No.: 00987

A. GENERAL INFORMATION:	(77560		
. Spill incident Number:	677598		
2. Name of Location CAWTHORNE Ct	TANNEL II 3	325 FLOWLIN	ie.
3. Name of nearest community	1BIAMA - CA	WITHORNE CHAN	nel II.
1. StateRIVERS	LGA	DEGEMA.	*************
5. Type of Production facility/Installation TLOW	LINE Asset owner /Dis	strict NESI	
☐ Saver-pit over flow,☐ Surge vessel overflow,	[Y] [N] [Y] [Y] [Y] [Y] [Y] [Y] [Y] [Y] [Y] [Y	AFTER INVESTI INVES	JOINT GATION OF LCIDENT, WAS FOUND OF DUE TO PARTY OFFERENCE.
Northing:	Ea	asting:	
60892.7cm	503	5529M	

. RISK/D	AMAGE ASSESSMENT		No. 0 987
7.	Type of environment of spill site:		
_ _ _			
	Type of environment of which oil has spread:		
	Land Swamp water 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;	[[[[,m],m],m],m],m]
0	Booms Trench Dyke	[Y] [Y] [Y]	[N] [N] [N]
	Others: NOT TPULCEBLE		
10. A	ny pictures or video coverage?	[Y]	[N]
11. V	Vas there any disruption to the investigation?	[Y]	[N /
yes give b	rief description:		

Ify

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

A. Structures / Properties

S/N	Type of Structures		Description	Size	Number	Comments
	MAXIO	1.1	THAI	1 20	I OF I	1000
	LANGE	Δ	FILLIA	AKC	701	dract
\vdash				<u> </u>		
\Box				<u> </u>		



HE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 611-516

No. 0987

B. Crops/Economic Trees

S/N	Types of crops	Young	Medium	Matured	Quantity	Comments	
	MAXIO	11.7.			- 16/10	7	
	140111	WHIT	4 AR	CA O	├──{{X { }	\C -	
					•		

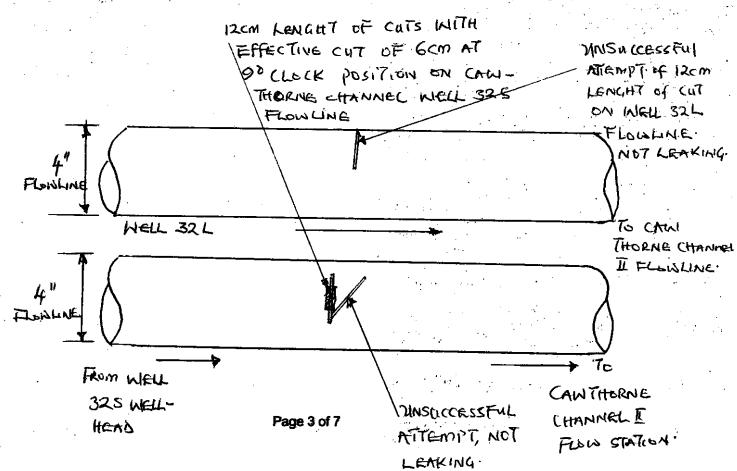
C. Fish/Nets/Ponds

S/N Fish/Nets/Ponds		Description	Quantity/Size	Comments	
	MAREL	LITHINI KO	ON SEI	VID4.07	
	1011 M	ME PHILLIP	CA OI	MACI	
L					

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

S/N	Others	Description	Quantity/Size	Comments	
	<u> </u>	(/		1:40	
	HOVE	HI (thin A	LCA OF	HMIMCT	

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:

00987 No

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

S/N	Northing MATEL	Easting me lex
PT I	60900 · 09 M	505513.64m
PT 2	60905.36 M	505532.86 M
PT 3	60855 · 99 M	505549·07 m
PT4	60851 - 09 M	505529.47 M.
!		
<u> </u>	· · · · · · · · · · · · · · · · · · ·	
ļ		
<u> </u>		
		<u> </u>
		· · · · · · · · · · · · · · · · · · ·
12		

					NO.	^	
G. I	NCIDENT INFORM	MATION:			. U:	937	
17	Impacted Area Detail	ls					
	a. Total calculated	area of impact,	··	0.1036 H	9	<u> </u>	
٠			r.o.w				
				· · · · · · · · · · · · · · · · · · ·	NIL		
18	Volume of oil reco		<u> </u>		· · · · ·		
			Recovered oi		HIL	barrels	
19.		the volume of p	lume on site coled free phase oil ad by pool of free p		4	0112	
	ii. A	verage Depth (1	n) of pool of free p	hase oil	<u></u>	005 m	
	iii.						
	:	Volume of poo	oled of free phase of	I. V _{pool} :	1123	barrels	
	iv.			· .	 	J	
20.	b. Computation of i	Area (m²) con Average Dep Soil type: p _e (effective	·	nd surface of infiltr	1.006		
		Thickness (mm)	Percentage coverage	Volume (m3)	6	00 T T = 5	Des .
	Barely Visible	0.00004	35.5.2.5		•	PACT TO O	
	Silvery	80000.0			NATER,	Boomed W	<i>serk</i>
	Slight Colour	0.00015	\\\\				,)
	Bright Colour	0 0003 I	1/1/0/1/		INAG	EFF CO TWE.	,

Spill Factors from USCG FOG (2000 Edition)

0.001

0.002

Percent Total

0.1

Dull

Dark

Black oil

Emulsion (30% Oil)

100%

Total Volume

NIL

bbl

No. 0987

	Volume	of oil on open wa	ter V _{wa} :	NIL	barrels			
21. Calculation of e	vaporated volu	ime:		······································				
i. Oil	type: BENN	Y LIGHT						
ii. E-Fa	actor: 25	<u>7.</u>	·					
iii.								
	Vok	ime of evaporated	offs Vine:	0.74	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				
	>7 days	40%	25%]				
10. Net Total Estimate (bbls) + VrecJ (bb VEst(bbls)= 2.9 *Calculation of the res *Conversion of m3 to	*Calculation of the respective estimated volume is to done using the new spill estimation software on site *Conversion of m3 to barrel is Total volume VT (m3) x6.29							
*Emulsification factor for spill on water to consider is 60% of volume of oil. This report was filled and signed on the 29 / 06 /20 11 at incident site by joint investigation representative from • Host Community								
• Departmen	t of Petroleun	n Resources [D	PR]:□					
National Oi	• National Oil Spill Detection and Response Agency [NOSDRA]:							
State Minis	try of Environ	ment [SME]: E	1 /					
Nigeria Pol	ice Force [NP	F]: 🗆	_					
Shell Petro	leum Develop	ment Company	[SPDC]:					
				Tic	k as applicable			