No. 00766

A. GENERAL INFORMATION:	
l. Spill incident Number: 670909	250pm=sid48888
2. Name of Location 24" NKPOKU - BOMU PIPELINE	
Name of Location And Andrews Comments of C	_ _
3. Name of nearest community ————————————————————————————————————	48888
RIVERS LGA GOKANA.	p====0655q-==
5. Type of Production facility/Installation DIPELINE Asset owner /District - <u>YIG IP NESP</u>	
5. Type of Production facility/Installation Fix	
☐ 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, ☐ Corresion ☐ Corresion ☐ Third party tampering with flange Nuts/bolts, ☐ Third party tampering with flan	THE NAS Y FIRE OINT HATIEN OF CIDENT LAS FOUND
Others (specify).	
e. Spill point coordinates Northing: (MINA MID-BEIT) Easting:	
75878-90 M 535 037. 57 M	

C. RISK/DAMAGE ASSESSMENT	NO.	0766
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/L ,m]	
☐ Drinking water source	[Nu ,m]	
☐ Built up area	[~(~,m]	
□ Farmlands	[m, Oi	
☐ Fish Farm/Pond	[~u_,m]	•
☐ Fishing net	[NL,m]	•
Others (specify). NOT APPLICABLE		
9. Containment measures put in place;		
□ Booms	[Y] [N)	
□ Trench	[Y] [N]	
□ Dyke	[Y] [N] [Y] [N] [Y] [N]	
WOthers: NOT APPLICABLE	<u> </u>	
10. Any pictures or video coverage?	[N]	
11. Was there any disruption to the investigation?	[Y] [N]	
, 1	[-]	
f yes give brief description:		
No. T. X. Too		
NO I APPLICAT	SLE	
	131	
). TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WI	THIN THE AREA O	F SPREAD OF OIL
A. Structures / Properties		
S/N Type of Structures Description Size	Number	Comments
	ı	I

			·	
$M \cap M \cap M$		1 100	1	TALG MI
1401AC N	WILLIAM	4 VKE		111111
			,	



JOINT INVESTIGATION REPORT FOR INCIDENT NO:

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B. Crops/Economic Trees

S/N	Types of crops	Young	Medium	Matured	Quantity	Comments
i	TAME	~	V	NIL	40 × 120m	
2	CASSAUA		V	NIC	120mx 150m	
						7
						/

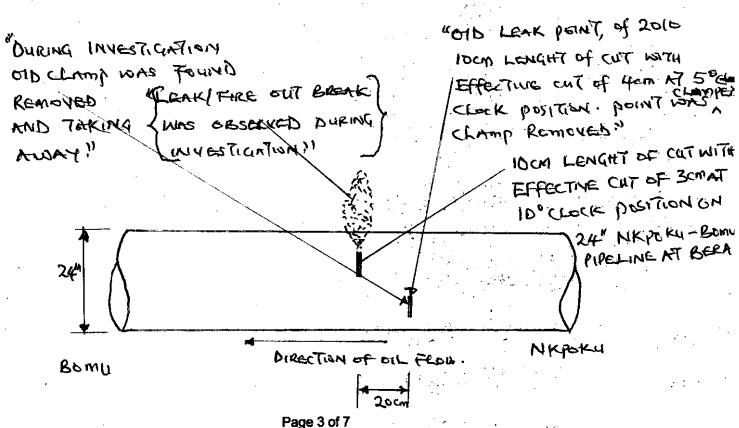
C. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	sh/Nets/Ponds Description Quantity/Size		Comments	
	MINALO	11-7100	701 25 1	APACT	
	MOINE	KI ILIM 8/8		111701	
			· i		

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

S/N	Others	Description	Quantity/Size	Comments	
	KINNIA 1	1, 14 21	1001 -	INDACT	
	14014	MILLION I	JKEA G	TAPPEL	
				<u></u>	

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



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

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

	(INIMAH INID -PELL)	
S/N	Northing METER	Easting METER
PT330	75885 03 M	535046.82 M
PT331	75872. 75 M	535043.72 M
PT 332	75881. 12 M	535026.33 M
Pr 333	75888 · 91 M	535034-50 M
-		7
Z		

No. 0786

bbl

7 I mj	pacted Area Details		
a.	Total calculated area of impact	0.02 Hq	
ů.	Impact within SPDC R.O.W	0.02 49	
	Impact outside R.O.W	HIL	
8 <u>Vo</u>	olume of oil recovered before completion	of JIV (V _{recI}):	
	Recove		barrels
9. <u>Cc</u> a.	omputation of the residual volume on site Computation of the volume of pooled free pha i. Area (m²) occupied by pool of	ase oil (on land or confined water bo	• /
	ii. Average Depth (m) of pool of iii.	free phase oil	ERST)

D.	Computation of volume of infiltrated oil in the soil (V-3).	
	200m²	
	i Area (m²) covered by the oil:	
	ii Average Depth (m) below ground surface of infiltration of oil:	0.01
	iii Soil type: CLAY	
	iv. $p_{\rm e}$ (effective porosity of the soil:	

v.

* *** *** *** Volume of sinfilinated oil *V*** *** 1. O1 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			
Slight Colour	0.00015	210	- -	-
Bright Colour	0.0003	110	(
Dull	0.001		0.1	
Dark	0.002	ADDI	ICARIE	
Black oil	0.1	/ / / /		
Emulsion (30% Oil)	1			
, ,	Percent Total	100%	Total Volume	NIL

Spill Factors from USCG FOG (2000 Edition)

G. INCIDENT INFORMATION:

iv.

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

			•		
21. Calculation of e		e of oil on open w	ater: V _{wa} :	NIL	barrels
i. Oil	type: Bonn	4 MEDIUM			•
ii. E-F	actor: 15	<u>°/5</u>			
iii.					
	y Val	ume of evaporate	d oils V ver	4.59	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%	_	
(bbls) + VrecJ (bb	ls)	ne VEst(bbls) = 31 BARG		*Vwat (bbls) + Vinf (bb	ils) +Vpool
*Calculation of the res *Conversion of m3 to *Emulsification factor	barrel is Total ve	olume VT (m3) x6	.29	pill estimation software il.	on site
This report was finvestigation repre-	esentative fro	ned on the m	/ cc /20	1 at incident site	by joint
Departmen	t of Petroleur	n Resources [D	PR]:[3/	,	
• National Oi	l Spill Detecti	ion and Respons	e Agency [NOS	SDRA]: 🗹	
• State Minis	try of Enviror	nment [SME]: [
• Nigeria Pol	ice Force [NP	F]: 🛛			
• Shell Petro	leum Develop	ment Company	[SPDC]: 🖪	•	
				Tick as	applicable