OINT INVESTIGATION REPORT FOR II	NCIDENT NO: 12527	42 JIV report S/N: 00709
(Note: As practicable as possible the JIT	report is to be signed in the f	field by all the participating parties)
A. GENERAL INFORMATION:		
1. Spill incident Number: 12527	42 2.Type o	of incident* OIL SPILL
3. Name of Location 28" NIKPO	ku - BOMU	PIPELINE
4. Name of nearest community $R - D$	ERE 5. State: RIV	IERS 6.LGA GOKANA
7. Type of Production facility/Installatio	nPIPELINE 8.A	asset owner/District PIPFLIME
B. INCIDENT INFORMATION:		
9. Details of incident a. Date of incident: 1914 Se	= PIEMBER, 2014	
b. Start date/time of investigation:	20TH SEPTEMBER	2,2014 / 13: 15 PM
c. Investigation End date: $20^{1/4}$	SHITTOBER Actual inves	stigation duration, days: <u>OME(1)</u> PY
d. Description of spill point environment		
☐Firmed soil	Loose soil	Recently excavated area
	<u></u> -	_
☐ Under water☐ Well Platform (on Water)	□Swampy .	☐Exposed pipe surface ☐Drill Rig
Under water Well Platform (on Water) Additional observations around the	Swampy spill point: DURING THAT THAT THE	Exposed pipe surface
Additional observations around the NISIT, THE TEAM OWAS REMIEDIATED SWIMS ALSO OBSER	Swampy spill point: DURING TI BS FRUED THAT TI ITE WOOD THAT VED	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA
Additional observations around the NISII, THE TEAM O	Swampy spill point: DURING TI BS FRUED THAT TI ITE WOOD THAT VED	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA
Under water Well Platform (on Water) Additional observations around the NISIT, THE TEAM OWNER REPORTED SWIMS ALSO OBSER e. Description of leak point (tick	Swampy spill point: DUKING TI BS FRUED THAT TI ITE. WOOD HIN N WED.	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA TATERIAL MSED AS A PLMG
Under water Well Platform (on Water) Additional observations around the VISIT, THE TEAM OWAS REMIEDIATED SWIMS PLATED SW	spill point: DURING TIBS FRUED THAT TO THE T	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA THERIAL MSED AS A PLUG
Additional observations around the VISIT, THE TEAM OWAS REMIEDIATED SWIMS ALSO OBSER e. Description of leak point (tick	spill point: DURING TIBS FRUED THAT TO ITE. WOOD WOOD WOOD WOOD WOOD WOOD WOOD WOO	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA PATERIAL MSED AS A PLM G Tear (), Well head tampering
Under water Well Platform (on Water) Additional observations around the VISIT, THE TEAM OF WAS REMEDIATED SWIMS ALSO OBSER e. Description of leak point (tick Drilled hole Complete Rupture Failed Weld-on illegal hot tap	spill point: DUKING TIBS FRUED THAT TIESTED WORD AND NOTE OF THAT THE TIESTED WORD AND NOTE OF THE TIESTED WORD AND THE TIESTED POINT, valve, Failed Clamp sering) point,	Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA THE RIAL MSED AS A PLUG Well head tampering Missing Pipeline/Flowline
Under water Well Platform (on Water) Additional observations around the VISIT, THE TEAM OF SERVICE OF SERVIC	spill point: DUKING TIBS FRUED THAT TIESTED WORD AND NOTE OF THAT THE TIESTED WORD AND NOTE OF THE TIESTED WORD AND THE TIESTED POINT, valve, Failed Clamp sering) point,	Drill Rig HE JOINT JAWESTI SATION HE SPILL POINT AREA THE RIAL MSED AS A PLUG Well head tampering Missing Pipeline/Flowline Third party tampering with flange,
Under water Well Platform (on Water) Additional observations around the NISIT, THE TEAM OF WAS REMEDIATED SWIMS ALSO OBSER e. Description of leak point (tick Drilled hole Complete Rupture Failed Weld-on illegal hot tap Crude oil theft (illegal bunk Third party tampering with	spill point: DURING TIBS FRUED THAT TO ITE. WOOD WOOD WOOD WOOD WOOD WOOD WOOD WOO	Drill Rig HE JOINT JAWESTI SATION HE SPILL POINT AREA THE RIAL MSED AS A PLUG Well head tampering Missing Pipeline/Flowline Third party tampering with flange,
Under water Well Platform (on Water) Additional observations around the VISIT, THE TEAM OF WAS REMIEDIATED SWIPS PLATED	spill point: DURING TIBS FRUED THAT TO ITE. WORD WAND NOTE. WORD WAND NOTE. WORD WAND AND A SERVICE STATE OF THE STATE OF	□ Exposed pipe surface □ Drill Rig HE JOINT INVESTIGATION HE SPILL POINT AREA THERIAL MSED AS A PLMG □ Tear (), □ Well head tampering □ Missing Pipeline/Flowline □ Third party tampering with Clamp □ Third party tampering with flange, □ Surge vessel overflow,
Under water Well Platform (on Water) Additional observations around the NISIT, THE TEAM OF WAS REMEDIATED SWIMS ALSO OBSER e. Description of leak point (tick Drilled hole Complete Rupture Failed Weld-on illegal bunk Third party tampering with Corrosión Bulging Outward	spill point: DURING TIBS FRUED THAT TO ITE. WORD WAND NOTE. WORD WAND NOTE. WORD WAND AND A SERVICE STATE OF THE STATE OF	□ Exposed pipe surface □ Drill Rig HF JOINT JAWESTI SATION HF SPILL POINT AREA PAGERIAL MSFD AS A PLM G □ Tear (), □ Well head tampering □ Missing Pipeline/Flowline □ Third party tampering with Clamp □ Third party tampering with flange, □ Surge vessel overflow, vall failure □ Accidental 3 rd party equipment
Additional observations around the VISIT, THE TEAM ON WAS REMEDIATED SWIPS PLANED OBSER e. Description of leak point (tick Drilled hole Complete Rupture Failed Weld-on illegal hot tap Crude oil theft (illegal bunk Drilled party tampering with Corrosión Bulging Outward impact Dvalve Failef valve failure f. Incident caused by:	spill point: DURING THAT THE SECOND THE SECOND THAT THE SECOND THAT THE SECOND THAT THE SECOND THE	□ Exposed pipe surface □ Drill Rig HE JOINT JAWESTI SATION HE SPILL POINT AREA THAT RIAL MSED AS A PLM G □ Tear (), □ Well head tampering □ Missing Pipeline/Flowline □ Third party tampering with Clamp □ Third party tampering with flange, □ Surge vessel overflow, vall failure □ Accidental 3 rd party equipment m unit failure □ Cold vent
Additional observations around the NISIT, THE TEAM ON WAS REMEDIATED SWIMS ALSO OBSER e. Description of leak point (tick Drilled hole Complete Rupture Failed Weld-on illegal hot tap Crude oil theft (illegal bunk Third party tampering with Corrosión Bulging Outward impact Valve Failef valve failure f. Incident caused by: Third party interference (Sabot Third Party Interference	spill point: DURING THAT THE SECOND THE SECOND THAT THE SECOND THAT THE SECOND THAT THE SECOND THE	□ Exposed pipe surface □ Drill Rig HF JOINT JAWESTI SATION HF SPILL POINT AREA THERIAL MSFD AS A PLM G □ Tear (

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

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g. Spill	point coord Measuring		M	inna -	-Mid b	elf.	
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C. RISK AS:	SESSMEN	NT					
10.		of environment:					
1 21∟	and	□ Swamp	□Water	□Sea	asonal swamp	Shoreline/Wa	nterfront
i.	Type of	f environment to	which oil has s	pread:			
VZ	and	Swamp	□Water	K Riv	ver (identify)		
ü,	Weathe	er condition					
☑Ra 11. Dista		Sunny ne nearest sensitiv	□Dry ve habitat	□Wet	□Windy	□Hot	□cool
0 I 0 F 0 F 0 F	Drinking wa	* NONE Ond WITH	_		[m,] [m,] [m,] [m,] [m,]		
12. Conta	inment me	asures put in pla	ce;				
	Booms Others:	Trench	□Dyke	□Na	tural depression	Pit	□None
13. Any p	pictures or	video coverage?			[N]	
14. Furt	her respons	se/repair initiated	as at the time of	of JIV?	[N]	
If yes to item 14	, give brief	description: D c		A 15.	vínes	MAL COL	- 1.C
REDAIR	Vela	RIK WA	COVEK~			<u>on Goi</u> PING.	N S ·
15 West			•	<u></u>	[Y] L	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	-	isruption to the in	uvesuganon:		Lij (j.	J	
If yes to item 1	o give brie	er description:					
MOI	AP	PLICA	1016.				

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

16. Structures / Properties

S/N Type of Structures	Description	Size	Number	Comments
NONE W	THA	ARE	A 05	MPACT

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	BAMBOO THEF				FEW	IMPACTED
						BY SPILL
						
		<u></u>		<u> </u>		

18. Fish/Nets/Ponds

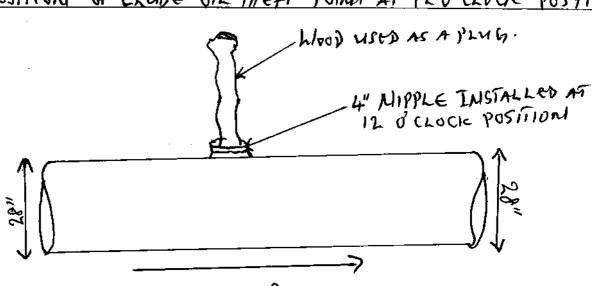
S/N Fish	/Nets/Ponds	Description	Quantity/Size	Comments
Mon	le h	WHIN AR	EA	of IMPACT

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

S/N Others	Description	Quantity/Size	Comments
NONE	MITHIN	ARCA C	FIMPACT

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the leak report, overview sketch of the site should be added as an appendix 1)

SECTION OF 28" NIKPOICH - BOMY PIPELINE AT B-DERE SHOWING POSITION OF CRUDE OIL THEFT POINT AT 120'CLOCK POSITION



FROM NKPOKY TOO DOMU

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Coordinates of 28"TNP spill at B.Dere	
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811 532153.5 76181.96	
812 532175.1 76212.64	
813 532459.1 76482.43	
814 532465.2 76457.85	
815 532449.8 76436.38	
816 532471.3 76399.48	
817 532480.5 76390.25	
	_
7890 532343.2 76338.89	
7860 532383 76360.13	

22/9/14

	THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMI	
NT INVE	ESTIGATION REPORT FOR INCIDENT NO: 1252742 JIV report S/N: 0	709
G. INC	CIDENT INFORMATION:	
20. I	Impacted Area Details	
	• Total calculated area of impact 4-38 #A	
	1-0	
	• Impact within SPDC R.O.W	
21.1	• Impact outside SPDC R.O.W	
21. 3		Barrels
Co	ontrolled recovery/evacuation from source with no impact to environment:	
	A 11 Barrels	
•	•	
22:1	Net Estimated Spilled Volume V _{Est} (bbls)* =	133 1 1780 I
* 1	101.95 BARRES	
Estima	ited Reported Volume** V _{rep} (bbls)= \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	o to r
	ited Reported Volume** Vrep(BBIS)= 102 BARRELS	
*Notes:		
•	Volume estimation was done using an excel based tool.(see attached for details on the calculation) Reported spilled volume is an estimate	
Wri	ite other relevant notes taken into consideration for estimating the spilled in the box below:	
2	SEE ATTACHED	
	, , , , , , , , , , , , , , , , , , ,	
	<u> </u>	
	tion of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation ion of in ³ to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following ru	
• Conversi	Any spill volume in excess of l bbl is rounded up to the next whole number.	
•	Any spill volume in less than 1 bbl is rounded up to the next 0.1 bbl.	
	Examples: Calculated volume = 15.3 bbl Reported volume = 16 bbl	
	Calculated volume = 0.35 bbl Reported volume = 0.4 bbl	
	Calculated volume = 0.01 bbl Reported volume = 0.1 bbl.	

Wherever this estimation tool is not applicable please refer to paragraph 6c (Deviations) of the JIV procedure to use appropriate steps for column estimation; record the calculation in a plain sheet of paper and attach to the JIV report.

ESTIMATION OF OIL SPILL VOLUME

A

O.	IL SPILLED ONSHORE	OFFSHORE (Leak stopped at	source)		
<u>lm</u>	pacted Area Details				
	Total Calculated Area of	Impact			43,800.00 m²
	i Impact within SPDC R.O.I	•			m²
	ii Impact outside SPDC R.O.				m²
	ii impeci ouiside ar bo A.C				
1 00	Nume of all recovered before	C. W.W. to politelympa er			
. 17	i Estimated Recovered oil (16.00 bbis
	I Estitiated Mexoveled on (,			10.00 0018
	Estimated Recovered oil	(Net) V		·	10.00 bbls
	Lealinated Hoperoral on	1.100 - 1653			10100 0000
9 0.		televal continues are alter			
	emputation of estimated res				
a	•	of free phase oil (on land or confined	water body)		m²
	i Total area occupied by po	•			
	ii Average depth of pool of f				m
	iii Emulsification factor	(If applicable, else 0%)			0%
	Estimated Volume of po				0.00 m ³
	Estimated Volume of po-	oł of free phase oli, V _{pobl}			0.00 bbis
b	Computation of estimate	d volume of inflitrated oil in the soil	(V _{int})		
	1 Volume of infiltrated oil	at spill point (V _{inf.})			
	i Total area covered by the				3.00 m²
		n above leaking facility i.e. pipetine/flow	dine		1.200 m
	iii Soil type	•			Sand (medium)
	iv P. (effective porosity of the	e soil)			25 %
		ŕ			
	u Cours of spill				Third party interference
	v Cause of spill				time hard anomatories
		intitionalism below the localism point on a	inalina er familia		
		r inflitration below the leaking point on p			
	Incident Date	JIV Date	Days on Site		
	9/19/2014 11:00	9/20/2014 13:15	1		
		rational, use 1 week as worst case there 'days on site' exceeds 7.	7		
-	COOTING OXIOSA I	TOTO GE TO STI SIZE SANGER			
		Infiltration of oil types in various soil t	ypes vs time.		7
	Soil type	Approximate time to reach		nd level	7
	Oil type	Sand	Loam	Clay	1
	Bonny Medium	3 weeks	3 уеагэ	> 10 years	1
	Bonny Light	2 days	2 months	> 10 years	
	a viniy wigin				_
	vii Oil type				Boney Light
		n below leaking facility i.e. pipellne/flow	dine		0.500 m
	, ,	, , , , , , , , , , , , , , , , , , ,			3333
	ix Total depth below ground	surface of infiltration of oil			1.700 m
	ix rotal department ground	Surface of Hillia agoil of on			2.743
	Estimated Volume of Inf	Attendant att St			1.28 m³
	Estimated Volume of inf				8.02 bbis
	Catulaten Anitalie of Illi	intrateo on, v Ma			0.02 0.08
	n teatrons of helikostad att				
	i Total area covered by the	at second spii) point [if applicable] (\ oil (infiltration)	Mb)		m²
	•	on (innitiation) on above leaking facility i.e. pipeline/flov	dlaa		
		on above leaking facility i.e. pipeline/liov	AIII19G		<u> </u>
	iii <u>Soil type</u> iv P _e (effective porosity of th	tios a			- Select - ▼ 0 %
	ia - 6 ferrocase horoarà or m	o oun,			⁷⁶
	6	- beter leaking facility is alsoling Way	مماد		0.000
	v Average depth of inhitration	on below leaking facility i.e. pipeline/flow	fiii (8		0.000]m
	ui Tatal daeth balau seama	audana of infiltration of all			0.000m
	vi Total depth below ground	Sunace of Hillingsboth of Oil			V.000jm
	Entlyspinal Materials of the	Meredaniali 1/			0.00 m³
	Estimated Volume of inf				<u> </u>
	Estimated Volume of inf	iltrated oil, V _{hif b}			0.00 bbis

³ Volume of Infiltrated oil outside immediate spill point(s) region ($V_{inf\,c}$)

y P ₁ (effective porosity of the soil) y Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{tet x} Estimated Volume of Infiltrated oil, V _{tet x} Estimated Volume of Infiltrated oil, V _{tet x} 4 Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tet x}) 1 Total Area covered by the oil (infiltration) 1 Total Area of the pool of free phase oil in touch with soil if Average depth below ground surface of infiltration of oil C.0000 m Estimated Volume of Infiltrated oil, V _{tet x} 0.033 m² Estimated Volume of Infiltrated oil, V _{tet x} 0.19 bbis Estimated Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Total Volume of Infiltrated oil, V _{tet x} 7.58 m³ Estimated Volume of Oil on water based on coloration Intil to Construct Volume (m³) Int	iii Solt lose	Residence time Was oil recovery before J. Estimated volume availab	<1 day 1-7 days > 7 days V completion done before JIV date? for evaporation	Banny Light 10% 25%	5% 15%	68.96 bbls
Soil Dice Seet (mekun) V P Confective porosity of the soil) Z25 Seet (mekun) V P Confective porosity of the soil) Z25 Seet (mekun)	Soli Locs Soli Cock Solid (medium) V P (effective porosity of the soil) 25 %	Residence time Residence time Was oil recovery before J. Estimated volume availab	<1 day 1-7 days > 7 days IV completion done before JIV date?	Banny Light 10% 25%	5% 15%	68.96 bbls
Soult Dose Sand (medium) W 25 %	Soul Libbs Seed (medium) V P Refereive porosity of the soil) 25 5% 25% 7% (effective porosity of the soil) 25 5% 25% 7% (effective porosity of the soil) 0.500 m 0.500	Residence time	<1 day 1-7 days > 7 days IV completion done before JIV date?	Banny Light 10% 25%	5% 15%	
Soil type	Soil tribe Soil tribe Said (medium) V 23 %		< 1 day 1-7 days	Banny Light 10% 25%	5% 15%	
Soil troe P. (effective porosity of the soil) 25 % Average depth below ground surface of infiltration of oil 0.500 m Estimated Volume of Infiltrated oil, V _{Mr c} 39.31 bile Volume of Infiltrated oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Volume of Infiltrated oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Volume of Infiltrated oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Volume of Infiltrated oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Volume of Infiltrated oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Volume of Infiltrated oil oil outside Immediate spill point(s) region (superficial impact, V _{Mr d} 39.31 bile Average depth below ground surface of Infiltrated oil	Soil toos P. (offective porosity of the soil) 23 %		< 1 day 1-7 days	Banny Light 10% 25%	5% 15%	
Soil troes Pr Content Pr C	Soil troes P. (effective porosity of the soil) 25 %		< 1 day	Banny Light 10%	5%	
Soil type	Soil troe Pa (effective porosity of the soil) 25 % Average depth below ground surface of infiltration of oil 0.500 m Estimated Volume of Infiltrated oil, V _{tert} 39.31 bblis Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tert d}) Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tert d}) Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tert d}) Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tert d}) Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{tert d}) Volume of Infiltrated oil on the oil (infiltration) 1,947,000 m² Estimated Volume of Infiltrated oil, V _{tert d} 0.000 m² Estimated Volume of Infiltrated oil, V _{tert d} 0.19 bblis Estimated Volume of Infiltrated oil, V _{tert d} 7.85 m² Estimated Total Volume of Infiltrated oil, V _{tert d} 7.85 m² Estimated Total Volume of oil on open water based on standard coloration Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Spill Factors from USCO FOO (2006 Edition) M² Barch Visible 0.0000 0.0000 Silvery 0.0000 0.0000 Barch Visible 0.0000 0.0000 Barc			Bonny Light		
Soil troe Pa (effective porosity of the soil) 25 % Average depth below ground surface of infiltration of oil 0.500 m Estimated Volume of Infiltrated oil, V _{Mrd} 39.31 bble Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Volume of Infiltrated oil outside Immediate spill point(s) region (superficial Impact, V _{Mrd}) Estimated Volume of Infiltrated oil outside region (superficial Impact, V _{Mrd}) Estimated Volume of Infiltrated oil, V _{Mrd} 0.000 m² Estimated Volume of Infiltrated oil, V _{Mrd} 0.500 m² Estimated Total Volume of Infiltrated oil, V _{Mrd} 0.500 m² Estimated Total Volume of Infiltrated oil, V _{Mrd} 0.500 m² Estimated Total Volume of Infiltrated oil, V _{Mrd} 0.500 m² Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Spill Factors from USCG FOG (2000 Edition) Ald Total case of oil on open water 42,400.00 m² Spill Factors from USCG FOG (2000 Edition) Ald Total area of oil on open water 42,400.00 m² Spill Factors from USCG FOG (2000 Edition) Ald Total area of oil on open water 42,400.00 m² Spill Factors from USCG FOG (2000 Edition) 0.0000 Spill Factors from USCG FOG (2000 Edition) Ald Total Area of Oil on open water 42,400.00 m² Spill Factors from USCG FOG (2000 Edition) 0.0000 Datik 0.0000 Dat	Soil troe Power Power Soil troe Power Powe		e of spilled oil (days on site)		Boony Medium	
Soil trops Soil trops Soil trops Soil trops Ps (effective porosity of the soil) 25 %	Soil troe Packetictive porosity of the soil) 25 % Average depth below ground surface of infiltration of oil 0.500 m Estimated Volume of Infiltrated oil, V _{Mrd} 8.28 m² Estimated Volume of Infiltrated oil, V _{Mrd} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mrd} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mrd} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mrd} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mrd} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mrd} 39.31 bbls Volume of the oil (infiltrated oil				<u></u>	
Soil from Soil	Soil troes Soil troes Send (medium) Telephonosity of the soil) 25 %	ulation of evaporated vol	Evaporation Factors (E-Factor) for S			
Soil type P _s (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{bet c} Estimated Volume of Infiltrated oil, V _{bet c} Yolume of Infiltrated oil, v _{bet c} Total Area covered by the oil (infiltration) Total Area covered by the oil (infiltration) Total Area of the pool of free phase oil in bouch with soil Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{bet d} T.85 m³ Estimated Total Volume of Infiltrated oil, V _{bet d} Total area of oil on open water based on standard coloration Total area of oil on open water Table of average depth of oil on water based on coloration Spill Factors from USCG FOG (2000 Edition) Bareb, Visible O.00004 Bareb, Visible O.00005 Silvery O.00006 Silvery O.00006 Silvery O.00007 O.00007 Silvery O.00007 Silvery O.00007 O.00007 Silvery O.00007 Silvery O.00007 O.00007 Silvery O.00007 O.00007 Silvery O.00007 O.00007 Silvery O.00007 O.000	Soil type P, (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{bef c} Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{bef d}) Total Area covered by the oil (infiltration) Total Area covered by the oil (infiltration) Total Area of the pool of free phase oil in buch with soil Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{bef d} Estimated Volume of Infiltrated oil, V _{bef d} Estimated Volume of Infiltrated oil, V _{bef d} Estimated Total Volume of Infiltrated oil, V _{bef} Estimated Total Volume of Infiltrated oil, V _{bef} Total area of oil on open water based on standard coloration Total area of oil on open water based on coloration Total area of oil on open water based on coloration Total area of oil on open water based on coloration Spill Factors from USCG FOG (2006 Edition) Average depth of oil on water based on coloration Silvery Quocous Silvery Quocous Quark Quocous Back oil Quil Quori Percentage Coverage (%) Volume (m3) Percentage Coverage (%) Volume (m3) Barely Visible Quocous Qu		lume	·		
Soil type P, (effective porosity of the soil) 25 % P, (effective porosity of the soil) 25 % Average depth below ground surface of infiltration of oil 0.500 m Estimated Volume of infiltrated oil, V _{brf s} 39.31 bbls Evolume of infiltrated oil outside immediate spill point(s) region (superficial impact, V _{brf d}) Total Area covered by the oil (infiltration) 1,347.00 m² Total Area covered by the oil (infiltration) 1,347.00 m² Average depth below ground surface of infiltration of oil 0.000 m Estimated Volume of infiltrated oil, V _{brf d} 0.19 bbls Estimated Volume of infiltrated oil, V _{brf d} 0.19 bbls Estimated Total Volume of infiltrated oil, V _{brf d} 7.85 m² Estimated Total Volume of infiltrated oil, V _{brf d} 47.52 bbls Computation of volume of oil on open water based on standard coloration Total area of oil on open water 42,400.00 m² Total area of oil on open water 42,400.00 m² Estimated Total Volume of oil on open water based on standard coloration Total area of oil on open water 42,400.00 m² Total area of oil on open water 0.0000 Silvery 0.00000 0.0000 Silvery 0.00000 0.0000 Bright Color 0.00001 0.0000 Dull 0.001 0.0000 Dull 0.001 0.0000 Emission (30%, Oil) 1 0.0000 Emi	Soil type P, (effective porosity of the soil) 25 %		- 134			
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Soil type P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil D.500 m Estimated Volume of infiltrated oil, V _{inf c} Estimated Volume of Infiltrated oil, V _{inf c} Volume of Infiltrated oil (infiltrated oil type oil (infiltrated oil type oil (infiltrated oil type oil (infiltration)) Total Area covered by the oil (infiltration) Total Area of the pool of free phase oil in touch with soil Average depth below ground surface of infiltration of oil D.000 m Estimated Volume of Infiltrated oil, V _{inf d} O.000 m	Soil type P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf c} Estimated Volume of Infiltrated oil, V _{inf c} Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{inf d}) Total Area covered by the oil (infiltration) Total Area of the pool of free phase oil in touch with soil Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{inf d} 0.000 m Estimated Volume of Infiltrated oil, V _{inf d}	Estimated Volume of inf	intrated oil, V _{keld}			0.19 bbls
Soli type Pe (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf c} Estimated Volume of infiltrated oil, V _{inf c} Sand (medium) 0.500 m 6.26 m³ Estimated Volume of infiltrated oil, V _{inf c} 39.31 bbis Volume of infiltrated oil outside immediate spill point(s) region (superficial impact, V _{inf d}) Total Area covered by the oil (infiltration) 1.347.00 m² Total Area of the pool of free phase oil in touch with soil	Soli type Pe (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf.c.} Estimated Volume of infiltrated oil, V _{inf.c.} Soli (medium) O.500 m Estimated Volume of infiltrated oil, V _{inf.c.} Soli (medium) O.500 m Estimated Volume of infiltrated oil, V _{inf.c.} Soli (medium) O.500 m Estimated Volume of infiltrated oil, V _{inf.c.} Soli (medium) O.500 m O.500 m Soli (medium) O.500 m O.500 m Infiltrated oil, V _{inf.c.} Soli (medium) O.500 m O.500 m Infiltrated oil, V _{inf.c.} Infiltrated oil, V _{inf.c.} Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{inf.d.}) Infolal Area covered by the oil (infiltration) Infolal Area of the pool of free phase oil in touch with soil			· -		
Soli type Pe (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf c} Estimated Volume of infiltrated oil, V _{inf c} Sand (medium) 0.500 m 6.25 m³ Estimated Volume of infiltrated oil, V _{inf c} 39.31 bbls Volume of infiltrated oil outside immediate spill point(s) region (superficial impact, V _{inf d}) i Total Area covered by the oil (infiltration)	Soil type Pe (effective porosity of the soil) Average depth below ground surface of infiltration of oil O.500 m Estimated Volume of infiltrated oil, V _{MC} Estimated Volume of infiltrated oil, V _{MC} 39.31 bbis Volume of infiltrated oil outside immediate spill point(s) region (superficial impact, V _{Mdd}) Total Area covered by the oil (infiltration)	Average depth below grou	and surface of infiltration of oil			0.000m
Soil type P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf c} Estimated Volume of Infiltrated oil, V _{inf c} Sand (medium) 0.500 m 6.25 m ³ Estimated Volume of Infiltrated oil, V _{inf c} 39.31 bbls Volume of Infiltrated oil outside immediate spill point(s) region (superficial impact, V _{inf d}) Total Area covered by the oil (infiltration)	Soil type P _o (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{MC} Estimated Volume of Infiltrated oil, V _{MC} Sand (medium) 0.500 m 6.25 m³ Estimated Volume of Infiltrated oil, V _{MC} 39.31 bbis Volume of Infiltrated oil outside immediate splil point(s) region (superficial impact, V _{Mdd}) Total Area covered by the oil (infiltration) 1.347.00 m²	Total Area of the pool of fi	ee phase oil in touch with soil			m²
Soil type Pe (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of Infiltrated oil, V _{inf c} Estimated Volume of Infiltrated oil, V _{inf c} Sand (medium) 0.500 m 6.25 m³ Estimated Volume of Infiltrated oil, V _{inf c} 39.31 bbis	Soil type P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf c} Sand (medium) 25 % 0.500 m Estimated Volume of infiltrated oil, V _{inf c} 39.31 bbis	•	. ,			
Sand (medium) P, (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{inf a} 6.25 m ³	Sand (medium) P, (effective porosity of the soil) Average depth below ground surface of infiltration of oil Estimated Volume of infiltrated oil, V _{infe} 6.25 m³	Volume of infiltrated oil	outaide immediate spill point(s) regic	on (superficial impact	t, V _{kd d})	
Sand (medium) P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil 0.500 m	Sand (medium) P _e (effective porosity of the soil) Average depth below ground surface of infiltration of oil 0.500 m	Estimated Volume of Inf	litrated oil, V _{inf c}			39.31 bbls
Soil type P _e (effective porosity of the soil) Sand (medium) 25 %	Soil type P _e (effective porosity of the soil) Sand (medium) 25 %	Estimated Volume of int	filtrated oil, V _{infe}			6.25 m ³
Soil type Sand (medium) ▼	Soil type Sand (medium) ▼	Average depth below grou	and surface of infiltration of oil			0.500 m
		A feet to the a feet against at gr	e soil)			25 %
i Total Area of the pool of free phase oil in touch with soil		P. (effective porosity of th	o prices on in leader man con			
i Total Area covered by the oil (Inflitration) 50.00 m ²		i <u>Soil type</u>	•			

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23. GENERAL STATUS OF THE SITE

A.	Joint investigation of the incident site found that there is no residual imparesponse and JIT therefore recommend that the site be closed out	ect after the initial
В.	Investigation of the incident site showed that there is residual impact on sit works	e requiring further

24. REPRESENTATIVES

This report was filled, agreed and signed by the following joint investigation representatives:	
•	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]:
•	Signatories agree with reported findings:
•	Separate DPR form has been filled out with same findings
	Tick as applicable

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25. Appendix 1: Overview sketch of the site

