THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMTED. JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1324775 JIV report S/N: 00636 (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: 1324775 2.Type of incident* DIL SPILL 4. Name of nearest community CFB TORAUN 5. State: BAYELSA 6. LGA SOUTHERN - LJAW 7. Type of Production facility/Installation FLOWLINE 8. Asset owner/District SWAMP WEST/SEIBOU B. INCIDENT INFORMATION: etails of incident 23RD TANUARY, 2015 b. Start date/time of investigation: 10 TH FEBRUARY, 2015 AT 13 OUTRS 9. Details of incident c. Investigation End date: 3TH MARCH, 2015Actual investigation duration, days: 2 DAYS d. Description of spill point environment Recently excavated area Loose soil Firmed soil **Swampy** Exposed pipe surface Under water □Drill Rig ·□Well Platform (on Water) Additional observations around the spill point: - THE LEAK POINT WAS SUBMERGED AND NO LONGER BUBBLING ON ARRIVAL AT SITE. UPON LIFTING THE FLOWLINE, THE JIT OBSERVED AN OUTWARD TEAR (ABOUT 15 CAN X 5 CM), ON THE FLOWLINE AT 6 O'CLOCK POSITION. THE JIT ALSO OBSERVED THAT THE CONTHIMMENT BOOM WAS REMOVED BY WHITHOUN PERSONS e. Description of leak point (tick as applicable); Tear (15cm x5cm). ☐ Hack saw cut Drilled hole ☐Well head tampering ☐Inward dent, Complete Rupture ☐Failed Weld-on illegal hot tap valve, ☐Failed Clamp Missing Pipeline/Flowline ☐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, Saver-pit over flow, ☐ Corrosión □Flare System/Bund wall failure □Accidental 3rd party equipment ☐Bulging Outward Com unit failure □Cold vent impact □Valve Failure Others (specify)_ ☐Relief valve failure f. Incident caused by: ☐Third party interference (Sabotage□; crude theft□; Line theft□; Accidental 3rd party damage□) Others (including Mystery spills)_ ☑Onerational

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

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NOT APPLICABLE

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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
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				DT A CIT	LADACT
	NUNEW		14 77	NEA UP	11/11/10
			<u> </u>	*	
	7 Crons/Economic Trees				

	\sim	. /		-
17	1 ron	C/ H-COMO	2210	irane
	VIV)/	s/Econor	11110	11003

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
[-	KHUM TREES		4		1_7	DIL STAINED
					<u> </u>	

18. Fish/Nets/Ponds

S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
-	FISH PONI)	CRUDE INFRACED POND	1 (30 mx 15m)	FOUND ON THE RIGHTOF WAY
2.	FISHING NETS	OIL STMMED FUSH NEW	17-(20m)	FOUND ON THE RIGHT OF WAY
	l			

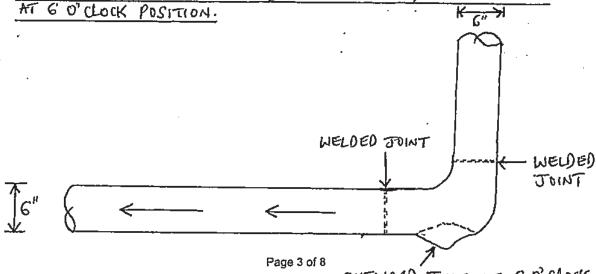
19. Others (Specify) i.e. Animal Traps

S/N	Others	Description	Quantity/Size	Comments
	MALLE		TA AI	INDACT
	NONE	MITTING AN	<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)

SECTION OF SEIBOU WELL-25 FLOWLINE AT GRANRAUN

SHOWING; AN OUTWARD TEAR (ABOUT 15 CM X 5 CM) AT AN ELBOW,



OUTWARD TEAR AT BO'CLOCK POSITION (ABOUT 15 CM X5 CM)

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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
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10 O H D.F.C	
JOINT INVESTIGATION REPORT FOR INCIDENT NO. 19 41 1 1	00030
G. INCIDENT INFORMATION:	
20. Impacted Area Details	
Total calculated area of impact 30-20 Hg	
Total calculated area of imployed	-
s 1 s 1	_
Impact outside SPDC R.O.W NI	
21. Volume of oil recovered before completion of JIV (Vreel):	Barrels
Recovered oil Vicer. NL	
Controlled recovery/evacuation from source with no impact to environment:	
NIL Barrels	
THE CONTRACT	rica nuculmona. 12
7 22; Nef-Estimated Spilled Volume Vg (bbls)	
54201 BBIS	
210.7	
Estimated Reported Volume** Vren (bbls)= 549 BBLS	
*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:	
THE DIRECT CLESSIFICATION STATES AND A STATE OF THE STATES AND A STATES AND A STATE OF THE STATES AND A STATES AND A STATE OF THE STATES AND A STATE	

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 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:

Wherever this estimation tool is not applicable please refer to purugraph 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

A.	Joint investigat	ion of the incident	site found that	there is no	residual	impact aft	er the	initial
		r therefore recomm						
	<u> </u>							d .1
В.	Investigation of	the incident site s	howed that there	is residual	impact o	n site requ	iiring 1	further
	works	M		4				
				•				

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]:

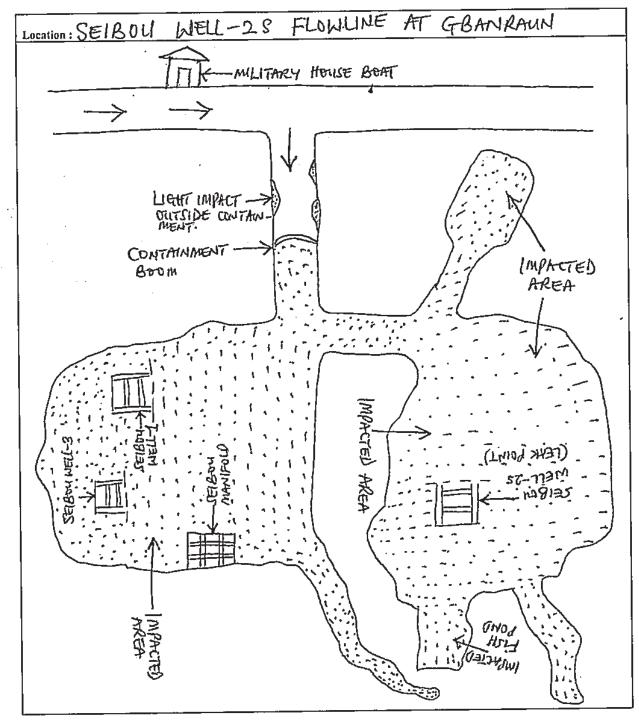
 ▼
- Nigeria Police Force [NPF]:
- Shell Petroleum Development Company [SPDC]: □
- Signatories agree with reported findings: <a>Image: Image: Image:
- Separate DPR form has been filled out with same findings ☐

Tick as applicable

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25. Appendix 1: Overview sketch of the site



	MINNA WES	T BELT	
NAME	EAST NORTH		Description
1	388454.21	91558.67	Heavy Impact
2	388146.1	91684.75	Heavy Impact
3	387767.35	91822.07	Heavy Impact
4	387473.13	91435.51	Heavy Impact
5	387364.65	91535.39	Heavy Impact
6	387341.24	91525.87	Heavy Impact
7	387324.57	91546.5	Heavy Impact
8	387353.54	91556.03	Heavy Impact
9	387397 <u>.</u> 2	91583.41	Heavy Impact
10	387479.35	91521.9	Heavy Impact
11	387715.23	91834.77	Heavy Impact
12	387622.89		Heavy Impact
13	387598.81	91910.44	Heavy Impact
14	387635.85	91924.99	Heavy Impact
15	387695.38	91930.28	Heavy Impact
16	387765.5	92041.41	Heavy Impact
17	387863.39		Heavy Impact
18	387816.3	91871.02	Heavy Impact
19	388170.05	91730.92	Heavy Impact
20	388478.29	91607.49	Heavy Impact
1	388454.21		Light Impact
2	388478.29		Light Impact
3	389089.74		Light Impact
4	389072.54	91310.89	Light Impact
1	389072.54		Sheen Impact
2	389089.74		Sheen Impact
3	391676.05		Sheen Impact
4	391652.24	90209.16	Sheen Impact
1	387398.14	91552.64	SPILL POINT
1	388454.08	-	
2			
3	388477.89	91607.55	воом_
		<u> </u>	