JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1383004 JIV report S/N: 00876 (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: 1383004 2. Type of incident* OIL SPILL 3. Name of Location 16" NUN RIVER - KOLOCREEK PIRELINE 4. Name of nearest community OPO ROMA 5. State: BAKELSA 6. LGA SOUTHERN IJANI 7. Type of Production facility/Installation O1L PIPFLING Asset owner/District PIPFLING **B. INCIDENT INFORMATION:** 9. Details of incident
a. Date of incident: 17 H APRIL, 2015
b. Start date/time of investigation: 24 TH APRIL, 2015 /10:30 APRIL c. Investigation End date: 25 Th APRIL, 2015 Actual investigation duration, days: Two (2) 24-75. d. Description of spill point environment Recently excavated area Loose soil ☐Firmed soil **Swampy** Exposed pipe surface ☐Under water ☐Drill Rig ☐Well Platform (on Water) Additional observations around the spill point: e. Description of leak point (tick as applicable); Hack saw cut ☐ Tear (Drilled hole Complete Rupture ☐Inward dent, ☐Well head tampering ☐Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve, Failed Clamp ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, Third party tampering with flange, ☐ Third party tampering with valve setting, ☐Surge vessel overflow, ☐ Corrosión ☐ Saver-pit over flow. Flare System/Bund wall failure Accidental 3rd party equipment ☐Bulging Outward ☐Valve Failure Com unit failure Cold vent impact Relief valve failure Others (specify) f. Incident caused by: ☐Third party interference (Sabotage☐, crude theft☐; Line theft☐; Accidental 3rd party damage☐) ☐ Operational Others (including Mystery spills)

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

NT INVESTIGATION F	EPORT FOR IN	CIDENT NO:	13830	70 4 JIV rep	ort S/N:	0087
g. Spill point coo Measuri			Was	84		
Northing:		ານປະວ		Cardina.	on Gitzy	つ と)
	1.013	<u> </u>		<u></u>	11870	<u> </u>
	4'012	42		<u> </u>	11016	
						_
C. RISK ASSESSMI	·					
10. Typ	e of environment:					
Land	Swamp	□Water	□ Seas	sonal swamp	Shoreline/Wa	terfront
i, Type	of environment to	which oil has s	spread:			
	Swamp	_		/! d		
□Land	•	□Water	LIKive	er (identify)		
ii. Weat	her condition					
□Rain 11. Distance from	Sunny the nearest sensitive	Dry ve habitat	□Wet	□Windy	□Hot	□cool
Drinking Built up a Farmland Fish Farn Fishing n Others (s	rea NOM s ^{1/Pond} WII	e se mm vi		[m, m] [m, m] [m, m] [m, m] [m, m] [m, m]		
•	measures put in pla	ıce;				
□Booms □Others:_	Trench	Dyke	Nat	ural depression	□Pit	None
13. Any pictures	or video coverage?	(1·7)		[N]		
14. Further respo	onse/repair initiateo	d as at the time	ar IIV?	139 [N]		
If yes to item 14, give bri	ef description:	tover2	1 ASI	WILES	0N 61	ING.
REPAIR W	AS DON	+ 134		rpinig.		
<u> </u>	disruption to the i				ſ	
	<u>-</u>	, conganon:		r v J 🏊 7	I	
If yes to item 15 give b	oriet description:					
7/0	A P?	VLIC	AN	LE		

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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
A	lone h	MAIN	A	REA 1	OF IMPACT
	TOTA V			<u> </u>	

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
λ	one	LITHIA	AR	CA O	TIPH	MeT

18. Fish/Nets/Ponds

S/N Fish/Nets/Ponds	Description	Quantity/Size	Comments	,
MONE	Whitmy	AREA	OF-	IMPACT

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

S/N	Others	Description	Quantity/Size	Comments	
	YONE	dinhin.	PREA	OF SMIPHES	

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the

overview sketch of the site should be added as an appendix 1)

ILLEGAL LONGRETE

FROM NUM RIVER THOUGHT OCKECK.

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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)	84
S/N	(CHS(IN()) COMMITTEE CO	CONDITION OF THE PERSON OF THE
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	6.11845	4.81318 4.81313
	6.11876	4.81335
	6.11876 6.11872	4.81345
	6.11876	4.81347
	6.11879	4.81339 4.81381 4.81385
	6,11980	4-81381
	6.11989	4.81385
	6-12000	4.81388
	6.12016	4.81396
	6.11980 6.11989 6.12000 6.12016 6.12032	4.81388 4.81396 4.81399
	6·120 44	4 81404
	6.12043	4-81404
•	6-12047 6-12050 6-12048	4.81400
	6-12050	4-81410
	6-12048	4.81412
	6.170.23	4.81413
	6-12057	4.81410
	6-12066	4.81413
	6-12070	4-81409
	6.12046	4.81414
-	6.12050	4.8416
-		
		·

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- 20. Impacted Area Details
 - Total calculated area of impact 0.26#a
 - Impact within SPDC R.O.W
 YES
- 21. Volume of oil recovered before completion of JIV (V_{recJ}):

Recovered oil V_{rec.J}: D Barrels

Controlled recovery/evacuation from source with no impact to environment:

Mil Barrels

22. Net Estimated Spilled Volume V_{Est}(bbls)* =

71 · 46 BARRELS

Estimated Reported Volume** V_{rep}(bbls)=

72 BARRELS

*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:

Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation software on site; Conversion of m^3 to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following rules:

- Any spill volume in excess of: I 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.

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23. GENERAL STATUS OF THE SITE

Γ	Α.	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
	В.	Investigation of the incident site showed that there is residual impact on site requiring further works

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]:
- Sheil 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

