INCIDENT NO: 2843235 JIV report S/N:

0587

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

A. GI	ENERAL INFORMATION:							
1. For	intain Incident Number: 284	323	2. Type of inc	ident* OIL SPILL				
3. Nar	me of Location 4" IMO A	RIVER	2-1 188	TLINE AND 2" IMPRIVER 1 - 2 GAS LIFT LINE				
3. Name of Location 4" IMO RIVER 2-1 TEST LINE AND 2" IMORIV 4. Name of nearest community GIRUKWH 5. State: ABIA 6. LGA UKWA WEST								
7. Pro	. Production Facility/Installation TEST LINE							
8. Ass	set Owner/Hubitte Stell	PETRO	LEUM DEVE	LOPMENT COMPANY				
B. IN	CIDENT INFORMATION:	HMITE	D(SPDC)					
9. De	tails of incident Date Reported: 271H JANU		2021					
a.	Date Reported: 27111 JANU	ARY.	2021	MEABC				
o.	Start date/time of Investigation: 36 Investigation End date: 30 IH	446 HI	WART 20211-	· OXE (1) NAV				
	Description of spill point environme		$\frac{1}{1}$ $\frac{1}{1}$ Day(s)	on site: ONC CI) DAT				
	Firm soil							
		□Loose s		Recently excavated area				
	Under water	□Swamp		Exposed pipe surface				
	Well Platform (on water)	Drill Ri	g	☐Sand bag(s)				
	POSITION ON THE ?	2 IMO	RIVER 1-7	WESTIGATION TEAM GASLIFT LINE PARALLE WE				
	Description of leak point (tick as ap	nlicable):						
	Smooth round-edge hole	pilcaole),	☐Rough-edge hole	Hack saw cut				
	Complete Rupture		☐ Inward dent,	☐ Well head tampering				
	Failed Weld-on illegal hot tap valve		Failed Clamp,	☐ Missing Pipeline/Flowline				
	Crude oil theft (illegal bunkering) point,		Saver-pit over flow	☐ Third party tampering with Clamp				
	Third party tampering with valve setting		Bulging Outward	Third party tampering with flange,				
	☐ Flare System/Bund wall failure ☐ Valve Failure		☐ Cold vent☐ Relief valve failure	☐ Surge vessel overflow,☐ Accidental 3 rd party equipment impact				
	Tear ()		A Rener varve familie	Party equipment impact				
	Others (specify)							
f.	Incident caused by:							
	Third party interference (Sabotage , crude theft ; Line theft ; Accidental 3rd party damage)							
			Aystery spills)	F. 3ge 2)				
			in the					

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

^{*}This can be: (a) Oil Spill (b) Drilling fluid/Chemical (c) Siliation (d) Water Leak (e) Fire (f) Non-leaking theft point removal

Version 2020/01

INCIDENT NO: 2843235 JIV report S/N: 0587

Julier .	Northing: (WGS	0-1	Easting: A	
H		-Alliu	>E	Easting.	NGITWE
	A DILLEGA	4-978	99	7.1	7821
	4.97999			7.1	7822
	Ц	/_			1
USF	ASSESSMEN	σ			
0.	Details of Envi	ironment			
	Type of en	vironment where	spill occurred (se	lect one):	
	Mand	□Swamp	□Water	☐Seasonal swam	p DShoreline/Waterfront
iL.	Type of en	vironment to which	th oil has spread:		
	Dand .	□ Swamp	□Waterbody	(specify)	
ifi.	Weather co	ondition			
	⊠ Dry	□Wet	□Windy	□Hot	
II.	Distance to Ser	nsitive habitat wit	nin 100m radius		
	Drinking w		gnated protected a		n] n]
	☐ Built up Ar	rea Sential Area 🖽 🗀		Area BOM#	- 1
	O Fish Farm				n] nj
	☐ Fishing net☐ Others (spe				n]
					m)
		asures put in place:	D. CK		
		Trench L Dyke	□ Pit □ Natu	ral depression No	ne
	Others:				
3. /	Any pictures or v	video coverage?		(AT INI	
6.	Further response	e'repair initiated as	at the time of JIV	(Y] [N]	
to ite	m 14, give brief d	lescription:			
124	HR BY	CLAMP	1MG 0	NGOING	

INCIDENT NO: 2843235 JIV report S/N: 0587

15. Was there any disruption to t	the investigation?	[Y] [N]	
If yes to item 15 give brief description:	- 1001		
NO	TAPPI	CAS	LE
16. Was JIV delayed? [Y]	(N)		
Reason(s): Delayed Community Access A Others (specify)	Approval Security Chall	lenges	straint due to terrain
D. TYPE/NUMBERS OF PROP 17. Structures / Properties	ERTIES, IF ANY, FOUND V	VITHIN THE AREA O	F SPREAD OF OIL
S/N Type of Structures Desc	ription Size Num	ber Cor	nments
18. Crops/Economic Trees	NAREA	OF IM	ACT
S/N Type of crops Young	Medium Matu	red Quantity	Comments
NONE WITH	VAREA	OFTMP	ACI
19. Fish/Nets/Ponds S/N Fish/Nets/Ponds Descrip	tion Quanti	ity/Size Comments	BOOK A SAUDINE
20. Others (Specify) e.g. Animal T	N AREA (FIMP	
S/N Others Descrip		ity/Size Comments	
NONE WITH	NAKEA	OF IMP	46,1
E. GRAPHIC DESCRIPTION OF LE in the leak report, overview sketch of the	site should be added as appen	dix 1) SECTIONS E	F 4" IMO KIVEK
2-1 TESTUME AT IGIRU BSITION AND 2" IMO	T A PINIMOTIC UMAN	ACKSAW CUI Y	41 10-7 000
M 41 10 - 8, 0, CM	OCK POSITION C	HUSED BY 118	JKNOWN PERSON
	M HACKSALL CUI)	CIASC	BAK PEINT (38MM theksall a)
4" TESTLINE			
b			3
	In	1	0.1M
2" GASLIFT LINE		/ \	7
Distriction of the property of the		*	
	The second secon		

MO RIVER 2 TO LMO RIVER 1 Version 2020/01
Distribution of copies: White (Asset Owner), Pink (DPR): Green (NOSDRA); Yellow (State Ministry of Environment);
Blue (Host Community) Page 3 of 8

INCIDENT NO: 2843235 JIV report S/N: 0587

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

21. Impacted area boundary Coordinates (If more, Print and attach as Appendix) WGS 84

		MU2 84
SN	Northing LATITUDE	Easting LONGITUDE
22%	4.979	7.17829
599	4.97899	7.17826
1600	4: 97898	7.17821
601	4.97898	7.17805
602	4. 97899	7.17806
		Harter 1570 - Erical Arthursten
200	See See See See See See See	
-/		
/		

INCIDENT NO: 2843235 JIV report S/N: 0587

b. Volume of oil recovered before completion of JIV (VrecJ): Recovered oil VrecJ: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels c. Net Estimated Spilled Volume V _{Est} (bbls)* = 0.23 BARREL Estimated Reported Volume** Vrep(bbls)= 1 BARREL			
Total calculated area of impact (Ha) O.0034HA Impact within SPDC R.O.W VES Impact outside SPDC R.O.W NO Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) Recovered oil Vrect: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels C. Net Estimated Spilled Volume Vest(bbls)* = O.23 BARREL Cestimated Reported Volume** Vreo(bbls)= IBARREL Ones: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	interperation;		
Impact within SPDC R.O.W Impact outside SPDC R.O.W Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) Barrels Controlled recovered before completion of JIV (VrecJ): Recovered oil VrecJ: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels C. Net Estimated Spilled Volume VEst(bbls)* O. 23 BARREL Setimated Reported Volume** Vreu(bbls)= Setimated Reported Volume** Vreu(bbls)= Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	a. Impacted Area Details *		
Impact within SPDC R.O.W Impact outside SPDC R.O.W Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) Barrels Controlled recovered before completion of JIV (VrecJ): Recovered oil VrecJ: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels C. Net Estimated Spilled Volume VEst(bbls)* O. 23 BARREL Setimated Reported Volume** Vreu(bbls)= Setimated Reported Volume** Vreu(bbls)= Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate			
Impact outside SPDC R.O.W NO Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) b. Volume of oil recovered before completion of JIV (Vrest): Recovered oil Vrest: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels c. Net Estimated Spilled Volume Vest(bbls)* O. 23 BARREL Stimated Reported Volume** Vrep(bbls)= BARREL Otes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate		34HA	
Round off to 2 decimal places if area is $\geq 100 \text{ m}^2$ or to 4 decimal places if area is $\leq 100 \text{ m}^2$ (e.g. 14.55, 0.0051, 0.0009) Express in Hectares (Ha) b. Volume of oil recovered before completion of JIV (Vrec1): Recovered oil Vrec1: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels C. Net Estimated Spilled Volume $V_{Ext}(bbls)^* = 0.23 \text{ BARREL}$ Cestimated Reported Volume** $V_{rep}(bbls) = 0.23 \text{ BARREL}$ Cotes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate			
b. Volume of oil recovered before completion of JIV (VrecJ): Recovered oil VrecJ: NIL Barrels Controlled recovery/evacuation from source with no impact to environment: NIL Barrels c. Net Estimated Spilled Volume Vest(bbls)* = 0.23 BARREL Stimated Reported Volume** Vrep(bbls)= 1 BARREL Oest: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	Impact outside SPDC R.O.W NO		
Controlled recovery/evacuation from source with no impact to environment: N L Barrels	Round off to 2 decimal places if area is ≥ 100 m ² or to 4 decimal places if a Express in Hectares (Ha)	rea is < 100 m² (e.g. 14	1.55, 0.0051, 0.0009)
Controlled recovery/evacuation from source with no impact to environment: NIL Barrels	b. Volume of oil recovered before completion of JIV (Vre	പ):	
Controlled recovery/evacuation from source with no impact to environment: NIL Barrels	Recovered oil Vrees:	NII	Barrels
c. Net Estimated Spilled Volume V _{Est} (bbls)* = 0.23 BARREL Setimated Reported Volume** V _{rep} (bbls)= 1 BARREL Otes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	Controlled recovery/evacuation from source with no impact		
c. Net Estimated Spilled Volume V _{Est} (bbls)* = 0.23 BARREL Setimated Reported Volume** V _{rep} (bbls)= 1 BARREL Otes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	Comment of the commen		
O. LS ISARREC Stimated Reported Volume** Vrep(bbls)= BARREL otes: Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate			
Volume estimation was done using an excel based tool (see attached for details on the calculation) Reported spilled volume is an estimate	Estimated Paragraph Vision 11 Vision		
	Estimated Reported Volume** Vrap(bbls)= 1 BARR		
	Estimated Reported Volume** Vrep(bbls)= \ \BARR\ iotes: Volume estimation was done using an excel based tool (see attached for deta	EL	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
	Estimated Reported Volume** Vrep(bbls)= BARR Notes: Volume estimation was done using an excel based tool (see attached for detall and estimate)	EL_	
miletion of the personalise action at June have been been dealers for the first of	Sestimated Reported Volume** Vrep(bbls)= BARR Soles: Volume estimation was done using an excel based tool (see attached for deta Reported spilled volume is an estimate	tils on the calculation) use of spilt:	

Any spill volume in excess of 1 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.

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.

Version 2020/01

Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community) Page 5 of 8

INCIDENT NO: 2843235 JIV report S/N:0587

	100	186	100		
-1	General	Statue	n.	e bear	
u.	CHELLING	22141142		1116	2116

- i. Joint investigation of the incident site found that there is no residual impact after the initial response and JIT therefore recommend that the site be closed out
- ii. Investigation of the incident site showed that there is residual impact on site requiring further works

0

e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

- . Host Community:
- Department of Petroleum Resources [DPR]:
 □
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- The Shell Petroleum Development Company [SPDC]: □
- Separate DPR form has been filled out with same findings
- Separate NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

Tick as applicable

INCIDENT NO: 2843235 JIV report S/N0587

Appendix 1: Overview sketch of the site

Location: 4" IMO RIVER 2-1 TEST LINE AT I GIRUKWY	
2" IMO RIVER 2 TO IMO RIVER I HE PLANT 12" IMO RIVER TO PRUBU TRUNKLINE 16" NIKALI FS TO IMO RIVER 1 HG PLANT	Î
SPILL POINT (ON 4" TESTUME)	
4" IMOR 2-1 TEST LINE 2 IMOR 1-2 GASLIFT KINE	
IMPACTED ARRA Y SPDC RIGHT OF N	LAY.