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		DANZIG (I/C)	1	NORTHERN DANCER
		GREEN DESERT (Q)		PAS DE NOM
		FOREIGN COURIER		SIR IVOR
	INVINCIBLE SPIRIT			COURTLY DEE
	2	KRIS (Q)		SHARPEN UP
	RAFHA			DOUBLY SURE
		ELJAZZI		ARTAIUS
				BORDER BOUNTY
SHALAA		DANZIG (I/C)	1	NORTHERN DANCER
(2013)		WAR CHANT		PAS DE NOM
		HOLLYWOOD WILDCAT		KRIS S.
	GHURRA			MISS WILDCATTER
	2	DIESIS (Q)		SHARPEN UP
	FUTUH			DOUBLY SURE
		HARDSHIP		DRONE
				HARD AND FAST

Prospective foal

		DANZIG (I/C)	1	NORTHERN DANCER
		DANEHILL (Q)		PAS DE NOM
		RAZYANA	1	HIS MAJESTY
	REDOUTE'S CHOICE (Q)			SPRING ADIEU
		CANNY LAD (Q)		BLETCHINGLY
		SHANTHA'S CHOICE		JESMOND LASS
		DANCING SHOW		NIJINSKY II
				SHOW LADY
DARBY'S BID		SOUTHERN HALO (Q)		HALO
(2009)		MORE THAN READY		NORTHERN SEA
		WOODMAN'S GIRL		WOODMAN
	RATTLED			BECKY BE GOOD
		POLISH PRECEDENT		DANZIG
		SNOWDRIFT		PAST EXAMPLE
		SNOWTOP		THATCHING
				ICING

Sibling Identifier: odd numbers = same dam only; even numbers = same sire and dam

Roman Dosage Profile: (0-3-3-0-0)

D.I.: 3.00 C.D.: 0.50

Werk Quality Rating: Q 7

Dosage Points: 6 + Quality Points: 24 = Total Points: 30

5-Generation Inbreeding: DANZIG - 4m, 4m x 4m, 5m
 SHARPEN UP - 5m, 5m x
 DOUBLY SURE - 5m, 5m x

GeoNicks™ Australasia

SHALAA--DARBY'S BID

A (369%)

Based on the INVINCIBLE SPIRIT--REDOUTE'S CHOICE cross

This cross has produced 5 stakes winners in Australasia, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
OVERSHARE	2014	C	G3			Y	I AM INVINCIBLE ex SAVANNAH'S CHOICE (REDOUTE'S CHOICE)
SHAQUERO	2018	C	G3			Y	SHALAA ex FIMATINO (NOT A SINGLE DOUBT)
SUPREME IDEA	2017	F				Y	I AM INVINCIBLE ex SWEET SISTER (SNITZEL)
MUNTASEERA	2017	F				Y	I AM INVINCIBLE ex MOOSIRRA (REDOUTE'S CHOICE)
LARIMER STREET	2017	C				Y	BRAZEN BEAU ex ORIGINAL CHOICE (REDOUTE'S CHOICE)



GeoNicks™ Europe

SHALAA--DARBY'S BID

A (150%)

Based on the INVINCIBLE SPIRIT--DANEHILL cross



This cross has produced 21 stakes winners in Europe, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
PERSIAN KING	2016	C	G1			Y	KINGMAN ex PRETTY PLEASE (DYLAN THOMAS)
OXTED	2016	C	G1			Y	MAYSON ex CHARLOTTE ROSINA (CHOISIR)
NO SPEAK ALEXANDER	2018	F	G1			Y	SHALAA ex RAPACITY ALEXANDER (DANDY MAN)
MUTHMIR	2010	C	G2			Y	INVINCIBLE SPIRIT ex FAIRY OF THE NIGHT (DANEHILL)
FONTANELICE	2012	F	G3			Y	VALE OF YORK ex CHOOSE ME PLEASE (CHOISIR)
BUONASERA	2015	F	G3			Y	ZEBEDEE ex ROSINA BELLA (ORATORIO)
CORMORANT	2017	C	G3			Y	KINGMAN ex SHEMYA (DANSILI)
CHACHNAK	2017	C	G3			Y	KINGMAN ex TAMAZIRTE (DANEHILL DANCER)
PARENT'S PRAYER	2017	F	G3			Y	KINGMAN ex PURE EXCELLENCE (EXCEED AND EXCEL)
MEGALLAN	2018	C	G3		Y	Y	KINGMAN ex EASTERN BELLE (CHAMPS ELYSEES)
CLASSICAL TIMES	2014	F				Y	LAWMAN ex SUNDAY TIMES (HOLY ROMAN EMPEROR)
MAROUBRA	2015	F				Y	LAWMAN ex MIRRORBLACK (CLODOVIL)
TWIST 'N' SHAKE	2016	F				Y	KINGMAN ex HIPPY HIPPY SHAKE (DANEHILL DANCER)
TIME SCALE	2018	F				Y	CHARM SPIRIT ex AN GHALANTA (HOLY ROMAN EMPEROR)
MAYSTAR	2017	C				Y	MAYSON ex OAKLEY STAR (MULTIPLEX)
QUEEN OF LOVE	2017	F				Y	KINGMAN ex EXTRICATE (EXCEED AND EXCEL)
LOVE IS YOU	2018	F				Y	KINGMAN ex FALLEN FOR YOU (DANSILI)
LAUGH A MINUTE	2015	C				Y	MAYSON ex FUNNY ENOUGH (DANSILI)
WIRKO	2018	C				Y	KINGMAN ex WELTMACHT (MOUNT NELSON)
ATALIS BAY	2018	C				Y	CABLE BAY ex ATALIS (HOLY ROMAN EMPEROR)
TWILIGHT GLEAMING	2019	F				Y	NATIONAL DEFENSE ex THAMES PAGEANT (DANSILI)

GeoNicks™ North America

SHALAA--DARBY'S BID

A+ (624%)

Based on the INVINCIBLE SPIRIT--DANZIG cross



This cross has produced 2 stakes winners in North America, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
TECHNICAL ANALYSIS	2018	F	G2			Y	KINGMAN ex SEALIFE (SEA THE STARS)
TWILIGHT GLEAMING	2019	F	G2			Y	NATIONAL DEFENSE ex THAMES PAGEANT (DANSILI)

Stakes winners bred from the SHALAA--REDOUTE'S CHOICE cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
SHAQUERO	2018	C	G3			Y	SHALAA ex FIMATINO (NOT A SINGLE DOUBT)

Stakes winners bred from the SHALAA--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
NO SPEAK ALEXANDER	2018	F	G1			Y	SHALAA ex RAPACITY ALEXANDER (DANDY MAN)
SHAQUERO	2018	C	G3			Y	SHALAA ex FIMATINO (NOT A SINGLE DOUBT)

Stakes winners bred from the INVINCIBLE SPIRIT--REDOUTE'S CHOICE cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
LARIMER STREET	2017	C				Y	BRAZEN BEAU ex ORIGINAL CHOICE (REDOUTE'S CHOICE)
MUNTASEERA	2017	F				Y	I AM INVINCIBLE ex MOOSIRRA (REDOUTE'S CHOICE)
OVERSHARE	2014	C	G3			Y	I AM INVINCIBLE ex SAVANNAH'S CHOICE (REDOUTE'S CHOICE)
SHAQUERO	2018	C	G3			Y	SHALAA ex FIMATINO (NOT A SINGLE DOUBT)
SUPREME IDEA	2017	F				Y	I AM INVINCIBLE ex SWEET SISTER (SNITZEL)

Stakes winners bred from the INVINCIBLE SPIRIT--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ATALIS BAY	2018	C				Y	CABLE BAY ex ATALIS (HOLY ROMAN EMPEROR)
BUONASERA	2015	F	G3			Y	ZEBEDEE ex ROSINA BELLA (ORATORIO)
CALIFORNIA	2017	F				Y	SPEAKING OF WHICH ex GODSPEED (MULTIDIMENSIONAL)
CHACHNAK	2017	C	G3			Y	KINGMAN ex TAMAZIRTE (DANEHILL DANCER)
CLASSICAL TIMES	2014	F				Y	LAWMAN ex SUNDAY TIMES (HOLY ROMAN EMPEROR)
CORMORANT	2017	C	G3			Y	KINGMAN ex SHEMYA (DANSILI)
EBHAAR	2019	F				Y	I AM INVINCIBLE ex MAROON BAY (EXCEED AND EXCEL)
ECKSTEIN	2013	F	G3			Y	I AM INVINCIBLE ex COMRIE (CHOISIR)
ESPAANIYAH	2016	F				Y	I AM INVINCIBLE ex CATALONIA (FLYING SPUR)
FAKE LOVE	2018	F				Y	I AM INVINCIBLE ex ANATINA (FASTNET ROCK)
FIESTA	2015	F	G2			Y	I AM INVINCIBLE ex NOW NOW (DANEHILL DANCER)
FLYING MISSILE	2018	F				Y	CABLE BAY ex MAGNUS MISSILE (MAGNUS)
FONTANELICE	2012	F	G3			Y	VALE OF YORK ex CHOOSE ME PLEASE (CHOISIR)
HOLYFIELD	2017	C	G3			Y	I AM INVINCIBLE ex HURTLE MYRTLE (DANE SHADOW)
HOME AFFAIRS	2018	C	G1			Y	I AM INVINCIBLE ex MISS INTERIORS (FLYING SPUR)
I AM ELOQUENT	2016	F				Y	I AM INVINCIBLE ex CHOICE WORDS (CHOISIR)
I'M WESLEY	2012	C				Y	I AM INVINCIBLE ex DANIELA (DANEHILL)
INVINCIBLE STAR	2014	F	G3			Y	I AM INVINCIBLE ex ROMANY FLYER (CATBIRD)
LARIMER STREET	2017	C				Y	BRAZEN BEAU ex ORIGINAL CHOICE (REDOUTE'S CHOICE)
LAUGH A MINUTE	2015	C				Y	MAYSON ex FUNNY ENOUGH (DANSILI)
LOVE IS YOU	2018	F				Y	KINGMAN ex FALLEN FOR YOU (DANSILI)
LOVING GABY	2016	F	G1			Y	I AM INVINCIBLE ex MAASTRICHT (MASTERCRAFTSMAN)
MARABI	2016	F				Y	I AM INVINCIBLE ex NAKAAYA (TIGER HILL)
MAROUBRA	2015	F				Y	LAWMAN ex MIRRORBLACK (CLODOVIL)
MAYSTAR	2017	C				Y	MAYSON ex OAKLEY STAR (MULTIPLEX)
MEGALLAN	2018	C	G3		Y	Y	KINGMAN ex EASTERN BELLE (CHAMPS ELYSEES)
MUNTASEERA	2017	F				Y	I AM INVINCIBLE ex MOOSIRRA (REDOUTE'S CHOICE)
MUTHMIR	2010	C	G2			Y	INVINCIBLE SPIRIT ex FAIRY OF THE NIGHT (DANEHILL)
NO SPEAK ALEXANDER	2018	F	G1			Y	SHALAA ex RAPACITY ALEXANDER (DANDY MAN)
OVERSHARE	2014	C	G3			Y	I AM INVINCIBLE ex SAVANNAH'S CHOICE (REDOUTE'S CHOICE)
OXTED	2016	C	G1			Y	MAYSON ex CHARLOTTE ROSINA (CHOISIR)
PAQUIRRI	2015	C	G3			Y	I AM INVINCIBLE ex MISS SOLIS (ORATORIO)
PARENT'S PRAYER	2017	F	G3			Y	KINGMAN ex PURE EXCELLENCE (EXCEED AND EXCEL)
PARLOPHONE	2017	F				Y	I AM INVINCIBLE ex ROULETTES (FLYING SPUR)
PERSIAN KING	2016	C	G1			Y	KINGMAN ex PRETTY PLEASE (DYLAN THOMAS)
QUEEN OF LOVE	2017	F				Y	KINGMAN ex EXTRICATE (EXCEED AND EXCEL)
SANSOM	2016	C	G3			Y	CHARM SPIRIT ex BRYONY (FASTNET ROCK)
SHAQUERO	2018	C	G3			Y	SHALAA ex FIMATINO (NOT A SINGLE DOUBT)
SHE'S SO HIGH	2014	F	G3			Y	I AM INVINCIBLE ex HIGH ACHIEVER (EXCEED AND EXCEL)
STOCKBRIDGE	2018	C				Y	SPEAKING OF WHICH ex SHERYL (MULTIDIMENSIONAL)
STRASBOURG	2016	C	G2			Y	I AM INVINCIBLE ex DANISH SPY (DANE SHADOW)
SUPREME IDEA	2017	F				Y	I AM INVINCIBLE ex SWEET SISTER (SNITZEL)
TIME SCALE	2018	F				Y	CHARM SPIRIT ex AN GHALANTA (HOLY ROMAN EMPEROR)
TOTALLY CHARMED	2014	C				Y	I AM INVINCIBLE ex THE LOOK OF LOVE (DANEHILL DANCER)

Stakes winners bred from the INVINCIBLE SPIRIT--DANEHILL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
TWILIGHT GLEAMING	2019	F	G2			Y	NATIONAL DEFENSE ex THAMES PAGEANT (DANSILI)
TWIST 'N' SHAKE	2016	F				Y	KINGMAN ex HIPPY HIPPY SHAKE (DANEHILL DANCER)
UNCOMMON JAMES	2018	C				Y	CABLE BAY ex PICKABEE (JET SPUR)
VAMOS BEBE	2016	F				Y	I AM INVINCIBLE ex HURTLE MYRTLE (DANE SHADOW)
VICTOREM	2014	C	G2			Y	I AM INVINCIBLE ex PLAYFUL MISS (FOREPLAY)
VINICUNCA	2016	F	G3			Y	I AM INVINCIBLE ex XANDRETTA (FLYING SPUR)
VINNIE EAGLE	2011	G	G3			Y	I AM INVINCIBLE ex SWEET MAGGIE (DANEHILL DANCER)
WIRKO	2018	C				Y	KINGMAN ex WELTMACHT (MOUNT NELSON)

PEDIGREE RATING SCORES - “NICKS”

It's a simple formula – It's all about risk reduction.

Nicks have become an integral part of the decision-making process in the mating and purchasing of thoroughbreds. Most breeders recognise that an affinity or compatibility can exist between two thoroughbred sire lines, such that, when crossed, those lines yielded a greater proportion of superior runners than when either one of them are crossed with any other sire lines. Great breeders, from Federico Tesio to present-day breeders around the world have relied on observed nicks to help guide their breeding plans and buying decisions.

Over 70% of ALL Stakes Winners are “A” Rated Nicks

In order to identify nicks in a systematic way, the software database we use developed an evaluation method based on sire-line analysis. Ongoing studies by researchers show that approximately 25% of the Thoroughbred population is the product of highly successful nicks ("A" rated nicks) while over 70% of stakes winners come from these "A" rated nicks!

Statistics:

There are approximately 20,000 live foals born each year –
25% (5,000) are A Rated whilst 75% (15,000) are rated below.

There are 541 Stakes Races in Australia this racing season.

70% (379) will be won from the 5,000 A rated foals born (7.6%)

30% (162) will be won from the 15,000 foals in the lower rated group (1.08%).

For a practical businessperson seeking a return on money invested, it makes no sense to ignore statistically unfavorable odds. Buying a superior racehorse is already a difficult enough proposition. The Rating systems we use allow us to see into the future by looking into the past and thereby to avoid those mating patterns that have failed. The Nick Rating enables us to avoid crosses that have had little or no success in the past. At the same time, it enables us to identify and thus duplicate successful sire-line crosses, dramatically increasing the chances of success.

Over the years evaluating Nicks have proven to be an invaluable tool in the stallion selection process when identifying yearlings for purchase. Dean Watt, Managing Director of Dynamic Syndications has enjoyed great success as a result of utilising such information. For example:

SAVABEEL, POLAR SUCCESS, HE'S NO PIE EATER, ATOMIC FORCE, ECONSUL, DE BEERS, BRADBURY'S LUCK, TENANT'S TIARA and REWARD FOR EFFORT were all superior racehorses who had superior pedigree ratings.

ECONSUL	A+ +	13,862%
SAVABEEL	A+ +	9,325%
DEBEERS	A+ +	4,270%
POLAR SUCCESS	A+ +	2,240%
REWARD FOR EFFORT	A+	1,175%
ATOMIC FORCE	A+	988%
BRADBURY'S LUCK	A	485%
TENANT'S TIARA	A	238%
HE'S NO PIE EATER	A	161%

Further afield, in 2008 the Top 5 Racehorses in the world had the following ratings:

1 CURLIN	A+	1,375%
2 NEW APPROACH	A+	1,472%
3 RAVEN'S PASS	A+ +	5,961%
4 DUKE OF MARMALADE	A	409%
5 HENRYTHE NAVIGATOR	A+ +	1,531%

Then to further support the theories, in 2008 there was 67 Group 1 races run in Australia. These races were won by 48 individual horses. When these 48 individuals' pedigrees were analysed it showed:

35 / 48 Rated A or above = 73% of Individual Group 1 Winners Rates A or above

Affinity between sire lines was long ago observed by the world's best thoroughbred breeders. Today through modern technologies we are able to quantify what was once only a subjective judgment based on the observations of a relatively small equine population.

Ratings are essentially the objective measurement of success, or lack therefore, of sire-line crosses. Success is quantified by being the winners of stakes races with a prizemoney of at least \$50,000. Through software databases, containing the pedigrees of all such winners since 1977 (over 30,000 winners), we are able to more easily identify what sire-line crosses have succeeded in producing stakes winners and compare those numbers with the stakes winning population on the whole.

Often a sire line may appear to be successful with a particular broodmare sire line. However, if the level of success is no better than that sire line's success with the entire population, then there is not a true nick.

In order to understand the ratings for easy use, a letter-grade scale was developed. As in the scholastic setting, the scales ranges from F (Fail) through to A with A+ also A++ and now since 2011 the software system now identifies A+++ as possible to be achieved in some select instances. The Variants (percentages) shown in the table below are the deviation from the norm that has been observed by that sire line cross in question. On this

scale -15% to +15% (C) is considered average, meaning that the sire-line cross has yielded results that are statistically no better and no worse than what would be expected with the entire population.

An "A" rated nick indicates that a far greater percentage of stakes winners have resulted from that cross than expected. An "F" rated nick indicates that the number of stakes winners resulting from a cross is at least 50% below expectations. This does not mean that there cannot be success or will not be success from such a mating in the future. It does mean that in all the experience of the last 20 + years of winners of stakes races, that type of mating has had a significant lack of success as measured by stakes winner production.

It must be stressed that a below "Average" rating does not guarantee or even predict failure. It means only that, to date, the particular sire-line cross has fallen at least 16% short of what would be expected. Nicks can and do change over time.

Consequently, an above Average Rating must be kept in proper perspective as there are other factors that must be considered when selecting a horse for purchase. Specifically, conformation evaluation is critical. A thoroughbred may have a brilliant pedigree on paper that rates as either Excellent, Superior, Superb or Outstanding on our Ratings Score however if the skeletal structure and/or the overall constitution of the individual is lacking then the horse is rejected as a candidate for purchase.

The Rating Scale is shown below:

Nick	Horse	Variant %
A+++	Excellent	+20,000 and above
A++	Superior	+1,501 to + 19,999
A+	Superb	+500 to +1,500
A	Outstanding	+150 to +499
B+	Very Good	+100 to +149
B	Good	+50 to +99
C+	Acceptable	+16 to +49
C	Average	-15 to +15
D+	Weak	-16 to -34
D	Poor	-35 to -49
F	Unsuccessful	-50
0 SW	Zero Stakes Winners	0 SW

Dynamic Syndications uses these rating tools along with additional pedigree analysis systems from other software databases which skewer the data to local environmental factors and we have introduced a ranking on the class of Stakes Races which are won to establish what we consider is an inherent opportunity of greater racetrack success. Often a horse can have a very high Nick rating and yet score lowly on the variant and visa versa. We use this information to assist us in pedigree selections after the physical inspections have also been considered. Also we cannot blindly accept a rating score. For example Australia has only 2.9% of our races listed as Stakes Races whilst New Zealand has 9.7% and Ireland has 13.1%. Obviously the data will be weighted in certain directions if we did not counter this information with a ranking on the Stakes Races based upon country and class of race, racing region within the country and climatic conditions in the region. After adjustments the rating scale is presented below.

Quality Rating Summary

It is undeniable that racing class is in great part a function of the *quality* of ancestors contributing to new individual. It follows that certain quality stallions tend to contribute more favorably than other sires. When Quality points contributed by such deserving sires are combined with dosage points, the total points more accurately reflect the overall class of a pedigree.

The *Quality sires* in a pedigree contribute quality points (QP) to the new individual in exactly the same way as ancestral sires contribute dosage points (DP). The total number of *Quality points* is added to the *Dosage points* to get *Total Points* (TP).

The Quality Rating, which ranges from zero, as the low, to ten, as the high, is scaled to the number of total points in the pedigree:

Total Points	Quality Rating
0	Q0
1 to 4	Q1
5 to 9	Q2
10 to 14	Q3
15 to 19	Q4
20 to 24	Q5
25 to 29	Q6
30 to 39	Q7
40 to 44	Q8
45 to 54	Q9
55 +	Q10