JIV report S/N: 1052

INCIDENT NO: 2067472

(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: 2067472 2. Type of incident* OIL SPILL 3. Name of Location 14" OKORDIA - RUMLIEKPE (TRUNKLINE) PIPECINE 4. Name of nearest community NKPELIEDE 5. State: RIVERS 6. LGA Atto ADA WEST-7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITED | PIPELINE B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 28Th APRIL 2018 b. Start date/time of investigation: 5th MAY 2018 c. Investigation End date: 6th MM, 2018 Actual investigation duration, days: TWO(2) DAYS d. Description of spill point environment Loose soil □Firm soil Recently excavated area Swampy ' □Under water DExposed pipe surface ☐Well Platform (on Water) □Drill Rig Additional observations around the spill point: APPLICABLE e. Description of leak point (tick as applicable); Strilled 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 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 □Cold vent ☐ Surge vessel overflow, ☐ Valve Failure Relief valve failure Accidental 3rd party equipment impact ☐ Corrosion Others(specify)_ f. Incident caused by: ☐ Third party interference (Sabotage); crude theft □; Line theft □; Accidental 3rd party damage □) □Operational ☐ Mystery spills Others(specify)

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

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g. Spill point coordin	ates		<i>c</i>				
h. Measuring unit		WG5	84				
Northing:	LATITION		E	asting:	DN GITTU	7=	
	27 11 10E		-				
	<u>· 05-069</u>)(X)		<u>. U</u>	<u>6533</u>	20	
					- -		 -
							-
			_				
C. RISK ASSESSME	NT	•					
10. Type of environ	ment:			_			
Land	☐ Swamp	□Water		Seasonal s	swamp 🗆	Shoreline/V	Vaterfront
i. Type o	of environment to	which oil has sp	read:				
□Land	Swamp	□Water		□River (ide	ntify)		-
ii. Weath	er condition				,		
Rain	Sunny	□Dry □] Wet	□Windy	⊠Hot	Cool	
11. Distance from t	he nearest sensitive	e habitat					
☐ Governme ☐ Drinking w ☐ Built up ar ☐ Farmlands ☐ Fish Farm ☐ Fishing ne ☐ Others (spe	ea /pond t	ignated protecto	ed area	[[[[,m] ,m]	ONE S VITHIN	1
12. Containment m	easures put in plac	e;		,			
Booms		Trench	/ Dyke	Natural d	epression	₽it	□None
Others:							
13. Any pictures or	video coverage?			[Y]	[N]		
14. Further respons	se/repair initiated a	s at the time of	JIV?	[Y] /	[N]		
if yes to item 14. give bri	_						
RECCYERY	AND C	REPAIR	_No	ORK B'	1 CL	MIPIN	G
	(401 M (4						
15. Was there any d		stigation?		[Y]	[N2		

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If yes to item 15 give brief description:
NOT APPLICABLE
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
HAUNE MINTH AKEA OF IMPACT
17. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments
S/N Type of crops Young Medium Matured Quantity Comments
NONE WITHIN AREA OF IMPACT
18. Fishing Nets/Fish Ponds
S/N Nets/Ponds Description Quantity/Size Comments
NONE WITHIN AREA OF IMPACT
19. Others (Specify) i.e. Animal Traps
S/N Others Description Quantity/Size Comments
NONE WITHIN ARLA OF IMPACT
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 l)
CTIONAL VIEW OF 14" OKORDIA - RYMUEKPE (TRUNKLINE) PIPEL
IT UKPELIEDE SHOWING! - LEAK DUE TO 10 mm BRILED +
LA NIM
CAUSE OF LEAK IS DUE TO 10 MM
AREA AROUND SPILL DRILLED HOLE AT 12'O CLOCK POSITIO
POINT WAS OBSERVED
Σ∈(°Σ∈Σ)
74- 1
OKORDIA - RYMUEKPE PIPELINE.

INC NO.: 2018_2067472

		118_200747		27 10		
PT_ID		LAT_Y	LONG_X	-	LAT_Y	LONG_X
SP		5.089			5.0891	
	66		6.53371	115		
	67		6.53365	116		6.53335
	68	5.08898		117		
	69		6.53354	118		
	70	5.08908		119		
	71	5.08886		120		
	72	5.08883		121		
	73	5.08884		127		
	74	5.08885		123		
	75	5.08887		124		
	76	5.0889		125	5.0889	6.53356
	77	5.08893				
	78	5.08893				
	79	5.08893	6.5333			
	80	5.08896	6.53328			
	81	5.08901	6.53325			
	82	5.08901	6.53328			
	83	5.08901	6.5333			
	84	5.08901	6.53335	•		
	85	5.08898	6.5334			
	86	5.08896	6.53344			
	87	5.08898	6.53346			
	88	5.08902	6.53342			
	89	5.08906	6.53336			
	90	5.0891	6.53329			
	91	5.08917	6.53318			
	92	5.08928	6.53302			
	93	5.08933	6.533			
	94	5.08948	6.53278			
	95	5.0895	6.53279			
	96	5.08948	6.53284			
	97	5.08947	6.53291			
	98	5.08945	6.53297			
	99	5.08949	6.53296			
;	100	5.0895	6.53299			
	101	5.08948	6.53299			
	102	5.08944	6.53299			
	103	5.08943	6.53302			
	104	5.08933	6.53312			
	105	5.08928	6.53323			
	106	5.08928	6.53325			
	107	5.08931	6.53328			
	108		6.53329			
	109		6.5333			
	110					
	111					
	112	5.08914	6.5334			

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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)

S/N	Northing	Easting
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		A
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		15
	<u> </u>	<u> </u>

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G. INCIDENT INFORMATION:	
a. Impacted Area Details	
• Total calculated area of impact 0.13.2 €; HA	-
• Impact within R.O.W YES	
• Impact outside R.O.W	-
b. Volume of oil recovered before completion of JIV (V _{recJ}): Recovered oil V _{recJ} : N	Barrels
Controlled recovery/evacuation from source with no impact to environment: NIL Barrels	
c. Net Estimated Spilled VolumeV _{Est} (bbls)* =	
399.60 BARRELS	
Estimated Reported Volume** Vrey(bbls)= 400 BreekLS	
 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 spitled in the box below:	LE
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimated conversion of m ² to barrels is Volume:(m3) x 6.29: **Round up estimated volume to next whole number using the followin Any spill volume in excess of 1 bbl is rounded up to the next whole number:	tion software on site: ng rules:
 Any spill volume in less than l 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 6e (Deviations) of the JIV procedure to us volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.	e appropriate steps for .

INCIDENT NO: 20674-72 JIV report S/N: 1052			
d. General Status of 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			
c. 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

