JOINT INVESTIGATION REPO	RT FOR INCIDENT NO	- 0133 /8 /0 62
(Note: As practicable as possible the JIT rep	port is to be signed in the j	field by all the participating parties)
A. GENERAL INFORMATION:	·	
1. Spill incident Number: 7870	65 2.Type o	of incident* OIL SPILL
3. Name of Location 24" NKPO	cy - Bomy	PIPELINE
4. Name of nearest community EGBA	LLOR_5. State: RIV	IERS 6. LGA CLEME
7. Type of Production facility/Installation	PIPELINE 8. A	sset owner/District NPE PH1
B. INCIDENT INFORMATION:		
9. Details of incident  a. Date of incident:  b. Date/Period of investigation	-H, 2012.	<del>_</del>
c. Description of spill point environm		+
Firmed soil	Loose soil	Previously excavated area
☐ Under water	□ Swampy	□ Exposed pipe surface
☐ Well Platform (on Water)  d. Description of leak point (tick as an	oplicable);	□ Rig
☐ Drilled hole	Hack saw cut	☐ Explosive tear,
☐ Complete Rupture	☐ Inward dent,	☐ Well head tampering
☐ Failed Weld-on illegal hot tap v	alve,	☐ Missing Pipeline/Flowline)
☐ Crude oil theft (illegal bunkering	g) point,	☐ Third party tampering with Clamp
☐ Third party tampering with valv	e setting,	☐ Third party tampering with flange,
☐ External Corrosion		☐ Internal Corrosion
☐ Saver-pit over flow,	☐ Surge vessel overflow	Outward dent
☐ Flare System/Bund wall Failure	☐ Valve Failure	□ com unit failure
□ Cold vent	☐ Relief valve failure	☐ Others (specify)
e. Incident due to:		
Third party interference	☐ Operational	☐ Others (specify
f. Spill point coordinates  Measuring unit merce Mi		
Northing:		Easting:
87467.2		524054.16

Page 1 of 9

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED
JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0133 | 7870 (5) JOINT INVESTIGATION REPORT FOR INCIDENT NO:\_\_\_

C.	RISK ASSESSMEN	NT .				
	10. Type o	of environment:				
	` <b>⊠</b> Land	□ Swamp	□ Water	☐ Seasonal sv	vamp	
	i. Type of	environment to	which oil has sp	read:		
	Land	□ Swamp	☐ Water	□ River (iden	tify)	_
	ii. Weathe	r condition				
	☐ Raining 11. Distance from th	'⊠Sunny e nearest sensiti	ve habitat			
	☐ Government ☐ Drinking wa ☐ Built up area ☐ Farmlands ☐ Fish Farm/P ☐ Fishing net ☐ Others (spec	ater source  ond  ify).	esignated protecte	ed area [ [ [ [ [ [	(m, [m, [m], [m], [m], [m], [m], [m], [m]	T DLUCABLE ·
	□ Booms	Trench	□ Dyke			
	□ Others:	***				
	13. Any pictures or v	video coverage?		[ YY	[N]	
	14. Was there any di	sruption to the in	nvestigation?	[Y]	[NY	
If y	es give brief descriptio	on:				
	1 1		X DI	1	1 6 1	^
		O	7	THICI	KEL	E
_						

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

### 15. Structures / Properties

S/N	Type of Structures	Description	Size	Number	Comments
	NONE	KIT	HN	AREA	OF IMPACT

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 01331 7876 (5)

#### 16. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	MOME	KITHIN	ARE	A OF	MPA	
					· · · ·	

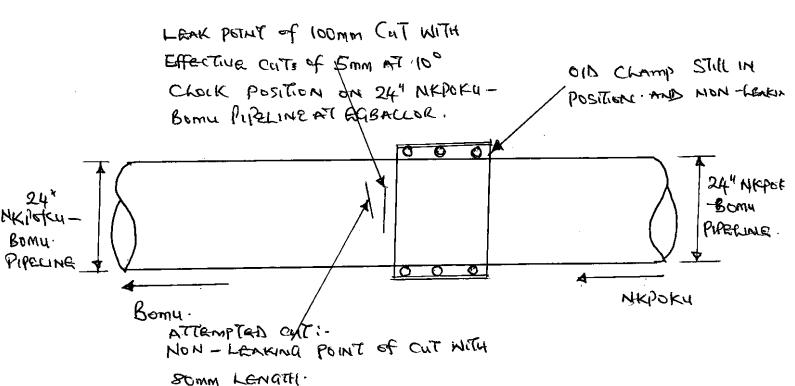
#### 17. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
The state of the s	ONE WI	THEX	TREA OF	MPACT

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

S/N	Others		Description	Q	uantity/Size	Comments
	ONE	N	1 (HIN	ARR	4 07	MPAC (
	<u></u>		·			<u>.i.</u>

E. GRAPHIC DESCRIPTION OF LEAK POINT (Overview sketch of the site should be added as an appendix 1)



## 

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

<ol><li>19. Impacted area boundary Coordi</li></ol>	nates (If more than 12 points, Attach as an appendix 2)
MINNA	MIDARIELT

		<u> </u>
S/N	Northing (METER)	Easting (MGTER)
WP 433	87473 35	524054.18
wr 437	87470.27	524057.26
W1 435	87467.21	524054.17
WP 434		524051.08
WP 432	87467.21	524051.09
		I

#### G. INCIDENT INFORMATION:

20. Impacted Area Details

• To	tal calculated area of impact	0.00	>24-tta.	
• Im	pact within SPDC R.O.W	Yes		
• Im	pact outside R.O.W	10		
21. Volume of	oil recovered before comple	etion of JIV (V <sub>rec.</sub> ):		
	Recove	ered oil V <sub>ree,I</sub>	NIL.	barrels
20. Computati	on of the residual volume on	site	···	
a. Computation	on of volume of pool of free pha Area (m²) occupied by pool o	se oil (on land or confine f free phase oil	d water body).	
ii.	Average Depth (m) of pool o	f free phase oil	3 1	
iii.	Emulsification factor:	→ PPI	1CABLE.	<u>,                                    </u>
	iv. Volume of pool of t	ree phase oil. V <sub>pool</sub> :	NIL	barrels

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0133 787065

b.	Computation	of volume	of infiltrated	oil	in the	soil	$(V_{in})$	<sub>1</sub> .).
----	-------------	-----------	----------------	-----	--------	------	------------	------------------

i. Area (m²) covered by the oil:

ii. Area of the pool of free phase oil in touch with soil: NL

iii. Average Depth (m) below ground surface of infiltration of oil: 0.005 m

iv. Soil type: (LATERITE SAND).

v. Pe (effective porosity of the soil). 20%

iv. Volume of infiltrated oil. V<sub>inf</sub> 8.151 barrels

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

i. Total area of oil on open water: NOT APLICABLE.

ii. Table of average depth of oil on water based on coloration \*

	Thickness (mm)	Percentage coverage	Volume (m3)	
Barely Visible	0.00004			
Silvery	0.00008		•	
Slight Color	0.00015	10		
Bright Color	0.0003	1907		
Dull	0.001	• •	0.1.0	
Dark	0.002	A-P)(	LICARIT	
Blackoil	0.1	1.11	11111	
Emulsion (30% Oil)	1			
	Percent Total	100%	Total Volume MIL	bbl

iii. Volume of oil on open water. Vwat: NIL barrels

22. Calculation of evaporated volume:

i. Oil type: BONNY MEDIUM

ii. E-Factor: 25 %

iii. Volume of evaporated oil. V evap:	0.05	barrels

Evapor	ration Factors (E-Fa	actor) for SPDC Crue	de oil
Oil Type	Days on site	Bonny Light	Bonny Medium
Period Since Oil Spill	< 1 day	10%	5%
	1-7 days	25%	15%
	> 7 days	40%	25%

23. Gross Total Estimated Spilled Volume  $V_{Est}(bbls) = V_{evap}(bbls) + V_{wat}(bbls) + V_{inf}(bbls) + V_{pool}(bbls) + V_{recJ}(bbls) +$ 

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0133 787065

$\underline{\mathbf{V}_{Est}(bbls)}=$	0.05 + MIL + 0.151+ MIL +MI		0.206	- Snerel
24. <u>Net</u>	$\underline{\text{Total Estimated Spilled Volume V}_{\text{Est}}(\text{bbls})} = V_{\text{evap}}(\text{bbls})$	) + 0.6*1	$V_{\rm wat}$ (bbls) $+ V_{\rm in}$	<sub>rf</sub> (bbls) +
$V_{pool}$	(bbls) + V <sub>recJ</sub> (bbls)			
VEst(bbls)=	0.20 BARRALS.		-	

#### 25. GENERAL STATUS OF THE SITE

A.	Joint investigation of the incident site found that there is no residual impact. After the initial response and therefore recommend that the site be closed out
В.	Investigation of the incident site showed that there is residual impact on site requiring further works

#### 26 Signatories

This report was filled and signed on the investigation representatives from  $\frac{i0/03/2012}{}$  at incident site by joint investigation representatives from

- Host Community
- Department of Petroleum Resources [DPR]: □
- National Oil Spill Detection and Response Agency [NOSDRA]: □✓
- State Ministry of Environment [SME]: □
- Nigeria Police Force [NPF]:
- Shell Petroleum Development Company [SPDC]:

Tick as applicable

<sup>\*</sup>Calculation of the respective estimated volume is to be done using the new spill estimation software on site

<sup>\*</sup>Conversion of m3 to barrels is Total volume VT (m3) x 6.29

<sup>\*</sup>Emulsification factor for spill on water to consider is 60% of volume of oil.

# THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERA LIMITED OINT INVESTIGATION REPORT FOR INCIDENT NO: 787065

JOINT INVESTIGATION REPORT FOR INCIDENT NO:\_

20. Appendix 1: Overview sketch of the site

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0133 787065

## 21. Appendix 2:TABLE SHOWING ADDITIONAL COORDINATES TAKEN DURING JIV FOR AREA CALCULATION

S/N	Northing	Easting
•		
$-\!\!/$		



## DEPARTMENT OF PETROLEUM RESOURCES

## FIELD JOINT INVESTIGATION REPORT

(Note: As practicable as possible the field report is to be signed in the field by all the participating parties) 1. Company..... 2. Incident Serial Number.. 3. Name of Location/Facility 4. Type of Incident: (Indicate where appropriate and X where not applicable) Crude Oil Spill Product Spill (Specify) Drilling Mud/Chemicals Spill Fire Others (specify) 5. Details of Incident Date of Incident: D8 03 2812 i. ii. Date Reported to the DPR: Date/Period of First Investigation 10 03 2012 iii. Date/Period of Second/Subsequent Investigation: iv. Cause of Incident (Indicate where appropriate and X where not applicable) v. Corrosion Equipment Failure Human Error (Production/Maintenance) Third Party Interference HACK CAW CVI Mystery Spill Others (Specify) Additional description of cause of incident (if any): 6. Coordinates of Spill Point/Location(s): 87467 - 21 Nm

7. Brief Description of Circumstances Around Spill Point(s) (Please indicate containment measures put in place, point of breach along pipeline and any necessary details observed at site. Attach additional sheets if necessary)

a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	a) Within company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land Seasonal Swamp Near shore Swamp Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	a) Within company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	a) Within company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	a) Within company's facilities/ROW b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and where not applicable)  Land Seasonal Swamp Near shore Near shore Offshore	Inland waters  Near shore  Offshore	The function where appropriate and V.	Delineation of Impacted Area: (Indicate where appropriate and X where not applicable)		a) Within comp		ppropri	··· ··· ·· · · · · · · · · · · · · · ·	Maah(a)	
b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land Seasonal Swamp Near shore Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Inland waters  Near shore  Near shore  Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where secessary)  Table of Key Coordinates of Mapped Area	b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Inland waters  Near shore  Near shore  Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and where not applicable)  Land Seasonal Swamp Near shore Swamp Offshore	Inland waters  Near shore  Offshore	a) Within company's facility of posts	- whi whi the thin A mare and	,		oany's facilities/ROW			nicuose)	
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Land     Seasonal Swamp     Near shore     Swamp     Offshore  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	Land     Seasonal Swamp     Near shore     Swamp     Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where lecessary)  Table of Key Coordinates of Mapped Area	Land     Seasonal Swamp     Near shore     Swamp     Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where secessary)  Table of Key Coordinates of Mapped Area	Land     Seasonal Swamp     Near shore     Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where necessary)  Table of Key Coordinates of Mapped Area	<ul> <li>Land</li> <li>Seasonal Swamp</li> <li>Swamp</li> <li>Coastland</li> <li>Inland waters</li> <li>Near shore</li> <li>Offshore</li> </ul>	Inland waters  Near shore  Offshore		a) Within company's facilities/ROW	,	Description of Environments	onment Around Spill P	oint/Locat		here appropriate and X	
Table of Key Coordinates of Mapped Area	Table of Key Coordinates of Mapped Area	Table of Key Coordinates of Mapped Area	Table of Key Coordinates of Mapped Area	Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached necessary)	tailed sketches and maps can be attached where	b) Outside company's facilities/ROW	a) Within company's facilities/ROW  b) Outside company's facilities/ROW		<ul><li>Land</li><li>Seasonal Swamp</li><li>Swamp</li></ul>			<ul><li>Inland waters</li><li>Near shore</li></ul>		
/N Footings N. (1)	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X here not applicable)  Land Seasonal Swamp Near shore Offshore	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  • Land • Seasonal Swamp • Near shore • Offshore	J	lease provide a grap ecessary)	hic sketch of spill site/l	leak point	(Detailed sketches and 1	naps can be attached where	
N Factings N	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Near shore  Offshore							
N Factings N V	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Near shore  Offshore			•				
N Factings N V	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Near shore  Offshore							
N Factings N W	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Near shore  Offshore			•				
N Factings N. W.	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore					•		
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N Factings N. W.	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore							
N Factings N. W.	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore							
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N Factions N	Factions	V Footings D. V.	N Factings N. W.			b) Outside company's facilities/ROW    Coastland	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore							
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				N Footing		b) Outside company's facilities/ROW    Continued   Con	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  • Land  • Land  • Inland waters  • Near shore  • Near shore  • Offshore  • Offshore		Table of Key Coordi	inates of Mapped Area			•	
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				S/N Eastings Northings  S/N Eastings Northings	Eastings Northings	b) Outside company's facilities/ROW    Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X here not applicable)   Land	a) Within company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where secessary)  Table of Key Coordinates of Mapped Area			<u></u>	·	Eastings	Northings	
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				Northings S/N Eastings Northings	Eastings Northings	b) Outside company's facilities/ROW    Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X here not applicable)   Land	a) Within company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate & where appropriate and X where not applicable)  Land  Seasonal Swamp  Near shore  Offshore  Coastland  Please provide a graphic sketch of spill site/leak point (Detailed sketches and maps can be attached where secessary)  Table of Key Coordinates of Mapped Area			<u></u>	·	Eastings	Northings	
S/N Eastings Northings S/N Eastings Northings	Eastings Northings S/N Eastings Northings	Eastings Northings S/N Eastings Northings	N Eastings Northings S/N Eastings Northings	Table of Key Coordinates of Mapped Area		b) Outside company's facilities/ROW    Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X	a) Within company's facilities/ROW  b) Outside company's facilities/ROW  Description of Environment Around Spill Point/Location(s): (Indicate where appropriate and X where not applicable)  • Land • Inland waters • Seasonal Swamp • Near shore • Offshore							
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mak	e brief comments	on quantities unaccounted for. Attach and endorse additional sheets if necessary)
13. Qua	antity Recove	red (As at time of the investigation):
14. Any	y Photograph	or Video Recording? (Provide details):
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15. Add	litional Comp	tents/Remarks, if any:
S	the Sp	ments/Remarks, if any:  Il occurred al a result of Salatage.  Le attracted charle be effectively  up to prenent a re-occurrence.
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16. Part	ticipants	