JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1352020 JIV report S/N: 00879 (Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 1. Spill incident Number: 1352020 2. Type of incident* OIL SPILL 3. Name of Location 10" DIEBU CREEK - NUMBER PIPELINE 4. Name of nearest community DPORONETA 5. State: BAYELFA 6. LGA SOUTHERN JAW 7. Type of Production facility/Installation OIL PIYELINE 8. Asset owner/District PIYELINE **B. INCIDENT INFORMATION:** 9. Details of incident
a. Date of incident: 3RD MARCH 2015
b. Start date/time of investigation: 26TH MPRIL, 2015 / 10:26 Am c. Investigation End date 26 "APRIL, 2015 Actual investigation duration, days: OM + 4) MY. d. Description of spill point environment Loose soil Recently excavated area ☐Firmed soil **E**Swampy □Under water Exposed pipe surface □Drill Rig □Well Platform (on Water) Additional observations around the spill point: e. Description of leak point (tick as applicable); Hack saw cut ☐ Tear (), Drilled hole ☐Inward dent, Complete Rupture ☐ Well head tampering ☐ Missing Pipeline/Flowline □ Failed Weld-on illegal hot tap valve, □ Failed Clamp ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, ☐ Third party tampering with flange, ☐ Third party tampering with valve setting, ☐Surge vessel overflow, ☐ Corrosión ☐Saver-pit over flow, Flare System/Bund wall failure Accidental 3rd party equipment ☐Bulging Outward Com unit failure Cold vent impact ☐ Valve Failure Relief valve failure Others (specify) f. Incident caused by: Third party interference (Sabotage , crude theft□; Line theft□; Accidental 3rd party damage□) ☐ Operational Others (including Mystery spills)

^{*}This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction e) Encroachment f) Fire.

OINT INVESTI	GATION RE	PORT FOR IN	CIDENT NO:_	13520	1VIL 020	eport S/N:	00879
g. Spi	ill point coore			WG	S 84		
	Northing:	CLATITUD	E)		Easting: (L	on Gitub	E)
5P·i 5P·2		04.77	B84		000	5·1057	
5P. 2		04·77	982		006	5· 1058	
	<u> </u>		<u></u>				
C. RISK A	SSESSME	NT .	•				
10.	Туре	of environment:					
	Land	Swamp	□Water	□se	asonal swamp]Shoreline/Wa	terfront
	i. Type o	f environment to	which oil has s	pread:			
	Land	Swamp	□Water	□Ri	ver (identify)		
i	ii. Weath	er condition		-			
	Rain stance from t	Sunny he nearest sensiti	□Dry ve habitat	□Wet	□Windy	□Hot	□cool
0 0 0	Government Drinking was Built up are Farmlands Fish Farm/ Fishing net Others (spe		esignated protect IF SF 7M VI (eted area EM UNIT	[m,] [m,] [m,] [m,] [m,]		
12. Co	ntainment m	easures put in pla	ice;				
_	Booms Others:	Trench	□Dyke	Ø n	atural depression	n □Pit	None
13. At	ay pictures or	video coverage?	Mar.		[Y] [N	r j	
14. · F	urther respon	se/repair initiated	as at the time	of JIV?、	-[Y] [N	I) i	·
If yes to item	ı 14, give brief	description: R &	COVERY	ACT	ોપૂર્ણ સ્ક	ONGO	INLCs ·
REPI	HR W	AT DON			apinis.		
15. W	as there any	lisruption to the i	nvestigation?		·	4	
If yes to ite	m 15 give br	ef description:					
	A /A T	April	1041	112.	<u> </u>		

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1352020 JIV report S/N: 00879

D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL

16. Structures / Properties

S/N	Type of	Structure	es	Description	Size	Number	Comments
Δ	10n/-	(119	1415	ADE	L OF TH	DACT
_/\	L V/U	C //	~!!	7774	711601		
L	7 (

17. Crops/Economic Trees

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
	KAPHIA PALAS			1	MANY	エハタアングラ
1	PALMTREE				Fin	BY SPILL.
				<u> </u>		

18. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
	DNE	115 HIN A	LA C	[TAGIAPI
1	1 V/uc n	[[1,1],1]	CON U	المرابات

19. Others (Specify) i.e. Animal Traps

S/N	Others	Descripti on	Quantity/Size	Comments
1	ONE h	LITHM AR	EA 0/	IMPACT
L	L	<u></u>	<u></u>	-

E. GRAPHIC DESCRIPTION OF LEAK POINT (while detail report of the leak point should be contained in the

leak report, overview sketch of the site should be added as an appendix 1)

FID! DIEBU CREEK - NIWI RIVER PIPELIME AT OPORONYA OF HACK SAW CUT

HACK SAW CUT AT 11 0'CLOUC POSITION (10 CM LONG WITH 4 CM EFFECTIVE)	position/15cm Long n teffective	o'clock
₹ 109 X.	METRES	70=
FRO	M DIEBU CREEK TO NUMBER	3~4/

HACK SANI EVET AT 7 0' CLUCK POSTIAN.

Page 3 of 8

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 13520 20 JIV report S/N: 10879

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)

W45 1	<u> </u>
(3,5,5,6,5,0)	Easting (Lok(1749E)
4.78010	6.10583
4.77764	6-10558
4.78028	6.10513
4-78063	6-10488
4 78017	6-10263
4.77926	6-10186
4 · 77808	6.10129
4.79754	6-10236
4-77708	6.10346
4.77758	6.10445
4.77746	6.10608
4-7794	6-10668
4.77982	6-10708
4-78025	6-10670
1	
	Northing (LACITUDE) 4.78010 4.7764 4.78028 4.78063 4.78017 4.77926 4.77988 4.77758 4.77758 4.77746 4.77982 4.77982 4.78025

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 13520 20 JIV report S/N: 00879 G. INCIDENT INFORMATION:

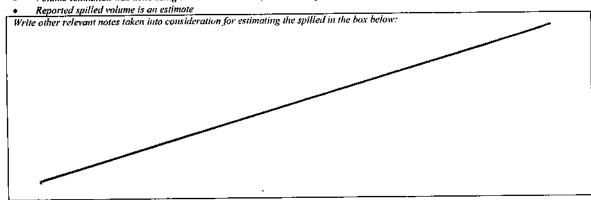
20 Impacted Area Deta	ile	

Total calculated area of impact	16·56 Ha	
Impact within SPDC R.O.W	YES	
Impact outside SPDC R.O.W	755	
1. Volume of oil recovered before completion of	JIV (V _{recl}):	
? Recovered of	il V _{recJ} : Ba	arrels
Controlled recovery/evacuation from source with	no impact to environment:	
MIL Ba	rrels	

ſ	22. Net Estimated Spilled Volume V _{Ert} (bbls)* =
	439-60 BARRELS
l	Estimated Reported Volume** V _{rep} (bbls)= 440 BARRELS

*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 m³ 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 = 0.35 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.

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1352020 JIV report S/N: 00879

23. GENERAL STATUS OF THE SITE

A.	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
B.	Investigation of the incident site showed that there is residual impact on site requiring further works

24. REPRESENTATIVES

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

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

Tick as applicable

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1352020 JIV report S/N: 00879

25. Appendix 1: Overview sketch of the site

