JIV report S/N:

Nº 0000116

INCIDENT NO: 1529141

(Note: As practicable as possible the JIT report is to be signed in the field by all the participating parties) A. GENERAL INFORMATION: 2. Type of incident* Oll SPILL 1. Spill incident Number: 3. Name of Location 4. Name of nearest community DMUCHI 5. State: RIVERS 6. LGA KWERRE 7. Type of Production facility/Installation ___ W E I 1 PETROLEUM DEVELOPMENT COMPANY 9. Details of incident OVEMBER. a. Date of incident: NOVEMBER. 2015/13:10 HOURS b. Start date/time of investigation: Actual investigation duration, days: d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil ☐ Under water Exposed pipe surface Well Platform (on W □ DrillRig Additional observations around the spill point: INVESTIGATION JOINT OBSERVED, ON ARRIVAL AT THE WELL HEAD SURVEY CAP WING AND MASTER VALVES WERE MISSING (HAVING BEEN REMOVED BY UNKNOWN PERSON(S)). SOME LODSENED NUTS WERE LEFT UNKNOWN PERSON(S) ON AND AROUND THE WELL HEAD CHRISTMAS TREE. e. Description of leak point (tick as applicable); Hack saw cut Tear (☐Drilled hole ☐ Inward dent. ☐ Well head tampering ☐Complete Rupture ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ Failed Clamp. ☐ Saver-pit over flow ☐ Third party tampering with Clamp ☐Crude oil theft (illegal bunkering) point, ☐ Bulging Outward ☐ Third party tampering with flange, Third party tampering with valve setting Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Accidental 3rd party equipment impact ☐ Valve Failure Relief valve failure Others(specify) WELL HEAD MASTER VALVES, WING VALVES AND SURVEY CAP REMOVAL BY UNKNOWN PERSON(S). ☐Third party interference (Sabotage (C); 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 c) Encroachment f) Fire.

INCIDENT NO: 1529141 JIV report S/N: g. Spill point coordinates W4584 h. Measuring unit Easting: TITUDE C. RISK ASSESSMENT 10. Type of environment: ****Land □ Swamp □ Water ☐Seasonal swamp ☐Shoreline/Waterfront Type of environment to which oil has spread: **D**Land □ Swamp □Water ☐River (identify) ii. Weather condition Sunny □Rain Dry □Wet □Windy □Hot □cool | 11. Distance from the nearest sensitive habitat Government reserved and designated protected area ſm, Drinking water source ,m1 Built up area ,m] MIFARMLAND IMPACTED ✓ Farmlands ☐ Fish Farm/Pond SPILL. ſm, □ Fishing net Others (specify). 12. Containment measures put in place; Dyke Natural depression Booms Trench □None Others: 13. Any pictures or video coverage? 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description:

[Y]

15. Was there any disruption to the investigation?

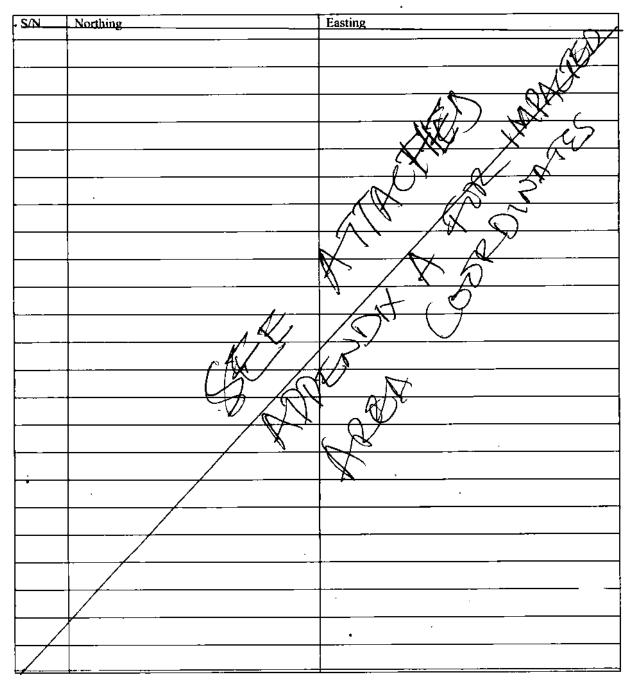
INCIDENT NO: 1529141 JIV report S/N: No 9000116

If yes	s to item 15 give	orief desc	ription:	PLI	CAE	3LE	<u> </u>	
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3	PALM TREE				-	l N	D. UMPAC	
4.	BITTER LEA	TF.	,			WITHIN S.	045H REGI	en of 45Ha.
	18. Fishing Nets/	Fieb Pan	de .		•	••		· · · · · ·
S/N	Nets/Ponds		Description		Quantity/Size	Comments		
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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)



APPENDIX A				
		LLHEAD SPILL		
INCI	DENT NO. 1	529141		
	WGS84	[iaa		
POINT	LATITUDE	LONGITUDE		
34	4.93789	6.99878		
35	4.93781	6.99875		
36	4.93792	6.99853		
37	4.93786	6.99844		
38	4.93775	6.99833		
39	4.93772	6.99833		
40	4.93775	6.99825		
41	4.93786	6.99839		
42	4.93789	6.99844		
43	4.938	6.99856		
44	4.93808	6.99856		
45	4.93817	6.99853		
46	4.93822	6.9985		
47	4.93831	6.99839		
48	4.93842	6.99831		
49	4.93844	6.99825		
50	4.93853	6.99869		
51	4.9385	6.99878		
52	4.93844	6.99886		
53	4.93828	6.99878		
54	4.93814	6.99881		
55	4.93803	6.99881		
56	4.93764	6.99836		
57	4.93758	6.99833		
58	4.93758	6.99836		
5 9	4.93761	6.99839		
60	4.93756	6.99844		
61	4.93772	6.99825		
62	4.93781	6.99831		
63	4.93775	6.99831		
64	4.9385	6.99814		
65	4.93856	6.99814		
66	4.93856	6.99819		
67	4.93858	6.99822		
68	4.93858	6.99825		
69	4.93853	6.99842		
70	4.9385	6.99844		
71	4.93844	6.99853		
72	4.93842	6.99856		
73	4.93842	6.99858		
74	4.93806	6.99861		
75	4.93808	6.99864		
76	4.93808	6.99869		
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G. INCIDENT INFORMATION:		
a. Impacted Area Details		
Total calculated area of impact		
b. Volume of oil recovered before completion of JIV (V _{rec.I}):	7 5	,]
Recovered oil V _{rec.J} :	Barre	els
Controlled recovery/evacuation from source with no impact to environment: Nil Barrels		
c. Net Estimated Spilled VolumeV _{Est} (bbls)* = 84.8		
Estimated Reported Volume** V _{rep} (bbls)= 85 BARRELS.		
*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:		
NOT APPLICABLE		
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimation conversion of m ² to barrels is Volume (m3) x 6.29; **Round up estimated volume to next whole number using the following Any spill volume in excess of -1 bbl - is rounded up to the next whole number.	on softwa rules:	we on site;
Any spill volume in less than — I bbl — is counded 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		

Wherever this estimation tool is not applicable please refer to paragraph be (Deviations) of the AV procedure to use appropriate steps for volume estimation, record the colculation in a plain sheet of paper and attach to the AV report.

Calculated volume = 0.01 bbf ----- Reported volume = 0.1 bbf

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d. 🔻	General	Status	of the	site

i.	Joint investigation of the incident site found that there is no residual impact after the initial response a therefore recommend that the site be closed out	and JIT
ii.	Investigation of the incident site showed that there is residual impact on site requiring further works	Q

e. Representatives

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

- Department of Petroleum Resources [DPR]:
- National Oil Spill Detection and Response Agency [NOSDRA]:
- State Ministry of Environment [SME]:
- Asset Owner:

 ✓
- Signatories agree with reported findings:
- 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

