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	DANZIG (I/C)	1	NORTHERN DANCER PAS DE NOM
	DANEHILL (Q)		HIS MAJESTY
	RAZYANA	1	SPRING ADIEU
EXCEED AND EXCEL	LOMOND	1	NORTHERN DANCER MY CHARMER
	PATRONA		WATCH YOUR STEP BACK BRITCHES
	GLADIOLUS		HALO
BIVOUAC (2016)	SOUTHERN HALO (Q)		NORTHERN SEA
	MORE THAN READY		WOODMAN
	WOODMAN'S GIRL		BECKY BE GOOD
DAZZLER	ELUSIVE QUALITY (Q)		GONE WEST
	CAMARILLA		TOUCH OF GREATNESS
	CAMARENA		DANEHILL CANNY MISS
Prospective foal			
	1 NORTHERN DANCER (B/C)		NEARCTIC NATALMA
	FAIRY KING (Q)		BOLD REASON
	FAIRY BRIDGE		SPECIAL
ENCOSTA DE LAGO	STAR WAY (Q)		STAR APPEAL NEW WAY
	SHOAL CREEK		MR. PROSPECTOR
	ROLLS		GRAND LUXE
HOUSTON BENEFACTOR (2008)	TRY MY BEST (Q)	1	NORTHERN DANCER SEX APPEAL
	LAST TYCOON (Q)		MILL REEF
	MILL PRINCESS		IRISH LASS II
SOVEREIGN DUCHESS	SOVEREIGN RED		SIR TRISTRAM TAIONA
	STONEYFELL ROAD		ARCH SCULPTOR
	ARCH DUCHESS		ROCKY PROFIT

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

Roman Dosage Profile: (1-1-2-0-0)

D.I.: 3.00 C.D.: 0.75

Werk Quality Rating: Q 5

Dosage Points: 4 + Quality Points: 20 = Total Points: 24

5-Generation Inbreeding: DANEHILL - 3m, 5f x
 NORTHERN DANCER - 5m, 5m x 4m, 5m

Stakes winners bred from the EXCEED AND EXCEL--ENCOSTA DE LAGO cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
FIERA VISTA	2015	F				Y	EXCEED AND EXCEL ex EMPRESS JADE (ENCOSTA DE LAGO)
FORGET	2009	C	G3			Y	EXCEED AND EXCEL ex MNEMOSYNE (ENCOSTA DE LAGO)
INSTINCTION	2008	C				Y	EXCEED AND EXCEL ex DE LAGO MIST (ENCOSTA DE LAGO)
LITTLE MISS KUBI	2019	F				Y	HEADWATER ex MISS EISENSTADT (MANHATTAN RAIN)
MCLAREN	2016	C	G3			Y	EXCEED AND EXCEL ex SERENADA (AUS) (ENCOSTA DE LAGO)
MOHAVE	2011	C				Y	EXCEED AND EXCEL ex MARGHAM (ENCOSTA DE LAGO)
REBEL CALL	2008	C				Y	EXCEED AND EXCEL ex TERRENORA (ENCOSTA DE LAGO)
SHROUDED IN MIST	2014	F	G2			Y	EXCEED AND EXCEL ex DE LAGO MIST (ENCOSTA DE LAGO)
SKY ON FIRE	2020	F				Y	EXCEED AND EXCEL ex ELUSIVE METEOR (NORTHERN METEOR)

GeoNicks™ Australasia

BIVOUAC--HOUSTON BENEFACTOR

A (417%)

Based on the EXCEED AND EXCEL--ENCOSTA DE LAGO cross

This cross has produced 9 stakes winners in Australasia, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
SHROUDED IN MIST	2014	F	G2			Y	EXCEED AND EXCEL ex DE LAGO MIST (ENCOSTA DE LAGO)
FORGET	2009	C	G3			Y	EXCEED AND EXCEL ex MNEMOSYNE (ENCOSTA DE LAGO)
MCLAREN	2016	C	G3			Y	EXCEED AND EXCEL ex SERENADA (AUS) (ENCOSTA DE LAGO)
REBEL CALL	2008	C				Y	EXCEED AND EXCEL ex TERRENORA (ENCOSTA DE LAGO)
INSTINCTION	2008	C				Y	EXCEED AND EXCEL ex DE LAGO MIST (ENCOSTA DE LAGO)
MOHAVE	2011	C				Y	EXCEED AND EXCEL ex MARGHAM (ENCOSTA DE LAGO)
FIERA VISTA	2015	F				Y	EXCEED AND EXCEL ex EMPRESS JADE (ENCOSTA DE LAGO)
SKY ON FIRE	2020	F				Y	EXCEED AND EXCEL ex ELUSIVE METEOR (NORTHERN METEOR)
LITTLE MISS KUBI	2019	F				Y	HEADWATER ex MISS EISENSTADT (MANHATTAN RAIN)



GeoNicks™ North America

BIVOUAC--HOUSTON BENEFACTOR

A (334%)

Based on the EXCEED AND EXCEL--NORTHERN DANCER cross

This cross has produced 5 stakes winners in North America, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
OUTSTRIP	2011	C	G1			Y	EXCEED AND EXCEL ex ASI SIEMPRE (EL PRADO)
MAWJ	2020	F	G1			Y	EXCEED AND EXCEL ex MODERN IDEALS (NEW APPROACH)
MRS KIPLING (IRE)	2006	F	G3			Y	EXCEED AND EXCEL ex QUINZEY (CARNEGIE)
LEGENDARY	2009	C	G3			Y	EXCEED AND EXCEL ex RED CARNATION (POLAR FALCON)
SPIRIT AND GLORY	2019	F				Y	COTAI GLORY ex SUPREME SPIRIT (INVINCIBLE SPIRIT)



GeoNicks™ Europe

BIVOUAC--HOUSTON BENEFACTOR

A (346%)

Based on the EXCEED AND EXCEL--FAIRY KING cross

This cross has produced 2 stakes winners in Europe, including:

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
FULBRIGHT	2009	C	G2			Y	EXCEED AND EXCEL ex LINDFIELD BELLE (FAIRY KING)
PICCADILLY FILLY	2007	F				Y	EXCEED AND EXCEL ex TORTUE (TURTLE ISLAND)



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