JOINT INVESTIGATION REPORT FOR INC	IDENT NO: 13608	31_ JIV report S/N: 008 63
(Note: As practicable as possible the JIT re	eport is to be signed in the	field by all the participating parties)
A. GENERAL INFORMATION:		•
1. Spill incident Number: 136083	2.Type	of incident* OIL SPILL
3. Name of Location ADIBAMA	WELL 105	FLOWLINE
4. Name of nearest community BETTE	ERI RLAND 5. State: RN	IERS 6. LGA AHOADA-WEST
7. Type of Production facility/Installation	DIL FLOWLING.	Asset owner/District LAND 2
B. INCIDENT INFORMATION:		
9. Details of incident a. Date of incident: 15 HMA b. Start date/time of investigation: 1 c. Investigation End date: 19 HM	9TH MARCH, 20	15 $/13:23$ PM: stigation duration, days: $ON=(1)\Delta A$
d. Description of spill point environr	nent	
☐ Firmed soil☐ Under water☐ Well Platform (on Water)	□Loose soil □Swampy	Recently excavated area Exposed pipe surface Drill Rig
Additional observations around the spi TEAM OBSERVED CONCRE NO FREE PHASE CRUDE INVESTIGATION VISIT	II point: ON ARRIV TE CASTED INST OIL SEEN OM	AL AT SITE JOINT DUVESTI GATION TALLED CLAMP. SITE AS AT TIME OF JOINT
e. Description of leak point (tick as a Drilled hole Complete Rupture Failed Weld-on illegal hot tap value oil theft (illegal bunker) Third party tampering with value of Corrosión Bulging Outward impact Relief valve failure	☐ Hack saw cut ☐ Inward dent, ve, ☑ Failed Clamp ng) point, ve setting, ☐ Saver-pit over flow, ☐ Flare System/Bund w	vall failure \square Accidental 3 rd party equipment nunit failure \square Cold vent
f. Incident caused by: Third party interference (Sabotage Operational	☐; crude theft☐; Line the	eft□; Accidental 3 rd party damage□)

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

Northin	ring unit M/	••••		Easting:		
13	3300.4	<u>-1</u>		45075	4.51	· -
——— RISK ASSESSI	#ENT	•				
	pe of environment:					
☑ Land	□Swamp	□Water	□Sea	sonal swamp	Shoreline/Wa	terfront
i. Ty _l	e of environment to	which oil has sp	read:			
⊠ Land	□Swamp	□Water	□Riv	er (identify)		
	ather condition	— · · · · · · · ·		(<u></u>		
☐Rain 11. Distance fro	Sunny m the nearest sensit	-	□Wet	□Windy	□Hot	□cool
D Drinkin		_		[m,] [m,] [m,] [m,]		
12. Containmen	t measures put in pl	ace;				
□Booms ☑Others:	□Trench 10 FRE€ 1	DDyke		tural depression		□n₀
13. Any pictures	or video coverage?	?	•	[N]]	
14. Further res	ponse/repair initiate	d as at the time o	f JIV?	[Y] (X)	ſ	
yes to item [4, give b	rief description:	. *.	•	-		
<u>.</u>						
15. Was there a	ny disruption to the	investigation?		[Y] [X	í	

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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
NAME !	(111111	1-12-0	A 70 C 10	
HUNTER	 	AKE	A O) TA	ODACT
			· / · / ·	
Crops/Economic Trees				

S/N Type of crops	Young	Medium	Matured	Quantity	Comments
NONE	k1/THIN	ARE	A OF	IMPA	c F

18. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments	
\overline{A}	IUNIE LI	MAINI ARC	A DE	IMPACI	

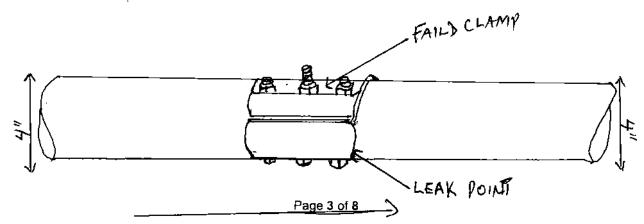
19. Others (Specify) i.e. Animal Traps

S/N Others	Description	Quantity/Size Comments
NON/E	ITHM A	CA OF IMPACT

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)

F ADIBANA WELL 108 FOOMLIME AT EDAGBERT SECTION OF BETTER LAND



FROM ADIBANIA WELL 105 TO ADIBANIA FLOW STATION.

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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
SP	454 133300.414	450754.511
191	133300.359	450755.007
1/2	133302.859	450755.061
P3 P4	133303.172	450752.379
	133300.673	450752:326
125	133300.41	450754.51
· .		
	•	
ļ <u>.</u>		

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G. INCIDENT INFORMATION:

20. Impacted Area Details	20.	Impacted	Area	Details
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•	Total calculated area of impact_	0.0007ha	
•	Impact within SPDC R.O.W	YES	
•	Impact outside SPDC R.Q.W	NO	
21. Volume	of oil recovered before complet	tion of JIV (Vreed):	
	r Reco	overed oil V _{rec.j} : MIL	Barrels
Controlled	1 recovery/evacuation from sour	ce with no impact to environment:	
	NIL	Barrels	

22. Net Estimated Spilled Volume V _{Est} (bb	<u> </u>
O '	72 LITER
Estimated Reported Volume** V _{reg} (bbls)=	1 LITER

*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 estimating the spilled in the box below:

THERE WAS AM EXISTING IMPACTED AREA WITH INCIDENT

F1): 2015_1354025 UPON WHICH THE PRESENT SPILL

OLCURRED.

THE VOLUME WAS ESTIMATED TO BE D.72 LITTER AND APPROXIMATED TO 1 LITTER.

Calculation of the respective estimated volume is to be done on site as for as practicable using the new spill volume estimation software on site; Conversion of m^{I} 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 I bbl is rounded up to the next whole number.

Any spill volume in less than I bbl is rounded up to the next 0.1 bbl.

Examples: Calculated volume = 15.3 bbt ------ Reported volume = 16 bbt Calculated volume = 0.35 bbt ------ Reported volume = 0.4 bbt Calculated volume = 0.01 bbt ------ Reported volume = 0.1 bbt.

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

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

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25. Appendix 1: Overview sketch of the site

