INCIDENT NO: 2637463 JIV report S/N: 0508

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

A. GENERAL INFORMATION:					
Fountain Incident Number: 2637403 2. Type of incident* OIL SPILI					
3. Name of Location 28" NKPOKu - P	3. Name of Location 28" NKPOKU-BOMU PIPELINE AT B-DERE				
		S G. LGA GOKHANA			
7. Production Facility/Installation CRUD	e oil Pif	PELINE			
8. Asset Owner/Hub Itte Stell PE	8. ASSCI OWNER/HUD THE SHELL PETROLEUM DEVELOPMENT COMPANY				
B. INCIDENT INFORMATION:	NITED (SPD	C)/PIPELINE			
9. Details of incident a. Date Reported: STMAY, 2020 b. Start date/time of Investigation: 2ND MAY c. Investigation End date: 2ND MAY d. Description of spill point environment	4,2020/151	5HRS on site: <u>ONE DAY</u>			
☐Firm soil ☐Loose s	soil	Recently excavated area			
	□Under water □Swampy				
☐Well Platform (on water) ☐Drill R	□Well Platform (on water) □Drill Rig				
Additional observations around the spill point:					
e. Description of leak point (tick as applicable);  Smooth round-edge hole  Complete Rupture  Failed Weld-on illegal hot tap valve  Crude oil theft (illegal bunkering) point,  Third party tampering with valve setting  Flare System/Bund wall failure  Valve Failure  Tear (	Rough-edge hole Inward dent, Failed Clamp, Saver-pit over flow Bulging Outward Cold vent Relief valve failure	☐ Hack saw cut ☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange, ☐ Surge vessel overflow, ☐ Accidental 3 <sup>rd</sup> party equipment impact			
L Incident caused by:					
☐ Third party interference (Sabotage ☐; crude theft ☐; Line theft ☐; Accidental 3 <sup>rd</sup> party damage ☐) ☐ Others (including Mystery spills)					
*This can be: (a) Oil Spill (b) Drilling fluid Chenucal (c) Siliation (d)					

ng theft point removal Version 2020/01 Distribution of copies: White (Asset Owner); Pink (DPR); Green (NOSDRA); Yellow (State Ministry of Environment); Blue (Host Community)

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g. Spill Poir	nt Coordinates	(*Incidents \le 10	00m apart to be aggi	regated into	o one Joint	Investigation Report)
h. Measurin		INGS	84			zangari,
Nor	thing:	LATI	TUDE	Easting:	10	NG ITUDE
	4	679110	14.500		7.261	49 174DE 9816
23 24 215		/				
	/				/	
RISK ASSI	ESSMENT					
10. Details	of Environ	nent				
i, Ty	pe of enviror	nment where sp	ill occurred (select	one):		
۵۲	and	□Swamp	□water	Season	al swamp	☐Shoreline/Waterfront
ii. Ty	pe of environ	nment to which	oil has spread:			
□Lı	nd	□Swamp	□Waterbody (spe	cify)		
iii. We	eather condit	ion				
ДD	O,	□Wet	□Windy	Hot		
11. Distance	ce to Sensitiv	e habitat within	n 100m radius			of Carlos
0 B: 0 F: 0 F: 0 F:	overnment restrinking water  Osurriace wantle up Area  OResidential armlands sh. Farm Pond shing net thers (specify)	source  ter	nated protected area note nercial/Industrial Area		,m] (m, ,m) ,m) ,m] (m, ,m] (m, ,m] (m,	NONE WITHIN NONE WITHIN
12. Contain	ment measure	s put in place:			7	AICINITI
□Bo	oms 🗆 Trens	ch Dyke [	Pii □Natural de	pression	None	
□od	hers:					
13. Алу рісі	ures or video	coverage?			[N.]	
14. Further	response/repa	ur initiated as at t	the time of JIV?	[V]	[N]	
s to item [4, gi	AMPIN		GOING			0

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15. Was there any disruption to the investigation? [Y] [V]
If yes to item 15 give brief description:
The same of the sa
16. Was JIV delayed? [Y] INT
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
NONE SEEN WITH AREA OF MPACT  18. Crops Economic Trees
N Type of crops Young Medium Matured Quantity Comments  CASSAVA 110 IMPACTES
19. Fish/Nets/Ponds
S/N Fish/Nets/Ponds Description Quantity/Size Comments
NOME SEEN WITHIN AREA OF IMPACT
20. Others (Specify) e.g. Animal Traps  S/N   Others   Description   Quantity/Size   Comments
NOMES Description Quantity/Size Comments
E. GRAPHIC DESCRIPTION OF LEAK POINT (while detailed description of the leak point should be contained in the leak report, or view sketch of the site should be added as a should be contained.
The leak report on view sketch of the site should be added as appendix 1). A SECTION OF 28" NKOKI-
BOMY PIPELINE AT B-DERE STOWING 8 ILLEGAL VALVE CONN-
ECTION AT 12 O'CLICK POSITION BY YNKNOWN PERSONG)
8" ILLEGAL 8" PIPE CONNECTED
8" ILLEGAL TO ILLEGAL VALVE AT ID O'CLOCK POSITION BY INKNOWN PERSONS)
28" \ ( ) [28"
28" NKPOKU - BOMU MF
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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)

	Northing NaGS 84	
S/N	Northing LATITUDE	Easting LENGITUDE
1.	4.679438	7.261001
2.	4.679111	7.261105
3.	4.678883	7.260875
4.	4.679158	7.260635
1.00		
	COORDINATES OF 8" 1	LEGAL CONNECTION LINE TO
		PELLIE BY WIKHOWN PERSON
Ŀ	4.679347	7.266598
2.	4-678391	7-265259
٤٠	4-67910	7.260816
	THEFT POINT (	LOORD INATE
1-	4.679347	7.266598
		0
	• 77	
	3 75 7 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

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G. INCIDENT INFORMATION:
a. Impacted Area Details *
• Total calculated area of impact (Ha) 0.164 Ha
Impact within SPDC R.O.W
Impact outside SPDC R.O.W
* Round off to 2 decimal places if area is ≥ 100 m² or to 4 decimal places if area is < 100 m² (e.g. 14.55, 0.0051, 0.0009)  * Express in Hectares (Ha)
b. Volume of oil recovered before completion of JIV (Vred):
Recovered oil Vred: Barrels
Controlled recovery/evacuation from source with no impact to environment:
NI Barrels
c. Net Estimated Spilled Volume VEst(bbls)* = 5.70BARRELS
Estimated Reported Volume** Vrac(bbls)= 166ARRELS
*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:
I I I I DOI
INOI APPLICABIE
INUI FIT PILLANIT
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 whele number using the following rules:  Any spill volume in excess of 1 bbl is rounded up to the next whole number.
Arg spill volume in less than I bbl is rounded up to the next 0.1 bbl.
Examples: Calculated volume = 15.3 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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1	General	Chilan	of al.	
u	CICHCIAI	CALIFIE	411 1111	1 6110

- 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

### D

#### 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 \(\sigma\)

Tick as applicable

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f. Appendix 1: Overview sketch of the slte

