INCIDENT NO: 2677135 JIV report S/N:

0631

(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: 2677135 2. Type of incident* OIL SPILL 3. Name of Location 12" IMO RIVER - OGALE PIPELINE 4. Name of nearest community UMUDLOLO 5. State: ABIA 6. LGA UKWA WEST 7. Production Facility/Installation _____ OIL PIPELINE 8. Asset Owner/Hub THE SHELL PETROLEUM DEVELOPMENT COMPANY B. INCIDENT INFORMATION: 9. Details of incident a. Date Reported: 30TH JUNE 2020 b. Start date/time of Investigation: 1ST JULY 2020 17:10HRS c. Investigation End date: 1ST JULY 2020 Day(s) on site: ONE (1) DAY d. Description of spill point environment Firm soil Recently excavated area Loose soil Under water Swampy Exposed pipe surface Well Platform (on water) Drill Rig Sand bag(s) Additional observations around the spill point: 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 \square ; crude theft \square ; Line theft \square ; Accidental 3rd party damage \square)

Others (including Mystery spills)

Operational

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

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Blue (Host Community)

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	Northing:			Easting:	
	4.9	3851		7.184	72
C. RISI	K ASSESSME	NT			
	Details of Env				
i.	Type of er	nvironment where	spill occurred (se	lect one):	
	Land	Swamp	□Water	Seasonal swamp	Shoreline/Waterfrom
ii.	Type of er	nvironment to whi	ch oil has spread:		
	Land	Swamp	□Waterbody (specify)	
iii.	Weather c	ondition			
	Dry	□wet	□windy	□Hot	
11, 1	Distance to Se	nsitive habitat wit	•		
	□ Drinking v □Surfi □ Built up A	ace water Book.rea dential Area Cook /Pond t	ignated protected ar orehole ommercial/Industrial A	[,m]	
12. C		asures put in place:			
		Trench Dyke	Pit Natura	al depression None	
	Others:				
13. A	ny pictures or v	ideo coverage?		[W] [N]	
14. F	urther response	e/repair initiated as a	at the time of JIV?	[X]	
				- 4 - 1	

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15 Was those and discussion to the in-	actication?	[Y] [W]	
15. Was there any disruption to the invented of the invented of the state of the st	esugation?		
if yes to item 13 give oner description.	1.00	- 0 10 :	-
NOT	APPL	TCARTI	
16. Was JIV delayed? [Y] [N]		
Reason(s): Delayed Community Access Approve Others (specify)	al Securit	y Challenges	ess constraint due to terrain
D. TYPE/NUMBERS OF PROPERTIES 17. Structures / Properties	S, IF ANY, FO	UND WITHIN THE AR	EA OF SPREAD OF OIL
S/N Type of Structures Description	Size	Number	Comments
BUILDING LETED 18. Crops/Economic Trees	\ \	2	IMPACTED
S/N Type of crops Young	Medium	Matured Quanti	ty Comments
NONE WITHIN 19. Fish/Nets/Ponds	ARE	A OF IM	PACT
S/N Fish/Nets/Ponds Description		Quantity/Size Commen	its
NONE WITH	NARE	AOFIM	PACT
20. Others (Specify) e.g. Animal Traps S/N Others Description		Quantity/Size Comme	nte
NOME WITTH	TATAR) F A O F 71	1010
E. GRAPHIC DESCRIPTION OF LEAK POINT the leak report, overview sketch of the site show	IN AK	KEA UF IN	MPACI
in the leak report, overview sketch of the site shou	ld be added as	appendix ()	point should be contained
AT UMUDIDIO SHOWI	NG A 3	"BALL VAL VE	FIRELINE
NITH AN ELBOW AT A	12 O'C	LOCK POSITION	NRY YMKNOWN
ERSON(S)			
	623		
	78		
4/		3" BALL VALVE IN BOW AT A 120'C	LETALLED WITH AN
12")] 12°
IMO RIVER T	OGA	LE	
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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)

SN	Northing	Casting
	4.93872	7-18469
2	4.938.64	7.18470
3	4. 93860	7.1847/
9	4.93855	7.18472
5	4.93849	7.18474
6	4.93844	7.18462
7	4. 93850	7.18465
8	4. 93851	7.18454
9_	4.93855	7.18450
10	4. 93858	7-18454
11	4.93854	7.18457
12	4.93854	7.18466
13	4.93872	7.18467
	management of the second of th	
-		
	and the second s	
/	I the first the same and the sa	

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I	Arma Details *	
	Area Details *	
• т	Foral calculated area of impact (Ha) 0.024 HA	
	mpact within SPDC R.O.W	
	V==	
• 11	impact outside SPDC R.O.W [Impact outside SPDC	0.0051. 0.0009)
und off to 2 decii press in Hectare:	mal places if area is \$ 100 m or to 4 decimal places if area is \$ 700 m (\$ \$ \$ 700 m).	
	to the completion of HV (V - A):	
. Volume of	foil recovered before completion of JIV (Vrest): Recovered oil Vrest: N. 7.1	Barrels
	The same and the s	
Controlled re	ecovery/evacuation from source with no impact to environment:	
	NTL Barrels	
c. Net Estin	nated Spilled Volume V _{tal} (bbls)* = 1.83 BARRELS	
c. Net Estin	mated Spilled Volume Vtu(bbls)* = 1.83 BARRELS	
c. Net Estin	mated Spilled Volume V _{tal} (bbls)* = 1.83 BARRELS	
al and a second	orted Volume** Vrcp(bbls)= 2 BARRELS	
al and a second		
stimated Repo	orted Volume** Vrcp(bbls)= 2 BARRELS	
stimated Repo	imation was done using an excel based tool (see attached for details on the calculation)	
stimated Repo	orted Volume** Vrep(bbls)= 2 BARRELS imulion was done using an excel based tool (see attached for details on the calculation) pulled volume is an estimate	
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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^1 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 bt1 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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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

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 DPR form has been filled out with same findings
- 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

