JIV report S/N:0020

INCIDENT NO: 21 25 779

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: I. Spill incident Number: 2125779 2. Type of incident* OIL SPILL 3. Name of Location 20" KOLD CREEK - RUMUEKPE (TRUNKLINE) PHELINE 4. Name of nearest community <u>RUMUEKPE</u> 5. State: <u>RINERS</u> 6. LGA <u>EMOHUA</u> 7. Type of Production facility/Installation OLL PIPELINE 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA **B. INCIDENT INFORMATION:** 9. Details of incident a. Date of incident: 20th July, 2018 b. Start date/time of investigation: 25th July, 2018 c. Investigation End date: 26 The July, 2018 Actual investigation duration, days: Two Date d. Description of spill point environment ☐Firm soil Loose soil Recently excavated area ☐Under water □ Swampy ☐Exposed pipe surface ☐Well Platform (on Water) ☐Drill Rig Additional observations around the spill point: THE JUINT INVESTIGATION TEAM OBSERVED AN ILLEGAL 2" PIPE CONNECTED TO THE THEFT FITTING INSTALLED AT 12'S CLOCK POSITION ON THE 20" KCTL AT RUMHERPE BY UNKNOWN PERSON (S). THE SPILL POINT WAS OBSERVED OUTSIDE SPACE RIGHT OF WAY ON THE 2" PIPE e. Description of leak point (tick as applicable); ☐ Drilled hole ☐ Tear (☐ Hack saw cut ☐ Inward dent Complete Rupture ☐ 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 Cold vent ☐ Surge vessel overflow ☐ Flare System/Bund wall failure Relief valve failure ☐ Valve Failure Accidental 3rd party equipment impact ☐ Corresion ☐ Others(specify) f. Incident caused by: ☐ Third party interference (Sabotage□; crude theff☐; Line theff☐; Accidental 3rd party damage☐) ☐Operational ☐ Mystery spills ☐ Others(specify)

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire. Version 2018/01
Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community).

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s. Spill point coordinates	
Measuring unit (WG-S 84)	• • • • • • • • • • • • • • • • • • •
Northing: LATITUDE	Easting: LONGITUDE
1, 00	
4.9807 (NM)	6-67949 (EM)
RISK ASSESSMENT	
10. Type of environment:	
☐Land ☐Swamp ☐Water	Seasonal swamp Shoreline/Waterfro
i. Type of environment to which oil has spread:	· · · · · · · · · · · · · · · · · · ·
5/ Do Dw	Dr. Gardes
□Swamp □Water	River (identify)
ii. Weather condition	
⊠Rain □Sunny □Dry □Wet	□Windy □Hot □cool
11. Distance from the nearest sensitive habitat	
☐ Government reserved and designated protected are	a [,m] NONE SEE
☐ Drinking water source	[,m]
☐ Built up area	[,m] (WITHIN
☐ Farmlands ☐ Fish Farm/Pond	[, ,m] VICINITY
☐ Fishing net	[/ ,m]
☐ Others (specify).	\mathcal{L}
12. Containment measures put in place;	
Booms DTrench Dyke	□Natural depression □Pit □
	•
☐Others:	
13. Any pictures or video coverage?	[N] YY]
14. Further response/repair initiated as at the time of JIV?	[N] YY]
es to item 14, give brief description:	
EMPORARY REPAIR BY BLIND	FLANGING COMPLETED
IHILE RECOVERY WORK 15 ONGO	ING.
15. Was there any disruption to the investigation?	[Y] [N]
i was the bit the bound of the alternation.	1 L

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If yes	to item 15 give b	rief descri	ption:		· • ·			
	NO	1	APP	LICA	4BLE	- -	 .	· ·
D. T	YPE/NUMBER:	S OF PRO	PERTIES, IF	ANY, FOUN	D WITHIN THE	AREA OF SPI	READ OF O	<u> </u>
S/N	Type of Struc		Description	Size	Number	Com	ments	
	ONE	W	THIN	AR	EA ()F IM	PAC	
S/N	7. Crops/Econom Type of crops			Medium	Matured	0	<u> </u>	·
5414	Type of crops	Todag		Michigan	Matured	Quantity	Comment	<u>rs</u>
N	ONE	M	THIN	AR	EA 0	E M'	PAC.	
18	3. Fishing Nets/F	ish Ponds					•	
S/N	Nets/Ponds	<u> </u>	Description		Quantity/Size	Comments		
N	ONE	M	HIN	AR	EA O	FIM	PAC	
19	Others (Specif	y) i.e. Ani	imal Traps					
.S/N	Others	<u>D</u>	escription	: ,	Quantity/Size	Comments		
N	ONE	M	THIN	AR	EA (FIM	PAC	
E. GF	 RAPHIC DESCI	RIPTION	OF LEAK PO	INT (while de	tailed report of th	e leak point sho	uld be contai	ned in
the lea	k report, overvie	w sketch o	f the site should	be added as a	n appendix I)			
<u> عادد</u> - ۱	T RUMUR	YS S	11-12-16	slockets	C-RUMYE	KRE (TRUM	IKTINE)	PIPELINE
7	INSTALL	ED K	1 12 0 CL	<u>өне (() <</u> _ck Рос	3" BAIL VAID ITION BY (<u>e Flange</u> Inknowe	FITTING PERSON (8)	<u>£</u>
		24 0	L VAIVE			A		
		(THEFT	- FITTING)	1	_3" PIPE Connection.	2" PIPE COMMEST	on	SPILL Point
+	,,			797				hours (
20" KCIL		<u>.</u>	-)			0	20" KCTL
		. K	preceek-	- Rumu ∈i	GE PIPELIN	16 ·	.	# . • .

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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
745	4.98078	6.6795
746	4.98001	6.67731
747	4 . 97969	6 67664
742	4.9789	6.67682
749	4 97888	6.67663
750	4.979	6 67646
751	4.9794	6 67636
752	4: 97947	6 - 67638
753	4.97961	6.6764
754	4 97968	6.67641
755	4 97971	6.67624
756	4.97967	6.676
757	4.97969	6 - 6761
758	4 · 97943	6.67614
759	4.97947	6 676
760	4.97935	6.67772
761	4.98=48	6.67973
762	4-97975	6.67877
763	4 98631	6.67992
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	
	· · · · · · · · · · · · · · · · · · ·	·

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INCIDENT INFO	RMATION:	
. Impacted Are	a Details	•
T .4.	3.2 11-	
•	l calculated area of impact 3 3 Ha	 .
_	act within R.O.W LES act outside R.O.W	
-	recovered before completion of JIV (Vreel):	
· volume ox on	79 (c. 1977) 1 1 1 1 1 1 1 1 1	Barrels
Controlled recov	very/evacuation from source with no impact to environ	
	MIL Barrels	
c. <u>Net Estimat</u>	ed Spilled Volume V _{Est} (bbls)* =	
	468 57 Brees	-LS
stimated Reported	Volume ** Vree (bbls)= 469 BARRELS	•
 Reported spilled 	on was done using an excel based tool (see attached for details on the call volume is an estimate notes taken into consideration for estimating the spilled volume in the bo	x below:
nversion of m³ to barrels	e estimated volume is to be done on site as far as practicable using the ne is Volume (m3) x 6.29; **Round up estimated volume to next whole num in excess of I bbl is rounded up to the next whole number.	
	· · · · · · · · · · · · · · · · · · ·	

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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 therefore recommend that the site be closed out	and JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Ŋ.
e.	Representatives	
Thi	is 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]:	
	• Asset Owner: 🛇	
	Signatories agree with reported findings:	
	Separate DPR form has been filled out with same findings□	
	Tick as app	olicable

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f. Appendix 1: Overview sketch of the site

