

No. nn989

	00000
A. GENERAL INFORMATION:	
1. Spill incident Number: ————————————————————————————————————	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2. 11600 01 2000000	15 AT UMUAGITALA
3. Name of nearest community UMUAGHALA	<b>-</b>
5. Name of nearest community	alford MISCT
4. State ABIA LGALGA	YEWA-NEST
DIP-1 COLE	ner/District 2119 PINESP
5. Type of Production facility/Installation 111 ELINCAsset own	ner/District LAE-7-4-V-L
B. INCIDENT INFORMATION:	
6 Details of incident	- A V
a. Date of incident 267H July E	2011
b. Date/Period of investigation, 287# JUNE	2811
c. Description of spill point environment	2-11
□ Firmed soil [Y]	•
□ Loose soil [火] [N]	
☐ Previously excavated area [¥ [N]	
Under water [Y]	•
□ Swampy [Y] [V]	
☐ Exposed pipe surface [Y] [V]	•
d. Description of leak point (tick as applicable);	
□ Drilled hole,	[Y] [W]
☐ Hack saw cut,	[Y] [ <b>V</b> ]
□ Explosive tear,	[Y] [ <b>N</b> ]
□ Complete Rupture	[Y] [NY]
☐ Inward dent,	[Y] [N)
☐ Well head tampering	[Y] [N)
☐ Failed Weld-on illegal hot tap valve,	
☐ Missing pipeline (flowline)	
☐ Crude oil theft (illegal bunkering) point,	
☐ Third party tampering with Clamp Bolt/Nut,	[Y] [N]
☐ Third party tampering with valve setting,	[Y] [N)
☐ Third party tampering with flange Nuts/bolts,	
Corrosion,	
Type: NOT KPPNC	
☐ Saver-pit over flow,	[Y] [NY
☐ Surge vessel overflow,	
Outward dent NOT APPLICAR	IN LINE
□ Others (specify).	<u></u> ~
e. Spill point coordinates (MINNA MID-BELT)	)
Northing: (METERS)	Easting: (METERS)
96988.42	530,550.30



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C. RISK/DAMAGE ASSESSMENT	No. <b>09</b> 89
7. Type of environment of spill site:	
Land (SEASONAL SWAMP)  Swamp water	
Type of environment of which oil has spread:	
Land (SEASONAL SWAMP)  Swamp water  B. Distance from the nearest sensitive habitat	
Government reserved and designated protected area Drinking water source Built up area Farmlands Fish Farm/Pond Fishing net Others (specify).  Containment measures put in place;	[ NU,m] [ NU,m] [ NU,m] [ NU,m] [ NU,m]
□ Booms □ Trench □ Dyke □ Others: NOT APPLICABLE	[Y] [N] [Y] [N]
10. Any pictures or video coverage?	[N]
11. Was there any disruption to the investigation?	[Y] [W]
If yes give brief description:	•
MOT APPLICABLE	
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WIT	THIN THE AREA OF SPREAD OF OIL

#### D

#### A. Structures / Properties

S/N	Type of St	uctures	Des	cription	Size		Numb	er j	Comments
<del>                                      </del>	0.15	1 1		A	_	<u> </u>	120	<del>().                                    </del>	-
+N	UNE-	<del>- WI7 H1</del>	$\mathcal{H}$	4th	<del>\</del> -	<del>- ()   -</del>	14 71	PACI	
	<b></b>		_				``		
<u> </u>									

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#### B. Crops/Economic Trees

S/N	Types of crops	Young	Medium Matured		Quantity	Comments
	VANE	MITHIN	1 AR	5A	OF IMPS	CT
+	VUIVE	701716	1115		- 11117	

#### C. Fish/Nets/Ponds

			Description		Quantity/Size	Comments	
<u> </u>				10	- <del></del>	M 0A 07	
JYU	NE	$\Delta \parallel$	HIM	HKR	r U+ /	MACL	

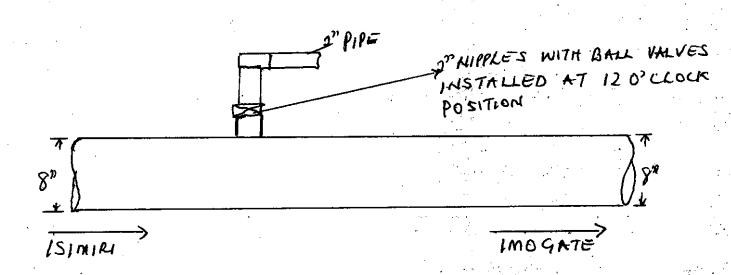
#### D. Others (Specify) i.e. Animal Traps

S/N	Others			Descripti	on	Quantity/Size	::	Comments
<u>Λ</u> 1:	200		<b>-</b> ,	1 1 2 1	DRH	MT	_	•••
141	JIVE	WI	11	IN	731001	,	$\Box I$	MACI

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

A SECTION OF 8" ISINIA DELIVERY LINE SHOWING ILLEGAL

BUNKERING POINT



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

E. Coo	ordinates (MINNA MID-BELT)	<u> </u>
S/N	Northing (METERS)	Easting (METERS)
389	96973.41	530672-17
390	96964.70	530666.28
391	96961.98	530641.14
392	96983.36	530546.15
393	96998.72	530492.13
394	97002.40	530499.07
395	96992 · 57	530546.17
		·

G. INCIDENT INFORMATION:	Nọ.	0989
17 Impacted Area Details a. Total calculated area of impact 0.19 Hg	· · · · · ·	
Impact within SPDC R.O.W	<del></del>	
Nolume of oil recovered before completion of JIV (V <sub>rec.</sub> ):  Recovered oil V <sub>rec.</sub> :	NuL	barrels
<ul> <li>19. Computation of the residual volume on site         <ul> <li>a. Computation of the volume of pooled free phase oil (on land or continuous in the computation of the volume of pool of free phase oil</li></ul></li></ul>		
iii.  Volume of pooled of free phase oil. V <sub>pool</sub> :  iv.	242.3	barrels
i Area (m²) covered by the oil:  ii Average Depth (m) below ground surface of ir  iii Soil type: SAND FINE - MED		0.005 barrels
yourne or untitrated oil of al.	15	t barrens

 $20. \,$  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	NO		
Slight Colour	0.00015			
Bright Colour	0.0003	L POL		
Dull	0.001	MILLIO	HOLC -	
Dark	0.002			
Black oil	0.1			
Emulsion (30% Oil)	1_			
	Percent Total	100%	Total Volume	NIL

Spill Factors from USCG FOG (2000 Edition)



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Tick as applicable

	Volume	of all on open wa	ater V <sub>wer</sub> :	NIL	barrels			
21. Calculation of e	vaporated volu	ıme:						
ii. E-Fa	actor: 15	%						
iii.								
	Vole	ine of evaporated	Icit Vve	45.5	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%					
VEst(bbls)= 303.  10. Net Total Estimate (bbls) + VrecJ (bbls)  VEst(bbls)= 303	9. Gross Total Estimated Spilled Volume $V_{Est}(bbls) = V_{vap}(bbls) + V_{wat}(bbls) + V_{inf}(bbls) + V_{pool}(bbls) + V_{recl}(bbls) = 45.5 + Net + 15.7 + 242.3 + Net = 303.5$ $V_{Est}(bbls) = 303.5  BARRELS$ 10. Net Total Estimated Spilled Volume VEst(bbls) = V vap (bbls) + 0.6*Vwat (bbls) + Vinf (bbls) + Vpool (bbls) + Vrecl (bbls) = 45.5 + Net + 15.7 + 242.3 + Net = 303.5 $V_{Est}(bbls) = 303.5  BARRELS$ *Calculation of the respective estimated volume is to done using the new spill estimation software on site							
*Emulsification factor	for spill on wate	r to consider is 60	% of volume of o	il.				
This report was filled and signed on the								
•		Resources [D]	-	•	:			
National Oil	Spill Detection	on and Respons	e Agency [NOS	SDRA]:				
State Minist	ry of Environ	ment [SME]:						
• Nigeria Poli	ce Force [NPI	F]: 🔯						
• Shell Petroleum Development Company [SPDC]:								