	No. 00991
A. GENERAL INFORMATION:	00001
678020	
. Spin incident Number:	
Name of Location OBIGBO WELL 20T FL	LOWLINE
Name of nearest community UMUEBULE	
State RIVERS LGA	<u>0B1GB0</u>
, State	NEL 1
5. Type of Production facility/Installation FLOWLINEAsset owner	/District
B. INCIDENT INFORMATION: 6. Details of incident a. Date of incident b. Date/Period of investigation, 28 TH JUNE, 2 c. Description of spill point environment Firmed soil [Y] [N] Loose soil [Y] [N] Previously excavated area [Y] [N] Swampy [Y] [N] Exposed pipe surface [Y] [N] Drilled hole, [Y] [N] Hack saw cut, [X] [X] Explosive tear, [X] [X] Drilled hole, [X] [X] Hack saw cut, [X] [X] Explosive tear, [X] [X] Complete Rupture [X] [X] Inward dent, [X] [X] Well head tampering [X] [X] Failed Weld-on illegal hot tap valve, [X] Missing pipeline (flowline) [X] Crude oil theft (illegal bunkering) point, [X] Third party tampering with Clamp Bolt/Nut, [X] Third party tampering with flange Nuts/bolts, [X] Corrosion, [X] [X] Saver-pit over flow, [X] Surge vessel overflow, [X] [X]	AFTER JOINT INVESTIGATION [Y] [W] OF THE INCIDENT, [Y] [W] SPILL WAS [Y] [W] FOUND TO BE [Y] [W] DUE TO (CORROSION [Y] [W] OPERATIONAL [Y] [W] FAILURE [Y] [W] [Y] [W]
Outward dent Others (specify).	Lead terral

e. Spill point coordinates (NAVS BELT)

Northing: (M)

98118.76

518627-55

C. RISK/DAMAGE ASSESSMENT

No. 0991

7.	Type of environment of spill site:		
V	Land		
	Swamp		
	water		
	Type of environment of which oil has spread:		
1 27	Land		
	Swamp		
	water		
8.	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;	[ねに ,m] [おに ,m] [Nに ,m] [Nに ,m] [Nに ,m] [Nに ,m]	
_	Booms	[Y] [W]	
	Trench	[Y] [W]	
	Dyke		
п	Others:		
_		_	
10. A	ny pictures or video coverage?	[Y] [N]	
	- -	•	
11. V	Was there any disruption to the investigation?	[Y] [W]	
If yes give b	rief description:		
	N 1 2 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
	APPLI(ABLE	
	·		

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

A. Structures / Properties

S/N	Type of	f Structures	Description	Size	Number	Comments
	/ L			(1/2) A	NE In	000
11/1	$\bigcirc \mathcal{M}$			AKEA	 UF [/V	
			•			



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B. Crops/Economic Trees

S/N	Types of crops	Young	Medium	Matured	Quantity	Comments
N	DAIF IN	HITHIAL	APEA	OF	IMPA	<u> </u>
17	DINC V	<u>M111110</u>	- (RCC)	. 01		-

C. Fish/Nets/Ponds

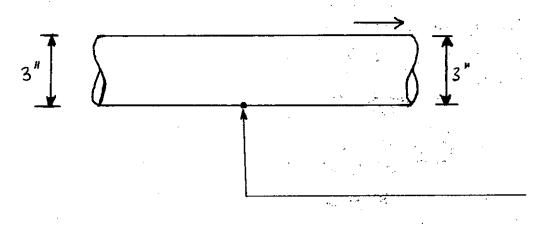
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
A 1 m	1 1 1 1	101 10-1		0467
HVU	NE WITH	IN AKLA	0 1 10	MACH
		_		

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

S/N	Others	Description	Quantity/Size	Comments
NO	NE WIT	HIN AREA	OF IM	PACT
<u> </u>				

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

SECTION OF 3" OBIGBO WELL ZOT FLOWLINE SHOWING



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CORROSION AT 60 CLOCK POSITION F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION E. Coordinates (MM なるし)

	Cruis 15 - Cr	
S/N	Northing (M)	Easting (M)
- {	98121.83	518630.64
2	98121-82	518633.72
3	98118.76	518627 · 55
4	98121.84	518624 . 48
_		
-		
		·

G. I	NCIDE	NT INFO	ORM	ATION:						NO.	. 0	991	
	a. To	ImpImpe of oil r	ated a pact w pact o ecove	rea of imposithin SPD utside R.C	C R.O.W D.W re comp		f JIV (0 00 0 00 NIL)14	Ha Ha	b	arrels
19.			Area	residual e volume of a (m²) occu erage Dept	of pooled apied by h (m) of	free phase pool of the pool of	free pha	ase oil _ ase oil =	NO	d water	body). APP	<u>U</u>	ABLE arrels
	b. С	omputatio	i ii iii iv. v.	volume of Area (m^2) Average Soil type: p_e (effect	covered Depth (m	by the o	oil: ground ne soil:	surfac	8%	ation of	oil:	14 0:	- m ² Ol m barrels
20.	Comp	utation o	of volu	ıme of oil	on opei	n water	based	on sta	ındard co	oloratio	n.		1

	(mm)	coverage	Volume (m3)	
Barely Visible	0.00004			
Silvery	0.00008			
Slight Colour	0.00015	NAT		
Bright Colour	0.0003	1/1/1		
Dull	0.001	Λοοι	ICACIT	
Dark	0.002	APPL	TOADLE	
Black oil	0.1	-		
Emulsion (30% Oil)	1			
(0070 217)	Percent Total	100%	Total Volume	NI

Spill Factors from USCG FOG (2000 Edition)

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Tick as applicable

3	Sales Sales		in following to the		Ι	
21. Calculation of e		e of oil on open w ume:	ater v _{wat}	NIL	barrels	
	_					
	- -	NY MED	IUM			
ii. E-Fa	actor: 15	10				
iii.						
	. Vot	ime of evaporate	ioli.Vve:	0.23	barrels	
				- <u> </u>		
Oil Type		Bonny Light	Bonny Medium			
		E-Factor	E-Factor	-		
Period Since Oil Spill	<1 day	10%	5%	1		
	1-7 days	25%	15%	1		
<u> </u>	>7 days	40%	25%]		
(bbls) + VrecJ (bbl VEst(bbls)= *Calculation of the resp	d Spilled Volun ls)	ne VEst(bbls) = V	V vap (bbls) + 0.6	*Vwat (bbls) + Vinf (bbls) pill estimation software on		
*Conversion of m3 to b *Emulsification factor t	for spill on wate	er to consider is 60	% of volume of o			
This report was filled and signed on the <u>28 / 06 /20 N</u> at incident site by joint investigation representative from • Host Community □						
• Department	of Petroleun	n Resources [D]	PR]:⊠			
• National Oil	Spill Detecti	on and Respons	e Agency [NOS	DRA]: 🔽		
State Minist	ry of Environ	ment [SME]: 🔽	1			
• Nigeria Poli	ce Force [NP]	F]: 🗆				

• Shell Petroleum Development Company [SPDC]: