INCIDENT NO: 2601407 JIV report S/N: 0567

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

A. GENERAL INFORMATION:							
1. Fountain Incident Number: 2801407 2. Type of incident* OIL SPILL							
3. Name of Location 12" MB RWER 2	1-0 GALE PIPE	ELINE AT UMUOLOLO					
4. Name of nearest community UMUDLOLD		6. LGA 2/KWAWEST					
7. Production Facility/Installation PIPELINE							
8. Asset Owner/Hub ItE SHELL PETROL NI GERIA LIMITE B. INCIDENT INFORMATION:	EUM DEVELOF	MENT COMPANY OF					
B. INCIDENT INFORMATION:	DISPOS / PIPE	ELING					
9. Details of incident a. Date Reported: 12th MARCH, 202 b. Start date/time of Investigation: 2th MARCH c. Investigation End date: 141th MARCH	It, 2020 1200HF						
d. Description of spill point environment  ☐Firm soil  ☐Loose	ooil	☐Recently excavated area					
☐ Under water ☐ Swamp ☐ Well Platform (on water) ☐ Drill R		☐Exposed pipe surface ☐Sand bag(s)					
		Lisand bag(s)					
Additional observations around the spill point: SAND BAGS AND RA	-GS						
e. Description of leak point (tick as applicable);							
Smooth round-edge hole	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	Cold vent	☐ Surge vessel overflow,					
☐ Valve Failure	Relief valve failure	Accidental 3rd party equipment impact					
Tear ()							
Others (specify)							
f. Incident caused by:							
Third party interference (Sabotage □; crude theft □; Line theft □; Accidental 3 <sup>rd</sup> party damage □)							
Operational Others (including Mystery spills)							

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

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h. M	leasuring unit Northing:		N93 a	Easting:		
	4.94	1526		7.184	482	
	C ASSESSMENT  Details of Environ	nment				
i.			spill occurred (selec	et one):		
	Land	Swamp	□Water	Seasonal swar	np 🗖 Shore	line/Waterfront
ii.	Type of envir	onment to which	ch oil has spread:			
	Land	Swamp	☐Waterbody (sp	ecify)		
iii.	Weather cond	lition				
	<b>⊠</b> bry	□Wet	□Windy	□Hot		
11. l	Distance to Sensit	tive habitat with	hin 100m radius			
	☐ Government r ☐ Drinking wate ☐ Surface v ☐ Built up Area ☐ Resident ☐ Farmlands ☐ Fish Farm/Por ☐ Fishing net ☐ Others (specif	er source water □Bo ial Area □Co	gnated protected area rehole mmercial/Industrial Are	[ ,1 a	n] NON- n] Wiff n] OF	E SEEN tin Area Impact
12. (	Containment measu	res put in place:				
	□Booms □Tre	ench Dyke	☐ Pit ☑Natural	depression  \text{No.}	ne	
	Others:					
13. <i>A</i>	Any pictures or vide	eo coverage?		[N]		
14.	Further response/re	pair initiated as	at the time of JIV?	[N]		
to ite	em 14, give brief descr CLAMP ()		GOING A	NB SPILL	RESP	onst-

INCIDENT NO: 2601407 JIV report S/N: 0567 15. Was there any disruption to the investigation? [Y] If yes to item 15 give brief description: 16. Was JIV delayed? Reason(s): ☐ Delayed Community Access Approval ☐ Security Challenges Access constraint due to terrain Others (specify) D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 17. Structures / Properties S/N | Type of Structures Description Size Number Comments 18. Crops/Economic Trees S/N Type of crops Young Medium Matured Quantity Comments 19. Fish/Nets/Ponds Fish/Nets/Ponds Description Quantity/Size Comments 20. Others (Specify) e.g. Animal Traps S/N Others Description Quantity/Size | Comments E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, overview sketch of the site should be added as appendix 1) A SECTION OF 12" IMD RIVER 2-OGALE PIPELINE AT UMUDLOLO SHOWING TWO (2) NOS I" VALVE 120'CLOCK POSITION BY LINKHOWN PERSON(S) 2 NOS MYALVE INSTALLED 5M APART AT 120'CLOCK POSITION BY UNKNOWN PERSON(S). 1211 OCALLY FABRICATED CLAMP BY U 12" marrian -

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

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

S/N	Northing	Easting
1	4.94521	7.18477
2	4.94521	7.18470
3	4.74520	7.18457
4	4. 94518	7.18453
5	4.94519	7.18448
6	4.94525	7.18443
7	4.94526	7.18446
8	4.94527	7.18447
9	4.94322	7.18456
	4.94524	7.18464
	4.94527	7.18475
, ,	4.94530	7. 18484
	4.94525	7.18485
14	4.94519	7.18485
		·P
		15
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	/ / //	
		A STATE OF THE STA

INCIDENT NO: 2601407 \_\_ JIV report S/N: 0567 G. INCIDENT INFORMATION: a. Impacted Area Details \* Total calculated area of impact (Ha) O · O 3 HA Impact within SPDC R.O.W\_\_\_\_ Impact outside SPDC R.O.W \* Round off to 2 decimal places if area is  $\geq$  100 m² or to 4 decimal places if area is  $\leq$  100 m² (e.g. 14.55, 0.0051, 0.0009) \* Express in Hectares (Ha) b. Volume of oil recovered before completion of JIV  $(V_{recJ})$ : Recovered oil VreeJ: Barrels Controlled recovery/evacuation from source with no impact to environment: Barrels c. Net Estimated Spilled Volume VEst(bbls)\* = 2. 24BARRELS Estimated Reported Volume\*\* Vrep(bbls)= 3BARRELS \*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 volume estimation or cause of spill: NO/APPLICABLE 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 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. Examples: Calculated volume = 15.3 bbl ----- Reported volume = 16 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.

Calculated volume = 0.35 bbl ----- Reported volume = 0.4 bbl

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d.	General	Statue	of the	cita
	CA PRINCIPLE	CERTERIA	UPR EXEC	SHEET

- 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

### U

#### 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 NOSDRA form has been filled out with same findings
- Separate SME form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site

