

	No.	00978
A. GENERAL INFORMATION:	·	
67317	'n	<u>.</u>
1. Spin incident Number:	_	
2. Name of Location MO RIVER WELL 55		
3. Name of nearest community ————————————————————————————————————	<b>11</b>	
4. StateLGA		
5. Type of Production facility/Installation FLOWLINEAsset owner	DistrictNEL	<b></b>
6. Details of incident  a. Date of incident b. Date/Period of investigation,   The June,   20 c. Description of spill point environment    Firmed soil   [Y]   [N]     Loose soil   [Y]   [N]     Previously excavated area   [Y]   [N]     Under water   [Y]   [N]     Swampy   [Y]   [N]     Exposed pipe surface   [Y]   [N]     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 flange Nuts/bolts,   Corrosion,   Type: NOT APPLICABIE     Saver-pit over flow,   Outward dent   Others (specify).   NOT APPLICABIE	[Y] [N] [Y] [Y] [N] [Y] [Y	AFTER JOINT INVESTIGATION OF THE INCIDENT, SALL WAS FOUND TO BE DUE TO THIRD PARTY
e. Spill point coordinates (MINNA MID-BELT	·)	INTERFERENCE
Northing: (METRES)	Easting: (METR	
109572.00	524529.1	3

109573.88

C. RISK/DAMAGE ASSESSMENT	No. <b>097</b> 8
7. Type of environment of spill site:	
Land Swamp water	
Type of environment of which oil has spread	<b>:</b>
Land Swamp water  Distance from the nearest sensitive habitat  Government reserved and designated protected are	ea [ ,m]
☐ Drinking water source ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net ☐ Others (specify). NOT APPLICABLE  9. Containment measures put in place;	[ ,m] [ ,m] [ ,m] [ ,m]
□ Booms □ Trench □ Dyke	[Y] [N] [Y] [N] [Y] [N]
Others: NOT APPLICABLE	<u> </u>
10. Any pictures or video coverage?	[N] \\[ N]
11. Was there any disruption to the investigation?	[Y] [N]
If yes give brief description:	PLICABLE
D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND	WITHIN THE AREA OF SPREAD OF OIL
A. Structures / Properties	

S/N	Type of	Structure		Description	Size		Number		Com	ments
* 1				<del></del>						
				1111	1. 1.	7 A	<u> </u>		<u>۷ () ۷</u>	
17	017		MAI	141			OF.	117	TIF	AC.
		··· <u>·</u>					<u> </u>			<u> </u>

## THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED JOINT INVESTIGATION REPORT FOR INCIDENT NO: 673170

No. **097**8

### B. Crops/Economic Trees

S/N	Types of crops	Young	Medium	Matured	Quantity	Comments
X	ONF	WITHN	A	RFA (	DF IM	PACT

### C. Fish/Nets/Ponds

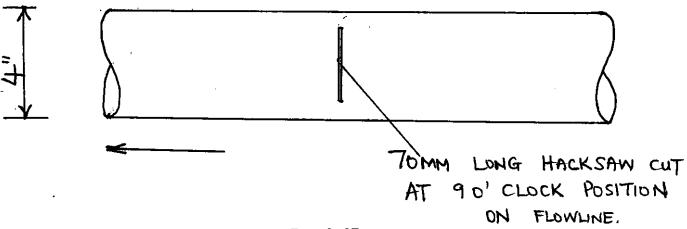
S/N Fish/Nets/Po	nds	Descrip	otion	Quantity/Size	Comments
	\	<del></del>	Λ Ο-	A 0==	N 12 : ==
AMM -	-W		AKF	$A \cup A$	HMPAC!
<del>                                      </del>	** 1			, =	

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

S/N Others		Descriptio	n Quai	itity/Size	Comments
NONE	W	THIN	AREA	OF	IMPACT.

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

SECTION OF IMO RIVER WELL 55 S FLOWLINE AT IGRIUKWU SHOWING LOCATION OF HACKSAW CUT



Page 3 of 7

## THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED JOINT INVESTIGATION REPORT FOR INCIDENT NO: 673170

No 00978

F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION E. Coordinates (IMPACTED AREA BOUNDARY COORDINATES - MINNIA MIDBELT)

	THING TEP MICH BOOKSING	
S/N	Northing (METRES)	Easting (METRES)
1.	109567-77	524516.80
2.	109570-84	524516.80
3.	109576.94	524535.30
4.	109573.87	524535.29
	, - 1	
		·
		-
Z		

No	097
	13.74

bbl

	YN		TIME	TATES	ODL	ATTIONI.	
3	ш	L		TIAL.	UKN	ATION:	

0057 Ho	
·0057Ha	
NIL	barrels
2)	
D:019	
2.51	barrels
36	
0.0	n2
of infiltration of oil:	
201	
\$.To	
0.05	barrels
0.02	
	confined water body).  2)  2.51  2.51  of infiltration of oil:

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

	(mm)	coverage	Volume (m3)	
Barely Visible	0.00004			
Silvery	0.00008	k s	<u></u>	
Slight Colour	0.00015		<b>&gt;</b>	
Bright Colour	0.0003		1	
Dull	0.001	<b>A</b> -		
Dark	0.002	APPI	ICABLE	
Black oil	0.1			
Emulsion (30% Oil)	1			
,	Percent Total	100%	Total Volume	Nı

Spill Factors from USCG FOG (2000 Edition)

# THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED JOINT INVESTIGATION REPORT FOR INCIDENT NO: 673170

0978

	No. Ujiu				
		e of oil on apart wa	(Orași ente	NIL	barrels
21. Calculation of e	vaporated volu	ime:		•	
i. Oil	type: BON	MA WE	DIUM		
ii. E-F	actor: 5				
iii.					
	es established			0.45	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%	J	
10. Net Total Estimat (bbls) + VrecJ (bl			V vap (bbls) + 0.64	Ywat (bbls) + Vinf (	bbls) +Vpool 3.01
		RRELS	<del></del>		
*Calculation of the res *Conversion of m3 to *Emulsification factor	barrel is Total v	olume VT (m3) xt	5.29		re on site
This report was finvestigation repr	esentative fro		7_/_b6/20_	at incident s	ite by joint
	- •	m Resources [D	PR]:□		
1		•	se Agency [NOS	DRA]: 🔽	
State Minis	stry of Environ	nment [SME]:	a		
ı	lice Force [NI	-			
• Shell Petro	oleum Develop	oment Company	[SPDC]: 🗖		
1				Tick	as applicable