JIV report S/N:

Nº 0000172

INCIDENT NO: 1692847

(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: 16928 47 2. Type of incident\* Oak SPILL 3. Name of Location OBIGBO NORTH WELL 12 WELL HEAD. 4. Name of nearest community UZUAKU 5. State: ABIA 6. LGA UKWA WEST 7. Type of Production facility/Installation WELL HEAD 8. Asset owner/District THE SHELL PETROLEUM DEVELOPMENT COMPANY OF NIGERIA LIMITES 9. Details of incident a. Date of incident: 15th August, 2016 b. Start date/time of investigation: 18TH AUGUST 25T6 c. Investigation End date: 18TH AUGUST, 2ET 6 Actual investigation duration, days: ONE DAT. d. Description of spill point environment Loose soil Recently excavated area ☐Firm soil Exposed pipe surface □Swampy Under water □ DrittRig Well Platform (on Water Additional observations around the spill point: THE JOINT INVESTIGATING TEAM OBSERVED DISCHARGED OF CRUDE BY UNKNOWN PERSONS) ARCYND THE WELL HEAD SURROUNDING AS THERE WAS NO INDICATION OF ANY LEAK FROM THE CHRISTMAS TREE AND FLOWLING(I) WITHIN THE IMPACEDAREA. e. Description of leak point (tick as applicable); ☐ Tear ( ☐ Hack saw cut Drilled hole ☐ Well head tampering Inward dent. Complete Rupture ☐ Failed Clamp, ☐ Missing Pipeline/Flowline Failed Weld-on illegal hot tap valve ☐ Third party tampering with Clamp Crude oil theft (illegal bunkering) point, ☐ Saver-pit over flow ☐ Bulging Outward ☐ Third party tampering with flange, ☐ Third party tampering with valve setting ☐Cold vent ☐ Surge vessel overflow, ☐Flare System/Bund wall failure Relief valve failure Accidental 3<sup>rd</sup> party equipment impact ☐ Valve Failure OIL DISCHARGED BY UNKNOWN PERSON(6) Mothers(specify) SPUL f. Incident caused by: ☐ Third party interference (Sabotage Crude theft : Line theft : Accidental 3<sup>rd</sup> party damage : DOTHER (including Mystery spills) CRUBE TIL DISCHARGE BY **∐Operational** UNKNOWN PEKSONG).

<sup>\*</sup>This can be: a) Oil Spill b) Drilling fluid/Chemical c) Siltation d) construction c) Encroachment f) Fire,

INCIDENT NO: 1692847 JIV report S/N: g. Spill point coordinates h. Measuring unit Northing: Easting: C. RISK ASSESSMENT 10. Type of environment: Land □Swamp □Water ☐Shoreline/Waterfront ☐ Seasonal swamp Type of environment to which oil has spread: **E**Land □Water River (identify) ☐Swamp ii. Weather condition **⊠**cool **⊠**Wet □Hot ■Windy **⊠**Sunny Drv □Rain 11. Distance from the nearest sensitive habitat NONE SEEN Government reserved and designated protected area lm, ſm, ☐ Drinking water source 黄类 ,m) □ Built up area MITH IN □ Farmlands (m, ☐ Fish Farm/Pond ,m) ・アブロロンシ ,m] ☐ Fishing net Others (specify). 12. Containment measures put in place; □Pit None Booms Trench □ Dyke ☐ Natural depression Others: [YV [N] 13. Any pictures or video coverage?  $[N] \sim Y$ 14. Further response/repair initiated as at the time of JIV? If yes to item 14, give brief description: RECEVERY WORK INITIATED BUT NO RECOURABLE (SUPERFICIAL IMPACT AND INFILTRATED TILMIT) SITE. CRUBE [N] [Y] 15. Was there any disruption to the investigation?

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	If yes to item 15 give brief description:
	NAT APPLICABLE
	INOI MILICABLE
	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 WITHIN AREA OF IMPACT
	17. Crops/Economic Trees
	S/N Type of crops Young Medium Matured Quantity Comments
	NONE WITHIN AREA OF IMPACT
	18. Fishing Nets/Fish Ponds
	S/N Nets/Ponds Description Quantity/Size Comments
	NONE WITHIN AREA OF IMPACT
	19. Others (Specify) i.e. Animal Traps
	S/N Others Description Quantity/Size Comments
	NONE WITHIN AREA 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)
الله	DUE TO CRUDE OIL DISCHARGE BY UNKNOWN PERSON(S) AROUND THE
	BO WELL IZ WELL HEAD AT UZHAKY WITH EVIDENCE OBSERVED A
	BELOW:-
<u> </u>	* NO SPILL POINT (MYSTERY SPILL)
	of the Stire (MATICAL STIRE)
	* MONE RETURN VAIVE (NRV) WAS INSTALLED IN 2003.
	* Tyre Tracks From VEHICLE SUSPECTED TO HAVE DISCHARGED
	CRUDE OIL WERE NOTICED.
	* VISUAL CHECK SHOWS NO INDICATION OF ANY LEAK FROM WELL HEAD
	COLOR WATER AROUND WELL HEAD CELLAR PIT

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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)

	Northing LAT.	
S/N	Northing LAT.	Easting Low 4.
1-	4.89445	7.1498
<u>ə</u> .	4.89441	7.14979
3.	4.89443	7.14957
4	4.89432	7-14937
S.	4-8944	7.1493
6.	4.89436	7.14917
67.	4.89433	7.14909
8.	4.89430	7.14908
9.	4.89421	7.14911
10.	4.89413	7.14517
11-	4.89411	7.14923
(8.	4.89406	7.14926
13.	4.89409	7.14935
14.	4.89432	7.14947
15:	4.89426	7-14961
	·	
	/	
;		
1		

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G. INCIDENT INFORMATION:		
a. Impacted Area Details		
Total calculated area of impact 0.16 Hg	-	
• Impact within R.O.W		
• Impact outside R.O.W	<u></u> .	
b. Volume of oil recovered before completion of JIV (Vred):	<u></u>	<del></del>
Recovered oil V <sub>reci</sub> : NIL	Barre	als 
Controlled recovery/evacuation from source with no impact to environment:    Null Barrels   Barr		
c. Net Estimated Spilled VolumeV <sub>Es</sub> (bbls)* =		
4.60 BARRELS		
4-60 6112-2-		
Estimated Reported Volume** V <sub>rep</sub> (bbls)= 5 BARRELS		
*Notes:  Volume estimation was done using an excel based tool.(see attached for details on the calculation)  Reported spifled volume is an estimate		
Write other relevant notes taken into consideration for estimating the spilled in the box below:		J. J. J. J. J. J. J. J. J. J. J. J. J. J
Calculation of the respective estimated volume is to be done on site as far as practicable using the new spill volume estimate Conversion of m' 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.	ian saftwa g rides:	re on site;
<ul> <li>Any spill volume in less than — I bbl — is rounded up to the next 0.1 bbl.</li> </ul>		
Examples: Calculated volume = 15.3 bbl		
Wherever this estimation tool is not applicable please refer to paragraph 6e (Deviations) of the AV procedure to use volume estimation; record the calculation in a plain sheet of paper and attach to the AV report.	approprie	tte steps for

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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 therefore recommend that the site be closed out	response	and JIT
ii. Investigation of the incident site showed that there is residual impact on site requiring furth	er works	8/
e. Representatives		
This report was filled, agreed and signed by the following joint investigation team represe  • Host Community: 5	ntatives:	
Department of Petroleum Resources [DPR]:      National Oil Spill Detection and Response Agency [NOSDRA]:       The STATE RESOLUTION.		
State Ministry of Environment  SME :	ije inz	TEAD
Signatories agree with reported findings.		
Separate DPR form has been filled out with same findings□		
	Tick as ap	plicable

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f. Appendix 1: Overview sketch of the site

