



MMLJAN17

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		DANZIG (I/C)	1	NORTHERN DANCER
		DANEHILL (Q)		PAS DE NOM
		RAZYANA	1	HIS MAJESTY
	FASTNET ROCK			SPRING ADIEU
		ROYAL ACADEMY (B/I)		NIJINSKY II
		PICCADILLY CIRCUS		CRIMSON SAINT
		GATANA		MARAUDING
	SMART MISSILE			TWIGALAE
	(2008)	RED RANSOM (Q)		ROBERTO
		COMIC STRIP		ARABIA
		NOW THAT'S FUNNY		SARATOGA SIX
	COMICAL SMILE			TROPICAL CREAM
		FAPPIANO (I/C)		MR. PROSPECTOR
		EXPLOSIVE		KILLALOE
		SCUFF		FORLI
				MOCCASIN
		POLAR FALCON (Q)		NUREYEV
		PIVOTAL (Q)		MARIE D'ARGONNE
		FEARLESS REVIVAL		COZZENE
	KYLLACHY			STUFIDA
		SONG (GB)		SING SING (ENG)
		PRETTY POPPY		INTENT
		MOONLIGHT SERENADE		CROONER
	HIGHLAND DAUGHTER			MARCH MOONLIGHT
	(2005)	LYPHARD (C)	1	NORTHERN DANCER
		ALZAO (Q)		GOOFED
		LADY REBECCA		SIR IVOR
	RAYSIZE			POCAHONTAS
		CURE THE BLUES		STOP THE MUSIC
		RAYSIYA		QUICK CURE
		RILASA		ST. PADDY
				SARILA

Hip 89
Colt

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

Roman Dosage Profile:		(1-3-4-0-0)
D.I.:	3.00	C.D.: 0.63

Werk Quality Rating:		Q 5
Dosage Points:	8 + Quality Points:	16 = Total Points: 24

Best of Sale: Not selected for Best of Sale

5-Generation Inbreeding: NORTHERN DANCER - 5m x 5m

SMART MISSILE

Stands at ARROWFIELD STUD, NSW for a fee of A\$22000

Stakes Winners from the DANEHILL--PIVOTAL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
DELECTATION	2014	F	G3			Y	DELEGATOR--CHUSHKA (PIVOTAL)
NOW OR NEVER	2013	F	G3			Y	BUSHRANGER--QUEENOFTHEFAIRIES (PIVOTAL)
MARENKO	2013	F	G3		Y		EXCEED AND EXCEL--SAFINA (PIVOTAL)
BEAR CHEEK	2013	F	G3			Y	KODIAC--SEE NUALA (KYLACHY)
SPANGLED	2012	F	G3			Y	STARSPANGLED BANNER--ZYKINA (PIVOTAL)
IROMEA	2012	F				Y	DANSILI--IN THE MIST (PIVOTAL)
BRISANTO	2012	C	G3			Y	DANSILI--BRISEIDA (PIVOTAL)
ALZUBRA	2010	F				Y	DANSILI--AZABARA (PIVOTAL)
WINSILI	2010	F	G1			Y	DANSILI--WINTER SUNRISE (PIVOTAL)
FIRE LILY	2009	F	G3			Y	DANSILI--BEAUTY IS TRUTH (PIVOTAL)

Stakes winners bred from the DANEHILL--PIVOTAL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ALZUBRA	2010	F				Y	DANSILI ex AZABARA (PIVOTAL)
BEAR CHEEK	2013	F	G3			Y	KODIAC ex SEE NUALA (KYLACHY)
BRISANTO	2012	C	G3			Y	DANSILI ex BRISEIDA (PIVOTAL)
DELECTATION	2014	F	G3			Y	DELEGATOR ex CHUSHKA (PIVOTAL)
FIRE LILY	2009	F	G3			Y	DANSILI ex BEAUTY IS TRUTH (PIVOTAL)
IROMEA	2012	F				Y	DANSILI ex IN THE MIST (PIVOTAL)
MARENKO	2013	F	G3		Y		EXCEED AND EXCEL ex SAFINA (PIVOTAL)
NOW OR NEVER	2013	F	G3			Y	BUSHRANGER ex QUEENOFTHFAIRIES (PIVOTAL)
SPANGLED	2012	F	G3			Y	STARSPANGLEDDBANNER ex ZYKINA (PIVOTAL)
WINSILI	2010	F	G1			Y	DANSILI ex WINTER SUNRISE (PIVOTAL)

Stakes winners bred from the DANZIG--PIVOTAL cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ALZUBRA	2010	F				Y	DANSILI ex AZABARA (PIVOTAL)
BEAR CHEEK	2013	F	G3			Y	KODIAC ex SEE NUALA (KYLACHY)
BRISANTO	2012	C	G3			Y	DANSILI ex BRISEIDA (PIVOTAL)
CHARLIE EM	2010	F	G3			Y	KHELEYF ex MISS MEGGY (PIVOTAL)
CLADOCERA	2011	F	G2			Y	OASIS DREAM ex CAESARINE (PIVOTAL)
DELECTATION	2014	F	G3			Y	DELEGATOR ex CHUSHKA (PIVOTAL)
FIRE LILY	2009	F	G3			Y	DANSILI ex BEAUTY IS TRUTH (PIVOTAL)
HARBOUR LAW	2013	C	G1			Y	LAWMAN ex ABUNAI (PIVOTAL)
IROMEA	2012	F				Y	DANSILI ex IN THE MIST (PIVOTAL)
LADYSHIP	2009	F				Y	OASIS DREAM ex PEERESS (PIVOTAL)
MARENKO	2013	F	G3		Y		EXCEED AND EXCEL ex SAFINA (PIVOTAL)
MAYSON	2008	C	G1			Y	INVINCIBLE SPIRIT ex MAYLEAF (PIVOTAL)
MRS DANVERS	2014	F	G3			Y	HELLVELYN ex REBECCA DE WINTER (KYLACHY)
MUTAKAYYEF	2011	C	G2			Y	SEA THE STARS ex INFALLIBLE (PIVOTAL)
NOW OR NEVER	2013	F	G3			Y	BUSHRANGER ex QUEENOFTHFAIRIES (PIVOTAL)
PEARLY STEPH	2012	F				Y	OASIS DREAM ex PEARL BANKS (PIVOTAL)
QUIZ EVOLUTION	2011	G				Y	MUJAHID ex MARIE CAMARGO (KYLACHY)
REQUISITION	2009	C				Y	INVINCIBLE SPIRIT ex SAOIRE (PIVOTAL)
RIVELLINO	2010	C			Y		INVINCIBLE SPIRIT ex BRAZILIAN BRIDE (PIVOTAL)
ROCK OF RIDD	2010	F				Y	ANTONIUS PIUS ex WEWANTITALL (PIVOTAL)
SPANGLED	2012	F	G3			Y	STARSPANGLED BANNER ex ZYKINA (PIVOTAL)
WINSILI	2010	F	G1			Y	DANSILI ex WINTER SUNRISE (PIVOTAL)

Stakes winners bred from the DANZIG--POLAR FALCON cross

Stakes Winner	Yob	Sex	Best	Dirt	AWS	Turf	Pedigree
ALZUBRA	2010	F				Y	DANSILI ex AZABARA (PIVOTAL)
ARAAFA	2003	C	G1			Y	MULL OF KINTYRE ex RESURGENCE (POLAR FALCON)
ARCTIC FEELING	2008	C				Y	CAMACHO ex POLAR LADY (POLAR FALCON)
BEAR CHEEK	2013	F	G3			Y	KODIAC ex SEE NUALA (KYLACHY)
BRISANTO	2012	C	G3			Y	DANSILI ex BRISEIDA (PIVOTAL)
CHARLIE EM	2010	F	G3			Y	KHELEYF ex MISS MEGGY (PIVOTAL)
CLADOCERA	2011	F	G2			Y	OASIS DREAM ex CAESARINE (PIVOTAL)
DANCE PARTNER	2002	F				Y	DANZERO ex DANCING DEBUT (POLAR FALCON)
DELECTATION	2014	F	G3			Y	DELEGATOR ex CHUSHKA (PIVOTAL)
DICK DOUGHTYWYLIE	2008	G			Y		OASIS DREAM ex SUGAR MILL (POLAR FALCON)
ECHELON	2002	F	G1			Y	DANEHILL ex EXCLUSIVE (POLAR FALCON)
EXCEPTIONAL ART	2006	G				Y	EXCEED AND EXCEL ex ONLY IN DREAMS (POLAR FALCON)
FASCINATING ROCK	2011	C	G1			Y	FASTNET ROCK ex MISS POLARIS (POLAR FALCON)
FIRE LILY	2009	F	G3			Y	DANSILI ex BEAUTY IS TRUTH (PIVOTAL)
GERTRUDE BELL	2007	F	G2			Y	SINNDAR ex SUGAR MILL (POLAR FALCON)
HANDS CLEAN	2003	F				Y	KEY OF LUCK ex PRE CATELAN (POLAR FALCON)
HARBOUR LAW	2013	C	G1			Y	LAWMAN ex ABUNAI (PIVOTAL)
IROMEA	2012	F				Y	DANSILI ex IN THE MIST (PIVOTAL)
JEZEBEL	97	F				Y	OWINGTON ex JUST ICE (POLAR FALCON)
LADYSHIP	2009	F				Y	OASIS DREAM ex PEERESS (PIVOTAL)
LEGENDARY	2009	C	G3			Y	EXCEED AND EXCEL ex RED CARNATION (POLAR FALCON)
MARENKO	2013	F	G3		Y		EXCEED AND EXCEL ex SAFINA (PIVOTAL)
MAYSON	2008	C	G1			Y	INVINCIBLE SPIRIT ex MAYLEAF (PIVOTAL)
MRS DANVERS	2014	F	G3			Y	HELLVELYN ex REBECCA DE WINTER (KYLACHY)
MUTAKAYEF	2011	C	G2			Y	SEA THE STARS ex INFALLIBLE (PIVOTAL)
NOW OR NEVER	2013	F	G3			Y	BUSHRANGER ex QUEENOFTHFAIRIES (PIVOTAL)
PEARLY STEPH	2012	F				Y	OASIS DREAM ex PEARL BANKS (PIVOTAL)
QUIZ EVOLUTION	2011	G				Y	MUJAHID ex MARIE CAMARGO (KYLACHY)
RED GALA	2003	C				Y	SINNDAR ex RED CAMELLIA (POLAR FALCON)
REQUISITION	2009	C				Y	INVINCIBLE SPIRIT ex SAOIRE (PIVOTAL)
RIVELLINO	2010	C			Y		INVINCIBLE SPIRIT ex BRAZILIAN BRIDE (PIVOTAL)
ROCK OF RIDD	2010	F				Y	ANTONIUS PIUS ex WEWANTITALL (PIVOTAL)
SPANGLED	2012	F	G3			Y	STARSPANGLED BANNER ex ZYKINA (PIVOTAL)
WINSILI	2010	F	G1			Y	DANSILI ex WINTER SUNRISE (PIVOTAL)

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