District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Revised August 8, 2011

Form C-141

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

OPERATOR				Rele	ease Notific	ation	and Co	orrective A	ction			
Address: 4001 N. Butler, Bidg 7101, Farmington, NM 87401 Telephone No.: 505-436-2606 Facility Name: LOGOS 10 Facility Type: Oil Well Surface Owner: Jicarilla Mineral Owner: Jicarilla API No.: 30-043-21158 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the Sorth/South Line Feet from the Sast/West Line County SANDOVAL Latitude 36:16463 Longitude 107.41022 NATURE OF RELEASE Type of Release: Produced water Volume of Release: -3.5bbls Volume Recovered: -3.5bbls Source of Release: Hydrera tank Date and Hour of Occurrence: Date and Hour of Discovery: 1226/13 13:00br Was Immediate Notice Given? Vest No Not Required By Whon? Tamra Sessions Vest No Not Required By Whon? Tamra Sessions Fif YES, Volume Impacting the Watercourse Reached? If YES, Volume Impacting the Watercourse Reached? If YES, Volume Impacting the Watercourse Reached? If YES, Volume Impacting the Watercourse was Impacted, Describe Fully.* N/A FEB 0.2 2015 Describe Cause of Problem and Remedial Action Taken.* FEB 0.2 2015 Describe Cause of Problem and Remedial Action Taken.* FEB 0.2 2015 Describe Area Affected and Cleanup Action Taken.* Stained dirt around west side of Hydrera tank. Cleaned up when Hydrera tank was dismantled. Any waste was hauled off with the remaining bottoms from the Hydrera tank. Envirotech sampled 1/23/14, results below levels, see attached report. It add from the Individual Control of Hispotra tank was dismantled. Any waste was hauled off with the remaining bottoms from the Hydrera tank in the Information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or flie certain release notifications and perform corrective actions for releases which may endanger the Hydrera tank are purporations have failed to adequately investigate are unrounded as Final Report does not relieve the operator of report and/or flie c							OPER	ATOR		Ini	tial Report	x Final Repor
Facility Type: Oil Well												
Surface Owner: Jicarilla) I, Farmı	ngton, NM 874		_		506			
Location of Release Section Township Range Sw 1930' PSL Sw 1930' PSL Sw 1930' PSL Sw Sw 1930' PSL Sw Sw Sw Sw Sw Sw Sw								oc. On wen				
Latitude Section Township Range SW 1930' FSL SanDoVAL SanDo	Surface Ow	ner: Jicari	lla		Mineral C	wner: J	licarilla			API No	0.: 30-043-211:	58
Latitude 36.16463												
Source of Release: Produced water			1				South Line			Vest Line		
Source of Release: Produced water				1					_			
Date and Hour of Occurrence: Date and Hour of Occurrence: Date and Hour of Discovery:	T	D	1		NAT	URE	_				1 2 5	
Was Immediate Notice Given? Yes No Not Required If YES, To Whom? Jonathon Kelly, OCD discovered & notified LOGOS personnel. Logos notified Byce Hammond & Rod Vetarde. Jicarilla BLM Dear and Hour: 12,2713 08:00hr Jonathon Kelly, OCD discovered & notified LOGOS personnel. Logos notified Byce Hammond & Rod Vetarde. Jicarilla BLM Dear and Hour: 12,2713 08:00hr Jonathon Kelly, OCD discovered & notified LOGOS personnel. Logos notified Byce Hammond & Rod Vetarde. Jicarilla BLM Dear and Hour: 12,2713 08:00hr Jonathon Kelly, OCD discovered & notified LOGOS personnel. Logos notified Byce Hammond & Rod Vetarde. Jicarilla BLM Jonathon Kelly, OCD Jonathon Kell												
Symbol Not Required Jonathon Kelly, OCD discovered & notified LOGOS personnel. Logos notified Bryce Hammond & Rod Velarde, Jicarilla BLM							12/26/13 H	Iour unknown				.,.
Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. RECEIVED	Was Immedia	ate Notice (Yes] No 🔲 Not Re	equired	Jonathon K	Celly, OCD discov				
Yes No RECFIVED												
Describe Cause of Problem and Remedial Action Taken.* Pin hole in Hydrera tank @-5' caused leaking. 460bbls of fluid was pulled out of the Hydrera tank which stopped the leaking. Logos, dug small hole (4x4x3) to contain fluid. Sucked all free standing fluid out of hole daily with TRC pump (until leaking stopped, approximately 3 days) and returned fluid to Hydrera tank. Describe Area Affected and Cleanup Action Taken.* Stained dirt around west side of Hydrera tank. Cleaned up when Hydrera tank was dismantled. Any waste was hauled off with the remaining bottoms from the Hydrera tank. Envirotech sampled 1/23/14, results below levels, see attached report. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Attached Date: 02/02/2015 Phone: 505-436-2606							If YES, Vo	olume Impacting t	he Wate	rcourse.	RECEIV	(FD)
Pin hole in Hydrera tank @-5' caused leaking. 460bbls of fluid was pulled out of the Hydrera tank which stopped the leaking. Logos, dug small hole (4x4x3) to contain fluid. Sucked all free standing fluid out of hole daily with TRC pump (until leaking stopped, approximately 3 days) and returned fluid to Hydrera tank. Describe Area Affected and Cleanup Action Taken.* Stained dirt around west side of Hydrera tank. Cleaned up when Hydrera tank was dismantled. Any waste was hauled off with the remaining bottoms from the Hydrera tank. Envirotech sampled 1/23/14, results below levels, see attached report. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD material as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approved by Environmental Specialist: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approved by Environmental Specialist: OIL CONSERVATION DIVISION Approved by Environmental Specialist: OIL CONSERVATION DIVISION	If a Watercou	irse was Im	pacted, Descr	be Fully.*	* N/A					The second second	FEB 0 3 2	015
Stained dirt around west side of Hydrera tank. Cleaned up when Hydrera tank was dismantled. Any waste was hauled off with the remaining bottoms from the Hydrera tank. Envirotech sampled 1/23/14, results below levels, see attached report. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Approved by Environmental Specialist: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Conditions of Approval: Attached Attached Date: 02/02/2015 Phone: 505-436-2606	Pin hole in H (4x4x3) to co	ydrera tank ntain fluid.	@~5' caused	leaking.	460bbls of fluid w	vas pulle e daily w	d out of the I	Hydrera tank whic np (until leaking s	h stoppe topped,	ed the leaki	ing. Logos, dug	small hole
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: OIL CONSERVATION DIVISION Approved by Environmental Specialist: Approval Date: 4/4/2015 Expiration Date: Conditions of Approval: Attached Date: 02/02/2015 Phone: 505-436-2606	Stained dirt a	round west	side of Hydre	ra tank. C	leaned up when H	ydrera t	ank was disn tached report	nantled. Any was	te was h	auled off w	vith the remaining	g bottoms from
Signature: Approved by Environmental Specialist: Approved by Environmental Specialist: Approved by Environmental Specialist: Approval Date: 4/6/2015 Expiration Date: E-mail Address: tsessions@logosresourcesllc.com Date: 02/02/2015 Phone: 505-436-2606 Approved by Environmental Specialist: Expiration Date: Attached Approved by Environmental Specialist: Approval Date: 4/6/2015 Expiration Date: Conditions of Approval: Attached Attached Date: 02/02/2015 Phone: 505-436-2606	regulations al public health should their of or the environ	I operators or the envir operations h nment. In a	are required to conment. The ave failed to a ddition, NMO	acceptance acceptance adequately OCD accep	nd/or file certain re te of a C-141 repo investigate and re	elease no rt by the emediate	otifications are NMOCD me contaminati	nd perform correct arked as "Final Ro on that pose a thre	tive action eport" do eat to gro	ons for rele oes not reli ound water	eases which may eve the operator , surface water, h	endanger of liability numan health
Printed Name: Tamra Sessions Approved by Environmental Specialist: Approval Date: 4/6/2015 Expiration Date: E-mail Address: tsessions@logosresourcesllc.com Conditions of Approval: Attached Date: 02/02/2015 Phone: 505-436-2606	Signature:	tan	form	i				OIL CONS	SERV	ATION	DIVISION	N
E-mail Address: tsessions@logosresourcesllc.com Conditions of Approval: Attached Date: 02/02/2015 Phone: 505-436-2606		e: Tamra Se	essions			F	Approved by	Environmental Sp	pecialist:	DIA.	W. Lu	lh
Date: 02/02/2015 Phone: 505-436-2606	Title: Operat	ions Techni	ician			A	Approval Dat	e: 4/6/20	15 E	Expiration I	Date:	0
	E-mail Addre	ess: tsession	ns@logosreso	urcesllc.co	om		Conditions of	Approval:			Attached	
					436-2606						1 11	

NJK 1509654675



Analytical Report

Report Summary

Client: Logos Operating, LLC

Chain Of Custody Number: 16559

Samples Received: 1/23/2014 3:10:00PM

Job Number: 12035-0040 Work Order: P401072

Project Name/Location: Logos #10

Entire Report Reviewed By:

Date: 1/31/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number:

12035-0040

Project Manager:

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
Backfill Material Composite	P401072-01A	Soil	01/23/14	01/23/14	Glass Jar, 4 oz.	
3' BGS Bepeath Former Tank	P401072-02A	Soil	01/23/14	01/23/14	Glass Jar, 4 oz.	Ü
Composite						



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number:

12035-0040

Project Manager:

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Backfill Material Composite P401072-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Cation/Anion Analysis									
Chloride	32.7	9.83	mg/kg	1	1404028	01/24/14	01/24/14	EPA 300.0	



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number:

12035-0040

Project Manager:

Tiffany McIntosh

Reported: 31-Jan-14 11:09

3' BGS Beneath Former Tank Composite P401072-02 (Solid)

Labor	D. L.	Reporting	***	Dil di	D . I	n .			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %	80-	-120	1404027	01/24/14	01/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		107 %	80-	120	1404027	01/24/14	01/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1404027	01/24/14	01/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1404026	01/24/14	01/24/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	74.3	9.86	mg/kg	1	1404028	01/24/14	01/24/14	EPA 300.0	



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number: Project Manager: 12035-0040

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	D ls	Reporting	Unite	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70KEC	Limits	KPD	Limit	Notes
Batch 1404027 - Purge and Trap EPA 5030A										
Blank (1404027-BLK1)				Prepared: 2	23-Jan-14 A	Analyzed: 2	4-Jan-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	**							
Ethylbenzene	ND	0.05	**							
p,m-Xylene	ND	0.05	н							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	**							
Total BTEX	ND	0.05	11							
Surrogate: 1,3-Dichlorobenzene	52.6		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	54.5		"	50.0		109	80-120			
Duplicate (1404027-DUP1)	Sou	rce: P401066-	-01	Prepared: 2	23-Jan-14 A	Analyzed: 2	4-Jan-14			
Benzene	4.84	0.05	mg/kg		4.19			14.5	30	
Toluene	12.4	0.05	11		12.7			2.09	30	
Ethylbenzene	0.81	0.05	19		0.78			3.59	30	
p,m-Xylene	7.34	0.05	**		7.47			1.79	30	
o-Xylene	1.11	0.05	**		1.11			0.436	30	
Surrogate: 1,3-Dichlorobenzene	202		ug/L	50.0		404	80-120			S-0
Surrogate: Bromochlorobenzene	68.3		"	50.0		137	80-120			S-0
Matrix Spike (1404027-MS1)	Sou	rce: P401066-	01	Prepared: 2	3-Jan-14 A	Analyzed: 2	4-Jan-14			
Benzene	7.68	0.05	mg/kg	2.50	4.19	140	39-150			
Toluene	16.3	0.05	**	2.50	12.7	144	46-148			
Ethylbenzene	3.49	0.05	"	2.50	0.78	108	32-160			
o,m-Xylene	13.0	0.05	**	5.00	7.47	111	46-148			
o-Xylene	3.91	0.05	**	2.50	1.11	112	46-148			
Surrogate: 1,3-Dichlorobenzene	221		ug/L	50.0		443	80-120			S-0
Surrogate: Bromochlorobenzene	72.1		"	50.0		144	80-120			S-0

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Page 5 of 10



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number:

12035-0040

Project Manager:

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404026 - DRO Extraction EPA 3550C										
Blank (1404026-BLK1)				Prepared: 2	23-Jan-14	Analyzed: 2	4-Jan-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1404026-DUP1)	Sour	ce: P401066-	01	Prepared: 2	3-Jan-14	Analyzed: 2	4-Jan-14			
Diesel Range Organics (C10-C28)	340	29.9	mg/kg		372			9.05	30	
Matrix Spike (1404026-MS1)	Source	ce: P401066-	01	Prepared: 2	3-Jan-14	Analyzed: 2	4-Jan-14			
Diesel Range Organics (C10-C28)	605	31.6	mg/kg	263	372	88.5	75-125			

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envirotech-inc.com



PO Box 18

Flora Vista NM, 87415

Project Name:

Logos #10

Project Number:

12035-0040

Project Manager: Tiffa

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404027 - Purge and Trap EPA 5030A										
Blank (1404027-BLK1)				Prepared: 2	23-Jan-14	Analyzed: 2	4-Jan-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1404027-DUP1)	Sour	ce: P401066-	01	Prepared: 2	23-Jan-14	Analyzed: 2	4-Jan-14			
Gasoline Range Organics (C6-C10)	133	4.99	mg/kg		133			0.0246	30	
Matrix Spike (1404027-MS1)	Source: P401066-01			Prepared: 23-Jan-14 Analyzed: 24-Jan-14						
Gasoline Range Organics (C6-C10)	159	5.00	mg/kg	22.5	133	118	75-125			



Project Name:

Logos #10

PO Box 18

Flora Vista NM, 87415

Project Number: Project Manager: 12035-0040

Tiffany McIntosh

Reported:

31-Jan-14 11:09

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1404028 - Anion Extraction EPA 300.0										
Blank (1404028-BLK1)				Prepared &	Analyzed:	24-Jan-14				
Chloride	ND	9.94	mg/kg							
LCS (1404028-BS1)				Prepared &	Analyzed:	24-Jan-14				
Chloride	498	9.97	mg/kg	499		99.9	90-110			
Matrix Spike (1404028-MS1)	Sour	ce: P401067-	01	Prepared &	Analyzed:	24-Jan-14				
Chloride	545	9.95	mg/kg	498	ND	110	80-120			
Matrix Spike Dup (1404028-MSD1)	Sour	ce: P401067-	01	Prepared &	Analyzed:	24-Jan-14				
Chloride	553	9.96	mg/kg	498	ND	111	80-120	1.48	20	



Project Name:

Logos #10

PO Box 18

Project Number:

12035-0040

Flora Vista NM, 87415

Project Manager:

Tiffany McIntosh

Reported: 31-Jan-14 11:09

Notes and Definitions

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present

in the sample extract.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

CHAIN OF CUSTODY RECORD

16559

Client: Logos Operating Project Name / Location: Logos # 10 Email results to: Sampler Name:													Αľ	VALY	'SIS	/ PAF	RAME	ETER	S				
Email results to: Ti McIntosk		Sai	mpler Name: T. McInt						3015)	18021)	8260)	S				<u>-</u>							
Client Phone No.: 505 - 320 - 28	57	Clie	ent No.: 12035 - 00	040					TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	418.1)	RIDE				Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers			eservat HCI	cool	TPH (I	BTEX	voc (RCRA	Cation	RCI	TCLP	CO Ta	TPH (418.1)	CHLORIDE				Samp	Samp
backfill material composite	1/23/14	1055	P401072-01	1-40	zjar			X										X			'	1	Y
3' BGS beneath former tank		1130	P401072-02	1 -				1	X	X								X				3	y
composite								_													_	-	\perp
																					\perp		-
																		_		\dashv	+	+	-
	 																			+	+	+	-
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Relinquished by: (Signature)	MIN	utor/	1	Date 1/24//4		Rece	ived	by: (S	ignat	ture)	4			2	_						ate My	Tir	
Relinquished by: (Signature)	, v ov a	1000000		7-71		Rece	ived	by: (S	Signat	ture)		\leftarrow			-					04	<u> 14</u>	_12	_K
Sample Matrix																							
Soil Solid Sludge																							
☐ Sample(s) dropped off after	r hours to se	cure drop o	off area.	∌ €	en V Ana	ir (lytic	o t	e	Cl	n ry				;	7	l	0.	5					
5795 US Highway 6	64 • Farming	ton, NM 874	01 • 505-632-0615 •								Duran	go, C	00 81	301 4	labo	orato	ry@ei	nvirot	ech-in	P	age '	10.0	of 10