INCIDENT NO: 2544361 JIV report S/N:1030197

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

A. GENERAL INFORMATION:		to .	
1. Fountain Incident Number: 254436	2.Type of incide	ent* OIL SPILL	
3. Name of Location 12" MORIVE	RI - OGA	LE PIPELINE	
4. Name of nearest community UZUAKU	5. State: <u>ABIA</u> 6	.LGA UKWA-MEST	Ţ
7. Type of Production facility/Installation 🔘 11	PIPELINE		
8. Asset owner/District THE SHELL P	ETROLEUM I	DENELOPMENT CO	MPANY
8. Asset owner/District THE SHELL P. B. INCIDENT INFORMATION:	+ LIMITED /	PIPELINE	
9. Details of incident a. Date Reported: 6th JANUARY, b. Start date/time of investigation: 7th JANUARY, c. Investigation End date: 7th JANUARY, d. Description of spill point environment	2020 UAR 1, 2020 / I 020 Actual investigation durat	2.15HRS ion, days: <u>ONE (1)</u> DAY	
Firm soil ZLoose s	oil	Recently excavated area	
☐Under water ☐Swamp		Exposed pipe surface	
□Well Platform (on Water □Drill Ri	=		
Additional observations around the spill point: SAND BAGS kleat Of	35 eru ed		
e. Description of leak point (tick as applicable);	3		•
□Drilled hole	Hack saw cut	Tear (),
Complete Rupture Failed Weld-on illegal hot tap valve	☐ Inward dent,	Well head tampering	٠.
Crude oil theft (illegal bunkering) point,	Failed Clamp,	☐ Missing Pipeline/Flowline	i•
Third party tampering with valve setting	☐ Saver-pit over flow ☐ Bulging Outward	☐ Third party tampering with C☐ Third party tampering with fl	
☐ Flare System/Bund wall failure	Cold vent	Surge vessel overflow,	ange,
☐ Valve Failure	Relief valve failure	Accidental 3 rd party equipmen	ıt immaat
Others(specify)	TOTOL TUTY SOLUTO	Precidental 5 party equipmen	ir umbaer
f. Incident caused by: ☑Third party interference (Sabotage□; crude to □Operational □Others (including N	heftt, Line theft□; Accid	ental 3 rd party damage□)	

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire, g) non leaking Theft point removal Version 2019/01
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RISK ASSESSMENT 10. Type of environment: Mand	
10. Type of environment: Cand	
10. Type of environment: Cand	
10. Type of environment: Cand	
i. Type of environment to which oil has spread:	÷
	aterfront
ii. Weather condition Rain Dsumy Dry Dwet Windy Hot Cool	
□ Rain □ Sunny □ Dry □ Wet □ Windy □ Hot □ Cool 11. Distance to Sensitive habitat within 100m radius □ Government reserved and designated protected area [,m] □ Drinking water source	_
11. Distance to Sensitive habitat within 100m radius Government reserved and designated protected area [,m] Drinking water source [,m] Built up area Parollands Farmlands Fish Farm/Pond Fish Farm/Pond Fishing net Others (specify). 12. Containment measures put in place; Booms Trench Dyke Natural depression Pit Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of MV? 15. Further response/repair initiated as at the time of MV? 16. Further response/repair initiated as at the time of MV? 17. Further response/repair initiated as at the time of MV? 18. Further response/repair initiated as at the time of MV? 19. Further response/repair initiated as at the time of MV?	
Government reserved and designated protected area [,m] Drinking water source [,m] Built up area MONE SEEM [,m] Farmlands [,m] Fish Farm/Pond [,m] Fishing net [,m] Others (specify). 12. Containment measures put in place; Booms	
Drinking water source Built up area Farmlands Fish Farm/Pond Fishing net Others (specify). 12. Containment measures put in place; Booms Trench Dyke Natural depression Pit Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of MV? The proof of the place of t	
Booms	
Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of MV? [N] 15. to item 14, give brief description:	
14. Further response/repair initiated as at the time of MV? [N] so to item 14, give brief description:	E None
s to item 14, give brief description:	
$12 \in \mathcal{O}$ and $1 \neq 1 \neq 0 \neq 0$	
15. Was there any disruption to the investigation? [Y] [Y]	NAPOTONIA ALBERTA

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If yes to item 15 give brief description:

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	No	T ,	APPLI	CAB2	- C				
16	. Was JIV delay	/ed?				[Y]	(N)		
If	yes to item 16 gi	ve brief d	lescription:	40T AP	P2-71	MB I	LÈ		
D. T	YPE/NUMBER:	S OF PR	OPERTIES, IF	ANY, FOUNI) WITE	IN THE	AREA ()F SPR	EAD OF OIL
17 S/N	. Structures / Pr		Description	Size	Numl	ier		Comn	ients
}	Unale	1	251441	NO C-	h	nT	1 1	711/2 A1	
	YUME	K	1111111	MKC,		UT	118	175	
	Crops/Econon			Medium	Matu		Quanti	u (La Control de Contr	Comments
1	PALM TILE	-E		L.		——	2 1 Bun		IMPACTE BY
2	BAMIBOD TRE	<u> </u>					1 Dyn	1017	37 (
	Fish/Nets/Pon						1		
S/N	Fish/Nets/Pon	ds .	Description		Quanti	ty/Size	Commer	its	
A	DNE	W	17/11/	ARC	/\- -	OF	-) <i>]</i> \{	TPA	-CT
20	Others (Specif	y) i.e. A	nimal Traps					-	
S/N	Others		Description		Quanti	ty/Size	Comme	nts	
λ	ONE	W	177474	AR	A	OF	-))	VIP,	ACT
E. GR	APHIC DESCR	RIPTION	OF LEAK PO	INT (while det	ail repo	rt of the l	eak point	should l	be contained in the
	port, overview s								
NDE O	il THEFT	POIN	175 INSTA	HED AT	120	O'CLC	cic Po	25171	ont.
المنطق بالمار		BALL	VALVE POINT				3" î	34L2	NAZVE
UCRETE CAST~	_	- WT/F	1 Poingi			PR [
₽ ⁄		O.			· · · · · · · · · · · · · · · · · · ·		-		: A
2"				40 CM		→		,) 1211
1/\₩		···········	-				·····		/ √
	FROM IN		VERT T	O DGA	 >				

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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 an appendix)

S/N	Northing	Easting
1	4-89726	7:78768
2	4.893259	7.178709
3	4.897261	7.178689
<u> </u>	4.897284	7:178671
5	4-897297	7-178767
G	4.877296	7-178799
7	4.877272	7.178803
8	4897274	148851.5
9	4-897275	7.178871
io	4897271	7.178900
11	4-897235	7-178873
12	4.897224	7-178854
13	4-897-233	7.172838
14	4.897234	7.178818
15.	4.89-7261	7.178824
16	4-897269	7-17-8825
17	4-877269	7-178801
.,	(Om	
-	The second secon	

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G. INCIDENT INFORMA'	

- a. Impacted Area Details
 - Total calculated area of impact 0 0588
 - Impact within SPDC R.O.W.
 - Impact outside SPDC R.O.W.

b. Volume of oil recovered before completion of JIV (Vreed):

Recovered oil Vreed: N1L Barrels

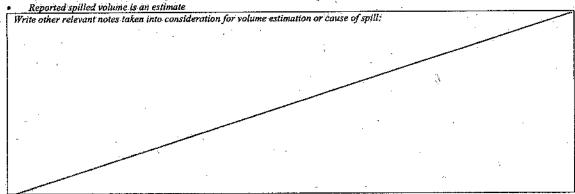
Controlled recovery/evacuation from source with no impact to environment:

M/h Barrels

c. Net Estimated Spilled Volume VEst(bbls)	*=		
1.0	0	BARAEL	
Estimated Reported Volume** V _{res} (bbls)=	1	BARREL	:

*Notes:

Volume estimation was done using an excel based tool (see attached for details on the calculation)



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 (m^3) 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 = 0.35 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 IV procedure to use appropriate steps for column estimation; record the calculation in a plain sheet of paper and attach to the IIV report.

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•	General Status		4.1	- 74 -
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***	A RESIDENCE AND A PARTITION	461	LHE	

- i. Joint investigation of the incident site found that there is no residual impact after the initial response and HT 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

TZ

e. Representatives

This report was filled, agreed and signed by the following joint investigation team representatives:

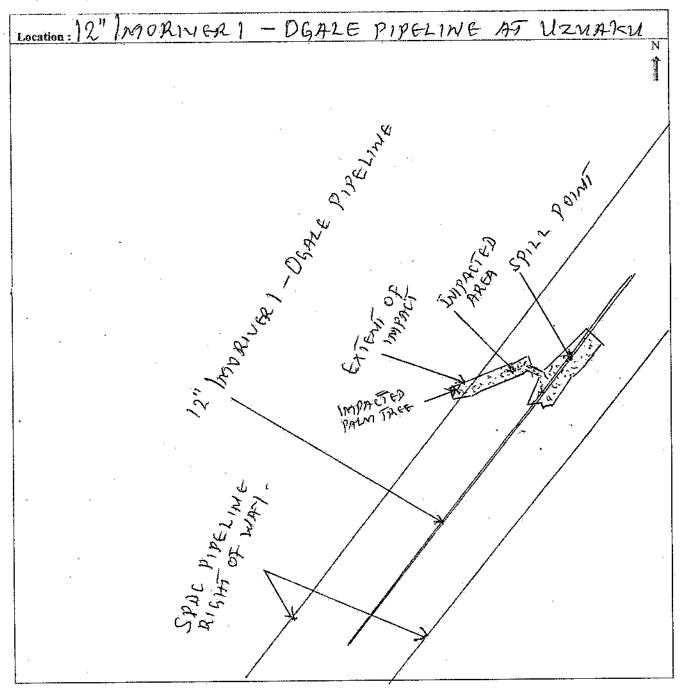
- Host Community:
- Department of Petroleum Resources [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- Shell Petroleum Development Company [SPDC]:
- · Separate DPR form has been filled out with same findings

Tick as applicable

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f. Appendix 1: Overview sketch of the site



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