			<u>▷▷</u> JIV report S/N: 0507
(Note: A	s practicable as possible the JIT i		field by all the participating parties)
A. GEN	IERAL INFORMATION:		
I. Spill i	incident Number: 11569	100 2.Type o	of incident* OIL STILL
	of Location 4" NDIEN		
	· · · · · · · · · · · · · · · · · · ·		
7. Туре	of Production facility/Installation	HOWINE 8.A	ers 6. LGA Attoda West sset owner/District LANDII ADIENNA
	DENT INFORMATION:		•
9. Detai a.	ls of incident Date of incident:	u <u>l</u> , 2014	•
ъ.	Start date/time of investigation:_	10th APRIL 2014	
c.	Investigation End date: (b)	APRIL, 2014Actual inves	stigation duration, days: DNE DNT
d.	Description of spill point environ	ımeni	
	Firmed soil	Loose soil	Recently excavated area
	☐Under water	Swampy	Exposed pipe surface
	☐Well Platform (on Water)		□Drill Rig
Add	ditional observations around the sp	pill point: 746 Ten	n observed there was
			SPILL PETHT AND EXCESTING
	PACT.		
1.	MCC1.		
		<u> </u>	
e.	Description of leak point (tick as	· · ·_	
e.	Description of leak point (tick as	Hack saw cut	☐ Tear (
e .	Description of leak point (tick as Drilled hole Complete Rupture	☐ Hack saw cut ☐ Inward dent,	☐Well head tampering
e.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap va	☐ Hack saw cut☐ Inward dent, alve, ☐ Failed Clamp	☐Well head tampering ☐Missing Pipeline/Flowline
e.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap va	☐ Hack saw cut ☐ Inward dent, alve, ☐ Failed Clamp ring) point,	☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp
е.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap vs Crude oil theft (illegal bunke	☐ Hack saw cut ☐ Inward dent, alve, ☐ Failed Clamp ring) point, alve setting,	☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange,
e.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap value oil theft (illegal bunke) Third party tampering with value of Corrosión	Hack saw cut Inward dent, alve, Failed Clamp ring) point, alve setting, Saver-pit over flow,	☐ Well head tampering ☐ Missing Pipeline/Flowline ☐ Third party tampering with Clamp ☐ Third party tampering with flange, ☐ Surge vessel overflow,
e.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap value oil theft (illegal bunked) Third party tampering with value of Corrosión Bulging Outward	☐ Hack saw cut ☐ Inward dent, alve, ☐ Failed Clamp ring) point, alve setting, ☐ Saver-pit over flow, ☐ Flare System/Bund w	□ Well head tampering □ Missing Pipeline/Flowline □ Third party tampering with Clamp □ Third party tampering with flange, □ Surge vessel overflow, rath failure □ Accidental 3 rd party equipment
e.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap value oil theft (illegal bunke) Third party tampering with value of Corrosión	☐ Hack saw cut ☐ Inward dent, alve, ☐ Failed Clamp ring) point, alve setting, ☐ Saver-pit over flow, ☐ Flare System/Bund w	Well head tampering Missing Pipeline/Flowline Third party tampering with Clamp Third party tampering with flange, Surge vessel overflow, all failure □Accidental 3 rd party equipment
	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap vatoride oil theft (illegal bunket) Third party tampering with vatoriosión Bulging Outward impact Utick as point (tick as point) Description of leak point (tick as point) Description of	Hack saw cut Inward dent, alve, Failed Clamp ring) point, alve setting, Saver-pit over flow, Flare System/Bund ware	Well head tampering Missing Pipeline/Flowline Third party tampering with Clamp Third party tampering with flange, Surge vessel overflow, all failure □Accidental 3 rd party equipment
f.	Description of leak point (tick as Drilled hole Complete Rupture Failed Weld-on illegal hot tap vs Crude oil theft (illegal bunke) Third party tampering with vs Corrosión Bulging Outward impact Relief valve failure	Hack saw cut Inward dent, alve, Failed Clamp ring) point, alve setting, Saver-pit over flow, Flare System/Bund ware Mothers (specify)	Well head tampering Missing Pipeline/Flowline Third party tampering with Clamp Third party tampering with flange, Surge vessel overflow, all failure □Accidental 3 rd party equipment

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

NT INVESTI	GATION RE	PORT FOR IN	CIDENT NO: 1	1569	o D JIV re	eport S/N:	0507
	Il point coord Measuring	inates	KIIN		10 beit)	
	Northing:	, ,			Easting:		
	133.	297-3	.6		450	748	.35
						<u>-</u>	
C RISK A	SSESSMEN	JT		ï			
10.		of environment:					•
. 5	Land	Swamp	□Water	□Sea	sonal swamp]Shoreline/Wa	terfront
	i. Type of	f environment to	which oil has sp	oread:			
Б	Land	Swamp	□Water	□Riv	ver (identify)		
;	ii. Weatho	er condition					
	Rain stance from th	Sunny ne nearest sensiti	•	□Wet	□Windy	□Hot	□cool
0 0 0	Government Drinking w Built up are Farmlands Fish Farm/ Fishing net Others (spe	ater source ea Pond	esignated protect	ted area	[m,] [m,] [m,] [m,] [m,]		HU RICIMIZ
12. Co	ontainment m	easures put in pl	ace;				
	Booms Others:	Trench	Dyke	□na	atural depression	n □Pit	□None
13. A	ny pictures or	video coverage	?		[Y] [N	1]	
14. F	urther respon	se/repair initiate	ed as at the time of	of JIV?	[Y]/[N	[]	
. `	n 14, give brief				2 3	-	
	REP	AIR	ONGOI	NG A	THE	END ?	F Jiy.
15 W	as there any	disruption to the					 .
			Danion.		F - J L -	. ,-	
If yes to ite	em 15 give bri	ief description:					
	M	Tc	XPPL	T C4	₹β LÆ		

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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	
The state of the s	1.1		A O O A		12 Chal
JANAE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	11-11	4 AKET	- 4	tk/kect
17. Crops/Economic Trees					

S/N	Type of crops	Young	Medium	Matured	Quantity	Comments
V	PLANTAN	MAIL.		NIL.		ALL INTELLA
<u> </u>	CASSAVA		NI,L	NIL	FED	SDAL RICHT
·						- 1 et - 1 miles
	F		_ : 	<u> </u>	_ <u></u>	1/47

18. Fish/Nets/Ponds

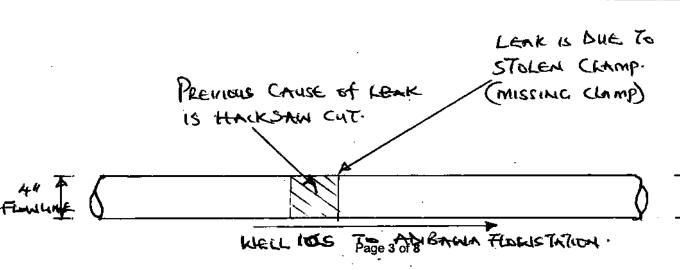
S/N	Fish/Nets/Ponds	Description	Quantity/Size	Comments
	NIC	CLITHEAL A	00 A	NOCT
\vdash	10146	MI CITTLE A	M	or lalkyer
L	<u> </u>	<u> </u>		

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

S/N Others	Description	Qua	ntity/Size	Comments	
NONE	ALTHEN	ARCI	× 0	F 1	MPACT.

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)

ECTIONAL VIEW OF 4" ADIBAWA WELL IDS FLOWLINE AT ADIBABLA SHOWING' MISCING (STOLEN) OID POINT CLAMP.



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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) MINNA (MID BELL)

	MINNA CM	N BEFID
S/N	Northing (M)	Easting (M)
	133300.43	450748.36
2	133 294 . 28	450748-34
_3	133291 . 23	450742.17
4	133297.11	450750-12
		1
		1004/2014
	_/	
	/	
		·

ESTI					
		WELL 10S FLOW LINE AT ADIBAY			
OIL S	SPILLED ONSHORE	OFFSHORE (Leak stopped a	t source)		
	ted Area Details				
7	Total Calculated Area of	f Impact			24.00 m²
	mpact within SPDC R.O.	•			m ²
	mpact outside SPDC R.				m ²
** ***		J.,,,			
/alum	ne of nil recovered het	ore completion of JIV (V _{max})			
	stimated Recovered of				
1 =	SULINGED KECTARIAN OF	(Net)			bbls
E	stimated Recovered o	il (Net) V			
		in franch Awen			0.00 bbls
					-
		esidual volume on site			
		of free phase oil (on land or confine	ed water body)		
	otal area occupied by po	•			0.00 m²
	verage depth of pool of	free phase oil			0.002 m
iii Ei	mulsification factor	(If applicable, else 0%)			30.000 %
					
E	stimated Volume of p	ool of free phase oil, V _{pool}			0.00 m³
E	stimated Volume of p	ool of free phase oil, V _{pool}		_	0.00 bbls
					0.00 0.014
	Computation of actimat	ed volume of inflitrated oil in the so	8.07 L		
			H (V int)		
	folume of infiltrated of				
	otal area covered by the				2.00 m²
		on above leaking facility i.e. plpeline/fl	towline		0.300 m
	igil type	sb			Silt 🔛
(V Pa	(effective porosity of the	e sou)			%
¥ Ci	ause of spill				Third party interference
_					
vi	Calculation of days for	infiltration below the leaking point on	pipeline or flowline		
	Incident Date	JIV Date	Days on Site		
	4/8/2014 13:40	4/10/2014 14:35	2		
1)	A COURS OF SOM IS DOM	'Afficiari'. Han 1 wank as worst casa			
Ľ		rational, use 1 week as worst case them 'days on site' exceeds 7	7		
Ľ		here 'days on site' exceeds 7	7		
		tiers 'days on site' exceeds 7	·		
L'	scenario except w	tiens 'days on site' exceeds 7 Infiltration of all types in verious soil	types vs time.	nd level	-}
E	scenario except w Soil type	tiers 'days on site' exceeds 7	types vs time. 1m depth below grou]
	scenario except w Soil type	hera 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand	types vs time. 1m depth below grou Loam	Clay	
0180	Scenario excent w Soli type Dii type Ionny Medium	thera 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks	types vs time. 1m depth below grou Loam 3 years	Clay > 10 years	
0180	scenario except w Soil type	hera 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand	types vs time. 1m depth below grou Loam	Clay	· -
Oi Be	Scenario except w Soli type Onny Medium Bonny Light	thera 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks	types vs time. 1m depth below grou Loam 3 years	Clay > 10 years	
Oi Oi	Scenario except we Soli type Sil type Sonny Medium Sonny Light	there 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	Bonny Medium
Oi Oi	Scenario except we Soli type Sil type Sonny Medium Sonny Light	thera 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	Bonny Medium
Oi Bo Vii Oi Viii As	Scenario except we Soli type Sonny Medium Sonny Light Sil type Serage depth of infiltration	there 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	Bonny Medium
Oi Bo Vii Oi Viii As	Scenario except we Soli type Sonny Medium Sonny Light Sil type Serage depth of infiltration	there 'days on site' exceeds 7 Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	Bonny Medium Trn
vii Oi Viii As k To	Soli type Soli type Sony Medium Sonny Light Solitype Sorny Light Solitype Sorny Light Solitype Solityp	there 'days on site' exceeds ? Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	m m
vii Oi viii Ax k To	Soli type Soli type Sony Medium Sonny Light Solitype Sonny Light Solitype S	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	т
vii Oi viii Ax k To	Soli type Soli type Sony Medium Sonny Light Solitype Sorny Light Solitype Sorny Light Solitype Solityp	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	m m 0.13 m²
vii Oi viii Ax k To	Soli type Soli type Sony Medium Sonny Light Solitype Sonny Light Solitype S	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1m depth below grou Loam 3 years 2 months	Clay > 10 years	m m
vii Oi kviii Ax kx To	Soli type Soli type Sonny Medium Sonny Light Soli type Sonny Light Soli type	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1 m depth below grou Loam 3 years 2 months	Clay > 10 years	m m 0.13 m ³
vii Oi Viii As k To	Soli type Soli type Sonny Medium Sonny Light Soli type Sonny Light Soli type	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/fit surface of infiltration of all Iltrated off, V into	types vs time. 1 m depth below grou Loam 3 years 2 months	Clay > 10 years	m m 0.13 m²
vii Oi Viii Ax kx To Est 2 Vx 1 To	Scanario except we Soil type Soil type Sonny Medium Sonny Light Sil type verage depth of infiltration Stimeted Volume of infiltrated oil old area covered by the	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all littrated all, V _{Ma} lat second spill point [if applicable oil (infiltration)	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis
vii Oi BAB Viii Av Ix To Est	Scanario except we Soil type Soil type Sonny Medium Sonny Light Sil type verage depth of infiltration Stimeted Volume of infiltrated oil old area covered by the	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/fit surface of infiltration of all Iltrated off, V into	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis
vii Oi ka to viii An lx To EE I To ii An iii So	Scanario except we Soil type Somy Medium Sonny Light Soil type Interpolation of infiltration Stimeted Volume of infiltrated oil old area covered by the overage depth of infiltrated oil old area covered by the overage depth of infiltration.	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V intelligence oil (infiltration) at second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m ² 0.80 bbis
vii Oi ka to viii An lx To EE I To ii An iii So	Soli type Soli type Soli type Sonny Medium Sonny Light Soli type Sorny Medium Sonny Light Soli type Soli t	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V intelligence oil (infiltration) at second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis
VI OI VIII AN EST I TAN III SOC IV P.	Scenario excent we Soli type Soli type Soli type Sonny Medium Sonny Light Soli type So	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all Sitrated all, V inte et al. accord spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file et soil)	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbls 0.00 m² m sit
VI OI VIII AN EST I TAN III SOC IV P.	Scenario excent we Soli type Soli type Soli type Sonny Medium Sonny Light Soli type So	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V intelligence oil (infiltration) at second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis
vii Oi O	Soli type Soli type Sony Medium Sony Light Soli type Sonny Medium Sonny Light Soli type Sol	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all filtrated off, V into intitration) at second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file e soil) on below leaking facility i.e. pipeline/file on below leaking facility i.e. pipeline/file	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sik
vii Oi O	Soli type Soli type Sony Medium Sony Light Soli type Sonny Medium Sonny Light Soli type Sol	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all Sitrated all, V inte et al. accord spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file et soil)	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbls 0.00 m² m sit
vii Oi Back Rich Viii Oi Viii Av Ess I To II Av III So IV P. V Av Vi To	Scanario except we Soil type Soil type Sonny Medium Sonny Light Soil type Sonny Light Soil type Sotal depth below ground Satimated Volume of Infiltrated Soil type Soil type Solid area covered by the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all Strated oil, V by a Wasted oil, V by a (infiltration) on above leaking facility i.e. pipeline/file e soil) on below leaking facility i.e. pipeline/file surface of infiltration of all	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m Sik %
Vii Oi Avii Av To Sii Say Vii To Sii	Soli type Soli type Soli type Sonny Medium Sonny Light Soli type Sonny Medium Sonny Light Soli type Soli t	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V _{inte} let second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file e soil) on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V _{inte}	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sik
Vii Oi Avii Av To Sii Say Vii To Sii	Scanario except we Soil type Soil type Sonny Medium Sonny Light Soil type Sonny Light Soil type Sotal depth below ground Satimated Volume of Infiltrated Soil type Soil type Solid area covered by the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type Leffective porosity of the sverage depth of Infiltration Soil type	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V _{inte} let second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file e soil) on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V _{inte}	types vs time. 1 m depth below grou Loam 3 years 2 months owline	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m Sik %
Vii Oi Avii Avi To	Soli type Soli type John Medium John Medium John Light Soli type John Medium John Light Soli type John Medium John Light John L	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated all, V late above leaking facility i.e. pipeline/file oil (infiltration) on above leaking facility i.e. pipeline/file surface of infiltration of all ittrated all, V late litrated all, V late	types vs time. 1 m depth below grou Loam 3 years 2 months owline (V _{tern})	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sit
vii Oi Aviii	Soli type Soli type John type John Medium John Light Soli type John Medium John Light Soli type John Light John Ligh	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V late lat second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V late litrated oil, V late litrated oil, V late outside immediate spill point(s) no	types vs time. 1 m depth below grou Loam 3 years 2 months owline (V _{tern})	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sit
vii Oi Avii Av To See Vi T	Scanario excent we Soli type John type John Medium John Light	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all Strated oil, V inte Strated	types vs time. 1 m depth below grou Loam 3 years 2 months owline (V _{tern})	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sit
vii Oi Avii Av To See Vi T	Scanario excent we Soli type John type John Medium John Light	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V late lat second spill point [if applicable oil (infiltration) on above leaking facility i.e. pipeline/file surface of infiltration of all litrated oil, V late litrated oil, V late litrated oil, V late outside immediate spill point(s) no	types vs time. 1 m depth below grou Loam 3 years 2 months owline (V _{tern})	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sik 0.00 m² m m 0.00 m²
vii Oi Aviii Av To See Vii To See	Scanario excent we Soli type John type John Medium John Light	Infiltration of all types in various soil Approximate time to reach Sand 3 weeks 2 days on below leaking facility i.e. pipeline/file surface of infiltration of all Strated oil, V inte Strated	types vs time. 1 m depth below grou Loam 3 years 2 months owline (V _{tern})	Clay > 10 years	0.13 m² 0.80 bbis 0.00 m² m sik

0,01 m³ 0.05 bbis

v Average depth below ground surface of inffitration of oil

Estimated Volume of infiltrated oil, V_{arc} Estimated Volume of infiltrated oil, V_{afc}

Estimated Total Volu	me of infiltrated oil, V _{inf}			0.14 m ³
Computation of volum	re of oil on open water based on stan	derd coloration		
Total area of oil on oper	n water			lm²
	of oil on water based on coloration			
		Link to Coverson Visual		
p ® Factors from USCG FO	3 (2000 Edition)	Aid Percentage coverage		_
	Thickness (mm)	(%)	Volume (m3)	
<u>Barely Visible</u>	€ 0.00004		0.0000	1
Silven	Y 0.000cs		0.0000	d
Slight Colo	0.00015		0.0000	1
Bright Colo	Y 0.0003		0.0000	1
<u>Du</u>	0.001		0.0000	1
<u>Dari</u>	6.002		0.0000	1
Błack o	<u> </u>		0.0000	<i>t</i>
Emulsion (30% Oil		i	0.0000	1
	Percent Total:	0%	0.0000	1
				•
atimated Volume of	oll on open water, V _{wet}			0.00 m³
atimated Volume of	oll on open water, V _{wet}			0,00 bbls
				*
Residence tin	ne of spiffed oil (days on site)	Oil ty		
		Bonny Light	Bonny Medium	
	<1 day	10%	5%	
	1-7 ditya	25%	15%	
	> 7 days	40%	25%	
Vas oil recovery before	JIV completion done before JIV date?			No 🔻
stimated volume availa				bbis
				DOSS
-factor				
-120101				%
				%
	waporated oil, V _{evap}		<u> </u>	0.15 bbls
etimated Volume of			<u> </u>	
etimated Volume of	evaporated oil, V _{evap}			0.15 bbls
ethnated Volume of a				
ethnated Volume of det Total Estimated	d Spilled Volume, V _{Est}			0.15 bbls
ethnated Volume of a let Total Estimated	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE	ELLHEAD		0.15 bbls
ethnated Volume of a let Total Estimated CALCULATION OF any Gross Production rate (d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE		bbVd	0.15 bbls
etimated Volume of a let Total Estimated CALCULATION OF thy Gross Production rate (all Gas-Oi-Ratio	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE		bbl/d	0.15 bbls
etimated Volume of a let Total Estimated CALCULATION OF any Gross Production rate (all Gas-Oil-Ratio et on Fire	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE		bbVd	0.15 bbls
etimated Volume of a let Total Estimated CALCULATION OF any Gross Production rate (let Ges-Oil-Ratio ell on Fire tito of Oil production from t	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE		bbl/d	0.15 bbls
ethnated Volume of a let Total Estimated CALCULATION OF any dross Production rate (all Gas-Oil-Ratio of Oil production from to a grange hourly oil flow rate	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE	Yes 0%	bbl/d bbl/hr	0.15 bbls
ethnated Volume of a let Total Estimated ALCULATION OF ally Gross Production rate (half Gas-Ol-Ratio half on Pise stic of Of production from to verage hourly oil flow rate stomatic shut down (Coope	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE (0): WellOR!* We Conserve Unit (CCU) Activated	Yes 0%		0.15 bbls
etimated Volume of a let Total Estimated ALCULATION OF let Gas-Ol-Ratio let Gas-Ol-Ratio let on Five stic of Ol production from to let gas hourly oil flow rate stomatic shut down (Coope	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE (0): WellOR!* We Conserve Unit (CCU) Activated	Yes 0% 0.0		0.15 bbls
ethnated Volunte of a let Total Estimated ALCULATION OF any Group Production rate (all on Fire and one of the of Ol production from the stone of Ol production from the stone of Ol production (Coope scanding of Valve opening of Nourly leak to the environ	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE ON: WORKER WORKER	Yes 0% 0.0	bbl/hr	0.15 bbls
ethnated Volunte of a let Total Estimated ALCULATION OF any Group Production rate (all on Fire and one of the of Ol production from the stone of Ol production from the stone of Ol production (Coope scanding of Valve opening of Nourly leak to the environ	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE ON: WORKER WORKER	Yes 0% 0.0. Yes 1%	bbl/hr	0.15 bbls
etimated Volume of a let Total Estimated CALCULATION OF any Gross Production rate (all Gas-Oil-Ratio let on Fire sto of Oil production from the stage hourly oil flow rate	d Spilled Volume, V _{Est} SPILLED VOLUME FROM A WE ON: WORKER WORKER	Yes 0% 0.0. Yes 1%	bbl/hr	0.15 bbls

В

THE SHEL	L PETROLEUM DEVELOPMENT COMPANY OF NIGERIA	LIMTED.
JOINT INVESTIGATION I	REPORT FOR INCIDENT NO: 1154900 JIV report S/N:	0507
G. INCIDENT INFO		0307
20. Impacted Area		
		
• Total	calculated area of impact 0.0024 Hg	
• Impa	ct within SPDC R.O.W	_
• Impa	ct outside SPDC R.O.W NO	
21. Volume of oil	recovered before completion of JIV (V _{recl}):	
	Recovered oil V _{reef} :	Barrels
Controlled recov	ery/evacuation from source with no impact to environment:	
	M.L. Barrels	
22. Net Estimated	Spilled Volume V _{Est} (bbls)* =	
	1 BARRETS	
Estimated Reported V	olume** V _{rep} (bbls)=	
L	BARREIS.	
*Notes:		
Reported spilled y	n was done using an excel based tool.(see attached for details on the calculation) valume is an estimate	
Write other relevant no	tes taken into consideration for estimating the spilled in the box below:	
Calculation of the remostive	performance of the form on the second of the	
Conversion of m' to barrels i	estimated volume is to be done on site as far as practicable using the new spill volume estim s Volume (m3) x 6.29; **Round up estimated volume to next whole number using the follow	ation software on sile; ing rules:
Any spill volume i	n excess of 1 bbl is rounded up to the next whole number.	
 Any spill volume i 	n less than 1 bbl is rounded 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 Calculated volume = 0.01 bbl Reported volume = 0.1 bbl.	

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,

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 11569 00 JIV report S/N:

DII		ESTIGATION REPORT FOR INCIDENT NO: 1156900 JIV report S/N: 0507 GENERAL STATUS OF THE SITE	,
	Α.	Joint investigation of the incident site found that there is no residual impact after the initiaresponse and JIT therefore recommend that the site be closed out	al
	B.	Investigation of the incident site showed that there is residual impact on site requiring furth works	er
	24.	REPRESENTAȚIVES	
	This r	eport 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]:	
ļ	•	Shell Petroleum Development Company [SPDC]:	
		Signatories agree with reported findings:	
	•	Separate DPR form has been filled out with same findings	

Tick as applicable

JOINT INVESTIGATION REPORT FOR INCIDENT NO: 1156900 JIV report S/N:

0507

25. Appendix 1: Overview sketch of the site

