JIV report S/N: 0917

INCIDENT NO: 2000 229

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: I. Spill incident Number: 2000229 2. Type of incident\* OIL SPILI 4. Name of nearest community (OMUNOBO) 5. State: RIVERS6, LGA IKWERRE 7. Type of Production facility/Installation OIL FLOWLINE PETROLEUM DEVELOPMENT COMPANY LIMITED/LAND EAST HUB B. INCIDENT INFORMATION: 9. Details of incident 9TH JANUARY, 2018 a. Date of incident: b. Start date/time of investigation: 6TH FEBRUARY, 2018/12:40 HOURS e. Investigation End date: 6TH FEBRUARYActual investigation duration, days: ONE (1) DAY d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area Under water Swampy Exposed pipe surface □ Well Platform (on Water) □Drill Rig Additional observations around the spill point: SPILL REMEDIATED SITE. THE ADJACENT AGBADA WELL IS FLOWLINE HAD ITS VALVE STILL IN e. Description of leak point (tick as applicable); Drilled hole Hack saw cut Tear ( ☐Complete Rupture ☐ Inward dent. ☐ Well head tampering ☐Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline Crude oil thest (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 Cold vent ☐ Surge vessel overflow, ☐ Valve Failure Relief valve failure ☐Accidental 3rd party equipment impact ☐ Corrosion ✓Others(specify) ► L VALVE THEFT UNKNOWN PERSON(S). f. Incident caused by: Third party interference (Sabotage d; crude theft□; Line theft□; Accidental 3<sup>rd</sup> party damage□) ☐ Mystery spills Others(specify)

<sup>\*</sup>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 coordin h. Measuring unit	ates WGS	84				
Northing:	LATITU		Easting:	LONG	ITUDE	
N4.9	4033		E 6.	1827	6	
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C. RISK ASSESSMEN	<u></u>			· <u>-</u> -		
10. Type of environ	ment;					
Land	☐ Swamp	□Water	Season	al swamp	Shoreline	:/Waterfront
i. Type o	f environment to v	vhich oil has sprea	nd:			
Land	☐ Swamp	□Water	□River (	identify)		_
ii. Weathe	er condition					
Rain	<b>✓</b> Sunny	□Dry □W	/et	y 🗆 Hot	Cool	
11. Distance from th	e nearest sensitive	habitat				
☐ Drinking ware ☐ Built up are ☐ Farmlands ☐ Fish Farm/☐ Fishing net	a		[ [ [ [	,m] ,m] ,m] ,m] ,m] ,m]		
12. Containment me	asures put in place	` ;			-	
Booms		Trench Dyk	ke 🔲 Natura	depression	□Pit	□None
ØOthers: NO	FREE-P	HASE OIL	WAS OF	SERVE	ED AT	SITE
13. Any pictures or v	video coverage?		[Y]	' [N]		
14. Further response	/repair initiated as	at the time of JIV	? [Y]	[ N]		
if yes to item 14. give brie	f description:	PLICA	BLE			
15. Was there any dis-	ruption to the investi	igation?	[Y]	ראו.		

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	11 yes to item	13 give oi	net descripti	APP	1101	ART.	<u></u>	-			_
	D. TYPE/N	UMBERS	OF PROP	ERTIES, IF	ANY, FOUND	WITHI	L N THE A	REA OI	F SPREA	D OF OIL	_
_	16. Struc	ctures / Pro e of Struc	perties	Description	Size	ļ	Number			Comments	7
-  -  -	NO	1E	W	THIN	AR	EA	TO	_	MP	ACT	
L 	<u>-</u>	s/Econom			) hat - 30	1					
	S/N Type	of crops	···	ung	Medium	Matı Å	nred NE	Qua	$\Lambda D \Delta$	Comments	
	MOIN	لا	4411	пих	ANL	Λ	VI		XII /	CI	$\exists$
F		ing Nets/Fi ets/Ponds	sh Ponds	Descrip	tion	Quantity	/Size		Commi	ents	$\exists$
	NON	E	TIW	HIN	ARE	A	10		APA	CT	
	19. Othe	ers (Specify	·) i.e. Anima	il Traps							
-	S/N	Others	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Descrip	tion	Quantity A	/Size		Commo	ents	
	1/01	1E	VVI	HIN	AK	A	V	<u>†</u>	MY	ACI	
_	the leak i	report, ove	rview sketch	of the site si	DINT (While a hould be added A WE	as an app	pendix I)	_			
_	CTIO! KU	SHoW	ING	EVIDE	ENCE C	F	Miss	SING	F	LOW LI	
	LVE	REM	OVED	BY	UNKN	NWO	PE	RSc	N(S)	).	
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	5	10	RIGINA MIS	L POST	TION (	7	0/	I/I	شتسنط وور		لمسلسل
	<b>-11</b>	\ F	LOWL	ED BY U		0	0		-		
1			PE	RSONIS	<u> </u>		BUN	N=E+	ANGE	INSTAL	. = >
FROM	AGBAD	A WE	LL 18		Page 3 of 8		BY TI	HE SI	PDC A	SSET OF	
To /	AGBADA	l TATIO	J					LEA	K Po	ТИТ	

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

20. Impacted area boundary Coordinates (If more, Print and attach as an appendix)

	Northing LATITUDE	
S/N	Northing LATITUDE	Easting Long, Tube
1.	4. 94 033	6.98276
2.	4. 94033	6.98277
3.	4. 94031	6.98276
4.	4.94030	6.98275
5.	4. 94029	6.98275
<i>5</i> ·	4. 94030	6.98275 6.98275 6.98273
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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
Total calculated area of impact	•
Impact within R.O.W TES	
b. Volume of oil recovered before completion of JIV (V <sub>red</sub> ):	
Recovered oil V <sub>rec.j</sub> ;	Barrels
Controlled recovery/evacuation from source with no impact to environment:    Barrels   Barrels	
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* = 0.06	
Estimated Reported Volume** Vren(bbls)= 0.1 BARREL	
Notes:  Volume estimation was done using an excel based tool (see attached for details on the calculation)  Reported spilled volume is an estimate	
Write other relevant notes taken into consideration for estimating the spilled in the box below:  APPLICABLE	
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation  Conversion of m' to barrels is Volume:(m3) x 6.29: **Round up estimated volume to next whole number using the following to any spill volume in excess of   I bbl   is rounded up to the next whole number:  Any spill volume in less than   I bbl   is rounded up to the next 0.1 bbl.	n software on site: vules:
Examples: Calculated volume = 15.3 bbl Reported volume = 16 bbl Calculated volume = 0.35 bbl Reported volume = 0.4 bbl Reported volume = 0.1 bbl	
Wherever this estimation tool is not applicable please refer to paragraph 6e (Deviations) of the JIV procedure to use a volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.	ppropriate steps for .

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A	C	P4 - 4	. C 41	-34.
a.	General	Status	or the	site

- 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



#### e. Representatives

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

- Host Community:
- Department of Petroleum Resuurces [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- Asset Owner:
- Signatories agree with reported findings:
- Separate DPR form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site

