INCIDENT NO: 2065596 JIV report S/N: 0955

(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: 2065596 2. Type of incident\* OIL SPILL 3. Name of Location 20" KOLO CREEK - RUMMEKPE (TRUNKLINE) PIPELINE 4. Name of nearest community ODAU (KM9) 5. State: RIVERS 6. LGA ABUA ODUAL 7. Type of Production facility/Installation OIL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA. B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 25th April, 2018 b. Start date/time of investigation: 2974 JUNE, 2018 AND e. Investigation End date: 4th July, 2818 Actual investigation duration, days: Two Days d. Description of spill point environment MLoose soil □Firm soil MRecently excavated area Swampy ' Under water Exposed pipe surface ☐Well Platform (on Water) ☐Drill Rig Additional observations around the spill point: THE JOINT INVESTIGATION TEAM DESERVED THE LEAK POINT OUTSIDE SPOC RIGHT OF WAY ON A 2" PIPE CONNECTED TO THE THEFT POINT, ILLEGALLY INSTALLED ON THE 20" KOLOCREEK - RUMBERPE PIPELINE AT ODAY (KMG). 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 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)\_

☐ Mystery spills

f. Incident caused by:

☐ Operational

☐Third party interference (Sabotage☐; crude theft☐; Line theft☐; Accidental 3rd party damage☐)

☐ Others(specify)

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire,

INCIDENT NO: 2065596 JIV report S/N: 0955 g. Spill point coordinates h. Measuring unit MGS. Northing: Easting: **A**TI TUDE LONGITUDE C. RISK ASSESSMENT 10. Type of environment: Land Swamp ■ Water Seasonal swamp ☐ Shoreline/Waterfront Type of environment to which oil has spread: Swamp Land □Water ☐River (identify). ii. Weather condition **⊠**Rain **™**Wet<sup>\*</sup>  $\Box$ Drv Sunny Windy □Hot 11. Distance from the nearest sensitive habitat □ Government reserved and designated protected area Drinking water source [rn, ☐ Built up area ,m) □ Farmlands ,m) ☐ Fish Farm/pond ☐ Fishing net □ Others (specify). 12. Containment measures put in place; Dyke Matural depression Booms Trench Pit None Others:... INI VYI 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? if yes to item 14, give brief description: RECOVERY SPILLEDCRUDE TEMPORALY Oil CNETCCNG THISY 15. Was there any disruption to the investigation? [Y] [N]

INCIDENT NO: 2065596 JIV report S/N:0955 If yes to item 15 give brief description: D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Type of Structures Description Size Nuniber Comments 17. Crops/Economic Trees Type of crops Young Medium Matured Quantity Comments 18. Fishing Nets/Fish Ponds S/N Nets/Ponds Description Quantity/Size Comments 19. Others (Specify) i.e. Animal Traps S/N Others Description Quantity/Size Comments 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 I) VIEW OF ZO" KOLOCREEK - RYMYEKPE (TRYNKLINE) AT ODAY SHOWING: LEAK DUE TO 3" BALL VAIVE THEFT FITTING BY UNKNOWN PERSON (S) POSITION 3" REDUCE TO 2" ELBOW. 2" PIPE 3" PIPE EXTENSION IN TO. NON LEAKING POINT. CONNECTION THE FLREST 3" BAI VAIVE INSTALLED AT 12 of CLOCK POSITION 3" NIPPLE Page 3 of 8 KOLGCREEK - RUMYEKPE PIPELINE.

LAT_Y	LONG_X
4.92821	6.43668
4.92836	6.4366
4.92842	6.43658
4.92866	6.43639
4.92906	6.43618
4.92981	6.43592
4.9299	6.43613
4.92988	6.43673
4.93024	6.43692
4.93029	6.43701
4.93019	6.43717
4.93006	6.43726
4.9299	6.43737
4.92982	6.43757
	6.43776
4.92951	6.43779
	6.4379
	6.43823
	6.43883
	6.43896
	6.43914
	6.43924
	6.43949
	6.43949
	6.43951
	6.44234
	6.442371
	6.442295
	6.441705
	6.441596
	6.439568
	6.436668
	6.441643
4.928238	6.436613
	4.92821 4.92836 4.92842 4.92866 4.92906 4.92981 4.92988 4.93024 4.93029 4.93019 4.93006 4.9299 4.92959 4.92959 4.92951 4.92931 4.92901 4.92902 4.9288 4.92913 4.92875 4.92831 4.928826 4.929231 4.928502

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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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G. INCIDENT INFORMATION:
a. Impacted Area Details
Total calculated area of impact  Impact within R.O.W  Impact outside R.O.W  TES  TES
b. Volume of oil recovered before completion of JIV (V <sub>recJ</sub> ):  Recovered oil V <sub>recJ</sub> :  Barrels
Controlled recovery/evacuation from source with no impact to environment:
NIL Barrels
c. Net Estimated Spilled VolumeV <sub>Est</sub> (bbls)* =
388 32 BARRELS
Estimated Reported Volume** Vred(bbls)= 389 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:  * THE JOINT INVESTIGATION TEAM OBSERVED ABOUT 75%  OF THE IMPACTED AREA WAS BURNT BY UNKNOWN PERSON  * OID IMPACTED AREA FROM PREVIOUS INCIDENT WAS  OBSERVED RE-IMPACTED.
<u> </u>
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 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   t bbt   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.
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 use appropriate steps for volume estimation: record the calculation in a plain sheet of paper and attach to the JIV report.

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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 Ji 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 applicab

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f. Appendix 1: Overview sketch of the site

