INCIDENT NO: 1445704 JIV report S/N:

Nº 0000352

(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\* 01 ANS - ESCRAVOS 4. Name of nearest community OBOT ۵O 7. Type of Production facility/Installation ( PETROLEUM DEVELOPMENT COMPANY 8. Asset owner/District THE SHELL B. INCIDENT INFORMATION: 9. Details of incident a. Date of incident: 2 b. Start date/time of investigation: 4TH AUGUST, 2015 AT 1120 HRS c. Investigation End date: 4th August, 2015 Actual investigation duration, days: ONE DAY d. Description of spill point environment Recently excavated area ☐Firm soil Loose soil Swampy Exposed pipe surface Under water DrillRig ☐ Well Platform (on Water Additional observations around the spill point: ON EXCANATION, AN 8" FAILED ILLEGAL HOT-TAP VALVE AND AN 8"NON-LEAKING ILLEGAL SPOOL WITH FLANGE (ABOUT 40 CM APART) WERE OBSERVED WELDED ON THE 24" TRANS-ESCRAVOS PIPELINE AT 1 O'CLOCK AND 3 O'CLOCK POSITIONS RESPECTIVELY. THE LEAK HAS STOPPED AT THE SPILL POINT AS AT THE TIME JIT GOT TO SITE. Description of leak point (tick as applicable); Hack saw cut Tear ( Drilled hole ☐ Well head tampering Complete Rupture Inward dent, Failed Weld-on illegal hot tap valve Failed Clamp, ☐ Missing Pipeline/Flowline ☐ 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 Relief valve failure ☐ Valve Failure Others(specify) f. Incident caused by: ☐Third party interference (Sabotage☐;crude theft☐; Line theft☐; Accidental 3<sup>rd</sup> party damage☐)

☐ Operational

Others (including Mystery spills)

<sup>\*</sup>This can be; a) Oil Spill b) Drilling fluid/Chemical c) Siluation d) construction e) Encroachment f) Fire.

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(THEFT POINT	r)
g. Spill point coordinates	
II. Wicasuring difft	CIMAL - DEGREE
Northing: LATITUDE	Easting: LONGITUDE
5.419583	5.302361
3,117363	
C. RISK ASSESSMENT	
10. Type of environment:	
□Land □Swamp □Water	Seasonal swamp
i. Type of environment to which oil has spread:	
□Land ☑Swamp . □Water	□River (identify)
ii. Weather condition	
□Rain □Sunny □Dry □Wet	□Windy ☑Hot □cool
11. Distance from the nearest sensitive habitat	•
☐ Government reserved and designated protected area ☐ Drinking water source ☐ Built up area ☐ Farmlands ☐ Fish Farm/Pond ☐ Fishing net ☐ Others (specify).	[ ,m] [ ,m] [ ,m] [ ,m] [ ,m] [ ,m] [ ,m]
12. Containment measures put in place;	•
Booms DTrench DDyke	□Natural depression □Pit □None
Others:	
13. Any pictures or video coverage?	[W] [N]
14. Further response/repair initiated as at the time of JIV?	[W] [N]
	TING ACTIVITY WAS CARRIED
OUT. ALSO COMMENCED RECOVER	Y OF CRUDE OIL.
15. Was there any discuntion to the investigation?	[Y] [W]

INCIDENT NO: 1445 704 JIV report S/N: Nº 0000352 APPLICABLE If yes to item 15 give brief description: D. TYPE/NUMBERS OF PROPERTIES, IF ANY, FOUND WITHIN THE AREA OF SPREAD OF OIL 16. Structures / Properties Comments Number Description Size S/N Type of Structures 17. Crops/Economic Trees Comments Quantity Medium Matured S/N Type of crops Young STAINED WITH CRUDE IPALM TREES 18. Fishing Nets/Fish Ponds Quantity/Size Comments Description S/N Nets/Ponds 19. Others (Specify) i.e. Animal Traps Comments Description Quantity/Size S/N Others 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) 8" NON-LEAKING ILLEGAL 8" FAILED ILLEGAL HOT-TAP VALVE SPOOL WITH FLANGE WELDED WELDED AT 1 0'CLOCK POSITION AT 3 O' CLOCK POSITION 40 cm 24" TRANS - ESCRAVOS PIPELINE AT OBOTOBO

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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)

WGS RU (DECIMAL — DEGREE)

	MAS LA (DECI	MAC - DEGREE)
S/N	Northing (LATITUDE)	Easting (LONGITUDE)
	5.419639	5.302389
	5.419667	5.302 444
	5.419778	5.302 306
	5.419722	5.302278
	5.419583	5.302 194
	5.4195	5.302417
	5.419485	5.302 148
	5.419485 5.419385	5-302377
	/	
	. /	./
		. /

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G.	INC	IDE	NT E	NFO	RAI	ATI	ON:
						8 N B B	V

G. MCDENT INFORMATION.	
a. Impacted Area Details	•
<ul> <li>Total calculated area of impact within R.O.W</li></ul>	765 JES
b. Volume of oil recovered before c	
volume of off recovered before e	Recovered oil V <sub>reeJ</sub> : NLL Barrels
c. Net Estimated Spilled VolumeV <sub>E</sub>	
	2.63 BBLS
Estimated Reported Volume** V <sub>rep</sub> (bbls)=	3 BBLS
*Notes:	

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<sup>t</sup> to burrels 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.

NOT APPLICABLE

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

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

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

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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 and JIT therefore recommend that the site be closed out
- ii. Investigation of the incident site showed that there is residual impact on site requiring further works

#### e. Representatives

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

- Host Community: □
- 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