IOINT INVESTIGATION REPORT FOR INCI	DENT NO: 13457	770 JIV report S/N: 00852
(Note: As practicable as possible the JIT rep		
A. GENERAL INFORMATION:		
1. Spill incident Number: 13457	70 2.Type of	fincident* OIL SPILL
3. Name of Location 24" NEM	BE CREEK PI	PELINE
4. Name of nearest community ADAM	AKIRI 5. State: RIV	ERS 6. LGA BONNY
7. Type of Production facility/Installation 0	IL PIPELINE 8. As	set owner/District PIPELINE
B. INCIDENT INFORMATION:		
9. Details of incident a. Date of incident: 23 Rb b. Start date/time of investigation: 3	RD MARCH,	015 2015/12! 04 Hours tigation duration, days: <u>ONE(1)</u> DAY
d. Description of spill point environm		
Firmed soil	Loose soil	Recently excavated area
	√2 Swampy	Exposed pipe surface
☐Well Platform (on Water)	•	□Drill Rig
UPON EXCAVATION TO EXPOS WOODEN PLANK SUPPORTS (IN	ce leam un ber Se leak point a Istalled by Unkn	L AT SITE, THE JOINT INVESTIGATION AROUND THE SPILL POINT BY HALF OF THE SPDC ASSET OWNER. I/SM X I/SM STEEL CASING WITH OWN PERSON(S) WAS NOTICED MITHIN SITE IS SICTY CLAY WITH DRIGHNIC MATTER
e. Description of leak point (tick as a	oplicable);	
☐Drilled hole	Hack saw cut	☐ Tear (),
☐Complete Rupture	☐Inward dent,	☐Well head tampering
Failed Weld-on illegal hot tap valve		☐ Missing Pipeline/Flowline
Crude oil theft (illegal bunkerin	-	☐ Third party tampering with Clamp
Third party tampering with valv	-	☐ Third party tampering with flange,
Corrosión	•	Surge vessel overflow,
☐ Bulging Outward		all failure Accidental 3 rd party equipment
impact		unit failure
Relief valve failure	Others (specify)	
f. Incident caused by: ✓ Third party interference (Sabotage I Operational Others (in	□; crude theft ; Line thet including Mystery spills)	

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

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g. Spill point coordinates Measuring unit Northing:	NA (MID BEL Easting: (M	
59054.27	5135	11.8
C. RISK ASSESSMENT		
10. Type of environment:		
□Land ☑ Swamp □Water	☐Seasonal swamp☐	Shoreline/Waterfront
i. Type of environment to which oil ha	spread:	
□Land ☑Swamp □Water	River (identify)	
ii. Weather condition		
Rain Sunny Dry 11. Distance from the nearest sensitive habitat	□Wet □Windy	□Hot □cool
☐ Government reserved and designated pro ☐ Drinking water source ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net ☐ Others (specify). MAN GAOVE VEG	ected area [,m]	
12. Containment measures put in place;	<u>_</u>	□Pit □None
□Booms □Trench □Dyke □Others: <u>COFFERDAM</u> CONS	Natural depression	
13. Any pictures or video coverage?	[N] VY]	
14. Further response/repair initiated as at the tim		
If yes to item 14, give brief description:	,	
THE CRUDE THEFT POINT VA	VE WAS PROPERLY	BIT IN A CLOSED PASTION A
THE BLIND FLANGE WAS PROPERLY	BOLTED IN ORDER TO	STOP THE LEAK,
15. Was there any disruption to the investigation?	[Y] [N]	/
If yes to item 15 give brief description:	ICARI I	<u>-</u>

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

16. Structures / Properties

S/N Type of Structures	Description	Size	Number		Comments
NONE W	THIN	1 AR	ΕA	OF	MPACT

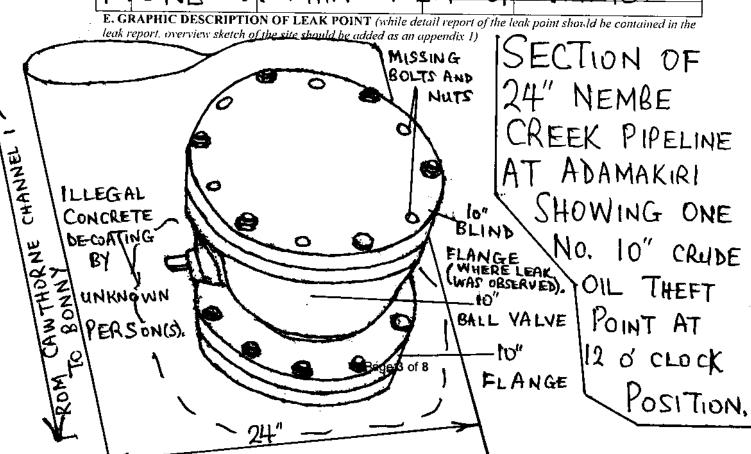
S/N Type of crops Young	Medium	Matured	Quantity	Comments
NONE WITHIN	AREA	OF	IMPA	T

18. Fish/Nets/Ponds

S/N Fish/Nets/Ponds	Description	Quantity/Size	Comments
NONE W	THIN ARE	A 01	= IMPACT

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

S/N O	thers	Description	Quantity/Size	Comments
	15 1	Litual Ann	: \ \	LUDAGE
11) NE Y	(II HIN TIKE	A U	MYACI



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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)

	MINNA (MID	SELT)
S/N	Northing (M)	Easting (M)
1	59056.28	5/3511-13
2	59054.27	513514.30
3	59054·27· 59051·31	513512.40
4	59053.42	513509.12
		A STATE OF THE STA
		54510
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JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1345770 JIV report S/N: 00852 G. INCIDENT INFORMATION:

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20.	Impacted	Area	Detail:
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Total calculated area of impact	0.0013Ha	
Impact within SPDC R.O.W	YES	.
Impact outside SPDC R.Q.W	NIL	
21. Volume of oil recovered before complet	ion of JIV (Vreed):	
₹ Reco	vered oil V _{reeJ} :	Barrels
Controlled recovery/evacuation from source	ce with no impact to environment:	- I
NIL	Barrels	

22. Net Estimated Spilled Volume V _{Est} (b)	<u>bls)*</u> =	0.77	
Estimated Reported Volume** V _{rep} (bbls)=	0.8	BARREL	

*Notes:

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

Reported spilled valume is an estimate

Write other relevant notes taken into consideration for estimating the spilled in the box below:

Not

APPLICABLE

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 (m3) x 6.29; **Round up estimated volume to next whole number using the following rules:

Amy 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,

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23. GENERAL STATUS OF THE SITE

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

24. REPRESENTATIVES

j n	ıs re	port was inted, 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

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25. Appendix 1: Overview sketch of the site

