JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0003 69 5228 (C)

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties)

A. GENERAL INFORMATION:		
1. Spill incident Number: 69522	2.Type o	of incident*_SPILL
1. Spill incident Number: 69522 3. Name of Location 14" OKORD	IA - RUMUEKP	E POELINE
4. Name of nearest community _/KARA	MA 5. State: BA	YELSA 6. LGA YEMAGOA
7. Type of Production facility/Installation_	JU PIPELINE 8. A	sset owner/District NESP/LAND2
B. INCIDENT INFORMATION:		
D. Details of incident a. Date of incident: 2 MAUG	ust 2011	
b. Date/Period of investigation: 127	TH AUGUST 20	<u>11 </u>
c. Description of spill point environment	ent	
☐ Firmed soil	Loose soil	☐Previously excavated area
☐ Under water	□ Swampy	☐ Exposed pipe surface
□ Well Platform (on Water)		□ Rig
d. Description of leak point (tick as ap	- ··	
□ Drilled hole	☐ Hack saw cut	☐ Explosive tear,
	☐ Inward dent,	☐ Well head tampering
☐ Failed Weld-on illegal hot tap va		☐ Missing Pipeline/Flowline)
☐ Crude oil theft (illegal bunkering		☐ Third party tampering with Clamp
☐ Third party tampering with valve	e setting,	☐ Third party tampering with flange,
☐ External Corrosion		☐ Internal Corrosion
	☐ 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 (m) m	110-BELT	
Northing:		asting:
126485.77		444811.58
·		
·		
ł		

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^{*}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: 0003695228(C)

C. RISK ASSE	SSMEN	lT .					
10.	Type o	of environment:					
□ Lan	ıd	□ Swamp	Water	□ Seas	sonal swa	amp	
i.	i. Type of environment to which oil has s		which oil has sp	read:			·
□ Lan	d	□ Swamp	Water	□ Rive	er (identi	ify)	_
. ii.	Weather	condition					
☐ Raining ☐ Sunny 11. Distance from the nearest sensitive habitat							
☐ Government reserved and designated protect ☐ Drinking water source ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net ☐ Others (specify). 12. Containment measures put in place;			•	ed area	[4]4		
□ Boo	oms	□ Trench	□ Dyke				
□ Oth	ers:_ // /	ATURAL	DEPRE.	2810N	<u> </u>	•	
13. Any pic	tures or v	video coverage?				[N]	
14. Was there any disruption to the investigation?				[Y]			
If yes give brief o	descriptio	on:					
No	<u> </u>	APP	LICA	BLE	· 		

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

15. Structures / Properties

S/N	Type of Structures	Description	Description Size		Comments	Comments	
	NONE	WITHIN	AR	AOF	IMPACT	3	

JOINT INVESTIGATION REPORT FOR INCIDENT NO;

16. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	MANA	10/17 144		~ ~ ~ ~		
	AOME	NI / HIN	ARE	A OF	IMPAC	7
				-		

17. Fish/Nets/Ponds

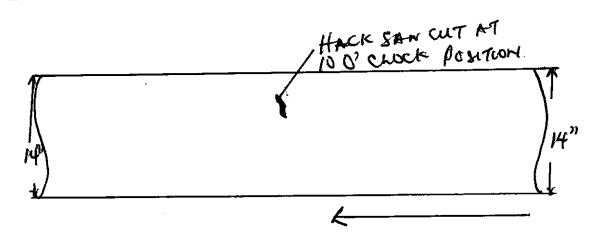
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
	NONE 1	HTHIN ARE	A OF IM	PACT
	, , , , , , , , , , , , , , , , , , , ,	7,7,7	7 . 07 . 11 /	<u>'</u>

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

S/N	Others	Description	Quantity/Siz	ze Comments
	11. 1 =			
	HONE	HHITHIM	ARUA OF	IMPACT
-	<u> </u>	1 0 1 7 0 1 1		

E. GRAPHIC DESCRIPTION OF LEAK POINT (Overview sketch of the site should be added as an appendix1)

A SECTION OF 14" OKORONA - RUMWERPE PIPELING AT IKARAMA SITE 3 SHOWING HACK SAW CUT AT 10 0'CLOCK POSITION



THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0003 695228 (C)

F: TABLE SHOWING SOME OF COORDINATES TAKEN DURING JIV FOR AREA CALCULATION 19. Impacted area boundary Coordinates (If more than 12 points, Attach as an appendix 2)

S/N	Northing	Easting
	126491.29	444814.62
2	126 482.06	444817.67
3	126 494.31	444830.03
4	126527.96	444879.44
5	126543.25	444 901. 05
6	126543.17	444915.07
7	126530-12	444 913.21
8	126485.07	444 839. 25
9	126475.89	444826.89
10	126466.68	444823.78
11	126 485.17	444 805.36

G. INCIDENT INFORMATION:

20. Impacted Area Details		
	40	1

•	Total calculated area of impact	0·18 Ha
•	Impact within SPDC R.O.W	0-02 H9
•	Impact outside R.O.W	0.1549

21. Volume of oil recovered before completion of JIV (V_{recJ}):

Recovered oil V _{rec.J} .	MIL	barrels
Cal idididid		

20.	<u>Computation</u>	of the residual	<u>volume on site</u>

a.	Computation of volume of pool of free phase oil (on land or confined water body).
	i Area (m²) occupied by pool of free phase oil	

4.	Then (iii) occupied by poor or nee prime on a	
ii	Average Depth (m) of pool of free phase oil -	0-002

***	Emulsification	factor:	
111.	Linuisincation	lactor.	

iv. Volume of pool of free phase oil. V_{pool} : 21.3 barrels	 	<u> </u>		
	iv.	Volume of pool of free phase oil. V_{pool} :	21.3	barrels

THE SHELL PET	ROLEUM DE	VELOPMENT COMPA	NY OF NIGERIA	LIMITED
JOINT INVES	TIGATION REPO	ORT FOR INCIDENT NO	695228	<u> (c)</u>
b. Computation o	f volume of infiltr	ated oil in the soil (V _{inf}).		
i	i. Area (m²) cove	red by the oil:	2	
ii	i. Area of the poo	ol of free phase oil in touch	with soil: 169	2
iii	i. Average Depth	(m) below ground surface	of infiltration of oil:_	200.0
iv	v. Soil type:			
		orosity of the soil).	3%	
iv	/. Volume o	f infiltrated oil. V _{inf}	4-5	barrels
i. Total area o	f oil on open wate	on open water based on str: T: On water based on coloration		
	Thickness	Percentage		~ `
	(mm)	coverage	Volume (m	3)
Barely Visible	0.00004	NOT	<u> </u>	
Silvery		1401	-	
Slight Color Bright Color				
Duli	0.0003	APPLI	CA BLE	
Dark				
Blackoil	0.1			
Emulsion (30% Oil)				
	Percent Total	100%	Total Volume	MU_ bbi
Γ	iii. Volume of oi	I on open water. Vwat:	NIL	barrels
22. Calculation of	of evaporated vol	ume:		
i. Oil t	ype: BONA	iy meduun		•
ii. E-Fa	ctor: 2-5	7		
ii	ii. Volume of ev	aporated oil. V evap:	8.6	barrels
	7	actors (E-Factor) fo	or SPDC Crude	oil
01.5		us on site Bon	ny Light	Bonny

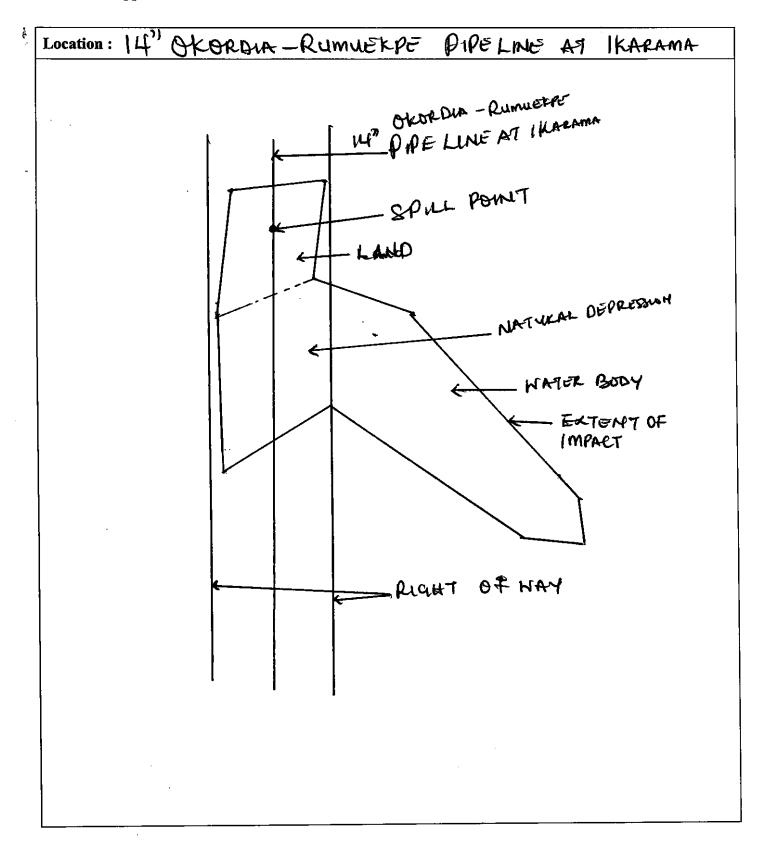
Evaporation Factors (E-Factor) for SPDC Crude oil			de oil
Oil Type	Days on site	Bonny Light	Bonny Medium
Period Since Oil Spill	< 1 day	10%	5%
	1-7 days	25%	15%
	> 7 days	40%	✓ 25%

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0003695728 (C)

Conversion of m3 to barrels is Total volume VT (m3) x 6.29 Emulsification factor for spill on water to consider is 60% of volume of oil. 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 □ B. 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 • 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]: □	24. Net Total Estimated Spilled Volume V En(bbls) = Vevap(bbls) + 0.6*Vwat (bbls) + Vinf (bbls) + Vpool (bbls) + Vred (bbls) = & G + NM + H · S + 21 3 + ML = 34 · 4 VEst(bbls) = 3 · 4 · 4 B ARLEIS *Calculation of the respective estimated volume is to be done using the new spill estimation software on site *Conversion of m3 to barrels is Total volume VT (m3) x 6.29 *Emulsification factor for spill on water to consider is 60% of volume of oil. 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 B. 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 12 / 08 /20 11 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]: •	24. Net Total Estimated Spilled Volume V Ent(bbls) = Verap(bbls) + 0.6*Vwat (bbls) + Vinf (bbls) + Vpool (bbls) + Vrect (bbls) = & 6 + plan + 4 · 5 + 21 · 3 + plan = 34 · 4 VEst(bbls) = 3 · 4 · 4 B ARLELS *Calculation of the respective estimated volume is to be done using the new spill estimation software on site *Conversion of m3 to barrels is Total volume VT (m3) x 6.29 *Emulsification factor for spill on water to consider is 60% of volume of oil. 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 B. 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 121 08/2011 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]: • Nigeria Police Force [NPF]:	
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This report was filled and signed on the 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]: □	This report was filled and signed on the 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]: □	This report was filled and signed on the 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]: □	initial response and therefore recommend that the site be closed out \square
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JOINT INVESTIGATION REPORT FOR INCIDENT NO: 0003 695228 (C)

20. Appendix 1: Overview sketch of the site



JOINT INVESTIGATION REPORT FOR INCIDENT NO: 675328(C)

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

S/N	Northing	Easting
		
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