No. 00609

A. GENERAL INFORMATION: 62987	<u> </u>
1. Spill incident Number:	<u> </u>
2. Name of Location 6 FGBEMA	ASSA T/L@ ASSA
3. Name of nearest community ————————————————————————————————————	
4. State / MO LGA	OHAJIEGBEMA
5. Type of Production facility/Installation TRUKK LINESet	owner/District 2119/PINESP
5. Type of Production facility/Installation 3.	,
B. INCIDENT INFORMATION:  6. Details of incident  a. Date of incident  b. Date/Period of investigation, 47H MARCI	π, 2011
C. Description of spill point environment    Firmed soil	NI AFTER JOINT NI INVESTIGATION OF THE NI INCIDENT SPILL
Description of leak point (tick as applicable);  Drilled hole,  Hack saw cut,  Explosive tear,  Complete Rupture  Inward dent,  Well head tampering  Failed Weld-on illegal hot tap valve,  Missing pipeline (flowline)  Crude oil theft (illegal bunkering) point,  Third party tampering with Clamp Bolt/Nut,  Third party tampering with valve setting,  Third party tampering with flange Nuts/bolts,  Corrosion,  Type:  Saver-pit over flow,  Outward dent  Others (specify).	WAS FOUND TO BE  [Y] [N] OUE TO THIRD [Y] [N] PARTY [Y] [N] INTERFERENCE [Y] [N]
e. Spill point coordinates (MINNA MID-BEL	T)
Northing:	Easting:
152829·823m	481787.579m

#### C. RISK/DAMAGE ASSESSMENT

No. 0609

	7.	Type of environment of spill site:		
		Land		
		□ Swamp		
		□ water		
		Type of environment of which oil has spread:		
		Land		
		□ Swamp		
		water		
	8.	Distance from the nearest sensitive habitat		
		☐ Government reserved and designated protected area	[	,m]
		Drinking water source	<u>[</u>	,m]
		□ Built up area □ Farmlands □ Fish Farm/Pond  → T  → PPLIC	ABL	
			"	,m]
		□ Fishing net	Ì	,m]
	9.	Others (specify).		
	Э.	Containment measures put in place;		,
		□ Booms	[ Y]	[N]
		☐ Trench	[ <b>V</b> ]	[N]
		Dyke	[Y]	
		Others: NOT APPLICABLE	_	
	10.	. Any pictures or video coverage?	[8]	[N]
	11.	Was there any disruption to the investigation?	[Y]	NY
				•
If ves	give	e brief description:		
	<i></i>			
	<b>→</b>	INT ADDITION BLE		
		MULT ALT I POLICE	_	

#### D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

### A. Structures / Properties

S/N	Type of Structures	. n. f	Description	Size	Number	Comments
	·	L	111.11	1 AD	TA AT	IMPACT
1	MMP	II	// / <i>////</i>	VAK	27 H	1111770
$\perp \sim$	O/V		, , , , , ,		,	, , ,
						[

#### B. Crops/Economic Trees

S/N	Types of crops	Young	Medium	Matured	Quantity	Comments
	MAKI	INI	1 10	WITH	IXI AD	EA AT
	YOTY	2/04	140	<i>                                      </i>	4 11	en ut

C. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	ish/Nets/Ponds Description		Comments
		DDICA		<del> </del>
	101	17 Pich		<u> </u>
<b>'</b>	1 '			

D. Others (Specify) i.e. Animal Traps

S/N	Others	)thers		ription	Quantity/Size	Comments
	1	_A_	000	CLD	-	
<b>⊢</b>	<del>VU / -</del>	#		1 CAT D		-
	<del>'</del>	•	•		-	

E. GRAPHIC DESCRIPTION OF LEAK POINT (Details should be contained in leak repair report)

SECTION OF 16" ECIBEMA ASSA T/L @ ASSA

SHOWING ILLECTAL BUNKERING POINT FITTING

NITH A VALUE

2" NIPPLETA INSTALLED

AT 12 O'CLOCK POSITION



F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION
E. Coordinates (MINNA MID-BELT)

	College	
S/N	Northing	Easting
959	152829.916	481784.504
760	152829.823	481790.749
981	152823.671	481790.749 481787.626 481784.550
962	152826.747	481 784.550

N

# No.

bbl

G. INCIDENT INFORMATION:	G G G G
17 Impacted Area Details  a. Total calculated area of impact  Impact within SPDC R.O.W	24m²
• Impact outside R.O.W / Y L	<del></del>
18 Volume of oil recovered before completion of JIV (V <sub>rec.</sub> ):  Recovered oil V <sub>rec.</sub> ;	NIL barrels
19. Computation of the residual volume on site  a. Computation of the volume of pooled free phase oil (on land or c  i. Area (m²) occupied by pool of free phase oil  ii. Average Depth (m) of pool of free phase oil  iii.	YOT A PPLICABLE
Volume of pooled of free phase oil $V_{pool}$ : iv.	N/L barrels
b. Computation of volume of infiltrated oil in the soil (V-3).  i Area (m²) covered by the oil:  ii Average Depth (m) below ground surface of iii Soil type:  iv. p <sub>e</sub> (effective porosity of the soil:  v.	24.  of infiltration of oil:  barrels

20. Computation of volume of oil on open water based on standard coloration.

	Thickness (mm)	Percentage coverage	Volume (m3)	•
Barely Visible	0.00004			
Silvery	0.00008	NOT	<u> </u>	
Slight Colour	0.00015	74 - 1		
Bright Colour	0.0003			
Dull	0.001	APPLO	ABLE_	
Dark	0.002	137		
Black oil	0.1	·		ĺ
Emulsion (30% Oil)	1	<u> </u>		]
, ,	Percent Total	100% {	Total Volume	NL

Spill Factors from USCG FOG (2000 Edition)

## THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA JOINT INVESTIGATION REPORT FOR INCIDENT NO:

Tick as applicable

evide ·		a of oil on open w	ater V <sub>wa</sub> :	NIL	barrels
21. Calculation of e	~ ^				
		MYY L	19117		
ii. E-Fa	actor: <u>25</u>	<u> </u>			
iii.					
	Voli	ume of evaporated	d oil 7 V mp?	).15	barrels
Oil Type		Bonny Light	Bonny Medium		
		E-Factor	E-Factor		
Period Since Oil Spill	<1 day	10%	5%		
	1-7 days	25%	15%		
	>7 days	40%	25%		
9. Gross Total Estimate (bbls) - 7  10. Net Total Estimate (bbls) + VrecJ (bbls)	5 ed Spilled Volum		V vap (bbls) + 0.6	6*Vwat (bbls) + Vinf (bbls)	
VEst(bbls)=	75				
*Calculation of the resp *Conversion of m3 to b *Emulsification factor	earrel is Total vo	lume VT (m3) x6.	.29	-	tware on site
This report was fi investigation repre  • Host Comm	sentative fror	ed on the $\underline{ heta}$	<u>4 / 03 /</u> 20	// at inciden	t site by joint
Department	of Petroleum	n Resources [Di	PR]:		
National Oil	Spill Detection	on and Respons	e Agency [NO	SDRA]: 🔽	
State Minist	ry of Environ	ment [SME]: 🖪	<b>1</b>		

• Nigeria Police Force [NPF]: \( \square\)

• Shell Petroleum Development Company [SPDC]: