hole ☐Hack saw cut ☐ Tear ( ☐ Inward dent. ☐Complete Rupture ☐ Well head tampering 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 valve setting ☐ Third party tampering with flange, ☐Flare System/Bund wall failure Cold vent ☐ Surge vessel overflow, ☐ Valve Failure Relief valve failure Accidental 3<sup>rd</sup> party equipment impact VEOthers(specify) CORROSION f. Incident caused by: ☐ Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3<sup>rd</sup> party damage☐) Operational Others (including Mystery spills)

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

JIV report S/N:

INCIDENT NO: 1599264

Nº 0000133 g. Spill point coordinates W45 84 h. Measuring unit Easting: Northing: 6.708 690 5.662670 C. RISK ASSESSMENT 10. Type of environment: ☐Shoreline/Waterfront **L**and □Water ☐ Seasonal swamp □ Swamp Type of environment to which oil has spread: ☐River (identify)\_ **L**and □Water Swamp ii. Weather condition Sunny Cool ☐ Hot □Wet ☐ Windy □Rain 11. Distance from the nearest sensitive habitat ☐ Government reserved and designated protected area ,m] □ Drinking water source ,m] ☐ Built up area ,m) □ Farmlands ,m) □ Fish Farm/Pond (m, □ Fishing net ,m] MOthers (specify). INSIDE DGUTA FLOWS TATION. 12. Containment measures put in place; JZPit None Trench Dyke ☐ Natural depression □ Booms Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description: PLANNED REPAIR

15. Was there any disruption to the investigation?

[Y]

INCIDENT NO: 1599264 JIV report S/N: Nº 0000133

<del></del>	Description	Size	Number		Comments
NONE W	THIN	ARE	A O	F /A	1PACT
17. Crops/Economic Tree  N Type of crops Youn		Medium			
NONE W	HTHIN	Medium	Matured	Quantity	Comments
18. Fishing Nets/Fish Pone	ds			<u> </u>	
N Nets/Ponds	Description		Quantity/Size	Comments	
NONS W	HTHIN .	ARE	A - 01	IMI	ACT
19. Others (Specify) i.e. A	nimal Traps  Description	<del>-</del>	Quantity/Size	Comments	
VONE WIT	TH/N	AR	CA C	F/A	1PACT
GRAPHIC DESCRIPTION	of the site should	be added as a	n anneodix II - 🖊	0 /	ROBED Ei nut
UTA WELL 17 REACE AND A	Z FLOW	E SPI	LL POIN	TAT	6 0'CLOCK
leak report, overview sketch UTA WELL 17 REACE AND A SITION.	Z FLOW	E SPI	LL POIN	T <b>+</b> T	6 O'CLOCK

FROM WELL IT TO FLOWLING STATION

INCIDENT NO: 1599264 JIV report S/N: Nº 0000133

#### 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	
109	5.662680	6.708700
110	5.662640	6.708700 6.708720 6.708690
111	5.662640 5.662670	6.708690
112	5.662670	6.708680
,		
		1271
		900
	:	//.
	·	

INCIDENT NO: 15 99264 JIV report S/N: NO 9808133

G.	INC	<b>IDENT</b>	INFOR	MATION:
----	-----	--------------	-------	---------

a. Impacted Area Detail	a.	Im	pacted	Area	Detail
-------------------------	----	----	--------	------	--------

Total calculated area of impact

Impact within R.O.W

Impact outside R.O.W

NO

b. Volume of oil recovered before completion of JIV (VrecI):

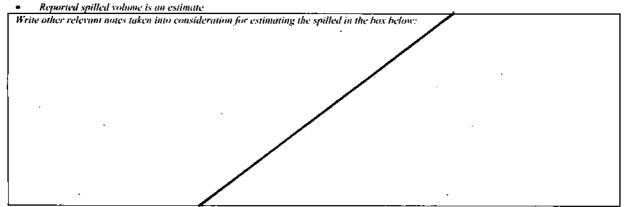
Recovered oil V<sub>rec.j</sub>: N/L Barrels

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

N/L Barrels

#### \*Notes:

Volume estimation was done using an excel based tool (see attached for details on the calculation)



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<sup>4</sup> 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.
- Any spill volume in less than I bbl is rounded up to the next 0,1 bbl.

Wherever this estimation tool is not applicable please refer to paragraph be (Deviations) of the AV procedure to use appropriate steps for volume estimation; record the eak ulation in a plain sheet of paper and attach to the AV report

INCIDENT NO: 1599264 JIV report S/N: Nº 0000133

#### 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
- ii. Investigation of the incident site showed that there is residual impact on site requiring further works



#### Representatives

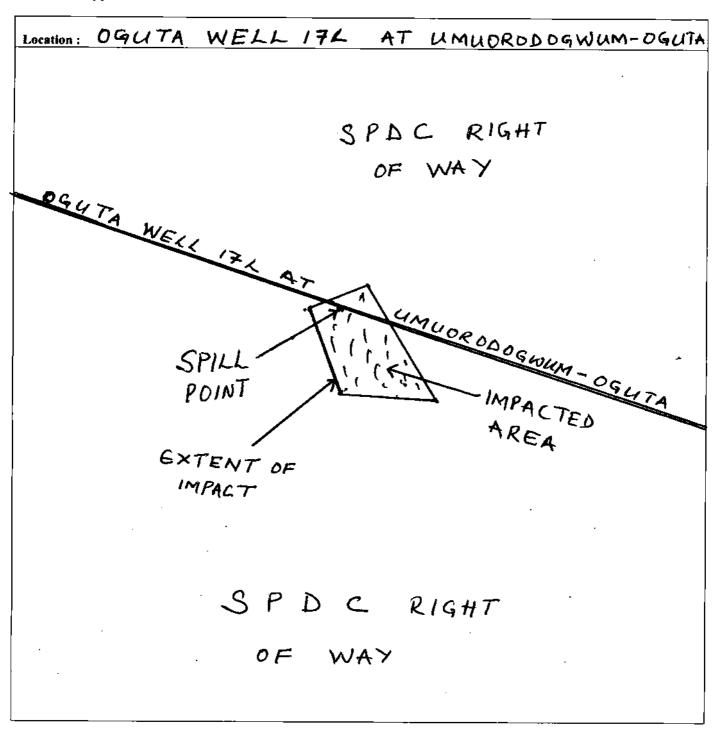
This report was filled, agreed and signed by the following joint investigation team representatives:

- Host Community
- Department of Petroleum Resources | DPR | N
- National Oil Spill Detection and Response Agency [NOSDRA]
- State Ministry of Environment [SME]
- Asset Owner
- Signatories agree with reported finding
- Separate DPR form has been filled out with same finding \inf

Tick as applicable

INCIDENT NO: 1599264 JIV report S/N: Nº 0000133

f. Appendix 1: Overview sketch of the site



INCIDENT NO: 1599264 JIV report S/N: Nº 0000133

# g. SIGNATORIES: JOINT INVESTIGATION TEAM MEMBERS

Having read through the IIT report, the following representatives append their respective signatures in agreement with the content therein:

S/N	Name	Members present	Designation	Signature/Date and Time
1	AKPAOUK V	DEPARTMENT OF PETROLEUM RESOURCES (DPR)	ft ii-	K373/16
2	Pue okos	NATIONAL OIL SPILL DETECTION AND RESPONSE AGENCY (NOSDRA)	550	21/2/12
3	ON YICHA	STATE MIN. OF ENVIRONMENT	PETROLEUM	131/03/16
4	Usukary AsukA	HOST COMMUNITY REPRESENTATIVE	Comm. RED.	Jul 31/03/16
5	W. LOX GAMANEL	ASSET OWNER REPRESENTATIVE	field supt	Veen 1440
6	DIOHN FELLY	HOST COMMUNITY REPRESENTATIVE	Comm	31/03/16 144, HRS
				14416