

Test Report

Test report No.:
T-J0005-I0120

Date of issue:
2017-12-01

Applicant: Bee-Fee Ltd., 27 Old Gloucester Street, WC1N 3AX London, United Kingdom	Manufacturer: Bee-Fee Ltd., 27 Old Gloucester Street, WC1N 3AX London, United Kingdom
Product: Riches From The Deep	Target device: BF Games
Product type: Internet games (reels)	Target device type: Internet gaming system
Jurisdiction: United Kingdom	
Test Criteria: Remote gambling and software technical standards June 2017.	
Pages (with annexes): 13	
Verdict (subject to conditions in Chapter 1): Pass	
Test report type: Game	Subject file No.: 17000460023
Test group(s): Payback, Software	
Remarks: N.A.	

Project responsible person [signature]:

Reviewed by [signature]:

Gregor Zakrajšek

Franci Pikl



1 Conditions and settings for compliance with test criteria

Testing performed with English language setting.

Game texts are stored in file **allJSON.json**; this file shall include the following section:

"rfd_rules_about": "Riches from the Deep is a 5-reel, 3-row video-slot with 20 paylines. The objective is to land as many identical symbols as possible along a payline. Winning combinations start on the first reel on the left (excluding SCATTER symbols) and run along an active payline to the last reel on the right. Only the highest winning combination is paid per line.",

"rfd_rules_free_spins": "Landing three or more SCATTER symbols will trigger 12 Free Spins, with extra Stacked WILD symbols. If Free Spins are re-triggered, the player unlocks 12 extra Free Spins, which are added to the current number of Free Spins. Free Spins are played using the same trigger bet and paylines that were active during the normal gameplay mode in which Free Spins were triggered. During Free Spins an alternate set of reels is used.",

"rfd_rules_wild_symbol": "The WILD in the game is the WILD symbol. Wins using a combination of WILD symbols only are possible. WILDs can appear on all reels and substitute for all other symbols except for the SCATTER symbol. Only one WILD symbol can land on each reel. WILD and SCATTER symbols cannot appear simultaneously on the same reel.",

"rfd_rules_scatter_symbol": "The SCATTER in the game is the SCATTER symbol. Landing three or more SCATTER symbols will trigger 12 Free Spins. SCATTER symbols can only appear on reels 1, 3 and 5. Only one SCATTER can appear on each reel. WILD and SCATTER symbols cannot appear simultaneously on the same reel.",

"rfd_rules_stacked_symbols": "In regular play, the STACKED symbol is the WOMAN symbol. Two or three WOMAN symbols can be stacked on each reel. Therefore, it is possible to spin fifteen WOMAN symbols on the reels. During Free Spins, the STACKED symbols are both the WILD and WOMAN symbol. Two or three of these symbols can be stacked on each reel. Therefore, it is possible to spin fifteen WOMAN symbols on the reels. Furthermore, it is also possible to spin fifteen WILD symbols on the reels. In this last case Player wins 5 WOMAN on all lines with bet."

To comply with RTS 8 Auto-play functionality, server configuration (available in adminui) shall include the following setting:

"autoplaySpinCountLimits": [10, 20, 30, 40], //number of autospins

To comply with RTS 13B Reality checks functionality, server configuration (available in adminui) shall include the following setting:

"realityChecks": [{"caption": "RealityCheck", "interval": 600, "isDefault": true}]

2 Protection against unauthorized access

See the corresponding platform test report(s).

3 Gaming device general properties

General device design:	Server, Linux, MongoDB
Cabinet(s):	N.A.
Available player denominations:	N.A.
Available tokenizations:	N.A.



Supported communication protocols:	N.A.
Supported progressives:	N.A.
Minimum bet (credits):	1 (per line)
Maximum bet (credits):	20 (per line)

4 Annexes

Annex / Test group	Attached [yes/no]	Remark
Functional tests	No	/
Randomness tests	No	/
Payback ratio tests	Yes	/
Software analysis	Yes	/
Device specific tests	No	/
Other annexes	No	/

5 Previous / transferred test reports results

N.A.

6 Additional information

The following RTS articles from Remote gambling and software technical standards, June 2017 were reviewed during testing and found compliant:

- RTS 1 Requirements 1A (before April 1, 2018), 1A (after April 1, 2018), 1B (before April 1, 2018), 1B (after April 1, 2018), 1C (after April 1, 2018): **Not applicable (IGS requirements)**
- RTS 2 Requirements 2A (before April 1, 2018), 2A (after April 1, 2018), 2B (before April 1, 2018), 2B (after April 1, 2018), 2C (after April 1, 2018), 2D: **Game compliant where applicable, see also IGS and RGS tests**
- RTS 3 Requirements 3A, 3C, 3D: **Game compliant where applicable (No virtual events)**
- RTS 4 Requirements 4A, 4B: **Game complies (No influence for time-critical events)**
- RTS 5 Requirement 5A: **Game complies**
- RTS 6 Requirement 6A: **Game complies**
- RTS 7 Requirements 7A, 7B, 7C, 7D, 7E: **Game compliant where applicable (see also RGS tests)**
- RTS 8 Requirement 8A: **Game complies**
- RTS 9 Requirements 9A, 9B: **Not applicable (No progressives configured during testing)**
- RTS 10 Requirements 10A, 10B, 10C: **Not applicable (No peer-to-peer betting; Stateless game)**
- RTS 11 Requirements 11A (before October 1, 2018), 11A (after October 1, 2018), 11B (before April 1, 2018), 11B (after April 1, 2018): **Not applicable (No peer-to-peer betting)**
- RTS 12 Requirements 12A (before April 1, 2018), 12A (after April 1, 2018), 12B: RTS 8 Requirement 8A: **Not applicable (not game related)**



- RTS 13 Requirements 13A, 13B: **Game complies**
- RTS 14 Requirement 14A: **Game complies**
- RTS 15 Requirement 15A: **Not applicable (classic internet reel game)**
- RTS 16 Requirements 16A, 16B (after October 1, 2018), 16C: **Not applicable (no peer-to-peer)**
- RTS 17 Requirement 17A: **Not applicable (no live dealer studios)**

7 Documentation references

The following documentation was used:

- User help,
- Screen capture images,
- Par sheets, Game description,
- Source code and configuration files.

8 Other test report references

Test group	Laboratory	Test report identification and date	Remarks
Functional tests	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)
Software analysis	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)
Randomness tests	SIQ	T-J0005-I0098, 2017-12-01	BF Gameserver (with extensions)

Test report replacements and extensions may apply.



1 Description of the game

Game Notes

This is a 3x5 video slot. The number of lines: 20.

All winning combinations are left to right only on a pay line.

Only the highest winning combination is paid per line.

Minimum bet per line: 1

Maximum bet per line (recommended): 20

All wins are multiplied by the line bet.

3 Scatter symbols trigger 12 Free Spins

Wild Symbol

Wild symbols appear on all five reels.

Substitutes for all symbols on the same reel, except for the scatter.

When all reels are stopped, on each reel on the screen can be seen only one Wild or Scatter symbol, but not together.

There are not winnings from Wild symbols only. Wild symbols make winnings of Lady on line with bet.

Scatter Symbol

Scatter symbols appear on 1st, 3rd and 5th reels only.

3 Scatter symbols trigger 12 Free Spins.

When all reels are stopped, on each reel on the screen can be seen only one Wild or Scatter symbol, but not together.

Symbol

- TEN
- JACK
- QUEEN
- KING
- ACE
- CANNON
- MARMAID
- SHIP
- LADY
- WILD
- SCATTER

Free Spin Feature

3 or more Scatter symbols trigger 12 Free Spins.

Free spins can be retriggered.

In case of retriggering of the free spins, the player wins 12 new free spins, which are added to the current number of free spins.

Free Spins are played at triggered bet and lines.

During the free spins an alternate set of reels is used.

Stacked Symbols

In regular, normal games only LADY symbol can be stacked. 2 or 3 LADY symbol can be seen on each reel. 15 LADY symbols on screen are possible.

In Free Spins mode both WILD and LADY symbols can be stacked. 2 or LADY or WILD symbols can be seen on each reel. 15 LADY symbols on screen are possible. But also 15 WILD symbols on screen are possible. In this last case Player wins 5 LADY on all lines with bet.

2 Pay-glass / artwork illustrations or photos

 <p>5x 10 4x 2 3x 0.5 2x 0.1</p>	 <p>Substitutes for all symbols except for Scatter</p>	 <p>5x 5 4x 1.5 3x 0.5</p>
 <p>5x 4 4x 1 3x 0.2</p>	<p>3X Scatter</p> <p>SCATTERS SHOWS ONLY ON 1st, 3rd AND 5th REELS</p>	 <p>5x 4 4x 1 3x 0.2</p>
 <p>5x 1 4x 0.2 3x 0.05</p>	<p>12x FREE GAMES with stacked Wild symbol</p>	 <p>5x 2 4x 0.5 3x 0.1</p>

<h3>GAME RULES</h3> <p>Riches from the Deep is a 5-reel, 3-row video-slot with 20 paylines.</p> <p>The objective is to land as many identical symbols as possible along a payline. Winning combinations start on the first reel on the left (excluding SCATTER symbols) and run along an active payline to the last reel on the right.</p> <p>Only the highest winning combination is paid per line.</p> <p>Game RTP is 96.15%, gamble winrate is 50%</p>



3 Payback ratio

3.1 Payback ratio determination method

The payback ratio value (return to player) was derived using simulation.

3.2 Payback ratio results

Riches from the Deep	
Declared by manufacturer	Verified by test laboratory
96,15%	96,26%

4 Test summary

The following tests for the game were performed:

- Calculation of the payback ratio,
- Conditions and settings for compliance with test criteria,
- Verification of the information to the player.



1 Software identification

Software version(s): 1.0

Software components:

Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, libancientsecret.s.so	Game library	HDD / SSD	lib\plugins\	245,24 KB	3fd39edabfa5ecdd7b35d3c1f9ab7070e6cd0e1e	b152fb9086d8502bda044f705587ed4b
Bee-Fee, base_config.json	Graphics configuration file	HDD / SSD	games\rfd\	10,34 KB	ff5f68b0be5d4452fa6bb058c711d5fb1756a7ae	118172308b4ac214112d524b25a2b1ad
Bee-Fee, rfd_16_10.jpg	Game graphics file	HDD / SSD	games\rfd\images\16_10\	1,66 MB	070aab0e5773a2dfabaaad388c95c8162159645b8	75c6e4f40ce47bbd96bb8cf27b11a7b2
Bee-Fee, rfd_16_10.json	Graphics configuration file	HDD / SSD	games\rfd\images\16_10\	1,66 KB	d8cd9aa06c7f19a23d280b1f6f06d2d48b92cf71	f3dfc8cb61b5bf78274778d65539e071
Bee-Fee, rfd_16_10_paytable_en.jpg	Game graphics file	HDD / SSD	games\rfd\images\16_10\	1,24 MB	c2e2e654fb33ae618bd2e452cb479cb9ca5e1166	1ebb95b42780323759b1561d086a3305
Bee-Fee, rfd_5_4.jpg	Game graphics file	HDD / SSD	games\rfd\images\5_4\	2,01 MB	fdcc719ce1229fd6ad5adf344146ade5e9e01ffe	7bdad87ca7dd5e50d6b4a45f57feaa2e
Bee-Fee, rfd_5_4.json	Graphics configuration file	HDD / SSD	games\rfd\images\5_4\	1,68 KB	c6bb862d60ef0cf0e988f9ca2cfc2373241b8ce7	ef7cd9ab4a99119156cdfb435b36c2fa
Bee-Fee, rfd_5_4_paytable_en.jpg	Game graphics file	HDD / SSD	games\rfd\images\5_4\	1,49 MB	19efdbe83dd2dd7b8f6077e73ba888e2b86eff88	ef665960a2e5c23ad8f872d0fa174dff
Bee-Fee, icons_rfd.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	40,66 KB	3b53b117028c4ca3276c2aff3ac163f34bedbe26	b7040a1069139787f12cac0776ddb55e
Bee-Fee, icons_rfd.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	2,33 MB	3704e47856c98cb3b43b51ffb6c99555f7dd9816	e0fb0140daf6f8543df9e1b18a653fb5
Bee-Fee, icons_rfd.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	776,79 KB	3da2eec50a56f40809251ccfe18f96cd0a4d54f1	570437cc06eed80f04c3ea75f7f0e4fc
Bee-Fee, rfd_common.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	6,09 KB	b6fd4f2561e5303493ce26c81c3e605f896de252	363931e59607999c2c5bd194571c05c5



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, rfd_common.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	394,21 KB	3357720e865918f4165f601aabc9deee8632ad81	e15ab82138916ca855097eae759bc2e8
Bee-Fee, rfd_common.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	215,89 KB	a4751eed23688bfea7838f401ccedb993b538828	687b08fdc012c63e36765cd207c6308e
Bee-Fee, rfd_en.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	2,47 KB	a58861c2575cf976cbecc83ebe89289ce9e0997a	a8d978c609c36da5fd471a5df38ab73a
Bee-Fee, rfd_en.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	215,17 KB	b645a514e688da2dc79d071fce460af69ff376d3	c99ee1fd66986f66b9d10e7e834fece5
Bee-Fee, rfd_en.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	99,67 KB	07fe1d09349d75d906826f180f97b269409c10f8	9e0f812d78bacbd872aa30929c633007
Bee-Fee, rfd_font.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	18,02 KB	1e68c427bb3c60f5c5a8b2ad649e1635e078862d	ef375804bcd58059add5ef5898ad8f76
Bee-Fee, rfd_font.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	73,26 KB	88c61508884548630664718e7d259e7be1a6cbe9	fb42bc71ccfc759c8e16e86bf5f747c0
Bee-Fee, rfd_font.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	64,09 KB	9cbb2d48b8db67c2d632638517ef9097b9b4f58f	bd86977cc833338d12d0f1bf2245aa6b
Bee-Fee, rfd_symbols0.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	73,49 KB	486bc74ea65919bd0108af6146df068b6a19bcad	c6bde1be77a575c225eb5408ccb8d3ca
Bee-Fee, rfd_symbols0.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	1,56 MB	4712521bc1cc8dd0d8b784c18c0b85c3f8561929	436b7a0e83947ed9e78ecaf5209099a3
Bee-Fee, rfd_symbols0.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	0,81 MB	f548d6b94aea92658b0a31eac5efa325f80adb6	b6d14ec1e3065b2fe456a8966781b8eb
Bee-Fee, rfd_symbols1.json	Graphics configuration file	HDD / SSD	games\rfd\images\common\	73,48 KB	5c0c50afa2888525106f9aaf fd76e2f1392b0568	61cab173de1b90aa848d9130cc759d64
Bee-Fee, rfd_symbols1.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	1,64 MB	1b5b971ff284f0340f165027cb62a90f7585e6db	759fd71a512b988b758dd6fdaf23a86c
Bee-Fee, rfd_symbols1.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\common\	0,86 MB	52cd9ff82bd2730d92a032c37bcb0aa69f804db0	6f302fd747f12b65742fd1727ca5b2ab



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, rfd_animations_0.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	10,75 KB	7f92d80f7db7529c43da34e809e95104ca56953e	73aa8cdbfa6d7d37f05d151a80f180fb
Bee-Fee, rfd_animations_0.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\web\	469,38 KB	4acae9e90e0354da3bb300ed7e4871320a75a6b	cbfc33158beffa23247f485e2db03493
Bee-Fee, rfd_animations_0.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\web\	370,16 KB	19ea3b325f06e2d249c04d316693246c71d9dff1	cbd3fbf82d56bb43d62663093f324a07
Bee-Fee, rfd_background_mobile.jpg	Game graphics file	HDD / SSD	games\rfd\images\web\	414,22 KB	5baae1c8f35895e380203476668d73169106cd9a	8b416262ae989855cdf33ed40a8883d8
Bee-Fee, rfd_paytable_web_en.png	Game graphics file	HDD / SSD	games\rfd\images\web\	1,51 MB	81f62d6b63e4fa412cdf10456773ef144361ee41	31abbe9603e9c0e03d58b42fe9250a11
Bee-Fee, rfd_rules_web.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	1,69 KB	3f03dc361486cb86681bfd1695108ab4ba06fd02	28faebbf065e96abd5e460689375d94b
Bee-Fee, rfd_rules_web.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\images\web\	321,38 KB	f499a379c3306bd3e7cc842b29860ee7dcc27af3	9c5c2a978507d482eccdd3465d7226ac
Bee-Fee, rfd_rules_web.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\images\web\	26,7 KB	cadbbd5f6fb2a83db552f18f3dd6dc372b85b239	d57f8a4d41e8784e791d5ff0b611d26c
Bee-Fee, rfd_skeleton_0.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	1,2 KB	5602dc98c96ef8032501239dbabd915a7638d6d2	3bba360b264d97aacc8afd649b441616
Bee-Fee, rfd_skeleton_1.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	28,85 KB	5ef43777c4467d03dded6379df713137ad203571	713e8d1eb508aab28da9337dd79b163b
Bee-Fee, rfd_skeleton_2.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	57,37 KB	aa54391c4e7f2704847f6cec80fbaef878d5ab33	5608668ff5909566e27d93216e55d3e2
Bee-Fee, rfd_skeleton_3.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	23,52 KB	d40fe3fc33124cd2930f9d0f877ca8a93fb7566a	cae2ad69111b6433371cf5537144d38a
Bee-Fee, rfd_skeleton_4.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	39,15 KB	d8403b783d6ebad400631df7b467cd05ff38c66d	9ac15138f38f5205c8f6ec08f4f1e11f
Bee-Fee, rfd_skeleton_win_3.json	Graphics configuration file	HDD / SSD	games\rfd\images\web\	6,17 KB	eb9018f11d8088b7d9418161ae71de7ad2cf9d9bb	89608a4fec400570dd03c600f142ea9d



Manufacturer, product ID	Description, function	Media, type	Position, circuit	Size	ID code (SHA1)	ID code (MD5)
Bee-Fee, rfd_skeleton_wi n_4.json	Graphics configuration file	HDD / SSD	games\rfd\i mages\we b\	2,95 KB	c9da1d2211c0 0826f7eac723 3d0a9a004231 8393	9e2c4fbd96f8 e19e75ed2bad b0fdec98
Bee-Fee, rfd_skeleton_wi n_5.json	Graphics configuration file	HDD / SSD	games\rfd\i mages\we b\	5,08 KB	c782cdf6a294 fffb93a7a8d4 0da5073eca50 0278	d7bd3399f991 d7aeba1860eb dc03b330
Bee-Fee, rfd_web.json	Graphics configuration file	HDD / SSD	games\rfd\i mages\we b\	3,63 KB	fe8d706f8151 08771f0f540c e8c1e72e602f 171c	270faf0f476a 6254f0747c0b 3f723c26
Bee-Fee, rfd_web.png_m ain.jpg	Game graphics file	HDD / SSD	games\rfd\i mages\we b\	357,85 KB	8084f6a178a8 27d4a0e72e39 d644ca7943cf 6c6d	9f23bbd9b88c 1ef00790b36c 797d20c2
Bee-Fee, rfd_web.png_m ask.jpg	Game graphics file	HDD / SSD	games\rfd\i mages\we b\	205,36 KB	545dce3fadcb a2702e9e7abb b3465be8cb91 4a01	82da951f8256 8de08c52d301 252ea8ed
Bee-Fee, rfd_web_commo n.json	Graphics configuration file	HDD / SSD	games\rfd\i mages\we b\	6,1 KB	7c944435c191 8599e6c30ab0 8b694d0deb60 3db9	6dec37554f11 9e93b1fb613d e3f23c61
Bee-Fee, rfd_web_commo n.png_main.jpg	Game graphics file	HDD / SSD	games\rfd\i mages\we b\	371,01 KB	931d9c537530 6408fbbe4b13 9e277ccc0fb4 a4fe	a214f9dc575e 861bff34f359 414b5557
Bee-Fee, rfd_web_commo n.png_mask.jpg	Game graphics file	HDD / SSD	games\rfd\i mages\we b\	152,9 KB	26bfb170e3e8 e1f13042b55c 1a8adb17eada 4f3a	d36cc30c3a01 9a4ebb1f70fe 417a88ed

2 Test summary

Software analysis for the game was performed:

- Source code analysis:
 - o Jurisdiction independent tests: software review.
 - o Jurisdiction dependent tests.
- Binary code authentication.
- Archiving and depositing.