MT. TODD GOLD PROJECT

Resource Update
Northern Territory, Australia

NI 43-101 Technical Report

Prepared for
VISTA GOLD CORP.

VISTA GOLD CORP.

May 15, 2008

Prepared by:

TETRA TECH
350 Indiana Street, Suite 500
Golden, Colorado 80401
(303) 217-5700 (303) 217-5705 fax

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

1.0 SUMMARY

Tetra Tech, Inc. (“Tt”) was commissioned by Vista Gold Corp. ("Vista") in November 2007 to prepare an updated Canadian National Instrument 43-101 (NI43-101) compliant Technical Report on the Mt Todd Gold Project (the "Project") located in the Northern Territory, (“NT”) Australia. On March 1, 2006, Vista purchased the Mt Todd property, and the acquisition was completed on June 16, 2006, when the mineral leases transferred to Vista and funds were released from escrow. An initial NI43-101 Technical Report was completed on June 26, 2006, a Preliminary Economic Assessment report was completed on December 29, 2007, an updated Technical Report of the gold resources on March 14, 2008 and this report is an update of the March 31, 2008 Technical Report and is based on additional exploration drilling completed by Vista during 2007 and the estimation of copper, lead, zinc, silver, and other elements present. The Mt Todd property contains a number of known occurrences of gold, which have been explored and/or exploited to various degrees. The largest and best-known deposits are the Batman and Quigleys Deposits. Both of these have had historic mining, with Batman having the most production and exploration completed.

Location

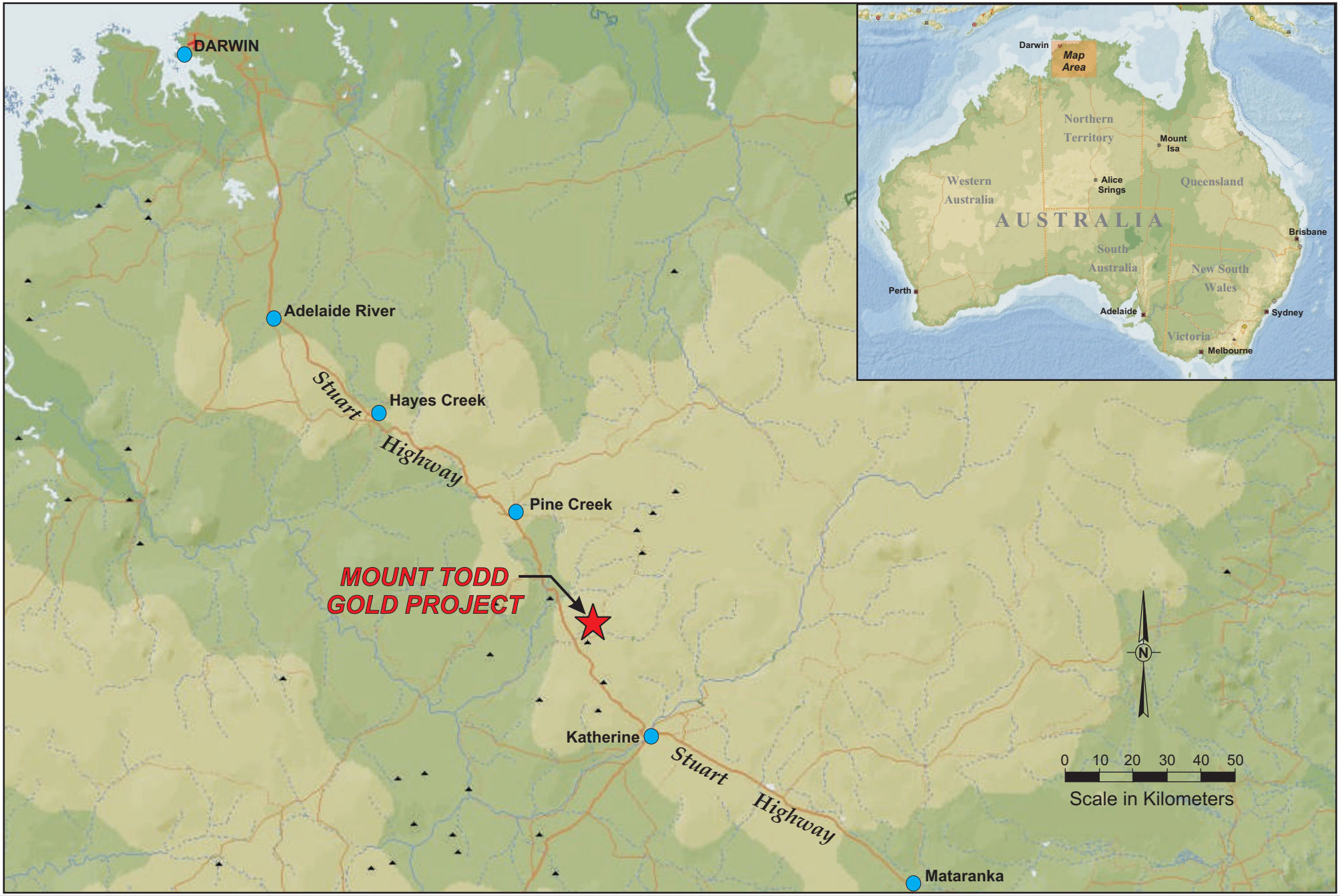
The Mt Todd Project is located 50 kilometers (km) northwest of Katherine, and approximately 250 km southeast of Darwin in the NT of Australia (FIGURE 1-1). Access to the property is via high quality, two-lane paved roads from the Stuart Highway, the main arterial within the territory.

History

The Mt Todd Gold Project has a long, well-documented history as presented in TABLE 1-1. In addition, it has a well-preserved and meticulously maintained database and supporting file system. The care and quality of these data speak well to the trust and integrity of the resultant studies that have been completed since the deposit was discovered.

While the property closed due to bankruptcy, the failure of the project was not a result of a failure of the deposit and/or the resource estimate. The failure of the project was primarily a result of improper crushing and grinding, poor recovery which resulted in higher than expected operating costs, and low gold prices. Had proper bulk sampling and testing been completed, a different processing plant would have been built which would have been more appropriate for the deposit conditions.

Historically, the Batman resource estimate reconciled very well on a “global” basis, but had difficulties on a local basis. This was primarily due to improper modeling techniques that “over-smoothed” the grades and poor sampling techniques of the blast holes. The improper modeling of the resource has been rectified in this report with the entire deposit being remodeled. Prior to closure in 2000, it appears that all of the sampling problems, as specified by the various consultants and reports, had been addressed and corrected. The improper processing techniques are also currently being reviewed and revised. A brief write up of this work is presented in Section 16.0 of this report. It is Tt’s opinion that this information is very important when examining the Mt Todd Gold Project as envisaged by Vista.



Issued by: TETRA TECH 350 Indiana Street, Suite 500 Golden, Colorado 80401 (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig1-1.dwg	**Figure 1-1** **General Location Map** **Mt. Todd Gold Project**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	

TABLE 1-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Property History
May 2008

1986 October 1986 – January 1987:	Conceptual Studies, Australia Gold PTY LTD (Billiton); Regional Screening; (Higgins), Ground Acquisition by Zapopan N.L.
1987 February: June-July: October:	Joint Venture finalized between Zapopan and Billiton. Geological Reconnaissance, Regional BCL, stream sediment sampling. Follow-up BCL stream sediment sampling, rock chip sampling and geological mapping (Geonorth)
1988 Feb-March: March-April: May: May-June: July: July-Dec:	Data reassessment (Truelove) Gridding, BCL grid soil sampling, grid based rock chip sampling and geological mapping (Truelove) Percussion drilling Batman (Truelove) - (BP1-17, 1475m percussion) Follow-up BCL soil and rock chip sampling (Ruxton, Mackay) Percussion drilling Robin (Truelove, Mackay) - RP1-14, (1584m percussion) Batman diamond, percussion and RC drilling (Kenny, Wegmann, Fuccenecco) - BP18-70, (6263m percussion); BD1-71, (8562m Diamond); BP71-100, (3065m R.C.)
1989 Feb-June: June: July-Dec:	Batman diamond and RC drilling:BD72-85 (5060m diamond); BP101-208, (8072m RC). Penguin, Regatta, Golf, Tollis Reef Exploration Drilling : PP1-8, PD1, RGP132, GP1-8, BP108, TP1-7 (202m diamond, 3090m RC); TR1-159 (501m RAB). Mining lease application (MLA's 1070, 1071) lodged. Resource Estimates; mining-related studies; Batman EM-drilling: BD12, BD8690 (1375m diamond); RC pre-collars and H/W drilling, BP209-220 (1320m RC); Exploration EM and exploration drilling: Tollis, Quigleys, TP9, TD1, QP1-3, QD1-4 (1141 diamond, 278m RC); Negative Exploration Tailings Dam: E1-16 (318m RC); DR1-144 (701. RAB) (Kenny, Wegmann, Fuccenecco, Gibbs).
1990 Jan-March:	 Pre-feasibility related studies; Batman Inclined Infill RC drilling: BP222-239 (2370m RC); Tollis RC drilling, TP10-25 (1080m RC). (Kenny, Wegmann, Fuccenecco, Gibbs)
1993 - 1997 Pegasus Gold Australia Pty Ltd.	Pegasus Gold Australia Pty Ltd reported investing more than US$200 million in the development of the Mt Todd mine and operated it from 1993 to 1997, when the project closed as a result of technical difficulties and low gold prices. The deed administrators were appointed in 1997 and sold the mine in March 1999 to a joint venture comprised of Multiplex Resources Pty Ltd and General Gold Resources Ltd.
1999 - 2000 March - June	Operated by a joint venture comprised of Multiplex Resources Pty Ltd and General Gold Resources Ltd. Operations ceased in July 2000, Pegasus, through the Deed Administrators, regained possession of various parts of the mine assets in order to recoup the balance of purchase price owed it. Most of the equipment was sold in June 2001 and removed from the mine. The tailings facility and raw water facilities still remain at the site.
2000 – 2006	Ferrier Hodgson (the Deed Administrators), Pegasus Gold Australia Pty Ltd; the government of the NT; and the Jawoyn Association Aboriginal Corporation (JAAC) held the property.
2006 March to Present	 Vista Gold Corp. acquires concession rights from the Deed Administrators.

Ownership

The mineral leases consist of three individual tenements, MLN 1070, MLN1071, and MLN1127 comprising some 5,365 hectares. FIGURE 1-2 illustrates the general location of the tenements and the relative position of the two primary mineral deposits: Batman and Quigleys.

The agreement with the Territory is for an initial term of five years commencing January 1, 2006, with an extension of five years at Vista's option and three additional years possible at the option of the Territory. During the first five-year term, Vista must undertake a comprehensive technical and environmental review of the project to evaluate current site environmental conditions to develop a program to stabilize the environmental conditions and minimize offsite contamination. Vista must also review the water management plan and make recommendations and produce a technical report for the re-starting of the operations. During the term of the agreement, Vista must examine all technical, economic, and environmental issues, estimate the cost to rehabilitate the site, explore and evaluate the potential of the project, and prepare a technical and economic feasibility study for the potential development of the entire Mt Todd Project site.

As part of the agreement, the Territory has acknowledged its commitment to rehabilitate the site and that Vista has no obligations for pre-existing conditions until it submits and receives approval of a Mine Management Plan for resumption of mining operations.

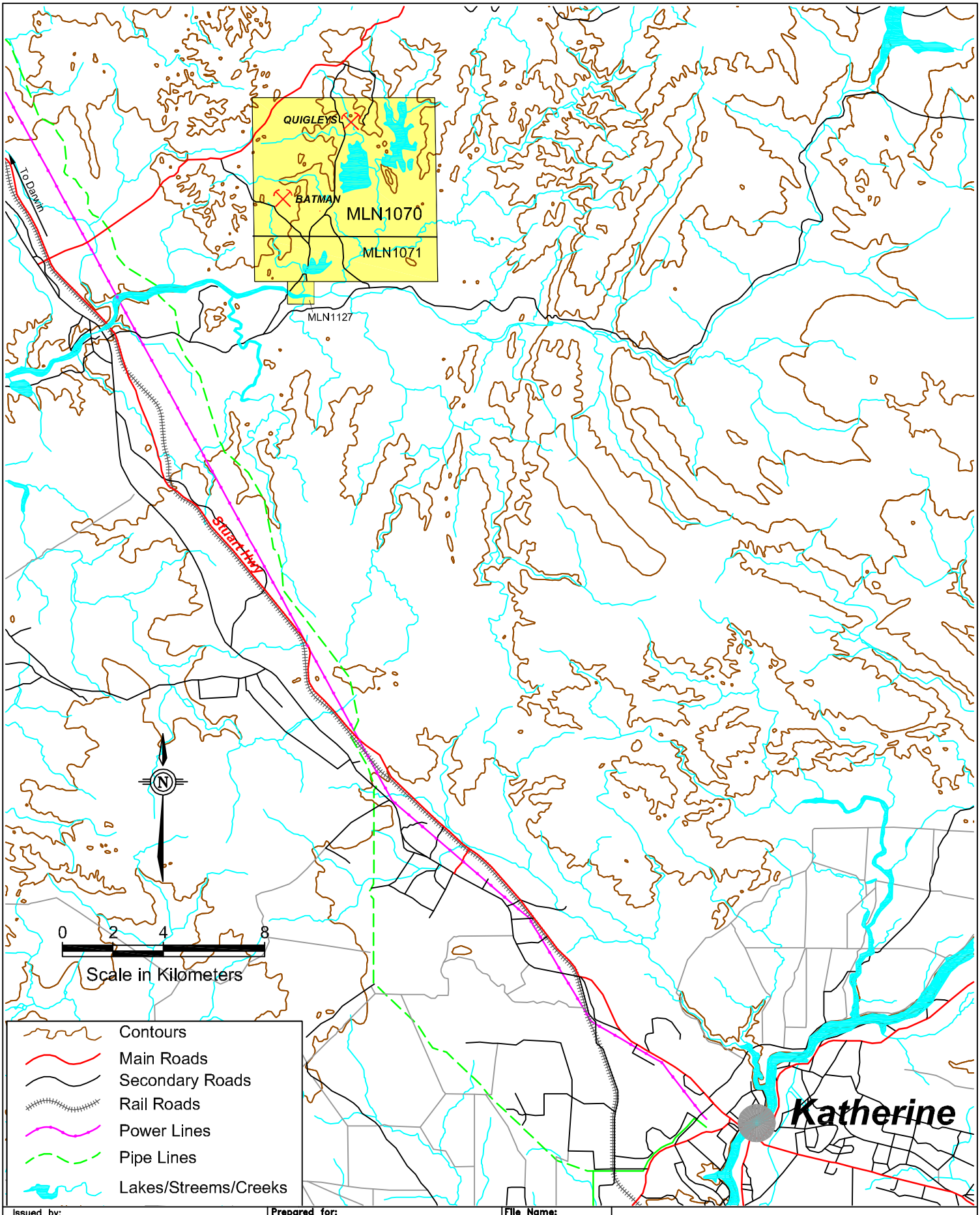
Geology

The Mt Todd Project is situated within the southeastern portion of the Early Proterozoic Pine Creek Geosyncline. Meta-sediments, granitoids, basic intrusives, acid and intermediate volcanic rocks occur within this geological province.

The geology of the Batman Deposit consists of a sequence of hornfelsed interbedded greywackes, and shales with minor thin beds of felsic tuff. Bedding is striking consistently at 325^{o}, dipping at 40^{o} to 60^{o} to the southwest. Minor lamprophyre dykes trending north-south pinch and swell, crosscutting the bedding.

The deposits are similar to other gold deposits of the Pine Creek Geosyncline (PCG) and are classified as orogenic gold deposits in the subdivision of thermal aureole gold style. The Batman Deposit shares some characteristics with intrusion-related gold systems, especially in terms of the association of gold with bismuth and reduced ore mineralogies. This makes the deposit unique in the PCG. The mineralization within the Batman Deposit is directly related to the intensity of the north south trending quartz sulfide veining. The lithological units impact on the orientation and intensity of mineralization.

Sulfide minerals associated with the gold mineralization are pyrite, pyrrhotite and lesser amounts of chalcopyrite, bismuthinite and arsenopyrite. Galena and sphalerite are also present but appear to be post-gold mineralization and are related to calcite veining, bedding and the east-west trending faults and joints.



Issued by:

TETRA TECH
350 Indiana Street, Suite 500
Golden, Colorado 80401
(303) 217-5700 (303) 217-5705 fax

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Project: Mt Todd Gold Project	Project Number: 114-310875
Project Location: Northern Territory, Australia	Date of Issue: May/2008

Figure 1-2
Concessions and Infrastructure Map

Estimated Resources

At the present time, resources have only been estimated for the Batman Deposit. Tt created three-dimensional computerized geologic and grade models of the Batman Deposit. While the deposit model also contains the Quigleys Deposit, no geologic resource estimate has been made for this deposit at the present time.

The geologic model of the Batman Deposit was created by General Gold Corporation ("GGC") and audited by Tt. The geologic model was constructed by creating three-dimensional wire-frames of the main geologic units, oxidation types, and mineralizing controls and super-imposing them on each other to create an overall numeric code that details all of the input parameters. GGC created the model based on the prior work of others, recommendations of other consultants, and GGC's own experience. It is Tt's opinion that the GGC's geologic model accurately portrays the geologic environment of the Batman Deposit.

Tt used the geologic model to guide the statistical and geostatistical analysis of the gold assay data. The analysis of the gold assays further confirmed the geologic divisions made by GGC in the geologic model. Gold grades were estimated into the individual blocks of the model by ordinary, whole-block kriging.

The rock model was then assigned a tonnage factor based on the oxidation state (i.e. oxidized, transition, primary). The tonnage factors were based on a number of tests from the core and, in Tt's opinion, are representative of the various rock units, and are acceptable for estimation of the in-place geologic resources.

The estimated gold resources were classified into measured, indicated, and inferred categories. The classification was accomplished by a combination of kriging variance, number of points used in the estimate, and number of sectors used. TABLE 1-2 details the results of the classification. The JAS model refers to the first pass short-range (measured and indicated) kriged gold model. The HALO model refers to the second estimation pass model and is comprised of the blocks not estimated by the JAS model.

TABLE 1-2
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Gold Resource Classification Criteria
May 2008

Category	Kriging Variance	No. of Sectors	No. of Points/Sector
Measured	JAS Model < 0.30	4	4-16
Indicated	JAS Model >= 0.30 and <0.55	4	4-16
Inferred	Halo Model <0.45	3	2-8

TABLES 1-3 and 1-4 details the estimated in-place resources of all metals present, by gold classification and by gold cutoff grade for the Batman Deposit. All of the resources quoted are contained on Vista's mineral leases.

TABLE 1-3
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Deposit Classified Resources
May 2008

MEASURED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	1,650	2.400	127.3	1.800	95.5	0.07	2,323.2	0.06	0.08	0.02	6.88	1.59
1.75	2,969	2.161	206.3	1.783	170.2	0.07	4,002.2	0.06	0.07	0.02	6.80	1.54
1.50	5,270	1.921	325.4	1.750	296.5	0.06	6,798.3	0.06	0.08	0.01	6.75	1.49
1.25	8,822	1.697	481.4	1.690	479.2	0.06	10,921.6	0.05	0.07	0.01	6.69	1.44
1.00	14,628	1.465	688.9	1.582	743.9	0.06	17,319.6	0.05	0.07	0.01	6.61	1.38
0.90	18,187	1.364	797.3	1.529	893.9	0.06	21,060.5	0.05	0.06	0.02	6.58	1.34
0.80	22,662	1.262	919.4	1.485	1,081.8	0.06	25,608.1	0.04	0.06	0.02	6.53	1.31
0.70	28,322	1.159	1,055.4	1.453	1,323.2	0.06	31,210.8	0.04	0.06	0.02	6.48	1.27
0.60	35,229	1.059	1,199.4	1.437	1,627.7	0.05	37,554.1	0.04	0.06	0.02	6.42	1.22
0.50	43,534	0.962	1,345.8	1.430	2,001.8	0.05	45,014.2	0.04	0.06	0.02	6.36	1.17
0.40	52,966	0.870	1,481.7	1.434	2,442.1	0.05	52,754.1	0.04	0.06	0.02	6.30	1.12

INDICATED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	3,071	2.745	271.0	1.807	178.4	0.07	4,293.3	0.05	0.06	0.02	6.77	1.52
1.75	4,834	2.424	376.7	1.751	272.2	0.07	6,342.2	0.05	0.06	0.02	6.70	1.46
1.50	7,165	2.162	497.9	1.734	399.5	0.06	9,156.9	0.05	0.06	0.02	6.66	1.43
1.25	11,153	1.875	672.3	1.685	604.3	0.06	13,539.7	0.05	0.06	0.02	6.60	1.38
1.00	17,780	1.591	909.2	1.642	938.5	0.06	20,838.2	0.04	0.06	0.01	6.57	1.34
0.90	21,461	1.480	1,021.1	1.621	1,118.3	0.06	24,637.2	0.04	0.05	0.02	6.54	1.31
0.80	26,052	1.369	1,146.3	1.590	1,331.8	0.06	29,230.3	0.04	0.05	0.02	6.50	1.29
0.70	31,281	1.265	1,272.1	1.567	1,575.8	0.06	34,659.3	0.04	0.05	0.02	6.47	1.27
0.60	38,225	1.153	1,416.4	1.554	1,910.1	0.05	41,588.8	0.04	0.05	0.02	6.44	1.24
0.50	45,746	1.053	1,549.3	1.537	2,261.2	0.05	48,765.2	0.04	0.05	0.02	6.41	1.21
0.40	54,017	0.961	1,668.4	1.522	2,643.4	0.05	56,609.8	0.04	0.05	0.02	6.38	1.19

MEASURED + INDICATED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	4,721	2.624	398.3	1.804	273.9	0.07	6,609.4	0.05	0.07	0.02	6.81	1.55
1.75	7,803	2.324	583.0	1.764	442.4	0.07	10,346.8	0.05	0.07	0.02	6.74	1.49
1.50	12,436	2.059	823.4	1.741	696.1	0.06	15,967.8	0.05	0.07	0.02	6.70	1.46
1.25	19,974	1.796	1,153.5	1.687	1,083.5	0.06	24,448.2	0.05	0.07	0.02	6.64	1.40
1.00	32,408	1.534	1,598.1	1.615	1,682.3	0.06	38,176.6	0.05	0.06	0.01	6.59	1.36
0.90	39,647	1.427	1,818.3	1.579	2,012.1	0.06	45,673.3	0.04	0.06	0.02	6.56	1.33
0.80	48,713	1.319	2,065.8	1.541	2,413.6	0.06	54,850.8	0.04	0.06	0.02	6.51	1.30
0.70	59,603	1.215	2,327.5	1.513	2,899.1	0.06	65,920.9	0.04	0.05	0.02	6.47	1.27
0.60	73,454	1.108	2,615.7	1.498	3,537.9	0.05	79,036.5	0.04	0.05	0.02	6.43	1.23
0.50	89,280	1.009	2,895.1	1.485	4,262.9	0.05	93,744.0	0.04	0.05	0.02	6.38	1.20
0.40	106,984	0.916	3,150.0	1.479	5,085.5	0.05	109,337.6	0.04	0.05	0.02	6.34	1.16

VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Deposit Classified Resources
May 2008

INFERRED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	555	2.347	41.9	2.515	44.9	0.07	784.8	0.03	0.06	0.01	6.51	1.54
1.75	1,254	2.075	83.7	2.469	99.5	0.08	1,928.7	0.03	0.05	0.02	6.53	1.56
1.50	3,015	1.800	174.5	2.362	229.0	0.07	4,377.8	0.03	0.05	0.01	6.56	1.53
1.25	6,365	1.571	321.5	2.188	447.7	0.07	8,567.3	0.03	0.04	0.01	6.53	1.48
1.00	11,993	1.355	522.4	2.062	794.9	0.06	15,063.2	0.03	0.04	0.01	6.47	1.40
0.90	15,894	1.255	641.2	1.985	1,014.4	0.06	19,136.4	0.03	0.04	0.01	6.42	1.35
0.80	21,101	1.154	783.1	1.912	1,297.4	0.06	24,223.9	0.03	0.04	0.01	6.37	1.29
0.70	28,660	1.047	964.5	1.835	1,691.1	0.05	31,067.4	0.03	0.04	0.01	6.31	1.22
0.60	40,299	0.931	1,206.2	1.767	2,288.8	0.05	41,427.4	0.03	0.04	0.02	6.23	1.15
0.50	58,815	0.810	1,531.5	1.709	3,230.9	0.05	56,815.3	0.03	0.04	0.02	6.15	1.07
0.40	85,551	0.696	1,914.9	1.657	4,556.5	0.05	78,022.5	0.03	0.04	0.02	6.08	1.00

The results of the 2007 Vista exploration program and blast hole geostatistical study provide strong support that the current geologic model and resource estimates are indicative of the mineralization present at Mt. Todd. The 2007 exploration program was designed to complete four main objectives:

1) Confirmation of the existing geologic and grade model;

2) Confirmation of the previous assaying programs and grades in the assay database;

3) Development of additional definition in the short-range portion of the variogram; and

4) Development of additional measured and indicated mineral resources.

All of these objectives were met and/or exceeded. The results of the 2007 exploration program added approximately 770,000 ounces of gold to the measured resource class and approximately 368,000 ounces to the indicated resource class at a 0.5 g Au/t cutoff grade. Measured and indicated resources now account for approximately 65% of the known resources at the Batman deposit. In addition, copper, lead, zinc, and silver resources have also been estimated for the first time.

Exploration Potential

The following discussion details by deposit some of the more important areas that have been identified by Tt that are likely to result in increases in either the confidence of the resource estimate and/or the amount of the resource estimate for the individual deposits located on the Mt Todd mineral leases.

Batman Deposit

One of the results of the statistical and geostatistical analysis of the blast hole gold data and resulting creation of independent gold, copper, silver, lead, zinc, iron, and sulfur grade models was the identification of areas within the existing defined deposit that continue to be “under drilled” with regard to classification of the estimated resources. In general, as the depth of the main mineralized host and structure increases, the density of drilling decreases, although the 2007 exploration program did improve the deep drilling. This has resulted in a number of areas that contain no estimated resources, but in all likelihood, based on the geology and surrounding drillhole data, are mineralized and would contain resources if additional drilling were completed. In addition to theses areas, the Batman deposit continues to be open in both the north and south directions. The last fence on the north and south sides of the deposit are mineralized and suggest that more “stepout” drilling is still needed.

A second feature that came to light from the 2007 exploration-drilling program is the potential existence of a “sympathetic” structure and mineralization to the east of the main Batman zone. This will require additional exploration drilling to better define this zone.

Quigleys Deposit

The Quigleys Deposit is more structurally controlled than Batman with the mineralization occurring in narrower bands. Because of this, additional work will need to be undertaken in order to develop an accurate resource estimate. Tt proposes that the following items be considered when preparing the work plan:

1) Surface mapping and subsequent re-interpretation of the footwall contact relationship to the shear zone mineralization is recommended. Any additional structural

complexity that results should, where appropriate, be used to refine the mineralized envelope upon which modeling updates are based;

2) Optimization of the resource provides a focus to define areas requiring further investigation or infill drilling. Due to the high degree of variability in the deposit, infill drilling is best targeted at key areas of geological complexity;

3) A model should be developed for the area outside the shear zone. This will require separation of areas of mineralization from unmineralized areas using a suitable constraining envelope; and

4) The cause of the apparent bias between some of the old and new RC drilling should be confirmed to validate the inclusion of all samples in the resource calculation.

Other Mineralized Occurrences

Several other known mineral occurrences occur on the concession. These are the Golf, Tollis, and Horseshoe deposits. There are some indications of prior exploration work, based on maps and minor references that have involved geologic, geochemical, geophysical, and drilling work. While a lower priority than Batman and Quigleys, efforts should be undertaken that:

1) Locate all available data and confirm, if possible, the validity;

2) Re-assess the data to determine if additional exploration work is warranted; and

3) Develop appropriate programs that systematically attempt to define the size and tenor of the mineralization present.

Existing Environmental Conditions

The Draft Environmental Impact Statement for the Mt Todd mine (Zapopan, 1992) gave the following as the specific environmental issues to be considered for the project: conservation of the Gouldian Finch in the Yinberrie Hills; control of acid drainage; heap leach solution containment; tailings containment; water management; rehabilitation planning; impacts of noise, dust and blasting; impacts on vegetation and fauna; impacts on Aboriginal sites of cultural significance; impacts on historical and Aboriginal archaeological sites; impacts on regional urban and social infrastructure; and general site management issues, such as weeds, mosquito-borne diseases, wildlife, and workforce behavior.

The major environmental considerations for the Mt Todd site currently and going forward could be regarded as site water management and, potentially, the conservation of the Gouldian Finch. The Gouldian Finch was classified as "Endangered" in 2001 by the NT Parks and Wildlife Commission (NT PWC, 2001). There are currently believed to be no specific conservation practices enforced at Mt Todd for the finch. The primary environmental challenge for Mt Todd is the area of water management. The site contains several sources of acidic water high in dissolved metals. These include the Batman Pit and the waste rock dump. Acidic waters are currently collected and/or stored in the Batman Pit, waste rock repository, HLP moat and low-grade ore dump pond (RP2). This water is managed through a combination of evaporation, pumping for containment, and controlled discharge to streams during major flow events. Similar conditions will need to be avoided for closure of a new mining operation at the site.

A database has been constructed for the collation of Mt Todd hydro-chemical data, and potentially for other data types (e.g. groundwater levels and pumping rates) in the future. The "guidelines" referenced in the following discussion of Mt Todd waters chemistry are the ANZECC and ANZMARC (2000) guidelines for aquatic ecosystem protection (at the 95% species protection level) and for recreation.

In all the water retention ponds (excluding the raw water dam) and in Batman Pit, the median concentrations of all metals measured (except arsenic) exceed the guideline levels, usually by a considerable margin. Copper and zinc have the highest levels relative to guidelines, requiring dilution factors of approximately 9000 and 5000 respectively to meet the guidelines. This demonstrates why the compliance focus for Mt Todd is on copper concentrations. Metal levels in all the ponds and pits (except RWD) are generally within the same order of magnitude. The pH of the waters ranges from approximately 3 to 4.5. The waters are brackish, with EC ranging between 1700uS/cm and 5000uS/cm.

The ephemeral streams on site (Stow, Horseshoe, and Batman) exhibit metal concentration records (particularly copper and zinc) indicative of periodic flushing of contaminants from site into the streams.

The impact of the Mt Todd site on the perennial Edith River is apparent in the monitoring results from sites along the river. Sulphate concentrations progress from very low upstream of site (less than 1 mg/L) to approximately 10 mg/L downstream of site during the wet season, with occasional excursions above 100 mg/L. This seasonality is not observed upstream of site and likely represents flushing of mine waters to the river with wet season rainfall. There are similar indications for copper. A license criteria for the site is that the copper concentration at downstream site SW10 be no more than 10 ug/L higher than at background site SW2. This criteria was breached several times in each of the previous four wet seasons. In the 2005/06 wet season it is understood that this was due in part to delays in installation of the water management infrastructure. With Vista operating the site, the number of breaches reduced significantly and were limited to four events at the start of the 2006/07 wet season. The results also suggest significant intermittent contributions of zinc to the Edith River from the Mt Todd site, and lesser contributions of aluminum, cadmium, and cobalt. The upstream water quality occasionally transgresses the aquatic guideline value for copper.

The hydro-chemical monitoring data displays no clear indication of seepage from the facilities. However, surface seeps are visible around the tailings dam, the heap leach pond, and RP1. This suggests seepage to groundwater is either currently not detected or will occur in the future. Further work, including installation of new monitoring bores, is required to characterize the occurrence of seepage with more confidence.

Water Management

The site contains several ponds with acidic water high in dissolved metals which include Batman Pit (RP3), the waste rock dump repository (RP1), the tailings dam (RP7), the heap leach facility, and the low grade ore dump pond (RP2). This water is managed through a combination of evaporation, pumping for containment, and controlled discharge to streams during major flow events.

The license conditions for the site have been breached several times during each wet season while the site has been under care and maintenance. These breaches have taken the form of uncontrolled discharges of wastewater from several ponds, and occasional exceedences of the downstream copper concentration limit. They have occurred despite significant effort and resources applied to water management on the site by the NT government, demonstrating the water management challenges for Mt Todd.

The overflows were caused largely by lack of pumping capability from the heap leach facility and RP5, inadequate pumping capability from RP1 and RP2, and undersizing of the RP1 pond.

During 2006 the NT government installed pumps at the heap leach facility and RP5, which should greatly reduce the future overflows from these ponds. A new pumping system was installed at RP1 in 2006 as part of a strategy to pump excess water from RP1 to RP3, rather than to RP7 as previous. At the time of writing, this pumping system is reportedly operating at a rate of 450m^3/hr, which is lower than the 540m^3/hr design pumping rate.

A new water balance model for Mt Todd has been constructed using the GoldSim platform. The key findings of scenarios run with the model are:

- The current water management strategy has a probable lifetime of two to four years (until RP3 fills). During this time the management strategy should decrease, but not eliminate, the occurrence of overflows and ARD releases from the site;
- The water balance excess (defined as pumped water, excluding controlled discharges, plus overflowed water) for the site ranges from 1.5 to 2.1 million cubic meters per year;
- The breakdown in excess water contribution from the ponds is approximately: RP1 - 80%, RP2 - 11%, RP5 - 8%, heap leach facility - 1%;
- The controlled discharge to Edith River from RP1 is a relatively small proportion of the balance, being around 60,000 to 100,000 m^3/year, or 5% of the water balance excess;
- Catchment inflow to RP7 and RP3 is potentially significant. Diversion of catchment flow around RP7 could make the tailings dam a net sink for approximately 1 million m^3/year. However, uncertainty in the catchment flow parameters needs to be resolved;
- The Raw Water Dam overflows an average volume of approximately 8,700,000 m^3/year of good quality water. This represents a potential dilutant source;
- A water treatment plant designed to treat the excess water from site (without mitigation measures) should have a peak design rate of 10,000 m^3/d and an average throughflow of 6,800 m^3/day; and
- It appears that the volumes of uncontrolled discharges from RP1 may have been significantly underestimated by water balance modeling in previous years. Therefore, there is a strong possibility that the reported overflow volumes for the 2006/07 wet season will increase from previous years despite similar management strategies.

The major uncertainties in the model relate to:

- Water levels in RP3, RP2, RP5 and the heap leach pond, none of which are currently recorded; and
- Catchment runoff contributions (particularly for RP3 and RP7).

The plan codifies the water management practices implemented by the NT government and continued by Vista.

Beyond the 2006/2007 wet season, it is likely that some form of treat and release scheme will be required within two to four years. Broadly speaking, the site water management strategy should take the form of adopting mitigation measures to extend the current practice of storing water in RP3 with the intent of ultimately introducing a ‘treat and release’ scheme. Earlier introduction of a treatment scheme will have time and cost benefits for the removal of pit water in advance of mining.

Vista has evaluated the use of enhanced evaporation systems and concluded that the technology is cost prohibitive. Currently Vista is acquiring equipment for the construction of a water treatment facility that will utilize lime. Other mitigation measures which should be considered are the diversion of catchment flow from RP3 and RP7, installation of telemetered monitoring instrumentation at monitoring location SW4 (installed in July 2007), and controlled release of water from the RWD to dilute treated water release.

Reclamation and Closure

Vista commissioned MWH to prepare the conceptual closure plan ("CCP") to support a preliminary feasibility study of the restart of mining operations. This CCP evaluates the closure liabilities that will transfer to Vista should a decision be made to restart mining operations at Mt Todd and is supported by separate reports prepared by MWH on the environmental status and water management at the site.

There are five primary facilities that currently exist that will be carried forward as part of the new mine plan, as well as ancillary facilities and disturbed ground. These are included in this CCP, as listed below:

- Batman Pit and pit lake (RP3);
- Waste Rock Dump (WRD), waste rock dump pond, and runoff containment pond (RP1);
- The existing Tailings Storage Facility (TSF), and tailings pond (RP7);
- Plant Area (not including stockpiles);
- Miscellaneous facilities (e.g., pipelines); and
- Disturbed ground (e.g., stockpile footprints).

In addition to the above-listed mine features, it is anticipated that a small lined tailings facility and a second unlined large tailings storage facility will be constructed during operation to contain sulfide-bearing and benign tailings, respectively. The mine pit and WRD will be significantly enlarged.

The closure costs were estimated based on the proposed design (areas and volumes) of each of the closure facilities and MWH's experience with similar projects. Using MWH's experience on similar projects, including current reclamation programs, unit rates were developed for each element of the closure strategy, which were then applied to the area or volume of each feature. The majority of the unit rates is per unit volume or area and has been applied to conditions where mine labor is used to conduct the reclamation. Based on this, the conceptual estimated costs for implementing this CCP are US**$30,500,000** including ten years of post-closure care and maintenance but before contingency, as summarized in TABLE 1-4

Option 2, which includes a more robust cover on the TSF increases the capital closure cost by approximately $4,100,000. The total cost difference including the engineering and construction management components is approximately $4,800,000. Post-closure care and maintenance between the two options is not considered to be significantly different.

TABLE 1-4 summarizes the MWH estimated closure costs for the Mt Todd site.

TABLE 1-4
VISTA GOLD CORP. – MT TODD GOLD PROJECT
MWH Conceptual Closure Cost Estimate Summary
As of December 29, 2006

Area	Cost (US$)
Batman Pit	$200,000
Waste Rock Dump	$9,200,000
Tailings Storage Facility - Existing	$4,200,000
Tailings Storage Facility - New	$3,500,000
Sulfide Tailings Facility Lined – New (option 1)	$1,300,000
Plant Area	$500,000
Disturbed Ground	$600,000
Water Management	$300,000
Subtotal	**$19,800,000**
Engineering & Construction Management	$3,200,000
Total Capital Cost for Closure	**$23,000,000**
Operations & Maintenance	$7,500,000
Total Cost	**$30,500,000**
Annual O&M costs until full closure accepted	$300,000

Notes: (1) Cost rounded to nearest $100,000 in current US$.

(2) Lower cost option 1 components included.

(3) Assumes that closure of the HLP estimated to cost $6,900,000 will be completed by the NT prior to project development.

It was necessary to make various assumptions in developing the CCP. Some of the key assumptions, which must be better understood as the closure process proceeds include the following:

- The heap leach pad will not be used in any way by the restart of mining operations and will be reclaimed by the NT at some date prior to commencement of mining operations;
- Sufficient water resources will be available to flood Batman Pit in a reasonable time period (e.g., 6 years or less);
- The Batman Pit lake limnology and watershed hydrology will allow for the establishment of a long-term stable closure condition without long-term water treatment;
- The inert waste rock that will be placed under the cover for the waste rock dump will be suitable to support the soil cover as plant growth media both chemically and in terms of water holding capacity (i.e. it will provide enough water storage to effectively eliminate infiltration);
- Sufficient inert waste rock will be available to allow for TSF embankment construction and for encapsulation of potentially acid generating waste rock;
- The heap leach pile will not have to be rinsed or otherwise treated prior to closure;
- In one scenario, the stabilized sulfide tailings: will not interfere with the establishment of vegetation in a 1 m soil cover section, will be demonstrated to be chemically stable

in the long-term, and will be of sufficiently low permeability to act as a low-permeability layer;

- The "rougher tailings" that will be placed over the tailings disposal facility will be suitable as a plant growth media both in terms of water holding capacity and chemically;
- Burial by benign rougher tailings will be sufficient for limiting any future ARD production from the existing tailings;
- The proposed water treatment plant that will be part of the proposed mining facility will be available for closure and early post-closure water treatment; and
- Potential impacts to groundwater are assumed to be minimal and therefore no closure activities associated with groundwater are included in this CCP.

While it is assumed the HLP will be closed by the NT prior to mine construction, another important assumption is that the HLP material will not have to be rinsed or otherwise treated prior to closure.

Several studies to gather information to confirm these assumptions and to provide the other necessary input parameters to model and finalize the design for the various mine facilities will be required prior to construction and closure.

2.0 INTRODUCTION

Tetra Tech, Inc. (“Tt”) was commissioned by Vista Gold Corp. ("Vista") in November 2007 to prepare an updated Canadian National Instrument 43-101 (NI43-101) compliant Technical Report on the Mt Todd Gold Project in the NT, Australia. The purpose of this study was to update the gold resources present based on the new drilling and, for the first time, quantify the presence of copper, lead, zinc, and silver quantities in the deposit. On March 1, 2006, Vista purchased the Mt Todd property and the acquisition was completed on June 16, 2006, when the mineral leases transferred to Vista and funds were released from escrow.

2.1 Terms of Reference

This report has been prepared in accordance with the guidelines provided in National Instrument 43-101 ("NI43-101"), Standards of Disclosure for Mineral Projects. The Qualified Person responsible for this report is Mr. John W. Rozelle P.G., Principal Geologist at Tt.

2.2 Scope of Work

The Mt Todd Mine property is made up of several gold deposits occurring in an area of some 5,365 hectares in the NT of Australia. The most prominent of these deposits are the Batman and Quigleys Deposits. The other mineral occurrences do not have sufficient data available at this time to develop classified mineral resource estimates.

The scope of work undertaken by Tt involved an update to the gold resource model to include exploration, geology, and assay work completed by Vista as part of their 2007 exploration program. Based on these additional data, Tt re-estimated the gold mineral resources of the Batman Deposit.

2.3 Effective Date

The effective date of the mineral resource and mineral reserve statements in this report is March 15, 2008.

2.4 Units

For the purpose of this report the exchange rates are CDN$1.00 = US$1.02 and A$1.00 = US$0.934. Common units of measure and conversion factors used in this report include:

Linear Measure

1 inch = 2.54 centimeters
1 foot = 0.3048 meter
1 yard = 0.9144 meter
1 mile = 1.6 kilometers

Area Measure

1 acre = 0.4047 hectare
1 square mile = 640 acres = 259 hectares

Capacity Measure (liquid)

1 US gallon = 4 quarts = 3.785 liter
1 cubic meter per hour = 4.403 US gpm

Weight

1 short ton	= 2000 pounds	= 0.907 tonne
1 pound	= 16 oz	= 0.454 kg
1 oz (troy)	= 31.103486 g	

Analytical Values

	percent	**grams per metric tonne**	**troy ounces per short ton**
1%	1%	10,000	291.667
1 gm/tonne	0.0001%	1.0	0.0291667
1 oz troy/short ton	0.003429%	34.2857	1
10 ppb			0.00029
100 ppm			2.917

Frequently used acronyms and abbreviations

AA	=	atomic absorption spectrometry
Ag	=	silver
Au	=	gold
°C	=	degrees Centigrade
CIC	=	Carbon-in-column
CIM	=	Canadian Institute of Mining, Metallurgical, and Petroleum
CIP	=	Carbon-in-pulp
°F	=	degrees Fahrenheit
FA	=	Fire Assay
Ft	=	foot or feet
G	=	gram(s)
g/kWh	=	grams per kilowatt hour
g/t	=	grams per tonne
h	=	hour
ICP	=	Inductively Coupled Plasma Atomic Emission Spectroscopy
km	=	kilometer
kV	=	kilovolts
kWh	=	Kilowatt hour
kWh/t	=	Kilowatt hours per tonne
L	=	liter
m	=	meter(s)
m2	=	square meter(s)
m2/t/d	=	square meters per tonne per day
m3	=	cubic meter(s)

m3/h	=	cubic meter(s) per hour
mm	=	millimeter
MW	=	megawatts
NSR	=	net smelter return
oz Ag/t	=	troy ounces silver per short ton (oz/ton)
oz Au/t	=	troy ounces gold per short ton (oz/ton)
ppm	=	parts per million
ppb	=	parts per billion
RC	=	reverse circulation drilling method
SAG	=	semi-autogenous grinding
ton	=	short ton(s)
tonne	=	metric tonne
t/m3	=	tonne per cubic meter
tpd	=	tonnes per day
tph	=	tonnes per hour
µm	=	micron(s)
%	=	percent
tpy	=	tons (or tonnes) per year
tpm	=	tons (or tonnes) per month
tpd	=	tons (or tonnes) per day

Abbreviations of the Periodic Table

actinium = Ac	aluminum = Al	amercium = Am	antimony = Sb	argon = Ar
arsenic = As	astatine = At	barium = Ba	berkelium = Bk	beryllium = Be
bismuth = Bi	bohrium = Bh	boron = B	bromine = Br	cadmium = Cd
calcium = Ca	californium = Cf	carbon = C	cerium = Ce	cesium = Cs
chlorine = Cl	chromium = Cr	cobalt = Co	copper = Cu	curium = Cm
dubnium = Db	dysprosium = Dy	einsteinum = Es	erbium = Er	europium = Eu
fermium = Fm	fluorine = F	francium = Fr	gadolinium = Gd	gallium = Ga
germanium = Ge	gold = Au	hafnium = Hf	hahnium = Hn	helium = He
holmium = Ho	hydrogen = H	indium = In	iodine = I	iridium = Ir
iron = Fe	juliotium = Jl	krypton = Kr	lanthanum = La	lawrencium = Lr
lead = Pb	lithium = Li	lutetium = Lu	magnesium = Mg	manganese = Mn
meltnerium = Mt	mendelevium = Md	mercury = Hg	molybdenum = Mo	neodymium = Nd
neon = Ne	neptunium = Np	nickel = Ni	niobium = Nb	nitrogen = N
nobelium = No	osmium = Os	oxygen = O	palladium = Pd	phosphorus = P
platinum = Pt	plutonium = Pu	polonium = Po	potassium = K	prasodymium = Pr
promethium = Pm	protactinium = Pa	radium = Ra	radon = Rn	rhodium = Rh
rubidium = Rb	ruthenium = Ru	rutherfordium = Rf	rhenium = Re	samarium = Sm
scandium = Sc	selenium = Se	silicon = Si	silver = Ag	sodium = Na
strontium = Sr	sulphur = S	technetium = Tc	tantalum = Ta	tellurium = Te
terbium = Tb	thallium = Tl	thorium = Th	thulium = Tm	tin = Sn
titanium = Ti	tungsten = W	uranium = U	vanadium = V	xenon = Xe
ytterbium = Yb	yttrium = Y	zinc = Zn	zirconium = Zr	

2.5 Qualifications of Consultant

John W. Rozelle of Tt visited the Mt Todd property in June 2005. During his visit Mr. Rozelle examined the Mt Todd mine site, core storage facility at the mine site and the data repository in Darwin. This report has been prepared based on a technical review and preparation of resource estimates by consultants sourced from Tt's Golden, Colorado office. These consultants are specialists in the fields of geology, mineral resource and mineral reserve estimation and classification, mining and mineral economics.

Neither Tt nor any of its employees and associates employed in the preparation of this report has any beneficial interest in Vista or in the assets of Vista. Tt will be paid a fee for this work in accordance with normal professional consulting practice.

The individuals who have provided input to this technical report, who are listed below, have extensive experience in the mining industry and are members in good standing of appropriate professional institutions.

The key project personnel contributing to this report are listed in TABLE 2-1.

TABLE 2-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Key Project Personnel
May 2008

Company	Name	Title
Vista Gold Corp.	Fred Earnest	President & COO
	Robert Perry	Vice President, Exploration
	Ken Deter	Manager of Engineering
Tetra Tech MM, Inc.	John Rozelle	Principal Geologist
	Stephen Krajewski	Senior Geologist
	Rex Bryan	Principal Geostatistician
Resource Development Inc.	Deepak Malhotra	President, Metallurgist
	Ray Hyyppa	Consulting Metallurgist

2.6 Basis of Report

Tt has prepared this report exclusively for Vista. The information presented, opinions and conclusions stated, and estimates made are based on the following information:

- Information available at the time of the preparation of the report as provided by Vista;
- Assumptions, conditions, and qualifications as set forth in the report;
- Data, reports, and opinions from prior owners and third-party entities; and
- Data, reports, and opinions from Vista exploration work and consultants.

Tt has not independently conducted any title or other searches, but has relied upon Vista for information on the status of the claims, property title, agreements, and other pertinent conditions.

3.0 RELIANCE ON OTHER EXPERTS

The Mt Todd mining property, having been an operating mine for several years, has been the subject of numerous written reports. The Trustee for the NT has provided Vista with an inventory of the available documentation for the property. Many of these reports and other documents were prepared by mining consulting firms on behalf of the operators of the mine/property at the time. Tt has used a number of the references in the preparation of the mineral resource estimate detailed herein. The reports referenced have each been reviewed for materiality and accuracy, as they pertain to Vista's plans for property development. Specific experts that had an important role in the preparation of this report include:

Dr. Stephen A. Krajewski

Graduated with Geography (B.S.-1964), Geology (M.S.-1971) and Earth Science (Ed.D.-1977) degrees from The Pennsylvania State University

Is a Member of the American Institute of Professional Geologists, Member Number 4739, member of the Society for Mining, Metallurgy, and Exploration, Inc. (SME); member of the American Association of Petroleum Geologists; and a member of the Rocky Mountain Association of Geologists.

Has worked with computers to map and model mineral deposits since 1983. His geologic career has included 42 years of domestic and international experience in the employ of Major and Junior Mining Industry Companies, Major and Minor Oil & Gas Companies, environmental consulting companies, a state geological survey, and universities.

Dr. Rex C. Bryan

Graduated with a Mineral Economics Ph.D. from the Colorado School of Mines, Golden, Colorado, in 1980. Graduated in 1976 from Brown University, in Providence, Rhode Island, with M.Sc. Geology. Graduated from Michigan State University with a MBA (1973) and a BS in Engineering (1971).

Is a member of the Society for Mining, Metallurgy, and Exploration, Inc. (SME).

Has worked as a geostatistical reserve analyst and mineral industry consultant for a total of 26 years since graduating from Colorado School of Mines. He is an expert witness to industry and for the U.S. Department of Justice on ore-grade control, reserves, and mine contamination issues. He is currently a consultant to the industry in mine valuation, ore reserve estimation, and environmental compliance.

Mr. John W. Rozelle, P.G. has personally reviewed the available reports and the extracted data in order to ensure that these items meet all of the necessary reporting criteria as set out in the NI43-101 guidelines.

4.0 LOCATION AND PROPERTY DESCRIPTION

4.1 Location

The Mt Todd Project is located 56 km by road northwest of Katherine, and approximately 250 km southeast of Darwin in the NT of Australia. Access to the property is via high quality, two-lane paved roads from the Stuart Highway, the main arterial within the territory (FIGURE 4-1).

Tenements

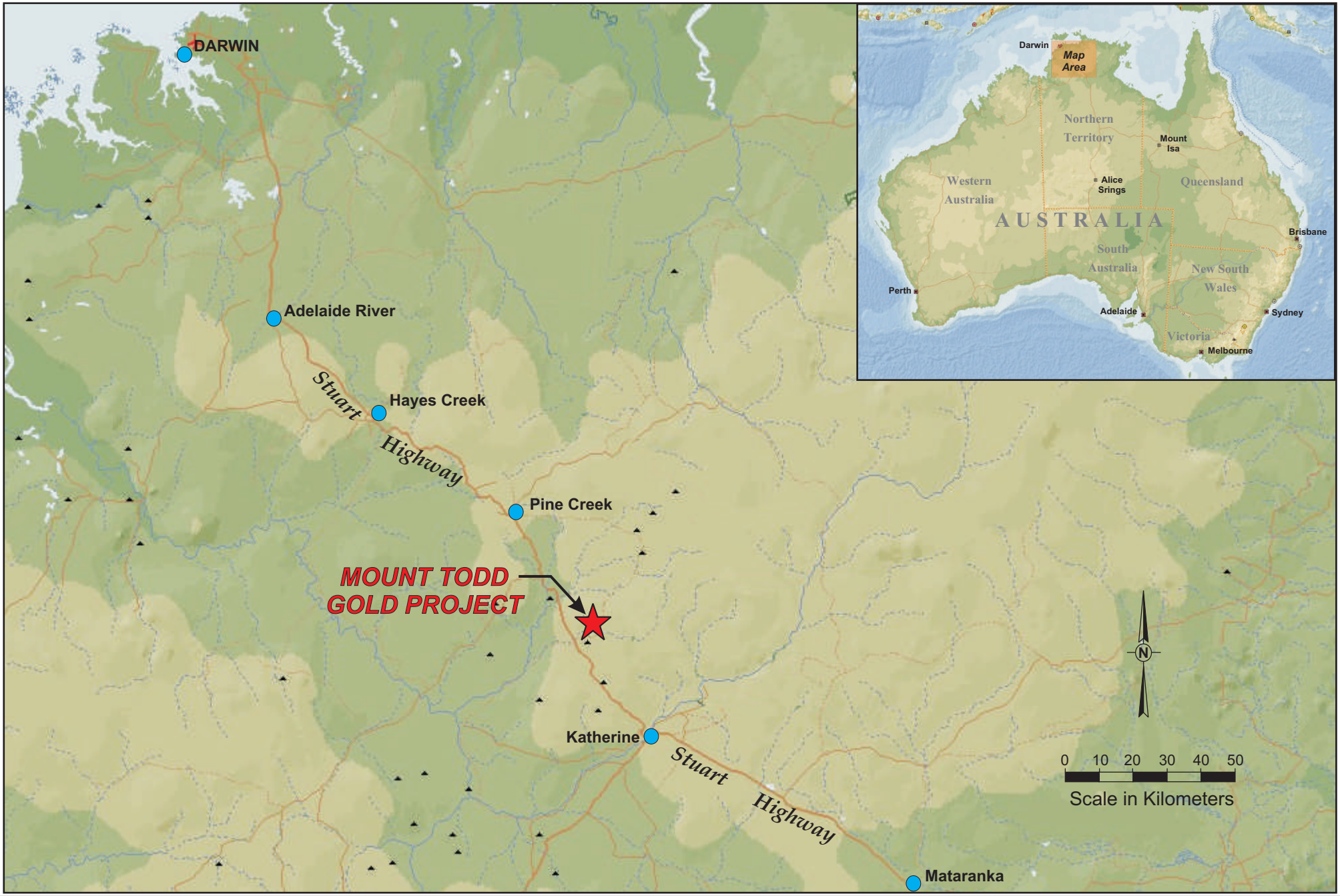
The concession consists of three individual tenements, MLN1070, MLN1071, and MLN1127 comprising some 5,365.27 hectares. FIGURE 4-2 illustrates the general location of the tenements and the relative position of the two primary mineral deposits: Batman and Quigleys.

Lease and Royalty Structure

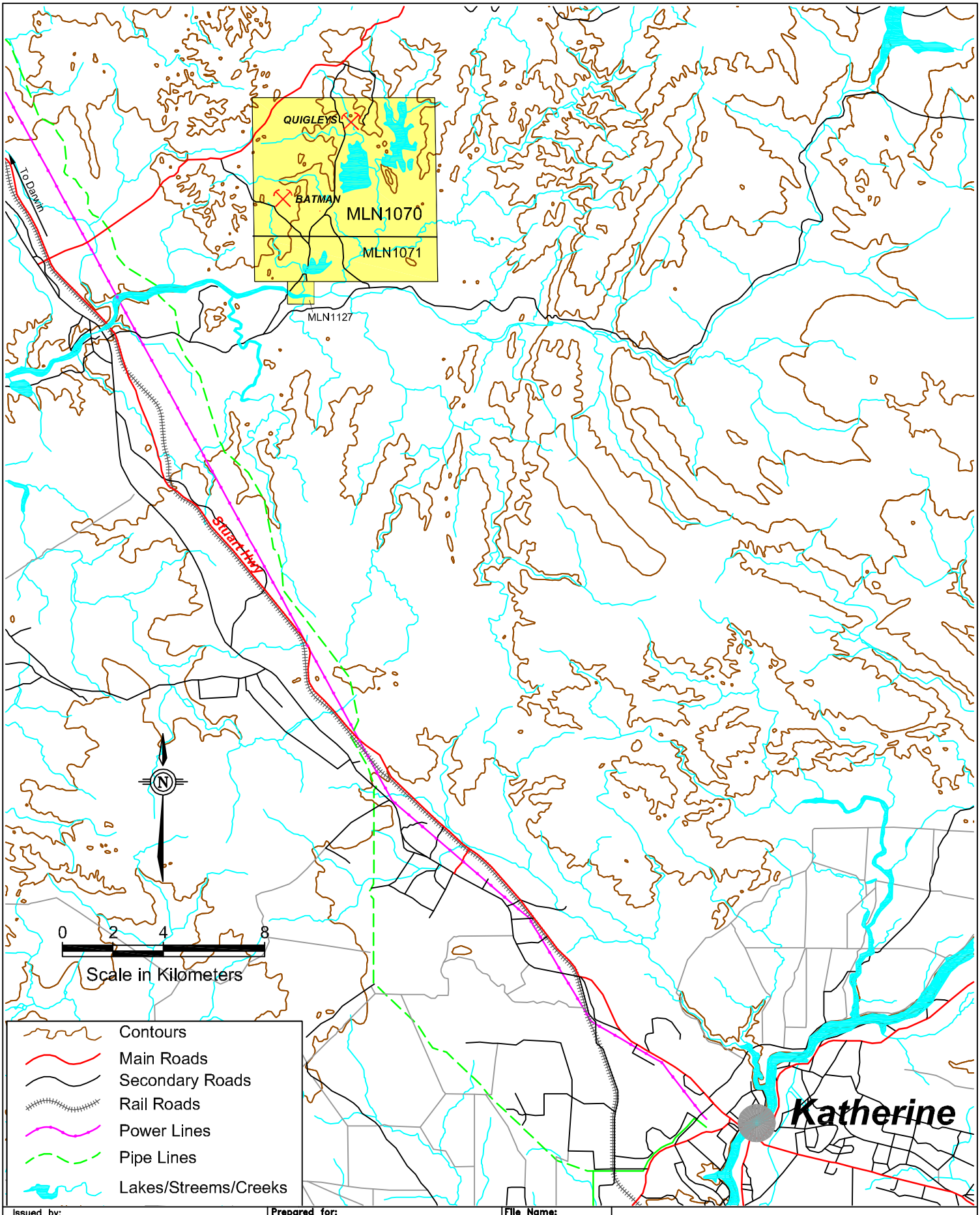
The agreement with the Territory is for an initial term of five years commencing January 1, 2006, with an extension of five years at Vista's option and three additional years possible at option of the Territory. During the first five-year term, Vista must undertake a comprehensive technical and environmental review of the project to evaluate current site environmental conditions to develop a program to stabilize the environmental conditions and minimize offsite contamination. Vista must also review the water management plan and make recommendations and produce a technical report for the re-starting of operations. During the term of the agreement, Vista must examine all technical, economic, and environmental issues, estimate the cost to rehabilitate the site, explore and evaluate the potential of the project, and prepare a technical and economic feasibility study for the potential development of the entire Mt Todd Project site.

Vista will pay the Territory's costs of management and operation of the Mt Todd site up to a maximum of A$375,000 during the first year of the term, and assume site management and pay management and operation costs in following years. In the agreement, the Territory acknowledges its commitment to rehabilitate the site and that Vista has no rehabilitation obligations for pre-existing conditions until it submits and receives approval of a Mine Management Plan for the resumption of mining operations. Recognizing the importance placed by the Territory upon local industry participation, Vista has agreed to use, where appropriate, NT labor and services during the period of the agreement in connection with the Mt Todd property, and further, that when a production decision is reached, to prepare and execute a local Industry Participation Plan.

The agreement with the Jawoyn Association Aboriginal Corporation (JAAC) calls for Vista to issue common shares of Vista with a value of CAD $1.0 million as consideration for the JAAC entering into the agreement and for rent for the use of the surface overlying the mineral leases during the period from the effective date until a decision is reached to begin production. Vista will also pay the JAAC A$5,000 per month in return for consulting with respect to Aboriginal, cultural and heritage issues. The JAAC will provide Vista with an office in Katherine (a regional center of population 11,000 approximately 50 km from the mine site) and with secretarial services for a minimum of A$2,000 per month.



Issued by: TETRA TECH 350 Indiana Street, Suite 500 Golden, Colorado 80401 (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig4-1.dwg	**Figure 4-1** **General Location Map** **Mt. Todd Gold Project**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig1-2_4-2.dwg	**Figure 4-2** **Concessions and Infrastructure Map**
	Project: Mt Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	

If the Mt Todd Project proves feasible for economic development of the mineral leases including a fully funded site reclamation bond, Vista will establish a technical oversight committee with representatives of the Territory and the JAAC. Additionally, Vista will offer the JAAC the opportunity for joint venture participation in the operation on a 90% Vista / 10% JAAC basis. For rent of the surface during production, Vista (or the Joint Venture if formed) will pay the JAAC an annual amount equal to 1% of the annual value of production with an annual minimum of A$50,000. As part of the agreement, Vista will endeavor to use services and labor provided by the JAAC when feasible. Vista and the JAAC may form a 50 / 50 exploration joint venture to explore JAAC lands outside the mineral leases.

5.0 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

5.1 Accessibility

The Mt Todd Project is located 50 km northwest of Katherine, and approximately 250 km southeast of Darwin in the NT of Australia (see FIGURE 4-2). Access to the mine is via high quality, two-lane paved roads from the Stuart Highway, the main artery within the territory.

5.2 Climate

The Mt Todd area has a sub-tropical climate with a distinct wet season and dry season. The area receives most of its rainfall between the months of January and early March. The temperature usually ranges from 25° to 35° C (77° to 95° F). Between November and December, temperatures can reach 40° C (104° F). Winter temperatures in the dry season are warm in the daytime, but can drop to 10° C (50° F) at night.

5.3 Local Resources and Infrastructure

Access to local resources and infrastructure is excellent. The Mt Todd Project is located sufficiently close to the city of Katherine to allow for an easy commute for workers. Because the area has both historic and current mining activity, the area contains a skilled mining workforce. In addition, Katherine offers all of the necessary support functions that are found in a medium sized city with regard to supplies, hotels, communications, etc.

The property has an existing high-pressure gas line and an electric line that was used by previous operators. In addition, both wells for potable water and a dam for process water are also located on or adjacent to the site. Finally, a fully functioning tailings dam is also present on site.

The concessions are within 2 to 3 km of the Nitmiluk Aboriginal National Park on the east. This National Park contains a number of culturally and geologically significant attractions. Some of these are:

The Katherine Gorge is one of Katherine's main attractions. Katherine Gorge isn't just one spectacular gorge, but consists of 13 gorges separated by rapids.

The Katherine Hot Springs is located close to the Katherine River bed and consists of various pools.

The Katherine Low Level Nature Reserve is comprised of pathways and contains birds and other kinds of wildlife.

Edith Falls is located 60 km by road north of Katherine. The falls consist of a series of cascading waterfalls and beautiful rock pools.

Cutta Cutta Caves Nature Park covers 1,499 hectares of limestone and caves close to Katherine.

The proximity to the National Park has not historically yielded any impediments to operating. It is not expected to yield any issues to renewed operation of the property in the future.

5.4 Environmental Conditions

The following environmental section has been prepared by MWH Consultants (MWH) of Perth, Australia. MWH has had significant experience with mining projects both internationally and in Australia.

5.4.1 Existing Environmental Conditions

A comprehensive directory of reports exists for Mt Todd and is detailed in the March 2008 report entitled "Mt Todd Gold Project, Gold Resource Update". The process of cataloguing and reviewing these documents is ongoing.

The Draft Environmental Impact Statement for the mine released in 2002 gave the following as the specific environmental issues to be considered for the project: conservation of the Gouldian Finch in the Yinberrie Hills; control of acid drainage; heap leach solution containment; tailings containment; water management; rehabilitation planning; impacts of noise, dust and blasting; impacts on vegetation and fauna; impacts on Aboriginal sites of cultural significance; impacts on historical and Aboriginal archaeological sites; impacts on regional urban and social infrastructure; and general site management issues, such as weeds, mosquito-borne diseases, wildlife and workforce behavior.

The conservation of the Gouldian Finch was an important consideration at the start of mining operations in 1993, when it was thought that the finch was confined to the Yinberrie Hills. However, the range of the finch is now believed to be broader and less emphasis is placed by the NT government on this issue.

The Jawoyn people (an Aboriginal group) have strong involvement in the planning for the future of Mt Todd. Vista Gold has a good relationship with the Jawoyn, and at this time they have raised no concerns about re-opening the mine.

The Batman Pit, waste rock dump, heap leach pad and low-grade ore dump are all on-site sources of acidic water containing dissolved metals. This water is managed through a combination of evaporation, containment, and controlled discharge to streams during major flow events. Batman Pit has been used as a repository for ARD waters since 2005 and is a major part of the NT government's current acid drainage controls at the site. The acidic waters stored in Batman Pit must be removed before mining can begin. The reliance on Batman Pit as a repository for contaminated waters could not be continued under mining conditions.

The challenges posed by the ARD environment of the site are significant but are believed to be manageable. Vista Gold has engaged consultant MWH to conduct a preliminary assessment of the water management issues which will include preparation of a water balance model, investigation of low-cost mitigation measures and development of a conceptual closure plan.

5.4.2 Comments on Existing Known Liabilities

An in-depth discussion of the specific environmental liabilities that currently exist at the Mt Todd site can be found in the March 2008 report entitled "Mt Todd Gold Project, Gold Resource Update".

5.4.3 Permitting and other Regulatory Requirements

Permitting requirements have been discussed with the Department of Primary Industries, Fisheries and Mines (DPIFM) and are divided into exploration and mine development activities.

Exploration

The following applications, forms, and plans are mandatory as part of the exploration approvals process:

- Application for an authorization;
- Nomination for an Operator of a Mining Site;
- Security calculation form; and
- Small Mining/Exploration Operations Mining Management Plan.

The completion of applications and forms are likely to be straightforward. The Mining Management Plan is required to be submitted with the Application for an authorization of Mining Activities. Briefly, the plan will contain:

- Description of mining activities to be carried out;
- Safety, health and environmental issues relevant to the mining activities and the management system to be implemented at the mine site; and
- A plan and costing of closure activities.

The NT government division advised that the key to approval at this phase is the existence of an effective safety and environment management plan. With such a plan in place to demonstrate good handling of safety and environmental issues, approvals can be expected to proceed.

Mining Development

The exact requirement for mining development approval for the site is currently unknown as three possible approvals paths may apply. The potential costs and timing of the three paths are addressed here and in Section 7.0 following.

The first step in all cases is the submission of a Notice of Intent ("NOI") to the NT government. The NOI is intended to cover all the major issues relating to the mine development and provide sufficient information (background and technical) to allow a preliminary assessment by the DPIFM. FIGURE 5-1 on the following page shows various possible process paths, which may follow from the assessment by the DPIFM. The flow chart is taken from the DPIFM Advisory Note "Environmental Assessment of Mining Proposals".

Notice of Intent (NOI)

The Notice of Intent for the mining development is mandatory as part of the mining development application. The components of a NOI broadly include:

- A General Description of the Mine;
- Description of the Existing Environment;
- Description of the Proposed Works;
- Identification of Issues; and
- Environmental Management of Impacts.

This document should be as thorough as possible to minimize the amount of time taken to assess the document by government.

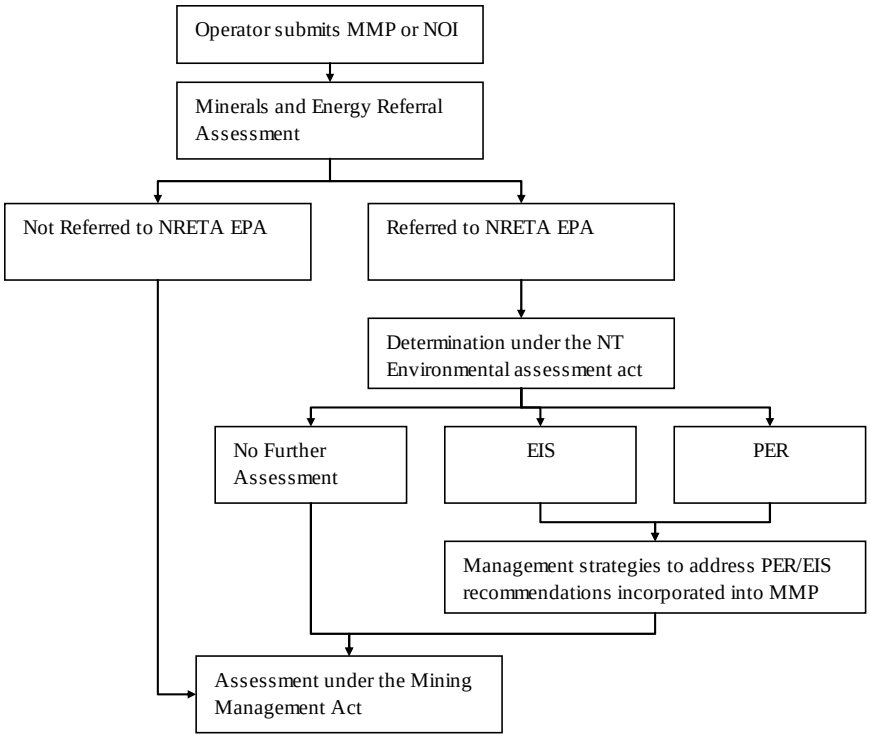


FIGURE 5-1: Permitting Process

Public Environmental Report ("PER") and Environmental Impact Statement ("EIS")

If the DPIFM recommends referral to Department of Natural Resources, Environment and the Arts ("NRETA"), NRETA will advise on the requirement for either a PER or EIS. The guidelines provided by NRETA indicate that:

- A PER is required to assist in assessing environmental impacts that are considered significant but limited in extent; while
- An EIS is required to assist in assessing environmental impacts that are significant either in terms of site-specific issues, off-site issues and conservation values and/or the nature of the proposal.

5.4.4 Estimated Permitting Costs and Spending Schedule for Developing the Project

Exploration

The required exploration program permits are estimated to take approximately 2 weeks to prepare and will cost between $9,000 and $19,000. Time needed for the government approval process is not included in this estimate.

Mine Development

Depending on which permitting path the Mt Todd project follows (FIGURE 5-1) the time and expenditure required to secure a permit will vary. TABLE 5-1 details the various possibilities.

TABLE 5-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Estimated Mine Development Permitting Costs
As of December 29, 2006

Task	Time[1]	Cost ($)[2]
Case 1: Assessment under the Mining Management Act (not referred to NRETA)		
Notice of Intent	1 month	$23,000
Total	1 month	$23,000
Case 2: Referred to NRETA, Public Environmental Review Required		
Notice of Intent	1 month	$23,000
Public Environmental Report	3 – 4 months	$93,000 - $168,000
Total	4 – 5 months	$117,000 - $191,000
Case 3: Referred to NRETA, Environmental Impact Statement Required		
Notice of Intent	1 month	$23,000
Environmental Impact Statement	3 – 6 months	$140,000 - $234,000
Total	4 – 7 months	$163,000 - $257,000

Note: [1]preparation time only, does not include time for government approval process
[2]if preparation is outsourced

Dewatering Requirements and Costs

Future development of Mt Todd will require further hydrogeological investigations to improve the understanding of dewatering requirements. The investigations would form part of the general hydrogeological investigation needed to characterize existing groundwater conditions and establish a groundwater-monitoring program for the site.

It is noted that dewatering has been minimal and very manageable during previous operations at Mt Todd. However, the hydrogeology of the mining area has not been investigated in sufficient detail to comment conclusively on the future dewatering requirements or provide a dewatering cost estimate at this time.

5.4.5 Reclamation and Closure

Vista commissioned MWH to prepare the Conceptual Closure Plan (CCP) to support a preliminary feasibility study of the restart of mining operations. This CCP evaluates the closure liabilities that will transfer to Vista should a decision be made to restart mining operations at Mt Todd and is supported by separate reports prepared by MWH on the environmental status and water management at the site.

The primary closure objectives for site facilities are to provide physical, chemical, and hydrologic stabilization of mine source components to help ensure that waters of the NT are not degraded and human health and the environment are protected. Environmental risk factors are addressed and minimized to the extent practicable, and long-term maintenance is reduced to the maximum extent practicable. Other closure objectives include protecting public safety, providing a stable, final landform that is compatible with the natural surroundings, and promotes growth of native plant species. A final detailed closure plan will need to be developed and submitted for NT review and approval prior to the beginning of the closure period.

The estimated closure costs were based on the proposed design (areas and volumes) of each of the closure facilities. Using MWH's experience on similar projects, including current reclamation programs, unit rates were developed for each element of the closure strategy. These rates were then applied to the area or volume corresponding to each feature. The unit

rates assume that mine labor is used to conduct the reclamation. The conceptual estimated costs for implementing this CCP are **$30,500,000** including ten years of post-closure care and maintenance but before contingency, as summarized in TABLE 5-4.

A second plan includes a more robust cover on the Tailings Storage Facility (TSF) increases the capital closure cost by approximately $4,100,000. The total cost difference including the engineering and construction management components is approximately $4,800,000. The total cost of this plan would be $35,300,000. Post-closure care and maintenance between the two options is not considered to be significantly different.

TABLE 5-2 details the estimated closure costs for the Mt Todd Project.

TABLE 5-2
VISTA GOLD CORP. – MT TODD GOLD PROJECT
MWH Conceptual Closure Cost Estimate Summary
As of December 29, 2006

Area	Cost ($)
Batman Pit	$200,000
Waste Rock Dump	$9,200,000
Tailings Storage Facility - Existing	$4,200,000
Tailings Storage Facility - New	$3,500,000
Sulfide Tailings Facility Lined – New	$1,300,000
Plant Area	$500,000
Disturbed Ground	$600,000
Water Management	$300,000
Subtotal	**$19,800,000**
Engineering & Construction Management	$3,200,000
Total Capital Cost for Closure	**$23,000,000**
Operations & Maintenance	$7,500,000
Total Cost	**$30,500,000**
Annual O&M costs until full closure accepted	$300,000

Notes: (1) Cost rounded to nearest $100,000 in current US$.

(2) Lower cost option 1 components included.

(3) Assumes that closure of the HLP estimated to cost $6,900,000 will be completed by the NT prior to project development.

Further information regarding details of the CCP can be found in the March 2008 report entitled “Mt Todd Gold Project, Gold Resource Update”.

6.0 HISTORY

The Mt Todd Project area has significant gold deposits located on it and is located 250 km southeast of Darwin in the NT of Australia. It is situated in a well-mineralized historical mining district that supported small gold and tin operations in the past.

The Shell Company of Australia (Billiton), who was the managing partner in an exploration program in joint venture with Zapopan NL, discovered the Mt Todd mineralization, or more specifically the Batman Deposit, in May 1988. Zapopan acquired Shell's interest in 1992 by way of placement of shares to Pegasus Gold. Pegasus progressively increased their shareholding until they acquired full ownership of Zapopan in July 1995.

Feasibility studies for Phase I, a heap leach operation which focused predominately on the oxide portion of the deposit, commenced during 1992 culminating in an EPCM award to Minproc in November of that year. The Phase I project was predicated upon a 4 million tonne per annum heap leach plant designed to recover 90,000 ounces per annum over a life of 4 years. This came on stream in late 1993. The treatment rate was subsequently expanded to a rate of 6 million tonnes per annum in late 1994.

A comparison of actual and predicted production figures is printed in TABLE 6-1.

TABLE 6-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Heap Leach – Feasibility Estimates vs. Actual Production
May 2008

Category	Feasibility Study	Actual Production
Tonnes Leached - million	13.0	13.2
Head Grade – g Au/t	1.2	0.96
Recovery - %	65	53.8
Gold Recovered - oz	320,000	220,755
Cost/tonne – A$	7.13	8.33
Cost/oz – A$	281	500

Note: All tonnages and grades shown in TABLE 6-1 are historical numbers and are not NI43-101 compliant.

Phase II involved expanding to 8 million tonnes per annum and treatment through a flotation and CIL circuit. The feasibility study was conducted by a joint venture between Bateman Kinhill and Kilborne (BKK) and was completed in June 1995. The feasibility study indicated that treatment of transitional and primary ore from the Batman pit would provide an 8-year mine life to recover 2 million ounces at a cost of $A369 ($US266) per ounce. Capital cost for Phase II was estimated at $A207.8 million.

The Pegasus Board approved the project on 17 August 1995 and awarded an EPCM contract to BKK in October 1995. Commissioning commenced in November 1996. Final capital cost to complete the project was $A232 million (US$181 million).

Design capacity was never achieved due to inadequacies in the crushing circuit. An annualized throughput rate of just under 7 million tonnes per annum was achieved by mid 1997. However, problems with high soluble copper necessitated the closure of the flotation circuit which resulted in reduced recoveries. Operating costs were above those predicted in the feasibility study.

The spot price of gold deteriorated from above $US400 in early 1996 to below $US300 per ounce during 1997. According to the 1997 Pegasus Gold Inc. Annual Report, the economics of the project were seriously affected by the slump. Underperformance of the project and higher

operating costs led to the mine being closed and placed on care and maintenance on 14 November 1997.

In February 1999, General Gold agreed to form a joint venture with Multiplex Resources and Pegasus Gold Australia to own, operate, and explore the mine. Initial equity participation in the joint venture was General Gold 2%, Multiplex Resources 93%, and Pegasus Gold Australia 5%. The joint venture appointed General Gold as mine operator, which contributed the operating plan in exchange for a 50% share of the net cash flow generated by the project, after allowing for acquisition costs and environmental sinking fund contributions. General Gold operated the mine from March 1999 to July 2000.

6.1 History of Previous Exploration

The Batman gold prospect, located about 3.5 km west of Mt Todd, is part of a goldfield that was worked from early in the 20th century. Gold and tin were discovered in the Mt Todd area in 1889. Most deposits were worked in the period from 1902 to 1914. A total of 7.80 tonnes of tin concentrate was obtained from cassiterite-bearing quartz-kaolin lodes at the Morris and Shamrock mines. The Jones Brothers reef was the most extensively mined gold-bearing quartz vein, with a recorded production of 28.45 kg. This reef consists of a steeply dipping ferruginous quartz lode within tightly folded greywackes.

The Yinberrie Wolfram field, discovered in 1913, is located 5 km west of Mt Todd. Tungsten, molybdenum and bismuth mineralization was discovered in greisenised aplite dykes and quartz veins in a small stock of the Cullen Batholith. Recorded production from numerous shallow shafts is 163 tonnes of tungsten, 130 kg of molybdenite and a small quantity of bismuth.

Exploration for uranium began in the 1950s. Small uranium prospects were discovered in sheared or greisenised portions of the Cullen Batholith in the vicinity of the Edith River. The area has been explored previously by Esso for uranium without any economic success.

Australian Ores and Minerals Limited (“AOM”) in joint venture with Wandaroo Mining Corporation and Esso Standard Oil took out a number of mining leases in the Mt Todd area during 1975. Initial exploration consisted of stream sediment sampling, rock chip sampling, and geological reconnaissance for a variety of commodities. A number of geochemical anomalies were found primarily in the vicinity of old workings.

Follow-up work concentrated on alluvial tin and, later, auriferous reefs. Backhoe trenching, costeaning, and ground follow-up were the favored mode of exploration. Two diamond drill holes were drilled at Quigleys Reef. Despite determining that the gold potential of the reefs in the area was promising, AOM ceased work around Mt Todd. The Arafura Mining Corporation, CRA Exploration, and Marriaz Pty Ltd all explored the Mt Todd area at different times between 1975 and 1983. In late 1981, CRA Exploration conducted grid surveys, geological mapping and a 14-diamond drillhole program, with an aggregate meterage of 676.5 m, to test the gold content of Quigleys Reef over a strike length of 800 m. Following this program CRAE did not proceed with further exploration.

During late 1986, Pacific Gold Mines NL undertook exploration in the area which resulted in small-scale open cut mining on the Quigleys and Golf reefs, and limited test mining at the Alpha, Bravo, Charlie and Delta pits. Ore was carted to a CIP plant owned by Pacific at Moline. This continued until December 1987. Pacific Gold Mines ceased operations in the area in February 1988 having produced approximately 86,000 tonnes grading 4 g Au/t gold **(Historic reported quantity, not NI43-101 compliant.)**. Subsequent negotiations between the Mt Todd JV partners (Billiton and Zapopan) and Pacific Gold Mines resulted in the acquisition of this ground and incorporation into the Joint Venture.

TABLE 6-2 presents the most important historical events in a chronologic order.

TABLE 6-2
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Property History
May 2008

1986 October 1986 – January 1987:	Conceptual Studies, Australia Gold PTY LTD (Billiton); Regional Screening; (Higgins), Ground Acquisition by Zapopan N.L.
1987 February: June-July: October:	Joint Venture finalized between Zapopan and Billiton. Geological Reconnaissance, Regional BCL, stream sediment sampling. Follow-up BCL stream sediment sampling, rock chip sampling and geological mapping (Geonorth)
1988 Feb-March: March-April: May: May-June: July: July-Dec:	Data reassessment (Truelove) Gridding, BCL grid soil sampling, grid based rock chip sampling and geological mapping (Truelove) Percussion drilling Batman (Truelove) - (BP1-17, 1475m percussion) Follow-up BCL soil and rock chip sampling (Ruxton, Mackay) Percussion drilling Robin (Truelove, Mackay) - RP1-14, (1584m percussion) Batman diamond, percussion and RC drilling (Kenny, Wegmann, Fuccenecco) - BP18-70, (6263m percussion); BD1-71, (8562m Diamond); BP71-100, (3065m R.C.)
1989 Feb-June: June: July-Dec:	Batman diamond and RC drilling:BD72-85 (5060m diamond); BP101-208, (8072m RC). Penguin, Regatta, Golf, Tollis Reef Exploration Drilling: PP1-8, PD1, RGP132, GP1-8, BP108, TP1-7 (202m diamond, 3090m RC); TR1-159 (501m RAB). Mining lease application (MLA's 1070, 1071) lodged. Resource Estimates; mining-related studies; Batman EM-drilling: BD12, BD8690 (1375m diamond); RC pre-collars and H/W drilling, BP209-220 (1320m RC); Exploration EM and exploration drilling: Tollis, Quigleys, TP9, TD1, QP1-3, QD1-4 (1141 diamond, 278m RC); Negative Exploration Tailings Dam: E1-16 (318m RC); DR1-144 (701. RAB) (Kenny, Wegmann, Fuccenecco, Gibbs).
1990 Jan-March:	Pre-feasibility related studies; Batman Inclined Infill RC drilling: BP222-239 (2370m RC); Tollis RC drilling, TP10-25 (1080m RC). (Kenny, Wegmann, Fuccenecco, Gibbs)
1993 - 1997 Pegasus Gold Australia Pty Ltd.	Pegasus Gold Australia Pty Ltd reported investing more than US$200 million in the development of the Mt Todd mine and operated it from 1993 to 1997, when the project closed as a result of technical difficulties and low gold prices. The deed administrators were appointed in 1997 and sold the mine in March 1999 to a joint venture comprised of Multiplex Resources Pty Ltd and General Gold Resources Ltd.
1999 - 2000 March - June	Operated by a joint venture comprised of Multiplex Resources Pty Ltd and General Gold Resources Ltd. Operations ceased in July 2000, Pegasus, through the Deed Administrators, regained possession of various parts of the mine assets in order to recoup the balance of purchase price owed it. Most

	of the equipment was sold in June 2001 and removed from the mine. The tailings facility and raw water facilities still remain at the site.
2000 – 2006	Ferrier Hodgson (the Deed Administrators), Pegasus Gold Australia Pty Ltd, the government of the NT, and the Jawoyn Association Aboriginal Corporation (JAAC) held the property.
2006 March to Present	Vista Gold Corp. acquires concession rights from the Deed Administrators.

6.2 Historic Drilling

The following discussion centers on the historic drill hole databases that were provided to Tt for use in this report. Based on the reports by companies, individuals and other consultants, it is Tt's opinion that the drill-hole databases used as the bases of this report contain all of the available data. Tt is unaware of any drillhole data that have been excluded from this report.

Batman Deposit

There are 730 historic drill holes in the Batman Deposit assay database. FIGURE 6-1 shows the drillhole locations for the Batman Deposit. These holes include 225-diamond drill core ("DDH"), 435 reverse circulation holes ("RVC"), and 70 open rotary holes ("OP"). Nearly all of the DDH and RVC holes were inclined 60° to the west. Samples were collected in one-meter intervals. DDH holes included both HQ and NQ core diameters. Core recoveries were reported to be very high with a mean of 98%. The Central area of the deposit was extensively core-drilled. Outside of the Central area, most of the drill holes were RVC and OP holes. All drill holes collars were surveyed by the mine surveyor. Down-hole surveys were conducted on most drill holes using an Eastman single shot instrument. All holes were logged on site.

A series of vertical RVC infill holes were drilled on a 25-meter-by-12.5-meter grid in the core of the deposit to depths between 50 and 85 meters below the surface. Zapopan elected to exclude these holes from modeling the Batman Deposit because the assays from these holes seemed to be downwardly biased and more erratic compared to assays from inclined RVC holes. Of the possible reasons cited as to why vertical RVC holes might report lower grades and have a more erratic character, the 1992 Mining & Resource Technology Pty Ltd ("MRT") report states that "*the orientation of vertical holes sub-parallel to mineralization caused preferential sampling of barren host rocks...*". This statement was, at least in part, borne out by the later sampling work done on the blastholes as it was credited with part of the reproducibility problems that were encountered when the Batman Deposit was being mined.

Drill Hole Density and Orientation

Pegasus was aware of the problem of drillhole density within the Batman Deposit. According to Pegasus management, the decision to not drill out the lower portion of the Batman Deposit was based on economic considerations. Section 7.0 of the 1995 BKK feasibility study detailed the decrease in drillhole density with depth. At the time of that study, there were 593 holes in the assay database of which 531 were used in the construction of the MRT block model. Reserve Services Group ("RSG") reported that the drilling density in the Central area oxide and transition zone ore was generally 25 meters by 25 meters. The spacing was wider on the periphery of the ore envelope. The drilling density in the Central area of the primary ore ranged from 50 meters by 50 meters, but decreased to 50 meters by 100 meters and greater at depth.

At the time of The Winters Company's ("TWC") site visit in 1997, the drillhole database numbered 730 holes. It is not known if any holes were excluded from the Pegasus exploration models. Most of the new drilling that had been added since the 1994 MRT model was relatively shallow. TWC reviewed PGA's 50-meter drill sections through the Batman Deposit and saw that there was a marked decrease in drill hole spacing below 1000 RL (the model has had constant 1000 meters added to it in order to prevent elevations below 0 (sea level) and have been denoted as RL for relative elevation) and another sharp break below 900 RL. The drill hole spacing in the south of 1000 N on the 954 RL bench plan approached 80 meters by 80 meters. Pegasus was able to get around this problem by using very long search ranges in its grade estimation. In the main ore zone, Pegasus used maximum search distances in the north and east directions of nearly 300 meters.

Another potential problem related to drilling is the preferred orientation of the drill holes. Most of the holes in the assay database are inclined to the west to capture the vein set which strikes N10° to 20°E, dips east, and which dominates the mineralized envelope. This orientation is the obvious choice to most geologists since these veins are by far the most abundant. Ormsby (1997) discussed that while the majority of mineralization occurs in these veins, the distribution of gold mineralization higher than 0.4 g Au/t is controlled by structures in other orientations, such as east-west joints and bedding. For this reason, Ormsby stated, *"The result is that few ore boundaries (in the geological model) actually occur in the most common vein orientation.*" If this is truly the case, the strongly preferential drilling orientation has not crosscut the best mineralization and in cases may be sub-parallel to it.

Vertically oriented RVC holes were not included in the drillhole database for the 1994 MRT model because their assay results appeared to be too low compared to other hole orientations. If vertical hole orientations were actually underestimating the gold content during exploration drilling, the vertical and often wet blastholes, which are used for ore control, pose a similar problem and will need to be addressed prior to commencing any new mining on the site.

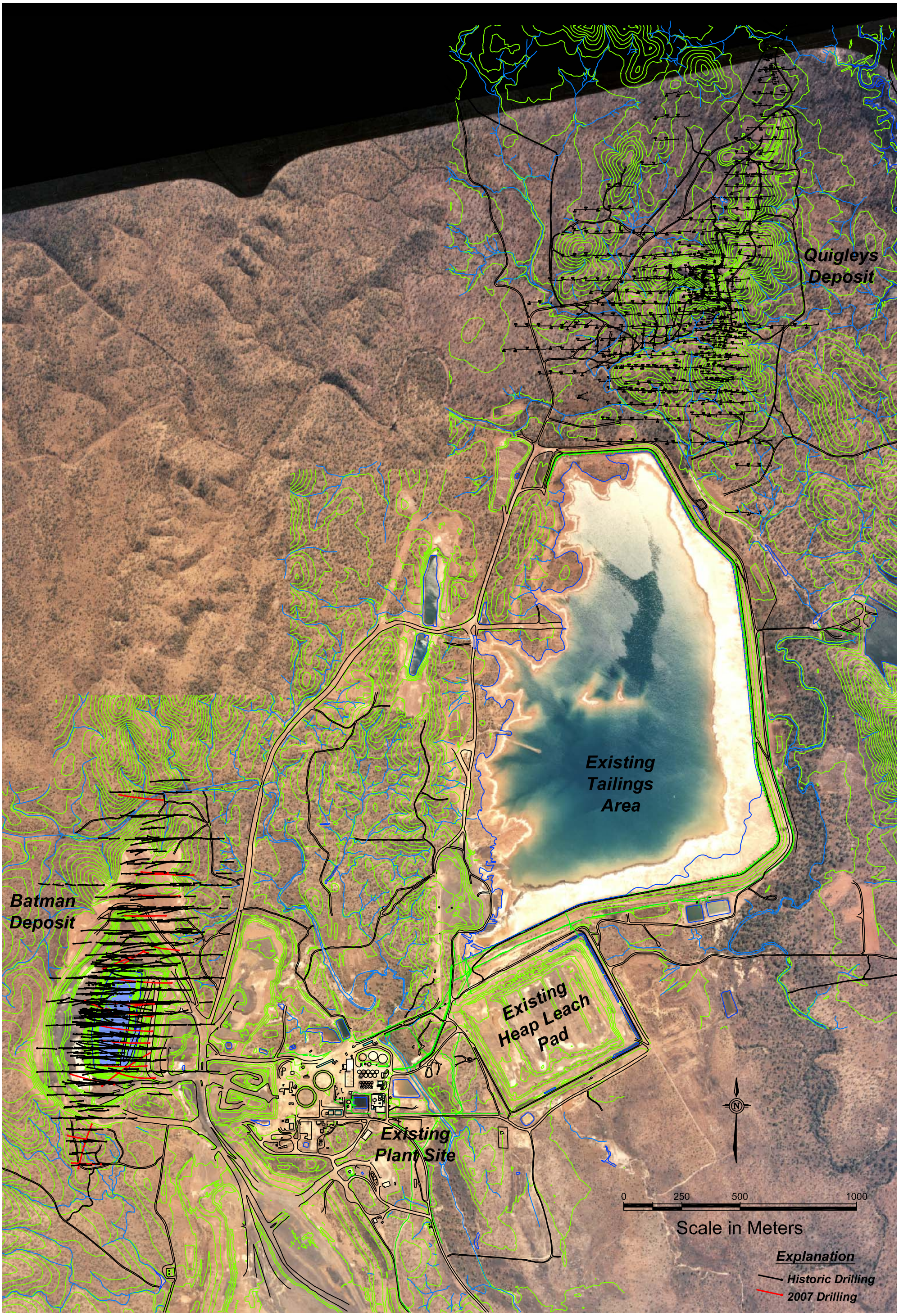
Quigleys

TABLE 6-3 details the Quigleys exploration database as of the time of this report. FIGURE 6-1 also shows the drill hole locations for the Quigleys Deposit.

TABLE 6-3
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Summary of Quigleys Exploration Database
May 2008

Drill Holes	Gold Assays (approx 1m)	Copper Assays (approx 1m)	Lithologic Codes
632	49,178	41,673	51,205

Snowden completed a statistical study of the Quigleys drill hole database in order to bias test it. A comparison of historic and recent data by Snowden suggested that a bias might exist. Further study concluded that a bias is not apparent where all drilling is oriented in a similar direction (and not clustered). This suggests the inclusion of assay data from all phases of drilling is reasonable. The March 2008 report entitled "Mt Todd Gold Project, Gold Resource Update" contains additional information regarding the Snowden findings.



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig6-1.dwg	**Figure 6-1**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Drillhole Location Map**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**Batman & Quigleys Deposits**

6.3 Historic Sampling Method and Approach

NQ core intervals were sawed lengthwise into half core. HQ core was quartered. RVC samples were riffle split on site and a 3- to 4-kg sample was sent to an assay lab. The 1992 MRT resource report commented that many of the RVC holes were drilled wet and that Billiton and Zapopan were aware of possible contamination problems. Oddly, in some comparison tests, DDH holes had averaged assays 5% to 6% higher than RVC holes; for that reason, MRT elected to exclude RVC holes from the drill hole database for grade estimation of the Central area of the Batman Deposit.

Since the property is currently not operating, Tt did not witness any drilling and sampling personally. We have taken the following discussion from reports by the various operators and more importantly, from reports by independent consultants that were retained throughout the history of the property to audit and verify the sampling and assaying procedures. It is Tt's opinion that the reports by the various companies and consultants have fairly represented the sampling and assaying history at the site and that the procedures implemented by the operators, most notably GGC, have resulted in an assay database that fairly represents the tenor of the mineralization at Batman.

6.4 Historic Sample Preparation, Analysis, and Security

The large number of campaigns and labs used in the Mt Todd drilling effort has resulted in a relatively complex sampling and assaying history. The database developed prior to August of 1992 was subjected to a review by Billiton, and has been subjected to extensive check assays throughout the project life. Furthermore, a number of consultants have reviewed the integrity of the database and have been content with the data for modeling purposes.

Drill hole samples were taken on one-meter intervals, though there are instances of two-meter intervals in the typically barren outlying holes. The procedure involved sawing the NQ core lengthwise in half. HQ core was quartered. RVC samples were riffle split on site and a 3- to 4-kg sample was sent to the laboratory for analyses. PAH stated that they actually witnessed the sample preparation process at a number of steps and concured with the methods in use; however, PAH also noted that they would prefer that the sample cuts following the ring grinding process be conducted with a splitter rather than a scoop. While free gold is not a problem in this deposit, the potential does exist for segregation based upon particle hardness, which could bias assay results.

Pegasus (and Zapopan NL, before) conducted a check assay program which is consistent with prudent practice. Every 20th assay sample was subjected to assay by an independent lab. Standards were run periodically as well, using a non-coded sample number to prevent inadvertent bias in the labs.

Billiton conducted an audit/analysis of the data set available in 1992, which resulted in a number of recommendations. Generally, factoring of any kind, particularly upward, can be a source of problems and is not recommended practice. The 4% adjustment applied to a portion of the pre-1989 data set is unlikely to introduce a significant problem. Similarly, averages of multiple samples were placed into the assay field designated AU_PREF, which is also a potential source of error, as it creates a set of samples whose variance will be somewhat lower than the single-assay population. Again, the number of samples subjected to averaging is less than one in ten, so the net effects are negligible.

While the concerns mentioned thus far are relatively minor, It was PAH's feeling that a more detailed examination of the assay set would be in order. The first concern focused on the integrity of the AU_PREF assays, which were calculated from a number of methods depending upon date drilled and the existence of check assays. PAH ran regressions and correlations on AU_PREF against the primary and repeat assays of the Batman Deposit and noted that their data set contained 39% more samples than the feasibility dataset, most of which have been prepared under the more stringent and repeatable guidelines as specified by Pegasus and others.

The results indicated that at higher grades, the AU_PREF assay differed by less than 1% (on average) from the primary and repeat assays. Agreement with the primary assay was within 1% over the entire range, which, indicates that AU_PREF, even with the averaged data, does not materially differ from the source assays. The average difference between the regressed grade and AU_PREF becomes larger at lower grades, particularly at less than 0.5 g au/t. This effect is probably due to detectability differences between the different labs and the mathematical effect of even small differences on low-grade samples.

Sample Analysis

According to reports by Pegasus, various consultants, and others, the early exploration assays were largely done at various commercial labs in Pine Creek and Darwin. Later assays were done at the Mt Todd mine site lab. At least three different sample preparation procedures were used at one time or another. All fire assays were conducted on 50-gram charges. Based on these reports, it appears that the assay labs did use their own internal assay blanks, standards, and blind duplicates.

Assay laboratories used for gold analysis of the Batman drill data were Classic Comlabs in Darwin, Australia Assay Laboratories in Pine Creek and Alice Springs and Pegasus site Laboratory.

The exploration data consist of 91,225 samples with an average and median length of 1 meter. The minimum sample length is 0.1 meters and the maximum sample length is 5 meters. 137 samples are less than 1 meter and 65 samples are over one meter in length.

All exploration drill data were used for the resource estimate. Four-meter down hole composite samples were calculated down hole for the resource estimate. The assay composited data were tabulated in the database field called "Comp". The weighted average grades, the length, and the hole were recorded.

Check Assays

Extensive check assaying was carried out on the exploration data. Approximately 5% of all RVC rejects were sent as duplicates and duplicate pulps were analyzed for 2.5% of all DDH intervals. Duplicate halves of 130 core intervals were analyzed as well. Overall, Mt Todd's check assay work is systematic and acceptable. The feasibility study showed that the precision of field duplicates of RVC samples is poor and that high errors exist in the database. The 1995 feasibility study stressed that because of the problems with the RVC assays, the RVC and OP assays should be kept in a separate database from the DDH assays. However, since that time, the majority of the identified assaying issues have been corrected by GGC based on recommendations of consultants. It is Tt's opinion that the assay database used in the creation of the current independent resource estimation exercise is acceptable and meets industry standards for accuracy and reliability.

Security

Tt is unaware of any “special” or additional security measures that were in place and/or followed by the various exploration companies, other than the normal practices of retaining photographs, core splits, and/or pulps of the samples sent to a commercial assay laboratory.

6.5 Historic Process Description

The process flowsheet as designed utilized four-stage crushing, ball mill grinding, flotation, and carbon-in-leach (CIL) circuit gold recovery. A more detailed description of the process components and flowsheet can be found in the March 2008 report entitled “Mt Todd Gold Project, Gold Resource Update”.

7.0 GEOLOGICAL SETTING

7.1 Geological and Structural Setting

The Mt Todd Project is situated within the southeastern portion of the Early Proterozoic Pine Creek Geosyncline (FIGURE 7-1). Meta-sediments, granitoids, basic intrusives, acid and intermediate volcanic rocks occur within this geological province.

Within the Mt Todd region, the oldest outcropping rocks are assigned to the Burrell Creek Formation. These rocks consist primarily of interbedded greywackes, siltstones, and shales of turbidite affinity, which are interspersed with minor volcanics. The sedimentary sequence incorporates slump structures, flute casts and graded beds, as well as occasional crossbeds. The Burrell Creek Formation is overlain by interbedded greywackes, mudstones, tuffs, minor conglomerates, mafic to intermediate volcanics and banded ironstone of the Tollis Formation. The Burrell Creek Formation and Tollis Formation comprise the Finniss River Group.

The Finniss River Group strata have been folded about northerly trending F1 fold axes. The folds are closed to open style and have moderately westerly dipping axial planes with some sections being overturned. A later north-south compression event resulted in east-west trending open style upright D2 folds.

The Finniss River Group has been regionally metamorphosed to lower green schist facies.

Late and Post Orogenic granitoid intrusion of the Cullen Batholith occurred from 1789 Ma to 1730 Ma, and brought about local contact metamorphism to hornblende hornfels facies.

Unconformably overlying the Burrell Creek Formation are sandstones, shales and tuffaceous sediments of the Phillips Creek sandstone, with acid and minor basic volcanics of the Plum Tree Creek Volcanics. Both these units form part of the Edith River Group, and occur to the south of the Project Area.

Relatively flat lying and undeformed sediments of the Lower Proterozoic Katherine River Group unconformably overlie the older rock units. The basal Kombolgie Formation forms a major escarpment, which dominates the topography to the east of the Project Area.

7.2 Local Geology

The geology of the Batman Deposit consists of a sequence of hornfelsed interbedded greywackes, and shales with minor thin beds of felsic tuff. Bedding is striking consistently at 325^{o}, dipping at 40 to 60^{o} to the southwest. Minor lamprophyre dykes trending north-south pinch and swell, cross cutting the bedding.

Nineteen lithological units have been identified within the deposit and are listed in TABLE 7-1 below from south to north (oldest to youngest).

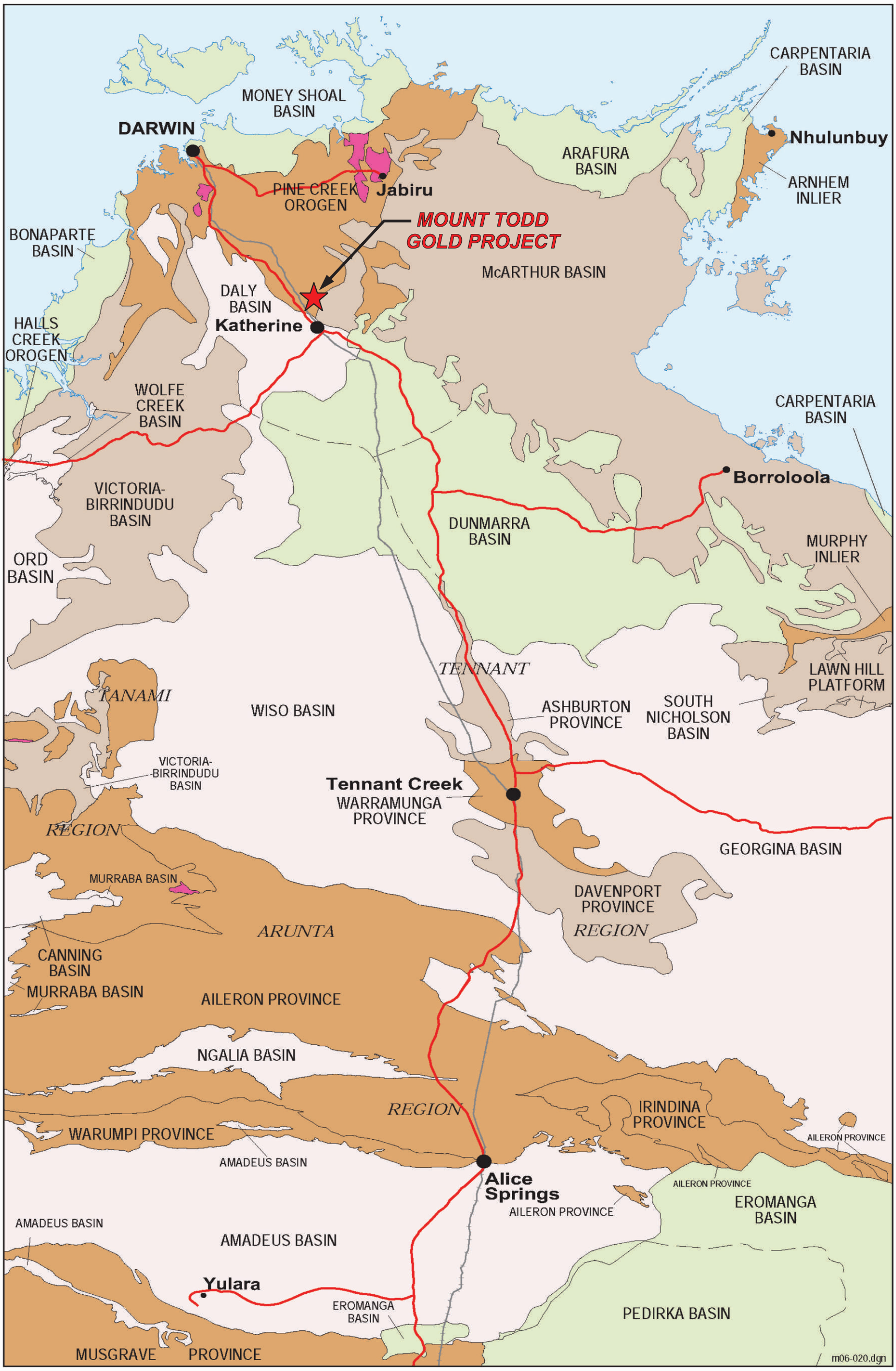
TABLE 7-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Geologic Codes and Lithologic Units
May 2008

Unit code	Lithology	Description
1	GW25	greywacke
2	SH24	shale
3	GW24A	greywacke
4	SHGW24A	shale/greywacke
5	GW24	greywacke
6	SHGW23	shale/greywacke
7	GWSH23	greywacke/shale
8	GW23	greywacke
9	SH22	shale
10	T21	felsic tuff
11	SH21	shale
12	T20	felsic tuff
13	SH20	shale
14	GWSH20	greywacke/shale
15	SH19	shale
16	T18	felsic tuff
17	SH18	shale
18	GW18	greywacke
int	INT	lamprophyre dyke

Bedding parallel shears are present in some of the shale horizons (especially in units SHGW23, GWSH23 and SH22). These bedding shears are identified by quartz/ calcite sulphidic breccias. Pyrite, pyrrhotite, chalcopyrite, galena and sphalerite are the main primary sulfides associated with the bedding parallel shears.

East west trending faults and joint sets crosscut bedding. Only minor movement has been observed on these faults. Calcite veining is sometimes associated with these faults. These structures appear to be post mineralization.

Northerly trending quartz sulfide veins and joints striking at 0^{o} to 20^{o}, dipping to the east at 60^{o} are the major location for mineralization in the Batman Deposit. The veins are 1 to 100 mm in thickness with an average thickness of around 8 to 10 mm. The veins consist of dominantly quartz with sulfides on the margins. The veining occurs in sheets with up to 20 veins per horizontal meter. These sheet veins are the main source of mineralization in the Batman Deposit.



Produced by Cartographic Section, Northern Territory Geological Survey, March 2006.

Younger basins | Central Australian Platform Cover | North Australian Platform Cover | Orogenic Domains | Archaean Basement Inliers

0 100 200 300 400 500 km

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	Project: Mt. Todd Gold Project	Project Number: 114-310829
	Project Location: Northern Territory, Australia	Date of Issue: 03/05/2008

Figure 7-1
General Geologic Map

8.0 DEPOSIT TYPE

According to Hein (2003), the Batman and Quigleys gold deposits of the Mt Todd Mine are formed by hydrothermal activity, concomitant with retrograde contact metamorphism and associated deformation, during cooling and crystallization of the Tennysons Leucogranite and early in D2 (Hein, submitted for publication). It is speculated that pluton cooling resulted in the development of effective tensile stresses that dilated and/or reactivated structures generated during pluton emplacement and/ or during D1 (Furlong et al., 1991), or which fractured the country rock carapace as is typical during cooling of shallowly emplaced plutons (Knapp and Norton, 1981). In particular, this model invokes sinistral reactivation of a northeasterly trending chanalization basement strike–slip fault, causing brittle failure in the upper crust and/or dilation of existing north–northeasterly trending faults, fractures, and joints in competent rock units such as meta-greywackes and siltstones. The generation of dilatant structures above the basement structure (i.e., along a northeasterly trending corridor overlying the basement fault), coupled with a sudden reduction in pressure, and concomitant to brecciation by hydraulic implosion (Sibson, 1987; Je´brak, 1997) may have facilitated chanalization of predominantly metamorphic fluid in the intermediate contact metamorphic aureole (possibly suprahydrostatic-pressured) and into the upper crust (Furlong et al., 1991; Cox et al., 2001). Rising fluids decompressed concurrent with mineral precipitation. Throttling of the conduit or fluid pathways probably resulted in over pressuring of the fluid (Sibson, 2001), this giving way to further fracturing, etc. Mineral precipitation accompanied a decrease in temperature although, ultimately, the hydrothermal system cooled as isotherms collapsed about the cooling pluton (Knapp and Norton, 1981).

Gold mineralization is constrained to a single mineralizing event that included:

- Retrogressive contact metamorphism during cooling and crystallization of the Tennysons Leucogranite;
- Fracturing of the country rock carapace;
- Sinistral reactivation of a NE-trending basement strike-slip fault;
- Brittle failure and fluid-assisted brecciation; and
- Channelization of predominantly metamorphic fluid in the intermediate contact metamorphic aureole into dilatant structures.

The deposits are similar to other gold deposits of the PCG and are classified as orogenic gold deposits in the subdivision of thermal aureole gold style. The Batman Deposit shares some characteristics with intrusion-related gold systems, especially in terms of the association of gold with bismuth and reduced ore mineralogies. This makes the deposit unique in the PCG.

9.0 MINERALIZATION

A variety of mineralization styles occur within the Mt Todd area. Of greatest known economic significance are auriferous quartz-sulfide vein systems. These vein systems include the Batman, Jones, Golf, Quigleys and Horseshoe prospects, which occur within a north-northeast trending corridor, and are hosted by the Burrell Creek Formation. Tin occurs in a north-northwest trending corridor. The tin mineralization comprises cassiterite, quartz, tourmaline, kaolin, and hematite bearing assemblages, which occur as bedding parallel breccia zones and pipes. Polymetallic Au, W, Mo, and Cu mineralization occurs in quartz-greisen veins within the Yinberrie Leucogranite; a late stage highly fractionated phase of the Cullen Batholith.

9.1 Batman Deposit

Local Mineralization Controls

The mineralization within the Batman Deposit is directly related to the intensity of the north-south trending quartz sulfide veining. The lithological units impact on the orientation and intensity of mineralization.

Sulfide minerals associated with the gold mineralization are pyrite, pyrrhotite and lesser amounts of chalcophyrite, bismuthinite and arsenopyrite. Galena and sphalerite are also present, but appear to be post-gold mineralization, and are related to calcite veining in the bedding plains and the east-west trending faults and joints.

Two main styles of mineralization have been identified in the Batman Deposit. These are the north-south trending vein mineralization and bedding parallel mineralization.

North-South Trending Corridor

The north-south trending mineralization occurs in all rock units and is most dominant in the shales and greywackes designated SHGW23. Inspection of grade control and exploration data, drill logs, diamond core and the pit has shown that the north-south trending mineralization can be divided into 3 major zones based on veining and jointing intensity.

Core Zone

Mineralization is consistent and most, to all, joints have been filled with quartz and sulfides. Vein frequency per meter is high in this zone. This zone occurs in all rock types.

Hanging Wall Zone

Mineralization is patchier than the Core Zone due to quartz veining not being as abundant as the Core Zone. The lithology controls the amount of mineralization within the hanging wall zone. The hanging wall zone doesn't occur north of T21. South of reference line T21 to the greywacke shale unit designated GWSH23, the mineralization has a bedding trend. A large quartz/ pyrrhotite vein defines the boundary of the hanging wall and core zones in places.

Footwall Zone

Like the Hanging Wall Zone, the mineralization is patchier than the Core Zone and jointing is more prevalent than quartz veining. Footwall Zone mineralization style is controlled by the lithology and occurs in all lithological units.

Narrow bands of north-south trending mineralization also occur outside the three zones, but these bands are patchy.

Bedding Parallel Mineralization

Bedding parallel mineralization occurs in rock types SH22 to SH20 to the east of the Core Zone. Veining is both bedding parallel and north south trending. The mineralization appears to have migrated from the south along narrow north-south trending zones and “balloon out” parallel to bedding around the felsic tuffs.

9.2 Quigleys Deposit

The Quigleys Deposit mineralization was interpreted by Pegasus and confirmed by Snowden to have a distinctive high-grade shallow dipping 30°-35° NW shear zone extending for nearly 1 km in strike and 230m vertical depth within a zone of more erratic lower grade mineralisation. The area has been investigated by RC and diamond drilling by Pegasus and previous explorers on 50m lines with some infill to 25m.

Drillhole intersections generally revealed an abrupt change from less than 0.4 g Au/t to high grade (>1 g Au /t) mineralization at the hanging wall position of the logged shear, but also revealed a gradational change to lower grade mineralisation with depth. Some adjacent holes were also noted with significant variation in the interpreted position of the shear zone, and some of the discrepancies appeared to have been resolved on the basis of selection of the highest gold grade. While the above method may result in a valid starting point for geological interpretation, the selection of such a narrow high grade zone is overly restrictive for interpretation of mineralization continuity and will require additional work prior to estimating any resources.

It was further thought that while the shear might be readily identified in diamond drill holes, interpretation in RC drilling, and in particular later interpretation from previously omitted RC holes, must invoke a degree of uncertainty in the interpretation.

The conclusion was that, while the shear zone was identifiable on a broad scale, the local variation was difficult to map with confidence and therefore difficult to estimate with any degree of certainty at this time.

10.0 EXPLORATION

Vista conducted a surface exploration program, including prospecting, soil sampling and Global Positioning System (GPS) surveying of drill hole collars and grid pickets on EL 25576 on the Mt Todd Project from September to November, 2007. Equipment and personnel were mobilized from the Mt Todd Mine site. The work was conducted by geologists, field technicians and soil samplers.

During late 2007, two prospects were soil sampled on EL 25576: Emerald Creek and Red Kangaroo Dreaming ("RKD"), 5 km and 20 km northeast of the Batman Pit, respectively. Both prospects can be accessed from the Mt Todd mine site easily via existing roads. A total of 732 soil samples were collected from both areas.

At Emerald Creek, 137 samples were collected and submitted for analysis. The area sampled covers 200 meters by 1000 meters and contains several historical soil and rock chip gold anomalies that have seen limited drilling.

A total of 595 samples were collected from the RKD prospect. The soil grid at RKD was designed to infill the wide spacing of existing soil sampling lines and to test for mineralization west of RKD. The soil sampling also extended across the known mineralized strike length of the RKD prospect, as defined by previous drilling, and along strike to the north and south of the mineralized zone. Due to inclement weather in November, 2007 (onset of the wet season), an additional 202 samples could not be collected south along strike of RKD.

A sample spacing of 25 meters along 100 meter spaced lines was generally determined adequate to determine significant precious metal responses for the soil survey at Emerald Creek and RKD. All observations and sampling are recorded at "stations" which have UTM coordinates (AGD 84, zone 53 south) that are located in the field with a GPS unit. Observations recorded at each station include the color of the soil, soil type, soil sample hole depth and topography.

An ICP multi-element suite was utilized to analyze the soils from both Emerald Creek and RKD by ALS Chemex Labs in Brisbane, Queensland. The ICP analysis consist of a multi-element suite that reports analyses for base and precious metals, pathfinder elements for these commodities, as well as elements useful for mapping bedrock geology obscured by overburden.

Results from the soil survey at the RKD prospect show gold, copper, arsenic, and bismuth soil anomalies corresponding with the drilled portion of the RKD mineralized zone. These soil anomalies continue south of the RKD mineralized zone an additional 150 meters south, in an area of limited drilling. Further field work is recommended to further trace the RKD mineralized zone along strike, including mapping, rock sampling and further soil sampling.

Approximately 1100 meters due west of the RKD prospect, a 600 meter long arsenic anomaly was outlined from the soil survey. This anomaly also coincides with spot anomalies of gold, bismuth and copper. Historical rock samples assayed up to 17.37 g Au/t within the anomaly. No known drilling has been conducted on the anomaly, although two historical drill holes are collared 200 meters south (DN-RC-4 and DN-RC-5). Further field work is recommended including mapping, rock sampling and further soil sampling to investigate the anomaly.

At the Emerald Creek prospect, the 2007 soil survey outlined a broad 300-meter wide, north trending, arsenic anomaly with coincident bismuth, and copper anomalies. As well, weak sodium depletion and a spot gold soil anomaly of 0.2 g Au/t both occur within the anomaly. Previous exploration in the area includes a historical assay of 8.36 g Au/t located 40 meters north of the anomaly and two drill holes, EC-RC-06 and EC-RC-07, testing the center of the

anomaly. Further work is warranted and additional soil sampling along strike of the anomaly, as well as mapping and rock sampling is recommended.

Concurrent with the soil sampling, from September to November 2007, drill hole collar locations and grid pickets were surveyed at RKD, Driffield, Yinberrie, Saunders Rush, Brilliant, Horseshoe, and Emerald Creek prospects using a Trimble JunoST GPS. All locations were surveyed in using a UTM coordinate system with AGD 84 datum and zone 53 South. Accurate drill hole locations has enabled the compilation of an accurate database for further drill planning and geological interpretation. From the GPS surveying, it was determined that the existing collar locations were inaccurate, in some cases, up to 200 meters.

In addition to the drill collar and grid pickets that were surveyed, trenches and shafts were also surveyed with the GPS.

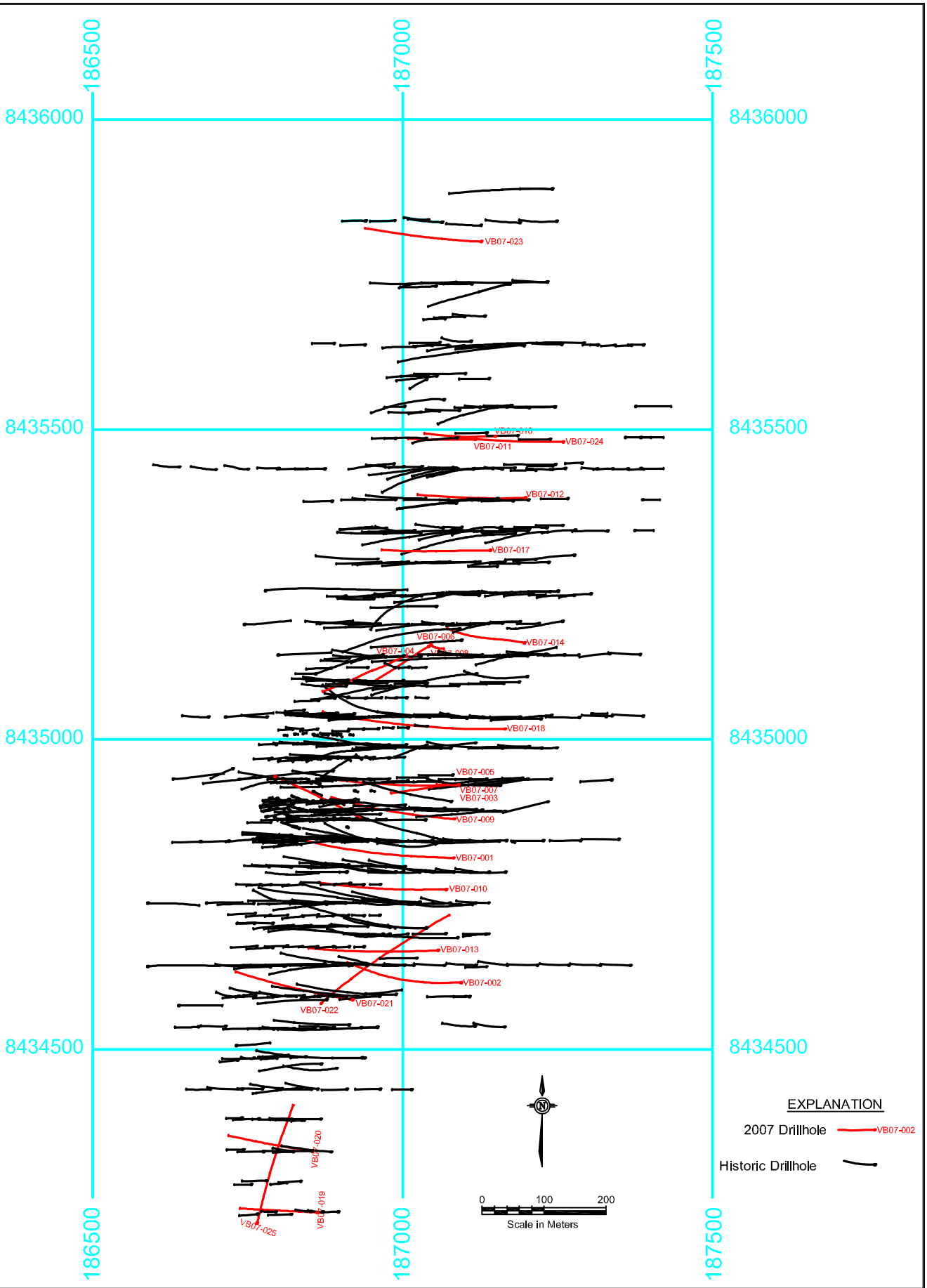
11.0 DRILLING

The 2007 Vista exploration program at the Batman deposit consisted of 25 diamond core drill holes containing some 9,883.4 meters that targeted both infill definitional drilling and stepout drilling. TABLE 11-1 contains information of the 25 drill holes completed. A total of 9,460 assays were submitted from the program to the Northern Analytical Laboratory (NAL) in Katherine for analyses.

TABLE 11-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
2007 Exploration Drill Hole Summary
May 2008

Hole ID	Northing	Easting	Elevation (m above msl)	Bearing (degrees)	Dip (degrees)	Total Depth (m)
VB07-001	187082	8434809	122.3	275	-59	486.8
VB07-002	187094	8434608	142.7	280	-67	492.0
VB07-003	187090	8434927	112.0	273	-68	93.9
VB07-004	187005	8435135	114.6	247	-64	328.9
VB07-005	187090	8434927	112.0	264	-71	363.9
VB07-006	187042	8435150	115.0	238	-75	440.8
VB07-007	187090	8434927	112.0	273	-55	374.1
VB07-008	187045	8435153	115.1	106	-87	498.7
VB07-009	187083	8434872	116.4	279	-61	416.1
VB07-010	187070	8434758	128.0	274	-64	463.0
VB07-011	187117	8435484	170.2	270	-64	249.7
VB07-012	187198	8435390	162.0	271	-64	398.8
VB07-013	187057	8434660	136.9	271	-63	452.4
VB07-014	187196	8435156	161.3	282	-77	567.5
VB07-015	186794	8434940	118.5	116	-57	284.0
VB07-016	187149	8435489	169.8	272	-68	303.0
VB07-017	187141	8435305	162.0	269	-62	378.3
VB07-018	187165	8435017	137.6	275	-59	570.5
VB07-019	186862	8434237	146.5	272	-59	237.2
VB07-020	186854	8434336	153.1	276	-58	261.3
VB07-021	186919	8434580	118.9	281	-63	426.8
VB07-022	186868	8434574	127.0	55	-62	533.6
VB07-023	187127	8435803	139.0	274	-67	473.1
VB07-024	187259	8435480	156.0	272	-62	362.7
VB07-025	186765	8434220	165.0	18	-63	426.3

FIGURE 11-1 is a plan map that details the locations of the drill holes completed as part of the 2007 exploration program.



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig11-1.dwg	**Figure 11-1**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Drillhole Location Map**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**Batman Deposit**

12.0 SAMPLING METHOD AND APPROACH

The sampling method and approach was similar to what has historically been used at Mt Todd. The drill core, upon removal from the core barrel, is photographed, geologically logged, geotechnically logged, and placed into metal core boxes. The wooden core boxes are transported to the sample preparation building where the core is marked and sawn into halves. One-half is placed into sample bags as two-meter sample lengths, and the other half retained for future reference. The only exception to this is when a portion of the remaining core has been flagged for use in the ongoing metallurgical Testwork.

The bagged samples have sample tags placed both inside and on the outside of the sample bags. The individual samples are grouped into “lots” for submission to NAL for preparation and analytical testing. All of this work was done under the supervision of a Vista geologist.

13.0 SAMPLE PREPARATION, ANALYSES, AND SECURITY

Vista and Tt developed an assay protocol for the analyses of the 2007 exploration drill core and for validation of the historic assays.

13.1 Sample Preparation

Drill crews transferred the core directly from the core barrel into metal (zincalum) core trays after each run. One of the drill helpers then washed the core to remove rod grease and drilling fluids. The core was stacked at the drill site for review by the geologist and pick up daily by the sample crew.

The sample crew consisted of 5 to 8 casual laborers contracted through the Jawoyn Association during most of the drilling program. A two-man crew was assigned to pick up the core first thing each morning and transport it to the core shed where it was stacked on pallets pending further processing.

When space on the logging benches became available, the core was laid out for the following procedures:

- One-meter intervals were marked out on the core by a member of the geologic staff;
- Geotechnical logging was done in accordance with the instructions received from SRK;
- Each core tray was photographed;
- Geologic logging was then done by a member of the geologic staff. Assay intervals were selected at this time and a cut line marked on the core. The standard sample interval was one-meter. During the early part of the program some flexibility was allowed for portions of the core that were not expected to return significant values based on visual inspection. These portions of the core were sampled in two-meter intervals. This was discontinued when numerous > 1 ppm assays were received from the 2 meter intervals;
- Blind sample numbers were then assigned and sample tickets prepared. Duplicate sample tickets were placed in the core tray at the appropriate locations; and
- Each core tray was photographed and restacked on pallets pending sample cutting.

All of the core sampled was sawn lengthwise along the dominant vein axis using a wet diamond rock saw with a core alignment attachment under the direct supervision of a member of the geologic staff. Samples were then bagged and stored in the core shed until shipment to the laboratory.

13.2 Sample Analyses

Sample preparation and analytical procedure was as follows:

- Crush entire sample to ~ - 6mm using a jaw crusher;
- Crush entire sample to ~ -2 mm using a roll crusher;
- Split sample to between 500 and 1,000 grams;
- Pulverize resulting split to ~ -100 mesh using Keegor Mill;
- Blend/homogenize the resulting pulp using a roll cloth;

- Retain ~ 400 to 500 grams as the laboratory pulp for analysis; and
- Remove 50-gram aliquot for Fire assay with an AA finish.

13.3 Sample Security

From the time the core was sampled and bagged to shipment, the core was stored in the core shed. The core shed was considered a “limited access area” and kept locked during periods when the geologic staff was not present. Individual samples were grouped for shipment in larger bags under the direct supervision of the geologic staff. These bags were inventoried, a Sample Transmittal prepared, and a Chain of Custody Sheet started. The samples were then loaded on a Vista truck and transported directly to the laboratory with a member of the geologic staff accompanying them. They were then delivered directly to the laboratory where they were signed for by the laboratory staff.

14.0 DATA VERIFICATION

14.1 Drill Core and Geologic Logs

As stated earlier in this report, the Mt Todd Project has an excellent drill hole database comprised of drill core, photographs of the drill core, assay certificates and results, and geologic logs. The meticulous preservation of the drill core and associated "hard copies" of the data are a testament to the originators of the project and the subsequent companies that have looked at the project. All data are readily available for inspection and verification. In addition, most of the subsequent companies or their consultants that have examined the project have completed checks of the data and assay results. Other than the "normal" types of errors inherent in a project this size, (i.e. mislabeled intervals, number transpositions, etc.), which were corrected prior to Tt's resource estimation, it is Tt's opinion that the databases and associated data are of a "high quality" in nature.

Tt found no significant discrepancies with the existing drill hole geologic logs and is satisfied that the geologic logging, as provided for the development of the three-dimensional geologic models, fairly represents both the geologic and mineralogic conditions of each of the deposits that comprise the Mt Todd Project.

14.2 Topography

The topographic map of the project area was delivered electronically in an AutoCAD® compatible format and is dated December 1999. The surveyed drill hole collar coordinates agree well with the topographic map; it is Tt's opinion that the current topographic map is accurate and fairly represents the topography of the project area. In addition, it is suitable for the development of the geologic models, resource estimates, and potentially mineable resources.

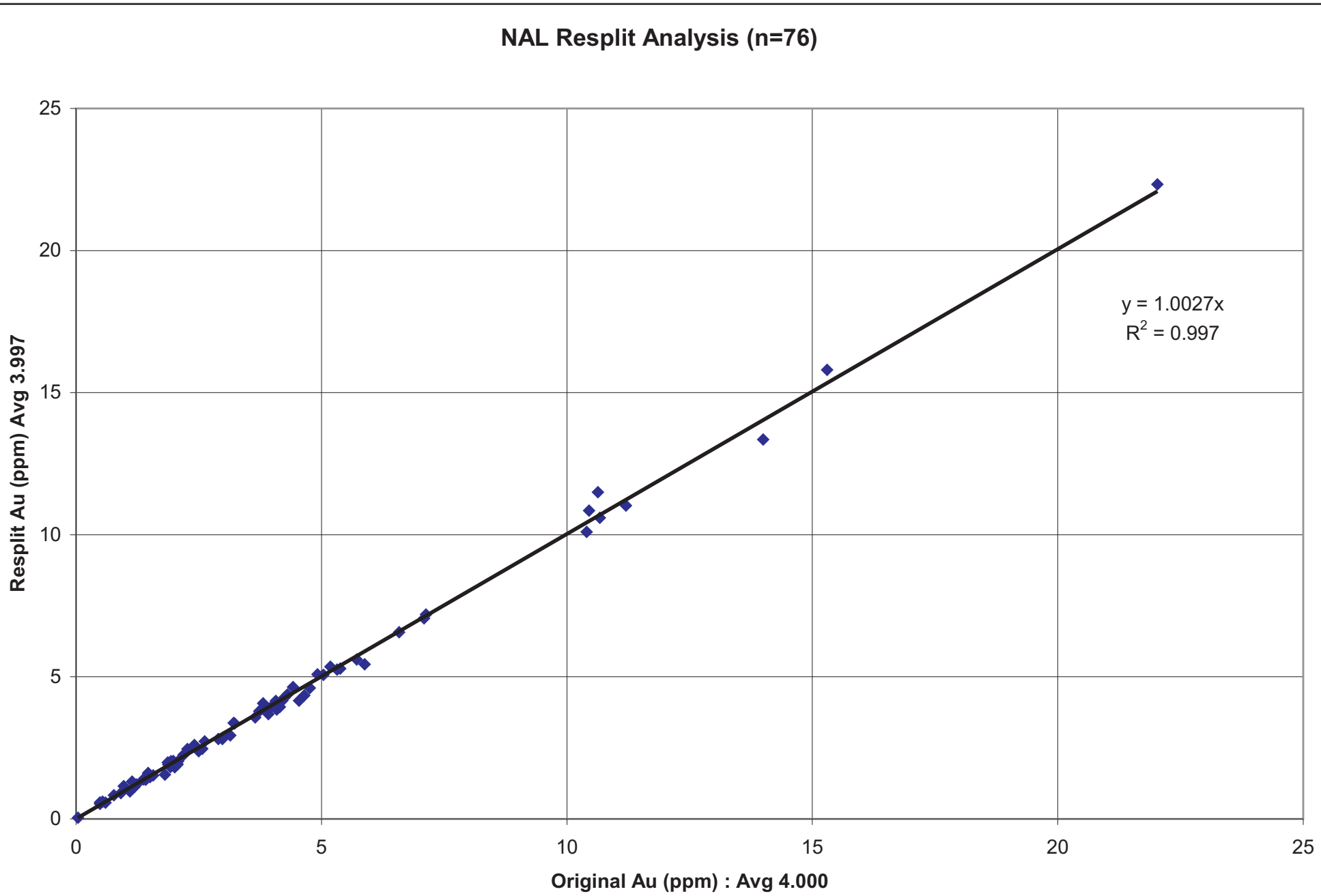
14.3 Verification of Analytical Data

As part of the 2007 exploration program, Vista embarked on a program to both verify the historic assay results and ensure that any future analytical work meets all current NI 43-101 standards for reporting of mineral resources. This program consisted of two components; re-assaying of a portion of the historic drill holes, and assaying of the new core drill holes.

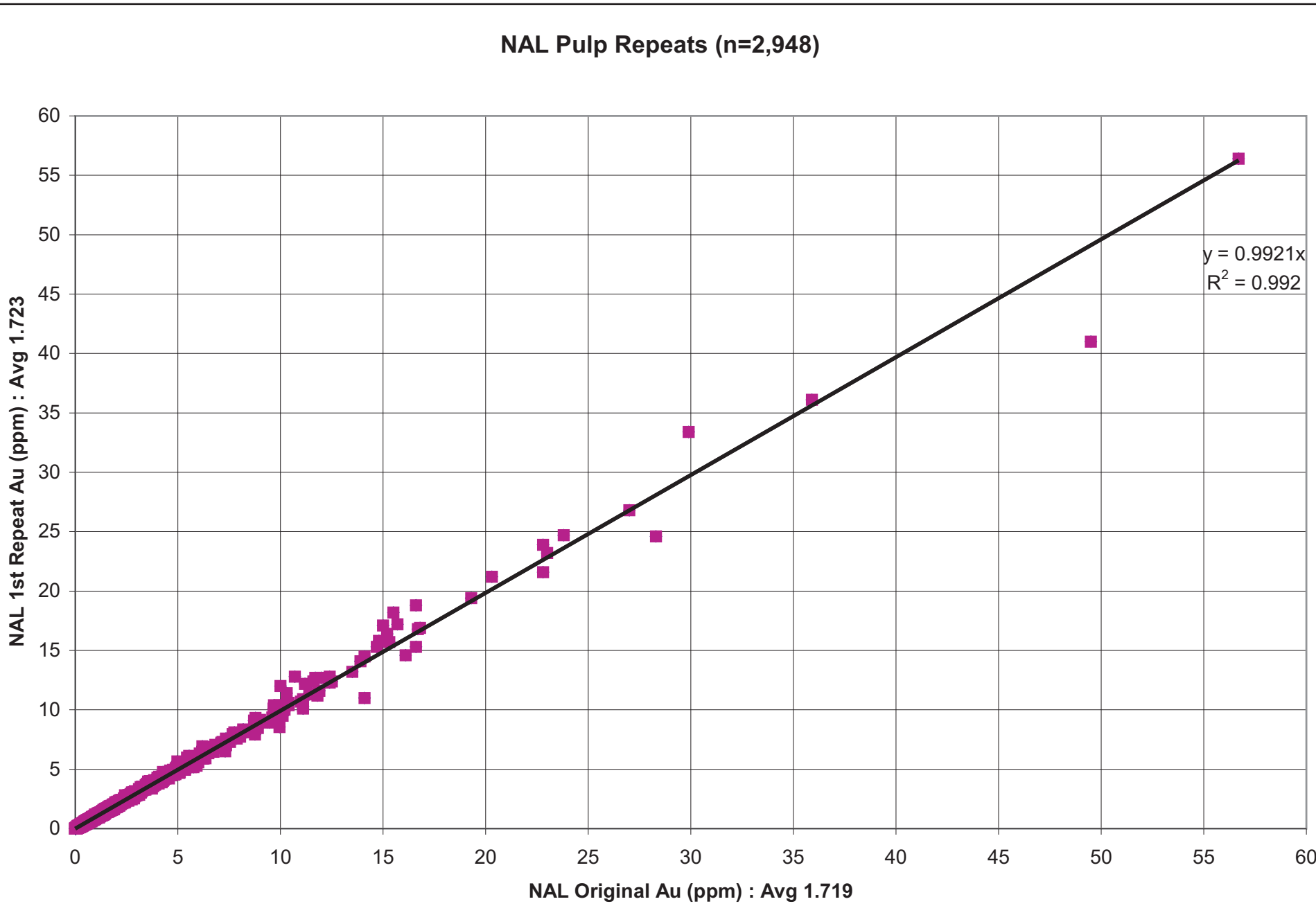
Vista completed a multi-phase program to evaluate the accuracy of gold assays generated by North Australian Labs (NAL) on Mt Todd core samples. The test involved three phases including, 1) cross checking assay standards used in the program between NAL and ALS-Chemex, 2) preparing and assaying 30 1-meter intervals of remaining half-core and detailed analysis of crushing and analytical performance between the two labs, and 3) screen sieve assay analysis of 45 coarse reject samples plus the 45 comparable remaining half core samples.

Analysis of the results from the two labs confirmed that finer material tends to be higher grade and that this fine material had been preferentially lost through the coarse-weave sample bags during storage and handling of the coarse reject samples. The test also showed good reproducibility between labs in all tests at grade ranges typical of the deposit. Greater variance, which is not unexpected, showed up in the few samples assaying in the 5-20 g Au/t range.

FIGURES 14-1, 14-2, and 14-1 detail the results of the analytical check program that was completed on the 2007 exploration drill holes. The program was designed to check both internal laboratory accuracy and inter-laboratory accuracy. NAL was the primary laboratory for completion of the sample analyses. ALS Chemex in Sydney, Australia performed the inter-laboratory analyses. As can be seen from the plats, the correlation coefficient for was 99.7% for the resplits of original assays, 99.2% for pulp repeats, and 98.6% for inter-laboratory analyses, respectively.



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig14-1.dwg	**Figure 14-1** **NAL Resplit Analysis (n=76)**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



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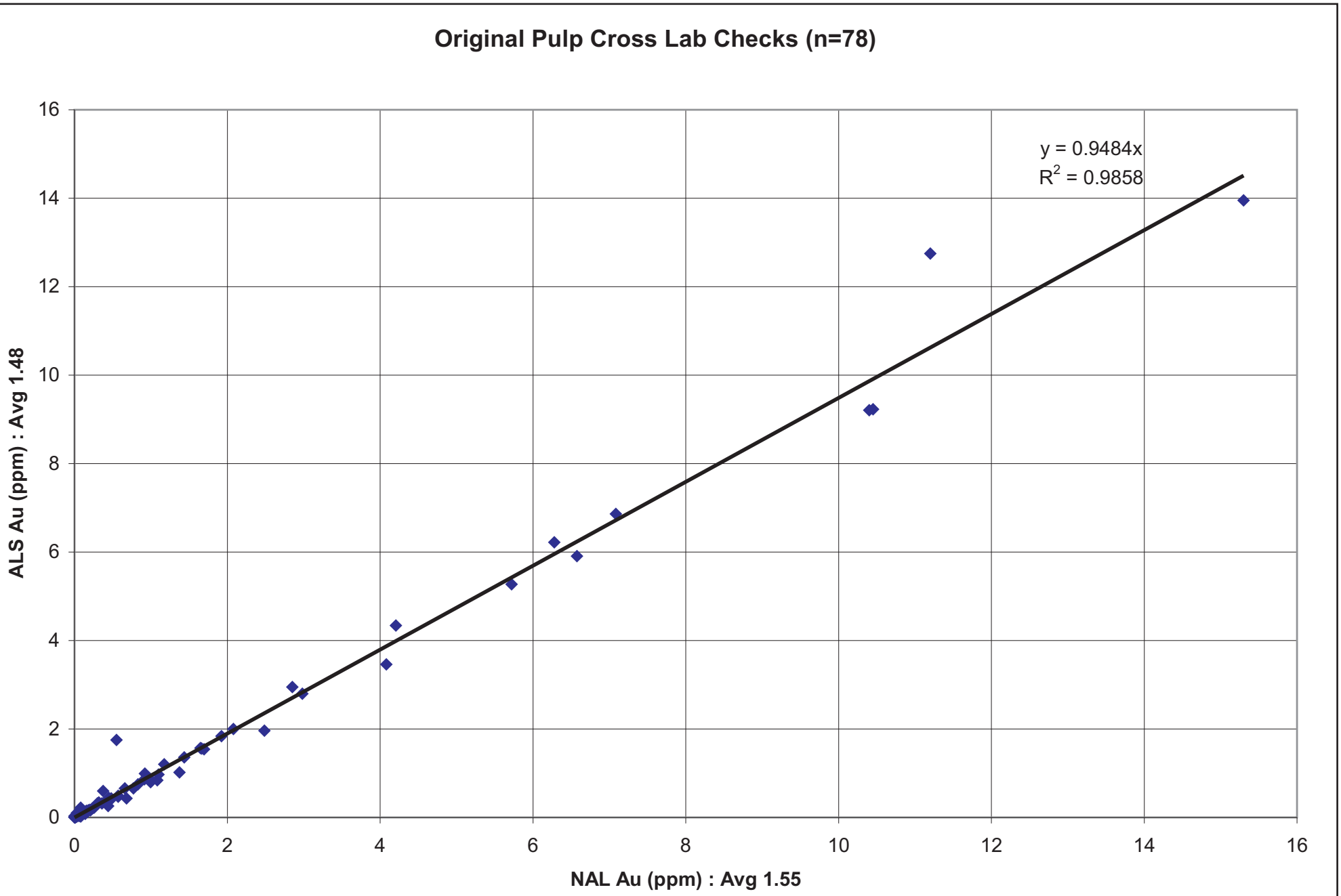
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



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Prepared for: *Vista Gold Corp.*	File Name: Fig14-3.dwg
Project: Mt. Todd Gold Project	Project Number: 114-310875
Project Location: Northern Territory, Australia	Date of Issue: May/2008

Figure 14-3
Original Pulp Cross Lab Checks (n=78)

15.0 ADJACENT PROPERTIES

There are two major structural trends in the area (see FIGURE 15-1) that control most of the mineralization in the district. The northeast trending Cullen-Australus Corridor extends northeast and controls the deposits in the Pine Creek area including East Brilliant (Au), Saunders Rush (Au), Aston Hill (Au), etc. The Batman-Driffield trend within the tenements is northeast and is clearly defined by combined Landsat-Spot-aeromagnetic linear zones. There is a flexure in this trend around the Mountain View area that is associated with the Granitic Intrusive. The linear trends swing northwest in this area and define another mineralized linear zone linking Wandie-Moline and which is sub parallel to the Pine Creek linear.

Mineralization in the tenement blocks consists mainly of gold, tin, tungsten, with minor copper, lead, and zinc shows at Mountain View, Silver Spray, Tableland and Mt Diamond. Gold is usually associated with quartz veins and with chalcopyrite, arsenopyrite, pyrite, pyrrhotite and at Batman, minor bismuth and bismuthinite. At Batman, mineralization occurs as stockworks and sheeted quartz-sulfide veins. In other areas such as Quigleys, better grade mineralization is related to distinct shear zones that can have surrounding stockworks.

Yinberrie-EL 9733

Previous work defined two gold prospects. At Anomaly One, RC drilling by Billiton returned peak gold intercepts of 5 m of 2.93 g Au/t and 33 m of 1.21 g Au/t (including 6 m @ 2.54 g Au/t). Pegasus drill tested Anomaly One with 16 RC holes, for 1599 m on four sections between 10200N to 10700N. Intersections were from 2 to 8 m wide, grades from 1.05 to 3.14 g Au/t in strongly hornfelsed metasediments.

Horseshoe - EL 9735

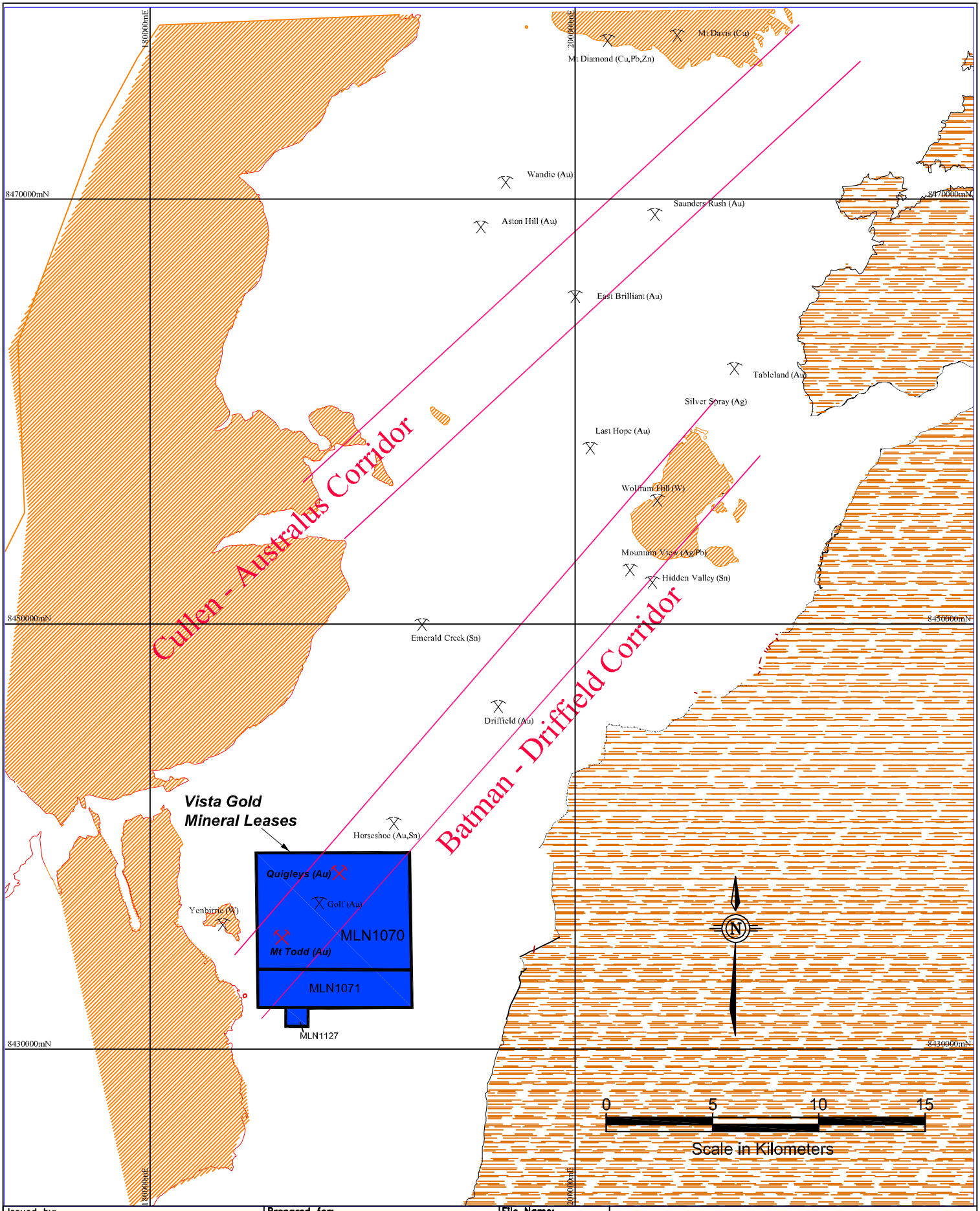
This area was previously held as EL 7635 and Mineral Claims N1918 to N1923 and N3676 to N3683 (inclusive). Billiton work defined two significant gold anomalies: Central, at the northern end, now held under BJV tenement SEL9679, and Horseshoe at the south. At Central the best RC drill result was 9 m @ 4.2 g Au/t Au while 15 m @ 1.8 g Au/t gold at Horseshoe was drilled. The Pegasus work performed over 5 years downgraded the Central Prospect. RC drilling at Horseshoe, based on detailed mapping, indicates the prospect consists of a number of thin high-grade shears with minimal stockwork mineralization in foot and hanging wall.

Driffield-EL 9734

Previous mining at Driffield produced about 5,300 oz of gold. Alluvial gold has also been worked on the EL and there are numerous small tin workings. Systematic exploration work carried out over previous years was collated, assessed and followed up. One diamond and sixty-six RC holes at six prospects were drilled by Pegasus for 4794 m at the Driffield Mining Center. Results indicated narrow lodes are only present. A further eleven RC holes were drilled at the Emerald Creek Prospect (670 m). No significant results were recorded.

Other prospects tested included Driffield North, Driffield West, Golden Slipper, and Driffield South. Results of five drill holes at Driffield North were disappointing. At Driffield West, nine RC holes were weakly anomalous, the best being DWRC 001 from 12 m, a length of 21 m @ 0.46 g Au/t; and from 45 m, 6 m @ 0.62 g Au/t. RAB drilling at Golden Slipper returned poor results and, while the bulk of rock chips at Driffield South were disappointing, some significant anomalies (+100 g Au/t) were recorded.

While 1997 results failed to locate a significant deposit, exploration is incomplete and other anomalies remain to be evaluated and drill tested.



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	**Prepared for:** *Vista Gold Corp.*	**File Name:** Fig15-1.dwg	**Figure 15-1** **Structural Trends with Mines & Prospects**
	Project: Mt Todd Gold Project	**Project Number:** 114-310875	
	Project Location: Northern Territory, Australia	**Date of Issue:** May/2008	

Barnjarn - SEL 9679

This tenement is a large block of ground (353 sub-blocks totaling 1,136 sq.km). Compilation of previous exploration data defined targets at Australis (flanks Mt Davis), Wandie/Saunders Rush/Brilliant, Everest, and Triple Bull. Further anomalies were defined at six other areas. Rock chip sampling by Pegasus at eight areas returned results from 0.76 to 24.3 g Au/t gold in fourteen samples. Soil sampling at nine prospects outlined anomalous zones. Preliminary RAB drilling was carried out at Everest, RKD extensions and GT prospects with inconclusive results. At RKD, 38 RC holes were drilled which intersected 1 to 4 m of mineralisation, grading between 1.3 and 14.3 g Au/t Au. An airborne magnetic survey at 100 m spacing at 60 m mean terrain clearance was flown, and GLS and remote sensing studies completed. A total of 65 anomalies were defined by geochemical and/or structural means. A small resource has been interpreted at RKD and drilling at Mountain View, Cullen and Highway was proposed.

Summary

The Mt Todd region, and particularly the Batman style of mineralization, is one of sheeted veins that develop into a broad two-to-three dimensional stockwork. The grade of the > 200 million mineralized tonnes averages a little less than 1 g Au/t **(Historical Pegasus estimate, not NI43-101 compliant (circa 1997)),** and is associated with low grade copper, mostly as chalcopyrite.

At Cadia Hill in New South Wales, the mineralisation is similarly a sheeted vein, two to three dimensional stockwork grading around 0.9 g Au/t, associated with chalcopyrite grading < 0.2% copper. Exploration at Cadia was vigorously prosecuted and extremely persistent in testing of deeper combined magnetic/geochemical anomalies. This ultimately resulted in discovery, at depth, of the Ridgeway deposit (over 26 million tonnes at > 3 g Au/t and > 1% copper) **(Historical estimate, not NI43-101 compliant**).

Ridgeway is hosted by rocks similar to Cadia Hill, but there is a distinct increase in the quantity of mineralising fluid. Quartz veining with chalcopyrite-gold mineralization increases very significantly in proportion to the hosting altered, but unmineralized granitioid. It indicates an area of more forceful injection of fluids and an area of greater structural preparation. The Mt Todd region has a large endowment of gold.

Whatever the source of the fluids that caused the Mt Todd mineralization, it is the view of others that there is a high probability that somewhere in the ground currently under lease, may be a far more significant moderate to high grade economic deposit.

16.0 MINERAL PROCESSING AND METALLURGICAL TESTING

Resource Development Inc., (RDi) was contracted by Vista to undertake a metallurgical testing study to confirm the conceptual process flowsheet developed earlier and presented in the Preliminary Economic Assessment report published December 29, 2006 and available for viewing on the SEDAR website. In addition, it is envisaged that this Testwork will develop a metallurgical balance for the process circuit and generate data for future economic studies.

The Testwork is currently underway and has the following work tasks identified:

1) Acquisition of additional drill core samples. RDi already has 1,200 kg of sample at their facilities;
2) Crushing, splitting, and blending of a composite of samples for abrasion and grinding and flotation studies;
3) Head analyses including XRF work;
4) Determination of the abrasion index and rod and ball mill indices;
5) Mineralogical study on ore and selected products;
6) Laboratory grind studies to develop grind time and grind size data;
7) Rougher flotation testing at different grind sizes and reagent types and dosages;
8) Develop the grind size-grind time data for a 10 kg charges using large-scale rod mill;
9) Completion of one-cubic meter flotation test using optimum conditions from laboratory rougher flotation tests;
10) Generate sufficient rougher concentrates for completion of cleaner studies;
11) Run first stage cleaner flotation tests with and without regrind to separate copper from pyrite;
12) Run test with two cleaner stages and generate kinetics on second cleaner stage;
13) Run test with three cleaner stages and generate kinetics on third cleaner stage;
14) Complete leach tests on cleaner tails in each of the above cleaner tests;
15) Make adjustments to the anticipated process flowsheet based on the above Testwork;
16) Design and run three-locked cycle test with 6 to 8 cycles each including leaching of cleaner tails;
17) TCLP on rougher tailings;
18) Cyanide destruction tests on leach residues and TCLP on the final residues;
19) Develop the metallurgical balance for the process flowsheet; and
20) All results to be presented in a final report.

17.0 MINERAL RESOURCE AND MINERAL RESERVE ESTIMATES

The following sections detail the thought processes, procedures, and results of Tt's independent estimate of the contained gold, silver, copper, lead, and zinc resources of the Batman Deposit. Only the Batman Deposit currently has classified resource estimates. As detailed elsewhere in this report, the Quigleys Deposit, even though considerable data are available, will require additional work prior to estimation of a resource.

17.1 Batman Deposit

A total of 16,373 samples were tested for bulk density (diamond core). These bulk densities were carried out on 10 to 15 cm pieces of core. Based on this work, the bulk densities applied to the resource model are presented in TABLE 17-1.

TABLE 17-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Summary of Batman SG Diamond Core Data by Oxidation State
May 2008

Oxidation	No of samples	Min	Max	Mean	Variance	CV
Oxide	2,341	1.77	3.28	2.47	0.04	0.08
Transitional	1,316	2.07	3.55	2.67	0.01	0.04
Primary	12,716	1.58	3.9	2.77	0.006	0.03

In addition, one hundred fist-sized grab samples (50 from 1060 level and 50 from 1040 level) were collected and sent to Assay Corp for moisture and bulk density determination and are presented in TABLE 17-2. Results show that the average moisture content is less than 1% and the average SG for the 1060 RL (all primary) is 2.77 and 1140 RL (mixture of primary and transitional) is 2.74. These results match the predicted specific gravity within the existing and new block models.

TABLE 17-2
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Pit Sample SG Data
May 2008

	1060-1068 RL		1146- 1140RL	
	SG	Moisture%	SG	Moisture%
Number of samples	50	50	50	50
Average bulk density (t/cm)	2.77	0.01	2.74	0
Median bulk density (t/cm)	2.78	0	2.76	0
Maximum bulk density (t/cm)	2.88	0.18	2.83	0.07
Minimum bulk density (t/cm)	2.54	0	2.52	0
Standard deviation.	0.05	0.03	0.07	0.01

17.2 Quigleys Deposit

Bulk density data were supplied by Pegasus for two ore types and waste within the oxide, transition and primary zones, based on a total of 39 samples collected from recent RC drilling. The two ore densities supplied were for stockwork and shear, with the density of the shear material substantially higher, particularly in the transition and primary zones. These samples were over 1-m to 2-m intervals and thus selected the narrow high grade portion of the shear zone as originally interpreted by Pegasus. The final mineralization envelope was much broader than this, and the bulk density was therefore estimated by assuming the final envelope contained 15% shear and 85% stockwork and weighting the density values accordingly. TABLE 17-3 contains the SG data assigned to the Quigleys area according to oxidation state.

TABLE 17-3
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Quigleys Deposit SG Data
May 2008

Oxide within modeled shear (t/cm)	2.60
Oxide Waste (t/cm)	2.622
Transition within modeled shear (t/cm)	2.65
Transition Waste (t/cm)	2.577
Primary within modeled shear (t/cm)	2.70
Primary Waste (t/cm)	2.61

More confidence in the geological interpretation would be needed to ascertain the geometry of the high-grade portion of the shear zone. Alternatively, it may be appropriate, with a more detailed density study, to weight the high-grade blocks with a higher density.

17.3 Geostatistical Analysis of Blasthole Data

A new geostatistical study was initiated with the objective being the refinement of the variograms derived solely from exploration gold samples. Vista Gold re-entered blasthole data produced during the mining of Mt. Todd by Pegasus Minerals and General Gold. The data includes a total of 158,640 gold samples from blasthole cuttings on 28 mining benches. The 8-m benches were mined in two 4-m mining lifts, producing two blasthole samples for each lift. FIGURE 17-1 is a screen capture of the Mt. Todd mine looking from above. The figure's size is approximately 1200 m in the N-S direction and 860 m in the W-E direction. Each blasthole is shown as a colored dot.

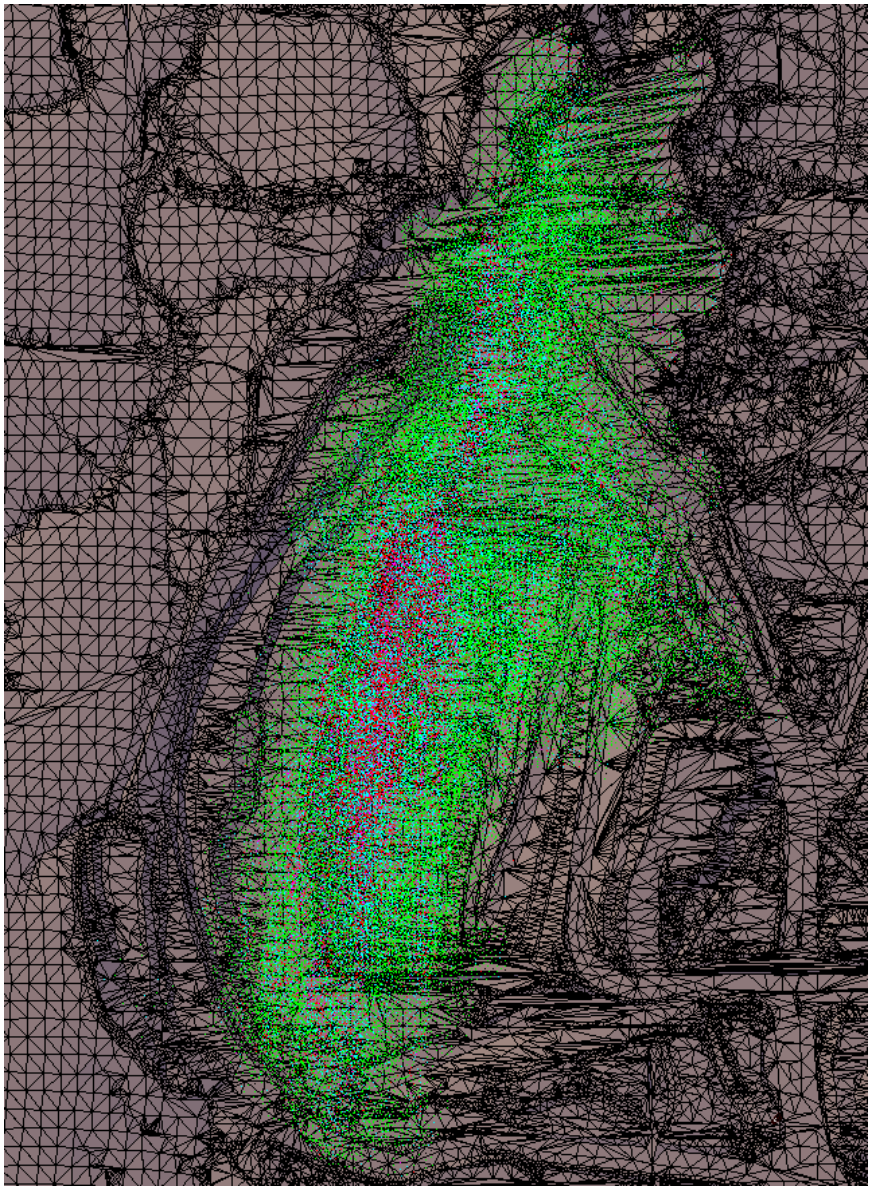


FIGURE 17-1: Screen-Capture Illustrating the Blasthole Locations

The blasthole grade intervals shown in FIGURE 17-1 are as shown in TABLE 17-4.

TABLE 17-4
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Gold Grade Ranges of Blasthole Data in FIGURE 17-1
May 2008

0.01 and <= 0.5g Au/t	Green
> 0.5 and <= 1.0g Au/t	Cyan
>1.0 and <= 2.0 g Au/t	Red
>2.0 g Au/t	Magenta

Note that at the screen capture resolution individual blastholes smear into a cloud of colors. The higher grade blasthole show a north-south trend, which when plotted against the geologic model discussed earlier in this report, appear to fall within the core zone.

TABLE 17-5 shows the statistics for all of the data above a minimum cutoff of 0.01 g Au/t. The data is lognormal-like as shown in FIGURE 17-2, and a coefficient of variation (CV) of 1.41, which is a measure of overall variability of the data. This level of CV is common for lower grade gold deposits.

TABLE 17-5: Overall Gold Statistics for Blasthole Data (all rock types)

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd blast hole study

DATA TYPE IS SAMPLE
CURRENT LABEL : Au

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	SAMPLE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
ALL	1	4915	0	153724	0.01000	98.910	0.68585	1.0970	1.0474	1.5271	-0.8996	1.0948	1.0463	0.70315	1.4101

FIGURE 17-2: Log Histogram of Gold Blasthole Data (all rock types)

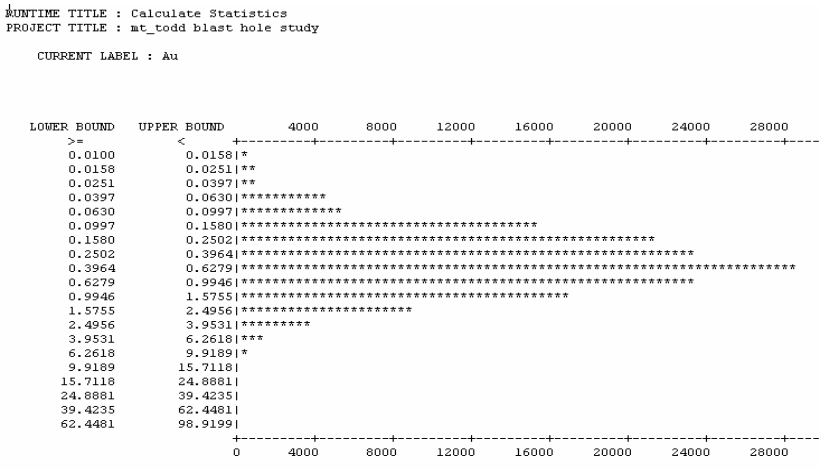
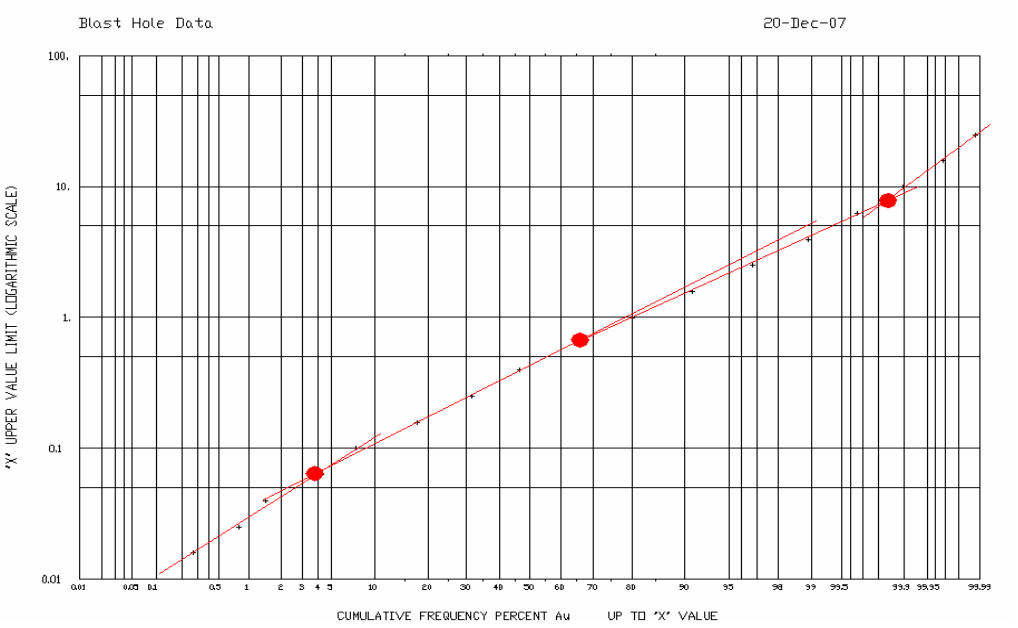


FIGURE 17-3 shows a log-probability plot with subtle breaks in a straight-line fit. These separate straight-line segments suggest that there is a mixture of several gold populations. Presented are three possible breakpoints shown with a circle symbols.

FIGURE 17-3: Log-probability Plot of Gold Blasthole Data (all rock types).



There are 66 rock codes in the computerized resource model. The blasthole data was further broken out using codes 3000 through 3018 for the Hanging Wall (HW), 2000 through 2018 for the Foot Wall (FW) and codes 1000 through 1018 for the Core. The data showed a similar lognormal distribution for each; however, gold grades are more similar when they are partitioned to be within their respective zones. The HW and FW zones have CVs of 1.35 and 1.39 respectively. The CV for the Core was even lower, with a value of 1.1, indicating less variability than the HW and FW. TABLE 17-6 details the basic statistics of the blasthole data by zone.

TABLE 17-6: Basic Gold Statistics on Blasthole Data by Zone

RUN TIME TITLE : Calculate Statistics 1000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MIN	MAX	MEAN	VAR	STD. DEV.	COEF. OF VAR
1000	30626	658	0	37130	0.010	48.5	0.929	1.03	1.0189	1.096
2000	11582	189	0	12693	0.010	22.2	0.530	0.51	0.7179	1.354
3000	13844	561	0	15238	0.010	33.2	0.639	0.79	0.8905	1.393

Twelve directional variograms were calculated for the blasthole data for the combined zones. In all cases, the variogram were calculated with log transformed data which was then recalibrated into relative variograms. These variograms showed a large nugget effect with a relative variance of 1.2 which is almost 2/3 of the final sill. The variograms were modeled with a spherical function. Two nested spherical functions were nested. The first was modeled with a short range of between 10 and 20 m. The longer range was modeled with ranges from 200 to 600 m. A geometric anisotropy was observed with the longest ranges in the N-to-N-E and vertical

directions which follow the mineralization package along strike enclosed between the HW and FW.

FIGURES 17-4 and 17-5 show representative variograms for N-S and E-W directions. The N-S has a short-range of 20 m and a long range of 400 m. FIGURE 4 has a short range of 10 m and a longer range of 200 m.

FIGURE 17-4: N-S Trending Relative Variogram of Gold Blasthole Data (all rock types)

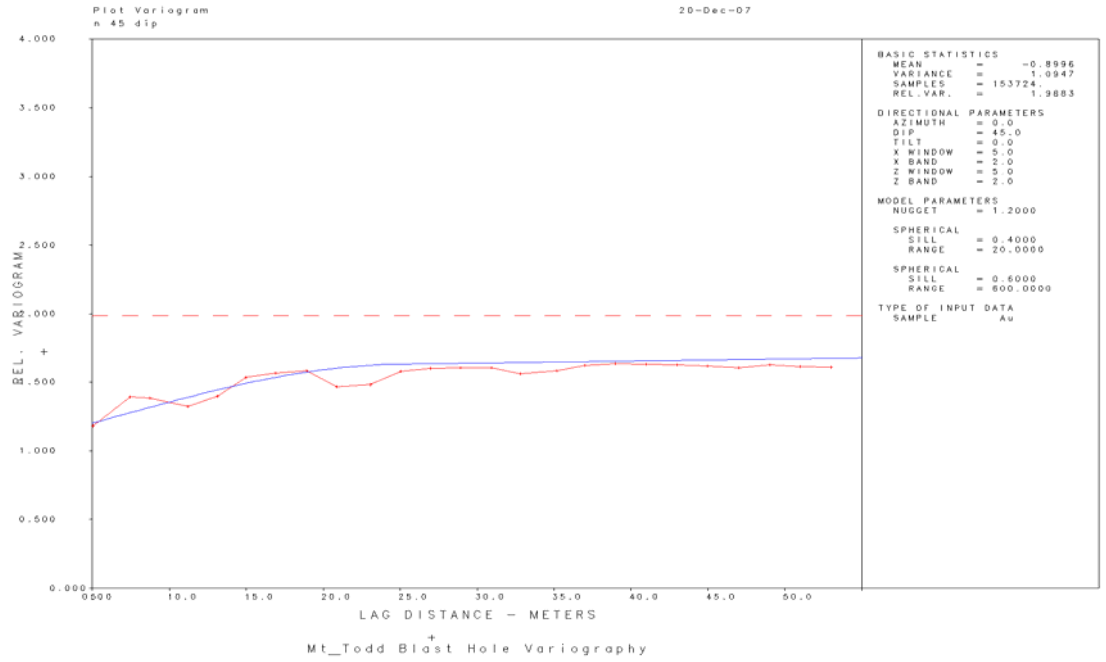
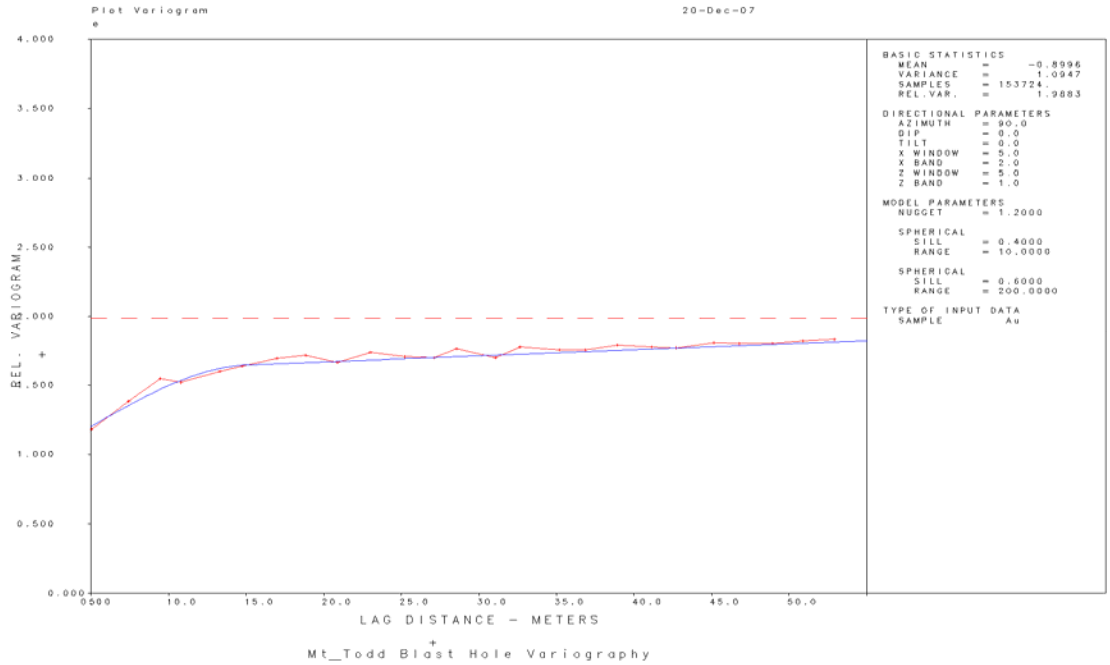


FIGURE 17-5: E-W Trending Relative Variogram of Gold Blasthole Data (all rock types)



The other directional variograms show the same pattern as these two. Variograms using the FW, HW, or Core data alone shows lower sills than the combined data. The general geometry of ranges does not change. While geologic modeling does not appear to alter variogram ranges, it can have impact on final estimate quality. It is important, therefore to use geologic codes in all estimations.

A standard rule-of-thumb is that kriged blocks to be classified as “Measured” must have samples that are near the variogram range. In this case, the shorter of the two ranges is the appropriate distance for this rule. This distance is approaching 20 m. To classify resources at the “Indicated” level will require a single sampling distance to be no less than as 20 m. For a kriging estimate that uses at least 16 samples, this condition is met by setting the unitized relative kriging variance to a maximum of 0.30.

A standard rule-of-thumb is that kriged blocks to be classified as “Indicated” must have samples that are near the variogram range. In this case, the shorter of the two ranges is the appropriate distance for this rule. This distance is approaching 20 m. To classify resources at the “Indicated” level will require a single sampling distance to be no less than as 20 m. For a kriging estimate that uses at least 16 samples, this condition is met by setting the unitized relative kriging variance to a maximum of 0.30 to 0.55.

All blocks that were either unestimated and/or had kriging variances that exceeded the above variance parameters were re-estimated as “Inferred” resources. A single sampling distance of approximately 2 times the variogram range (i.e. 40 m) was used. For the krigied grade estimate, a maximum of 12 samples was used and a relative kriging variance of 0.0 to 0.45 was applied.

Blasthole Study Conclusions:

The blasthole study provided a better understanding of the shorter range components to the gold variograms derived from only exploration holes. This better understanding was incorporated into the updated grade model discussed in the next sub-section of this report. Important contributions from the blasthole study include:

- The sill values are related to the CV of the data population which has an impact on the quality of kriged estimation. This in turn supports the continuation of using rock code to partition the deposit;
- The high nugget modeled using exploration holes is corroborated by this blasthole study;
- A short range of from 10 to 20 m using BH data is consistently seen within the core;
- A longer range of 200 to 600 m using BH is also consistently seen;
- These observations also corroborate the previous geostatistical modeling; and
- The anisotropy directions are controlled by the geologic HW, Core, and FW structure, with the longest ranges along strike.

17.4 Drillhole Data

An Access database set up in Gemcom has been recreated from the old exploration database. Tables for the grade control database have been inserted into this database.

Batman Exploration Database

The pre-2007 exploration database consisted of 730 drill holes, 226 diamond holes and 504 percussion holes. A total of 47,029 samples existed within that exploration database. Diamond core is a combination of NQ and HQ, with the NQ core being sawed into half splits and the HQ core being sawed into quarter splits.

Problems have been identified from the original Batman exploration database:

- Only one gold field existed in the database called “Au Preferred”. Au Preferred was a factored gold grade;
- Zones of non-assayed mineralized core were incorrectly coded and given 0 grade; and
- Some samples with assays below detection have been incorrectly coded as not sampled.

Original assays from logs and/or laboratory assay sheets have shown that there are up to 15 gold assay fields (five different splits with three gold fields). The Au preferred is usually the average of the gold assay, but with the early data, notably the Billiton data, the Au Preferred has been factored. Exactly how this factoring was calculated is a question. Billiton reports suggest that different laboratories along with the orientation of drill holes have impacted on the grade returned from the laboratory and factors to counter this have been applied in the calculation of the Au Preferred field.

MicroModel® files have been found containing 80% of the original assay data. Inspection of these data has shown codes, in some cases, were used for below detection (-0.800 or -0.008) while other times below detection was given a grade (0.005 or 0 or 0.001) instead of the code. Missing samples were given a code (-0.900 or - .009 or -0.700). Sometimes these codes have been misused with below detection codes being used instead of missing samples and vice versa. This has impacted on the Au Preferred field in the database. Original lab assay data sheets and logs have been used to fix this problem.

After going through all the logs and laboratory assays, the data have now been corrected and reloaded into the database. Codes have been allocated, with below detection assays given a grade of 0.005, which is half the detection limit of 0.01 and missing samples were given a code of -9.000.

The assays in the database have been split into different tables to save room and make the processing of the data more efficient. The gold fields have been split up into six different tables, depending on the number of duplicate samples. Gold1 is the first assay taken, Gold2 the second assay taken and so on to Gold5. An Auav (average gold grades) table has also been added for the average gold grade from the five gold assay tables. The Au Preferred field has been retained in the present dill hole database. A separate table has also been created for the multi-element data.

The existing lithology tables in the database are split into two tables, Extra and More (containing lithology, mineralization, oxidation structural data etc.).

Quigleys Exploration Database

TABLE 17-7 details the Quigleys exploration database.

TABLE 17-7 VISTA GOLD CORP. – MT TODD GOLD PROJECT Summary of Quigleys Exploration Database May 2008			
Drillholes	**Gold Assays (approx 1-meter)**	**Copper Assays (approx. 1-meter)**	**Lithologic Codes**
632	49,178	41,673	51,205

At the present time, no resource estimates have been made for the Quigleys Deposit.

Validation of the Batman Exploration Database

The exploration database has been validated in Gemcom for missing intervals, missing holes, invalid interval lengths, and erroneous azimuth, dip, and collar co-ordinates. The assay file was validated against the collar and survey file for interval length errors. No significant errors were encountered.

17.5 Batman Solids

In previous resource models, the Batman Deposit resource was calculated either non-constrained, or with a grade shell for grade interpolation. Lithological units had not fully been taken into account. The GGC resource model and the Tt resource model both incorporate the lithological unit's interaction with mineralization within the deposit.

Solids have been created in Gemcom to flag the assay data and block model for oxidation state, lithological boundaries, and mineralized zone.

Oxidation Solids

Pegasus oxidation solids were found for oxide, transitional, and primary. Close inspection of exploration data, pit inspections, and specific gravity test work showed these solids to predict the oxidation states with a high degree of certainty. These oxidation solids have been used to flag the block model and assay data. Coding of oxidation is the same as the block model rock type coding. TABLE 17-8 details the codes and SGs assigned to the oxidation solids.

TABLE 17-8 VISTA GOLD CORP. – MT TODD GOLD PROJECT Oxidation Model Codes & Associated SG – Batman Deposit May 2008		
Oxidation State	**Code**	**SG (t/cm)**
OXIDE	100	2.47
TRANSITIONAL	200	2.67
PRIMARY	300	2.77

Lithological Solids

Close inspection of the gold grade control and exploration data shows that the lithology interacts with the orientation and nature of the gold mineralization. Pegasus mine geologists had created a solid interpretation of the lithology using Gemcom. These lithological solids predict the lithological boundaries well. The Pegasus lithological solids were then extracted into a GEMCOM polygon database and projected to fit the size of the entire block model. These

polygons were extracted as three-dimensional rubber sheets (3drs) and solids were created that were then used to code both the assay data and the block model. Some units, notably lithologic unit SHGW23, could be broken up into sub units of shale and greywacke, but the grade distribution within the unit is relatively consistent.

Mineralization Zoning

Close inspection of the grade control and exploration data, shows that the mineralization can be zoned into areas that have similar characteristics. Four major zones exist, the core, the hanging wall, the footwall and outside. All these zones show changes in mineralization characteristics across lithological boundaries.

These zones were created visually using a combination of assay data (both grade control and exploration assays), quartz percent, quartz veining per meter, vein orientation, fractures per meter and lithology and sulfides. Below are the details describing the zones.

Core Zone (GGC Code = 10000, Tt Code = 1000)

This zone is the main mineralized zone within the deposit. It is characterized by having a high quartz percentage with a high vein frequency. Veins are orientated at 0^0 to 20^0 to the north and dipping at around 80° to 60° to the east. Mineralization within the Core zone is more consistent than in the other zones.

Footwall Zone (GGC Code = 20000, Tt Code = 2000)

The Footwall zone is adjacent to and to the west of the Core zone. Less quartz veining and patchier grade, distinguish the footwall zone from the core zone. The north south jointing is present, but not all joints are filled with quartz/sulfides. Lithology tends to control the intensity of mineralization. The western boundary of the footwall zone is where the north-south jointing intensity decreases dramatically.

Hanging wall Zone (GGC Code = 30000, Tt Code = 3000)

The Hanging wall zone is adjacent to and to the east of the core zone. As with the Footwall zone, less quartz veining and patchier mineralization distinguish the hanging wall zone from the Core zone. The north-south jointing is present but not all joints are filled with quartz/sulfides. Lithology tends to control the intensity and style of mineralization. A large quartz-sulfide vein, up to 2 m in thickness, consisting of quartz and pyrrhotite marks the boundary of the Hanging wall Zone and the Core Zones in places (it is possible source of large magnetic anomaly). This vein is only slightly mineralized. The eastern boundary of the hanging wall zone is marked by the last (eastern most) of the consistent quartz filled veins (joints).

Outside Zone (GGC Code = 0, Tt Code = 0)

The Outside zone is all material outside the other zones. Narrow inconsistent north-south trending zones are present, as well as bedding parallel mineralization around bedding faults and areas of shale and felsic tuff, namely SH22 to SH20.

FIGURE 17-6 provides a detailed picture of these three main mineralized zones for the Batman Deposit. The Hanging Wall zone is blue, the Core is yellow and Foot Wall is green. The 3-D view shows partial drill holes within a given lower and upper elevation horizontal slice.

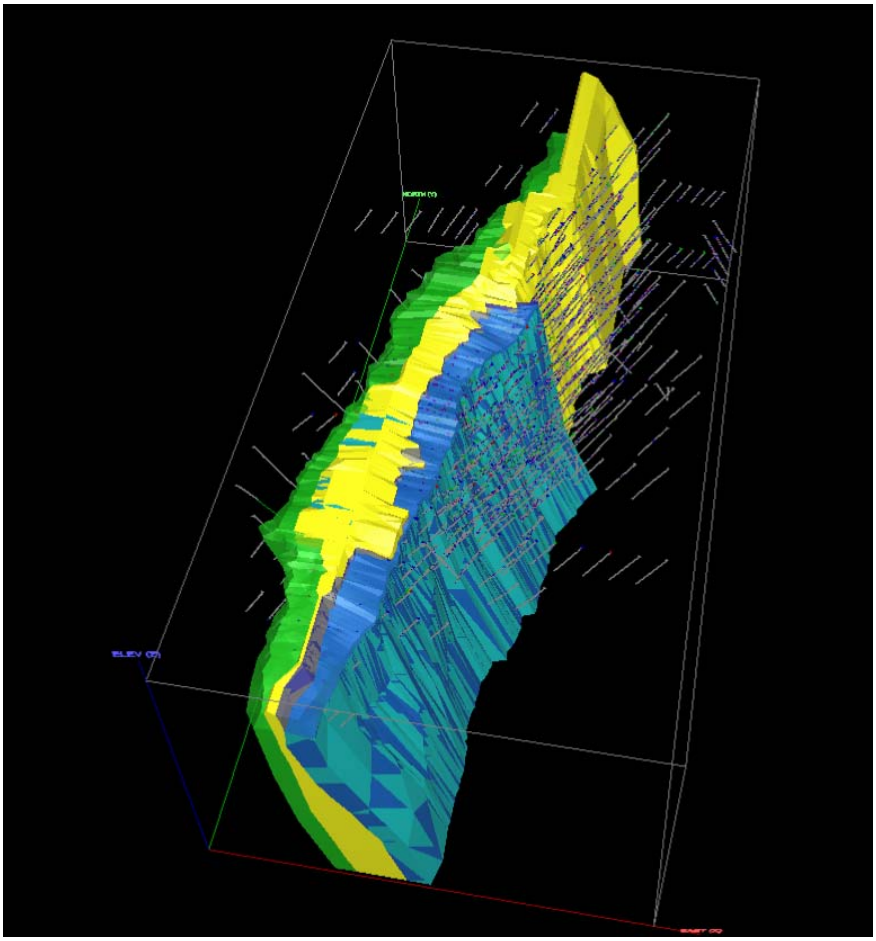


FIGURE 17-6: Simplified Lithological Units

17.6 Batman Drillhole Coding

The drill hole databases were coded for oxidation, geological zone and mineralized zone, into separate tables in the database. These tables were named;

- Complith: geological zone coding;
- Compox: oxidation coding; and
- Compzone: mineralization zones coding.

Coding was checked visually in section, plan, and 3D for errors.

Lithological Coding

GGC modeled eighteen lithological units identified within the deposit and these are listed in TABLE 17-9 from south to north (oldest to youngest). These lithological codes were further consolidated into five codes within mineralization zones. FIGURE 17-7 shows the pattern of the 18 lithologies. The N-S trend of the “mineralized zones” crosscuts across a NW-SE pattern of lithologies. TABLE 17-10 also lists a four category “simplified lithology” that is shown in FIGURE 17-2.

TABLE 17-9
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Summary of Geologic Model Coding – Batman Deposit
May 2008

Lithology	Lithologic Unit Code	Description	Geological Zone Code (core, footwall, outside)	Geological Zone Code (hangingwall)
GW25	1	greywacke	1	1
SH24	2	shale	1	1
GW24A	3	greywacke	1	1
SHG24A	4	shale/greywacke	1	1
GW24	5	greywacke	1	1
SHGW23	6	shale/greywacke	2	2
GWSH23	7	greywacke/shale	3	3
GW23	8	greywacke	3	3
SH22	9	shale	4	3
T21	10	felsic tuff	4	
SH21	11	shale	4	
T20	12	felsic tuff	4	
SH20	13	shale	4	
GWSH20	14	greywacke/shale	5	
SH19	15	shale	5	
T18	16	felsic tuff	5	
SH18	17	shale	5	
GW18	18	greywacke	5	

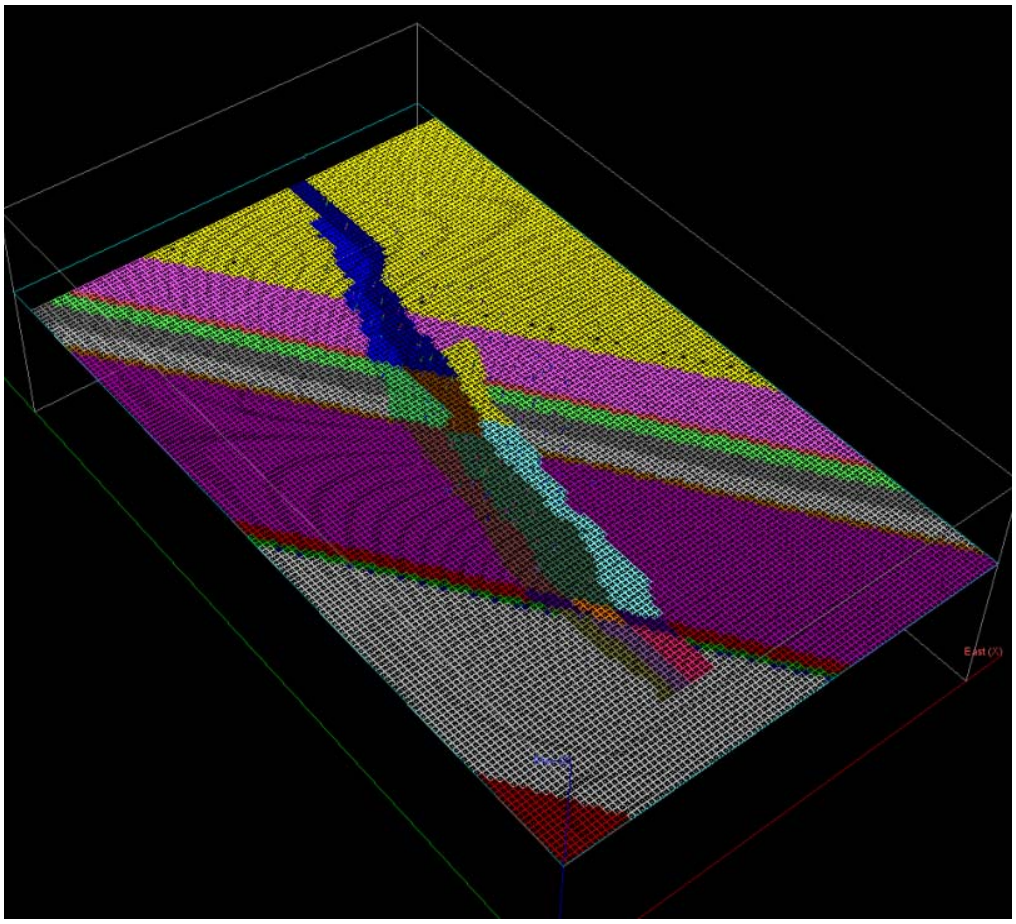


FIGURE 17-7: The 18 "detailed" Complith codes show a general pattern.

North-South Trending Corridor

The north-south trending mineralization occurs in all rock units. Inspection of grade control and exploration data, drill logs, diamond core and the pit has shown that the north-south trending mineralization can be divided into three major zones based on veining and jointing intensity. These three zones were given Compzone codes that have values in the ten thousands, i.e. 10000, 20000, and 30000 by GGC, which Tt has modified to be 1000, 2000, and 3000, respectively. Outside of the corridor, the code is 0. Note that in FIGURE 17-2, two sets of lithology produce a striped pattern. The first pattern is one of NW-SE, while the other is a pattern of N-S. The major gold mineralization falls within the latter pattern which allows the Complith codes to be simplified and remapped as codes 1 to 5 depending on whether they fall within the Hanging Wall, Core, or Footwall Zones. The relationship between the detailed and simplified Complith codes is shown in TABLE 17-6.

Mineralization Zone Coding

The mineralized zones were coded in the drill hole database in field designated as COMPZONE (as in TABLE 17-10). Tt changed the GGC codes to 1000 series numbers in order to be compatible with the GEMCOM software.

TABLE 17-10 VISTA GOLD CORP. – MT TODD GOLD PROJECT Mineralized Zone Model Codes – Batman Deposit May 2008		
Zone	**GGC ID**	**TT ID**
CORE	10000	1000
COREHW	30000	3000
COREFW	2000	2000
OUTSIDECORE	0	0

Rock Type Model

A block model was created for oxidation, lithology and mineralized zones. The blocks were coded by intersecting with solids. A minimum of 51% intersection with the solids was the block coding criteria.

Density Model

The density model was coded from the oxidation model. Blocks were coded on the specific gravity given to the solids as presented in TABLE 17-5.

17.7 Gold Mineral Resource Estimate

The Mt Todd gold resource estimate was independently developed by Tt using the MicroModel® software package. This updated gold resources estimate used the twenty-five (25) core holes completed by Vista Gold Corp. in 2007 and information gained from the blasthole study. The assay data were carefully reviewed and incorporated with the existing data from 730 drill holes (225 core, 435 reverse circulation, 70 rotary holes) from previous drill campaigns by BHP Resources Pty, Ltd., Zapopan NL and Pegasus Gold Australia Pty, Ltd. Many fundamental model parameters including: topography, drill assay and composite location, and the rock model developed by GGC were found to be acceptable. This included the interpretation by GGC of the lithologic rock designation, the oxidation level and the type and location of mineralized zones. The three-part designation of lithology, oxidation, and zone (LOZ) was incorporated into a block model framework used by GEMCOM® software and then transferred to MicroModel. Crucial differences between the GGC and Tt resource classification are found within the interpretation of variogram and kriging parameters and the use of different block sizes (GGC=12x12x12 versus Tt=12x12x6). Gold values follow a three-parameter lognormal distribution and were modeled with general relative (genRel) variograms retransformed from log variograms. This interpretation included analysis of the drill hole and blasthole data. The results from the blasthole study resulted in a considerable shortening of variogram ranges. However, blasthole data was not used in the estimation of the mineral resource estimate. The estimating technique used geologically controlled, multiple pass ordinary kriging (OK) of gold values. This technique is supported by observations of Tt and other consultants (PAH, Snowden) that the primary variogram ranges are short (rarely longer than 50 m). The GGC model and currently the Tt model have no copper assays results. This is a crucial shortcoming in that the existence of copper appears to have had a negative impact on the earlier Pegasus Mt Todd operation. A copper to gold regression relationship was developed from a nearby-mineralized deposit (Quigleys). The resultant block kriging gold estimation errors were in turn used to classify estimated blocks into measured, indicated, and inferred categorizations. Existing core from Mt Todd has been re-assayed for copper and the regression relationship used for imputing inferred

copper values. Finally, a sampling program was designed to efficiently upgrade the gold indicated and inferred blocks to a measured class.

In conclusion, Tt's interpretation of the data had impacts on the resource estimation. They are:

1) Gold values follow a three-parameter lognormal distribution, which was modeled with log normal variograms translated into general relative (genRel) variograms.
2) Tt geostatistical interpretation used data from blastholes to produce variograms resulting in a considerable shortening of ranges (1/3 in most case) when compared to GGC. The blasthole data was not utilized for the purposes of estimating the grade of remaining mineralized material.
3) 91,225 assays from 730 drill holes (225 core, 435 reverse circulation and 70 rotary holes) were used in estimating remaining mineralized material. In addition 9,460 assays from 25 core holes drilled by Vista were also used. Block size was halved in the vertical direction (GGC's 12x12x12 m versus Tt's 12x12x6 m.)
4) Tt used a maximum of 12 samples in an octant search versus GGC's 30 samples.
5) Tt variogram models were also simplified, utilizing a nugget and the nesting of two spherical models as compared to the multiple nested structures (up to 10) proposed by GGC. Tt used a multiple-pass kriging approach producing a JAS and Halo model.
6) Tt used kriging variance for determining whether a kriged block falls within a measured, indicated or inferred resource class. GGC used a resource classification dependent solely on distance and number of drill holes used in the estimation.
7) The previous block model by GGC did not have copper estimates. This deficiency goes back to a failure to analyze for copper. An imputed inferred copper value was included in the Tt block model. The copper values were estimated by a regression relationship derived from the nearby Quigleys Deposit. Jackknife calculations were used to validate the inferred classification scheme.
8) Kriging variance was used to propose future sampling locations which were drilled and used in the Tt estimation.

Model Dimensions

TABLE 17-11 provides the details associated with the Batman block model.

TABLE 17-11
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Block Model Physical Parameters – Batman Deposit
May 2008

Direction	Minimum	Maximum	Block size	#Blocks
x-dir	186384mE	187500mE	12m	93
y-dir	8434032mN	8435820mN	12m	149
z-dir	-388m	224m	6	102

Geostatistics of the Batman Deposit

The drilled resource forming the Batman Deposit is situated within a rectangular area approximately 1,500 m N-S, and 1,125 m E-W (FIGURE 17-1). The geology of the Batman Deposit consists of a sequence of hornfelsed interbedded greywackes, and shales with minor thin beds of felsic tuffs. Minor lamprophyre dykes trending north-south crosscut the bedding. The mineralized lithologic package consists of a tabular deposit striking at 325° with a dip of 40° to 60° to the southwest. The majority of drilling slants at a dip of approximately 65° with an azimuth of 270°. FIGURE 17-8 shows a 3-D image of the Batman Deposit, with topography shown in green, drill holes shown in red (gold assay >= 0.6 g Au/t) and blue (gold assays < 0.6 g Au/t). The Batman mine is now an abandoned open pit resulting in drill hole traces that are shown above the present topography.

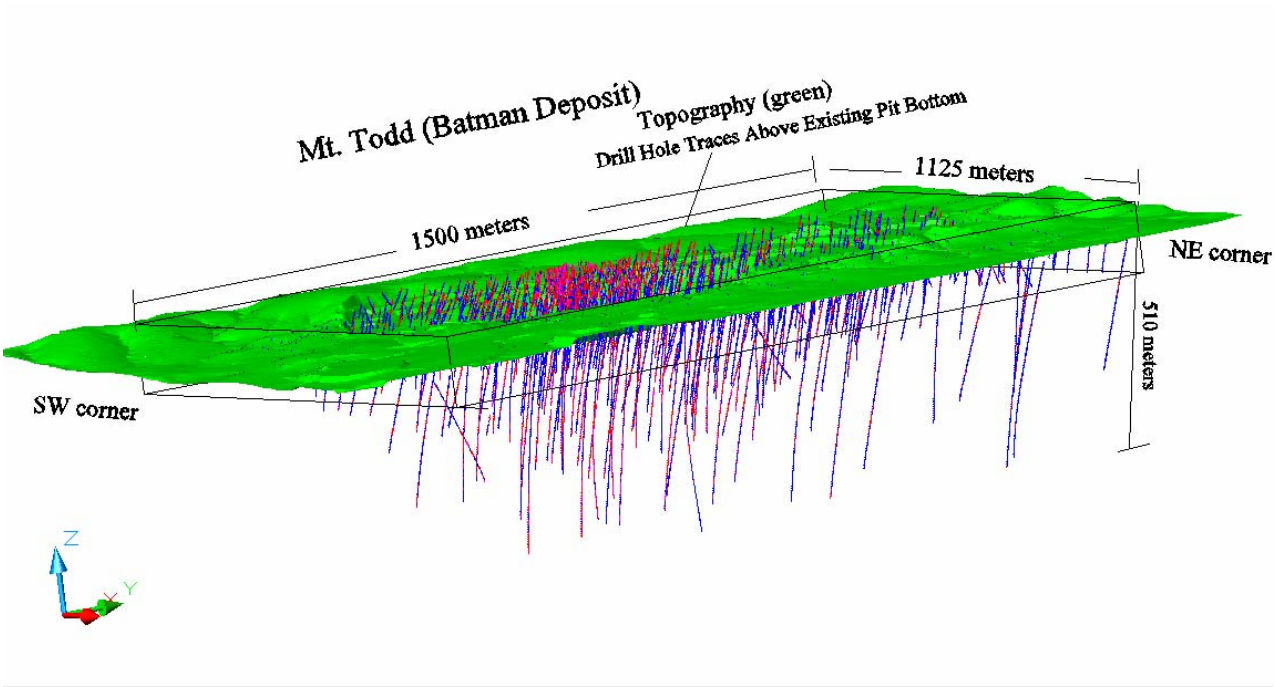


FIGURE 17-8: Key Map of the Batman Deposit

Bedding parallel shears are present in some of the shale horizons (especially in lithologic units SHGW23, GWSH23, and SH22). These bedding shears are identified by quartz/ calcite sulfidic breccias. Pyrite, pyrrhotite, chalcoprite, galena, and sphalerite are the main primary sulfides associated with the bedding parallel shears.

East-west trending faults and joint sets crosscut bedding. Only minor movement has been observed on these faults. Calcite veining is sometimes associated with these faults. These structures appear to be post mineralization.

Northerly trending quartz sulfide veins and joints striking at 0° to 20°, dipping to the east at 60° are the major location for mineralization in the Batman Deposit. The veins are 1 to 100 mm in thickness with an average thickness of around 8 to 10 mm. The veins consist of dominantly quartz with sulfides on the margins. The veining occurs in sheets with up to 20 veins per horizontal meter. These sheet veins are the main source of mineralization in the Batman Deposit.

The mineralization within the Batman Deposit is directly related to the intensity of the north-south trending quartz sulfide veining.

Sulfide minerals associated with the gold mineralization are pyrite, pyrrhotite and lesser amounts of chalcopyrite, bismuthinite and arsenopyrite. Galena and sphalerite are also present but appear to be post gold mineralization and are related to calcite veining bedding and the east-west trending faults and joints.

There have been several previous resource studies, with the most recent being GGC in the year 2000, Snowden in 1997, PAH, in 1995 and Pegasus (MRT) also in 1995. The PAH study was a Due Diligence Review of Mt Todd. In their report, PAH recommend that the down-hole assay data be composited to 4 m. PAH examined the variogram interpretations by Pegasus for their Mt Todd Feasibility Study. PAH concluded that Pegasus (MRT) interpreted variogram ranges to be too long and the variogram nugget effect was too low. The report commented:

> *" … the Feasibility Study…(had) … interpreted a second structure to the variogram data that extends the range significantly beyond the more obvious range, working on a portion of the structure that represents ten percent of the total sill (PAH, 1995).*

The present review by Tt finds that GGC's variogram modeling has the same problems. GGC's variograms were modeled with multiple nested structures, all within the last 10% of the sill. While GGC appears to have followed PAH recommendation in using log-variography, this may have contributed to GGC overestimating the variogram ranges, which in turn were used to specify overly optimistic search ellipsoids sizes, which were used in kriging. A final PAH recommendation that indicator kriging be used was explored by GGC. In the end, GGC used ordinary kriging (OK) with log-variograms on the exploration data for their kriged block model. Tt has also used ordinary kriging for the development of our independent resource estimate for the Batman Deposit.

GGC compared mineralized zones with each other and with the simplified lithological zones. The mineralized zones showed a straight-line graph (i.e., lognormal distribution), with hangingwall and footwall having lower grades than the core zone, suggesting that the sample populations are similar with a lower mean. For this reason, GGC decided to do the variography on the lithology zone (apart from Zones 3 and 4 in the footwall and core zones). GGC separated the sample codes and block model codes into ten zones for variography and interpolation (TABLE 17-12). The Tt study focused primarily on Zones 1, 2, 3, 3a and 5 for detailed review.

TABLE 17-12
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Gold Variography And Interpolation Domains – Batman Deposit
May 2008

zone	description	Block model codes	Sample codes
Os1	Outside mineralized zones in lithological zone 1	1,2,3,4,5	1,
Os2	Outside mineralized zones in lithological zone 2	6,	2,
Os3	Outside mineralized zones in lithological zone 3	7,8	3,
Os4	Outside mineralized zones in lithological zone 4	9, 10, 11, 12, 13, 3010, 3011, 3012, 3013	4,
Os5	Outside mineralized zones in lithological zone 5	14, 15, 16, 17, 18, 3014, 3015, 3016 , 3017, 3018	5,
Zone1	Mineralized zones in lithological zone 1	1001, 1002, 1003, 1004, 1005, 2001, 2002, 2003, 2004, 2005, 3001, 3002, 3003, 3004, 3005	10001, 20001, 30001
Zone2	Mineralized zones in lithological zone 2	1006, 2006, 3006	10002, 20002, 30002
Zone3	Mineralized zones apart from hanging wall in lithological zones 3 and 4	1007, 1008, 1009, 1010, 1011, 1012, 1013, 2007, 2008, 2009, 2010, 2011, 2012, 2013	10003, 10004, 20003, 20004
Zone3a	Hanging wall zone in lithological zone 3	3007, 3008, 3009	30003,
Zone5	Mineralized zones apart from hanging wall in lithological zones 5	1014, 1015, 1016, 1017, 1018, 2014, 2015, 2016, 2017, 2018	10005, 20005

The statistics for the ten Interpolation Domains are shown in TABLE 17-13. These ten domains were further studied with variogram analysis. GGC used a computer program called Visor to analyze the variograms. Tt broke out the statistical analysis using different codes based on the previously discussed LOZ coding. It was determined that there are 96 possible combinations of Complith (6 = Codes 0, 1, 2, 3, 4, 5), Compox (4= Codes 0, 100, 200, 300) and Compzone (4= codes 0, 1000, 2000, 3000).

TABLE 17-13
VISTA GOLD CORP. - MT TODD GOLD PROJECT
Summary Normal Statistics (pre-2007) - Interpolation Domains - GGC Model
May 2008

Zone	Os1	Os2	Os3	Os4	Os5	Zone1	Zone2	Zone3	Zone3a	Zone5
Count	296	2064	837	1703	5346	1353	7450	650	294	2175
Maximum (g Au/t)	1.868	6.628	6.22	10.59	7.27	6.75	15.37	7.88	5.33	7.88
Minimum (g Au/t)	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Mean (g Au/t)	0.098	0.247	0.297	0.453	0.32	0.436	0.866	0.796	0.526	0.593
Median g Au/t)	0.05	0.155	0.175	0.265	0.195	0.294	0.673	0.592	0.323	0.429
Std dev	0.16	0.365	0.44	0.685	0.436	0.543	0.865	0.815	0.664	0.633
Coeff var	1.66	1.478	1.48	1.513	1.361	1.208	0.96	1.024	1.262	1.067
97.5 %tile	0.9	0.98	1.1	1.95	1.38	1.77	3.04	2.72	2.33	2.35
99 %tile	1.7	1.43	1.75	3.94	2.09	2.77	4.1	4.05	3.74	3.22

The spread of gold grades at each Complith (Lith designation) is shown in FIGURE 17-9. The small box encloses the mean, and the larger box all values within one standard error of the mean. The "whiskers" represent composites with a range of values that go from 1.96 times the standard error (SE). Note that the highest mean grade is within Complith Code 2, which has an average value above 0.70 g Au/t.

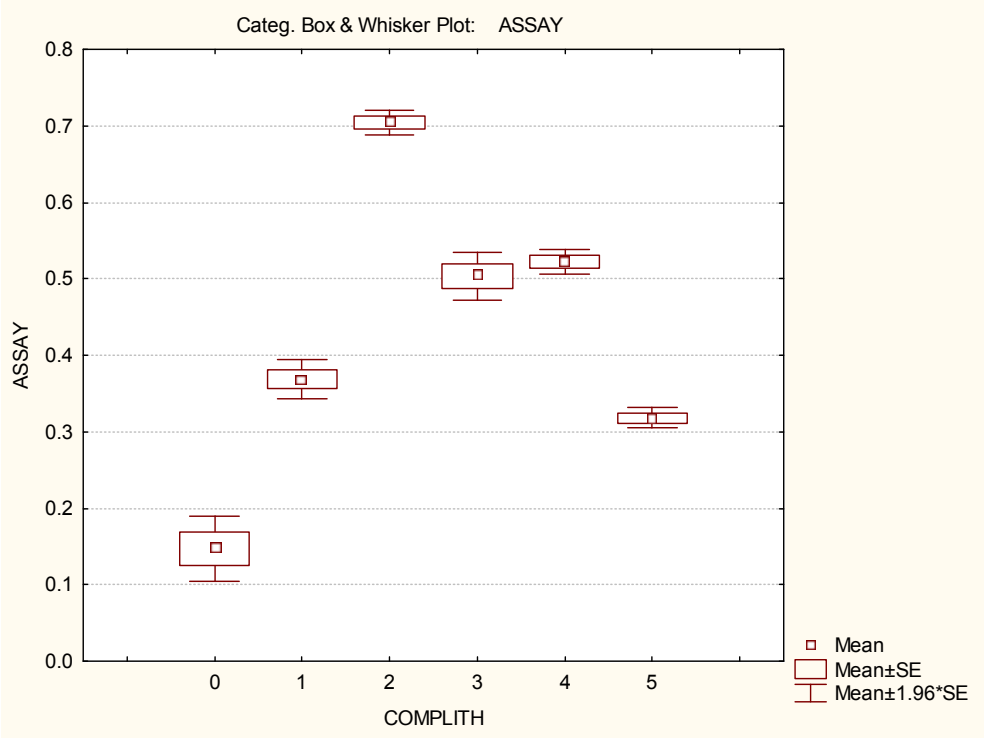


FIGURE 17-9: Box and Whisker Plot of Gold Assay versus Complith (Tt Analysis)

A more detailed box-and-whisker plot breaks out gold grades by Complith Codes 1 through 5 and by Zone codes 0 and 10000 through 30000. Note that the highest grades are again in Complith 2, with zone 10000 having averages approaching 1.2 g Au/t.

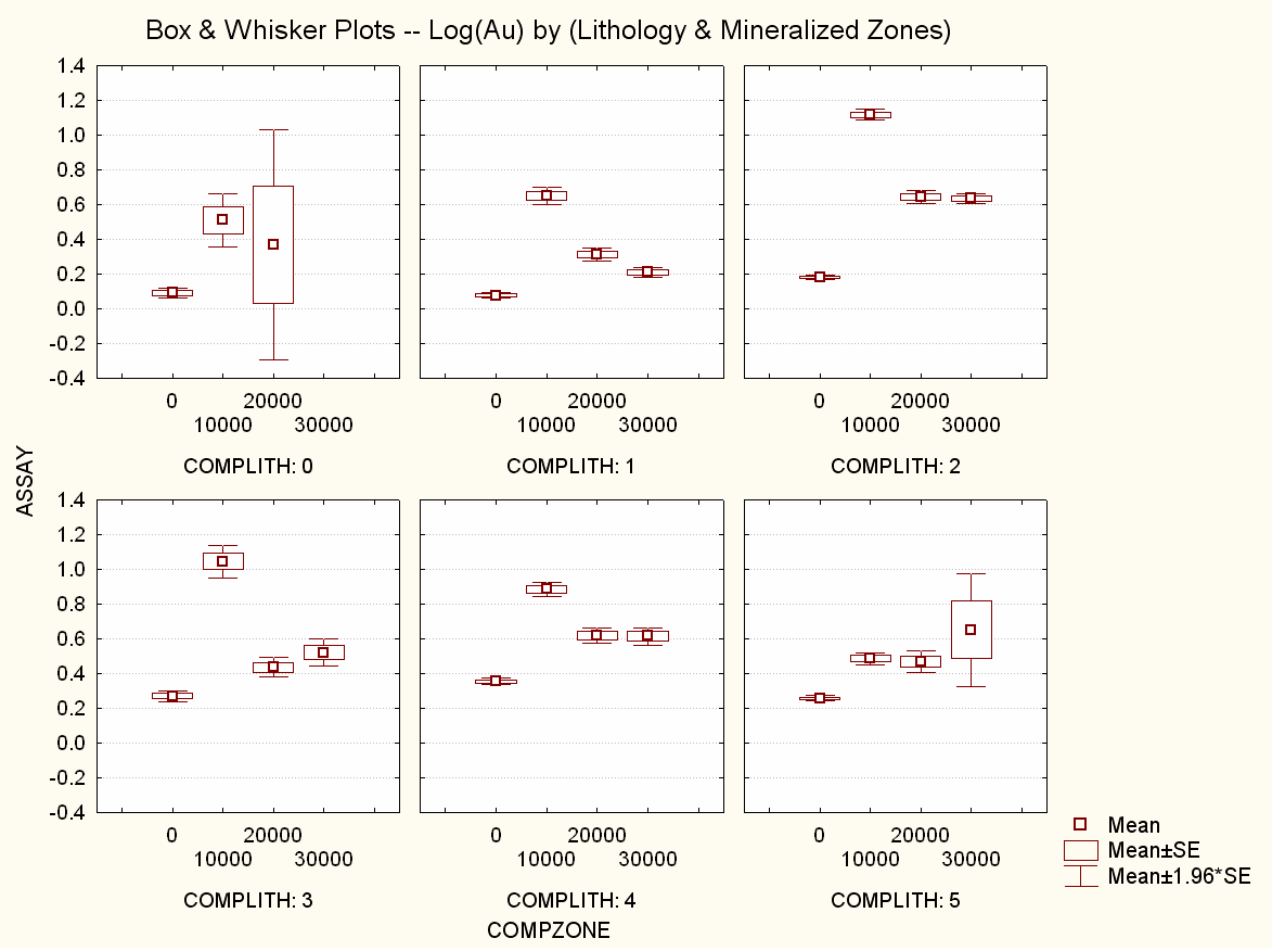


FIGURE 17-10: Box and Whisker Plot of Gold Assay versus Complith, and Zone (Tt Analysis)

Looking north in FIGURE 17-11, shows the majority of the drill holes slanting approximately 65^{o} to the west. In the following variogram analysis, drill data that are in areas that have been mined are not discarded. The information of the missing data is still useful in producing spatial statistics for application to the remaining mineralization.

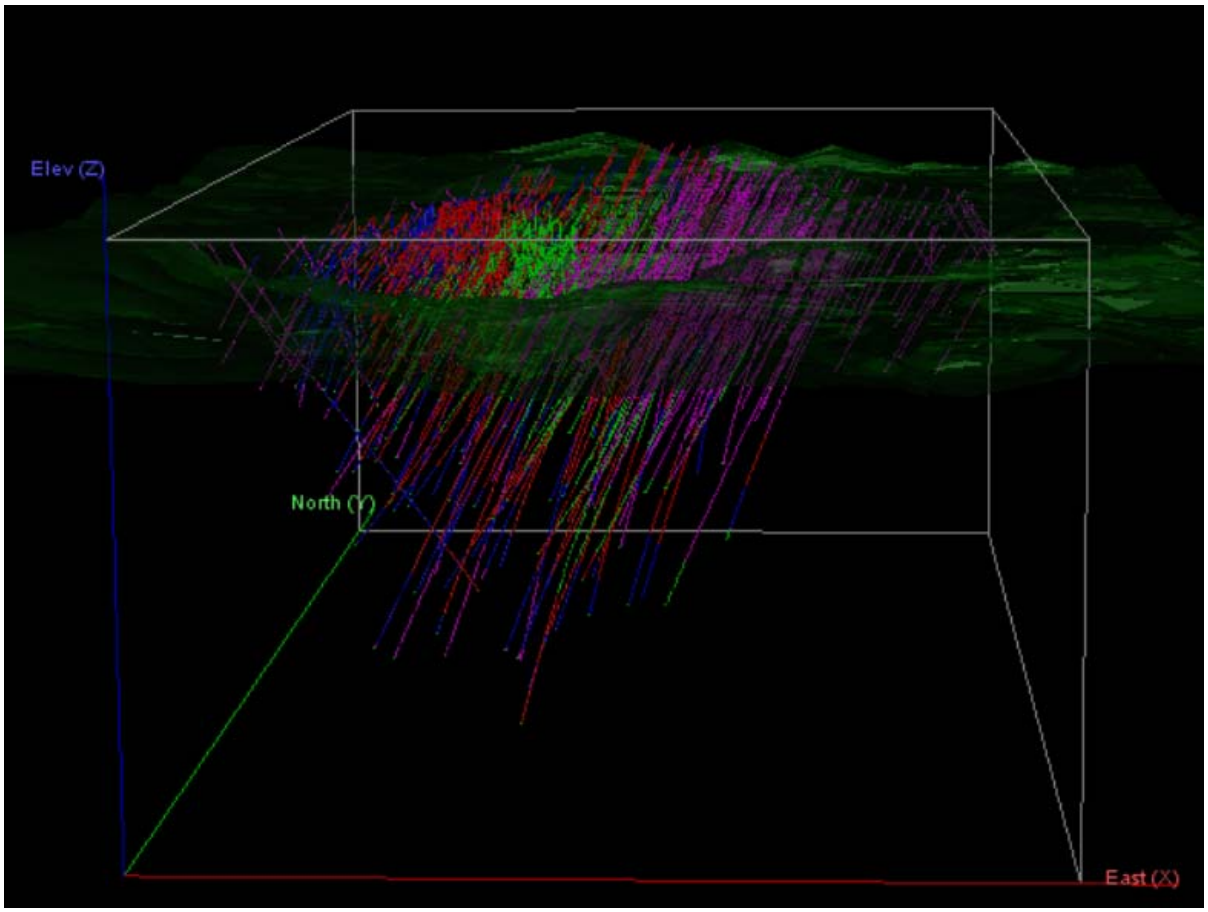


FIGURE 17-11: Drilling Pattern, looking north shown with GEMCOM software.

TABLE 17-14 contains ten LOZ codes that contain more than 70% of gold content of the Batman Deposit. In fact, the LOZ code 10302 contains over 20% of the total gold content. Within this particular LOZ code, the highest gold value of 15.373 g Au/t was analyzed.

TABLE 17-14
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Top 10 Groups of LOZ with Greater than 70% of Gold Content – Batman Deposit (pre-2007)
May 2008

Rank	Lith Code	Ox Code	Zone	Assay Mean g Au/t	No. Assay	proxy metal content g*t	% of Total gold	Assay Std. (g Au/t)	Assay Min. (g Au/t)	Assay Max. (g Au/t)	Assay Q25 (g Au/t)	Assay Median (g Au/t)	Assay Q75 (g Au/t	%tile	%tile
									.	.				95	99
1	2	300	1000	1.223	2169	2653.1	20.10%	1.022	0.005	15.373	0.578	0.973	1.573	3.01	4.9
2	4	300	1000	0.919	1266	1163.7	8.80%	0.823	0.045	6.818	0.42	0.665	1.1	2.598	3.888
3	2	100	1000	1.117	889	993.3	7.50%	0.723	0.015	7.105	0.635	0.95	1.48	2.38	3.665
4	4	300	0	0.369	2670	984.6	7.50%	0.568	0.005	10.595	0.085	0.215	0.438	1.195	2.833
5	2	300	3000	0.678	1235	837	6.30%	0.736	0.005	6.725	0.203	0.45	0.885	2.13	3.49
6	2	300	2000	0.608	1182	718.3	5.40%	0.782	0.005	12.115	0.16	0.399	0.768	1.905	3.85
7	4	300	2000	0.648	755	489.1	3.70%	0.692	0.015	7.78	0.238	0.448	0.808	1.905	3.503
8	2	200	1000	1.121	334	374.3	2.80%	0.72	0.009	4.225	0.62	0.985	1.475	2.605	3.517
9	3	300	1000	1.13	313	353.6	2.70%	0.958	0.115	7.88	0.578	0.875	1.35	2.648	4.548
10	2	100	2000	0.711	475	337.5	2.60%	0.606	0.01	4.363	0.303	0.57	0.92	1.953	2.958
	Top 10 Groups			0.789	11288	8904.6	71.70%			15.373					
	All Groups			0.581	22709	13183.1	100.00%	0.732	0.005	15.373	0.133	0.348	0.76	1.91	3.517
notes:							top 10			>10 Au g Au/t					
							% metal								

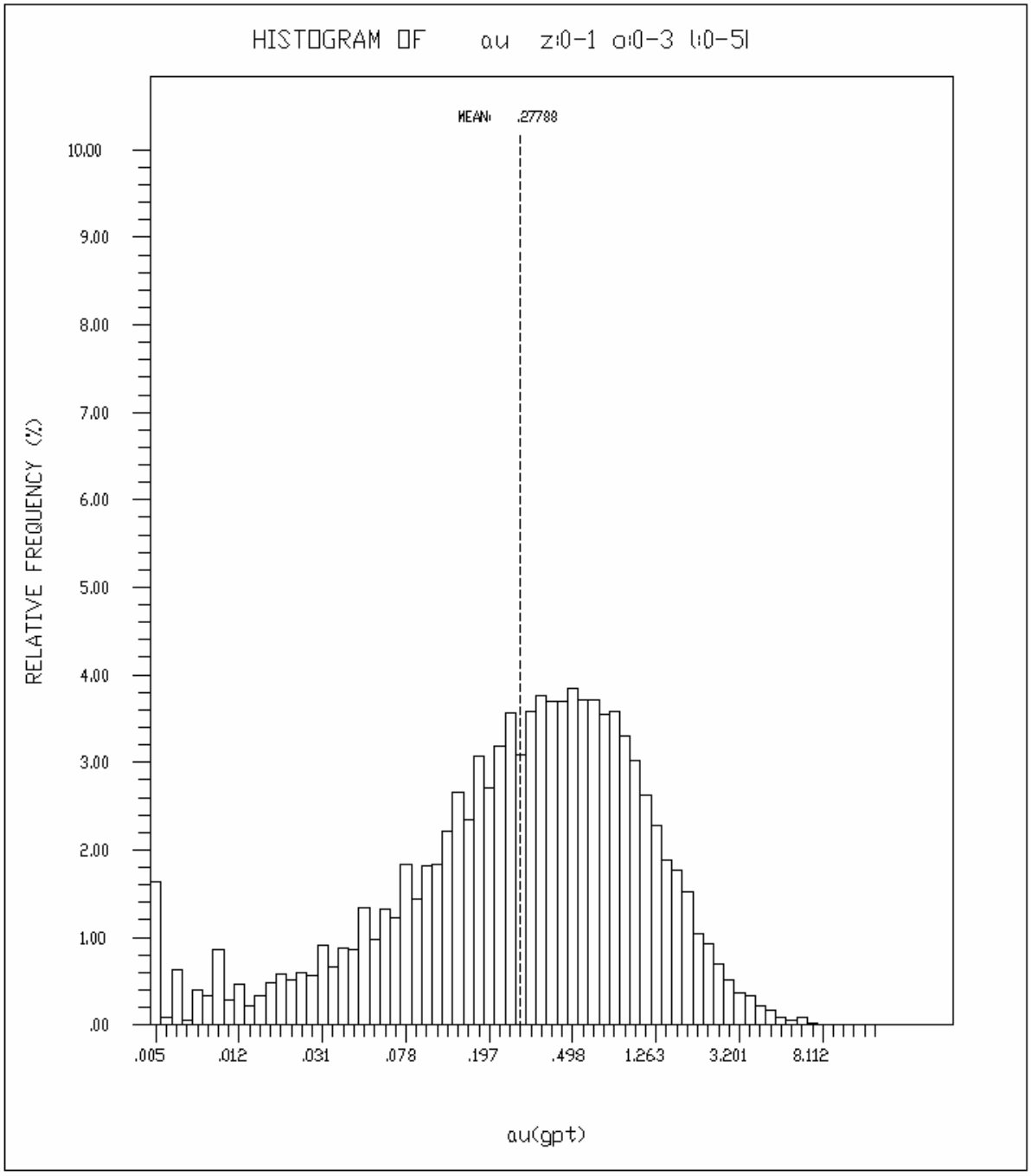


FIGURE 17-12: Histogram of Au in g Au/t for all LOZ.

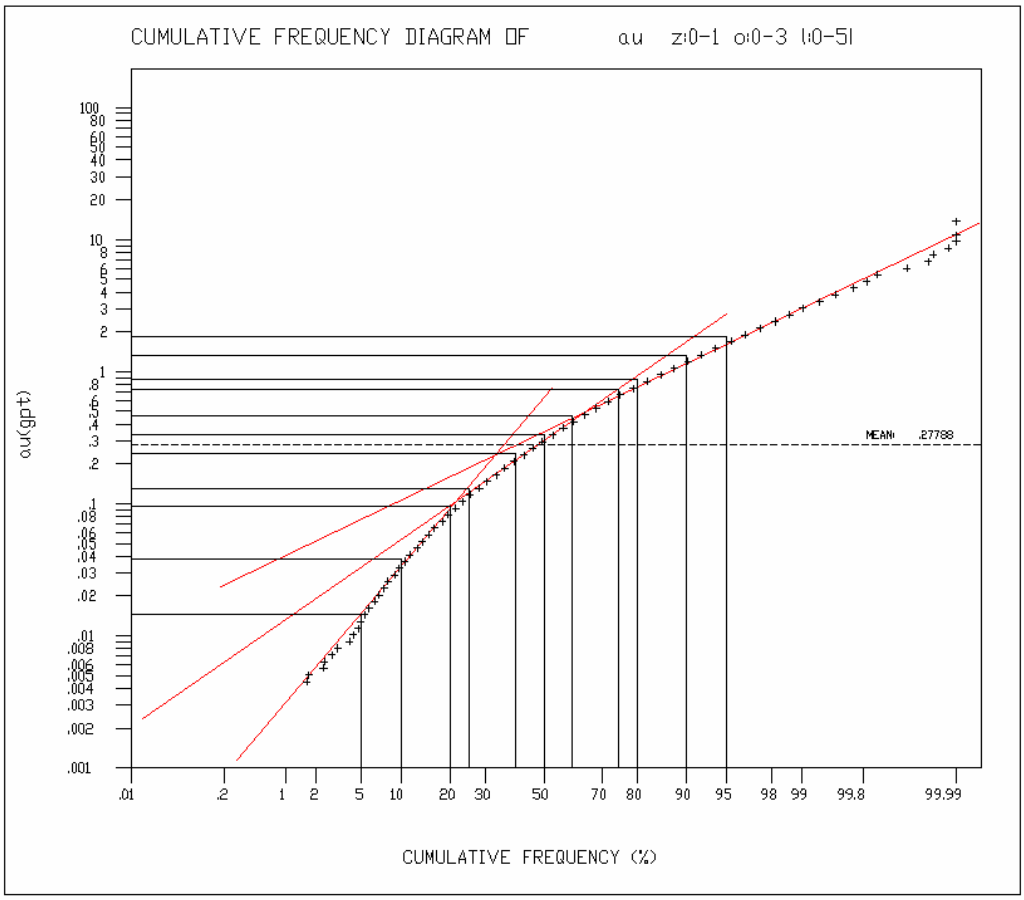


FIGURE 17-13: Cumulative Probability Plot of Gold Grades in g Au/t for all LOZ.

FIGURE 17-12 shows a histogram of g Au/t for all LOZ classes. The height of the vertical bars charts the relative frequency (y-axis) of composites falling within grade classes (x-axis). Note that the grade classes (bins) are log scaled. FIGURE 17-13 charts the same data on a log-probability plot. This is a specialized form of a cumulative frequency plot such that a lognormal distribution will plot as a straight line. A break from a normal curve occurs around 0.1 g Au/t. The gentle flexure of the curve exists above 0.1 Au g Au/t. A second break point has been modeled at 0.5 g Au/t. TABLE 17-15 lists the statistics of the curve, with 5% of the gold is below 0.15 g Au/t, 20% below 0.095 g Au/t and 95% below 1.83 g Au/t. FIGURE 17-14 shows the cumulative probability plot of a three-parameter lognormal model, with 0.1 g Au/t as the third parameter. Note that the curve is essentially a straight line, implying a single mode, lognormal distribution.

TABLE 17-15
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Gold Statistics All LOZ – Batman Deposit
March 2008

```
mt-todd au z:0-1 o:0-3 l:0-5|
au  z:0-1 o:0-3 l:0-5|
Limits on the variable  : ** NONE **
Limits on the data axis : -.5403678E+01  .2732580E+01
Limits on the freq axis :  .0000000E+00  .3848694E+01

SAMPLES DISTRIBUTION INFORMATIONS
Number of samples     :         22709
Samples under minimum :             0
Samples over maximum  :             0
Missing values        :             0
Out by restrictions   :             0
Out by logarithm      :             0
Minimum               :              .00450
Percentile   5%       :              .01463
            10%       :              .03848
            20%       :              .09573
            25%       :              .12877
            40%       :              .23978
            50%       :              .33697
            60%       :              .46070
            75%       :              .73707
            80%       :              .86924
            90%       :             1.31928
            95%       :             1.83121
Maximum               :            15.37250


STATISTICS INFORMATION                    LOGARITHMIC STATISTICS

Samples kept  :     22709                 Samples kept  :     22709

Median        :              .33697       Median        :           -1.08775
Average       :              .58052       Average       :           -1.28055
Mode          :              .49844       Mode          :            -.69627
Variance      :              .53522       Variance      :            2.01357
Std deviation :              .73159       Std deviation :            1.41900
Coefficient                               Coefficient
of variation  :             1.26021       of variation  :           -1.10810
Skewness      :             3.69785       Skewness      :            -.77127
Kurtosis      :            30.47623       Kurtosis      :            3.42226
```

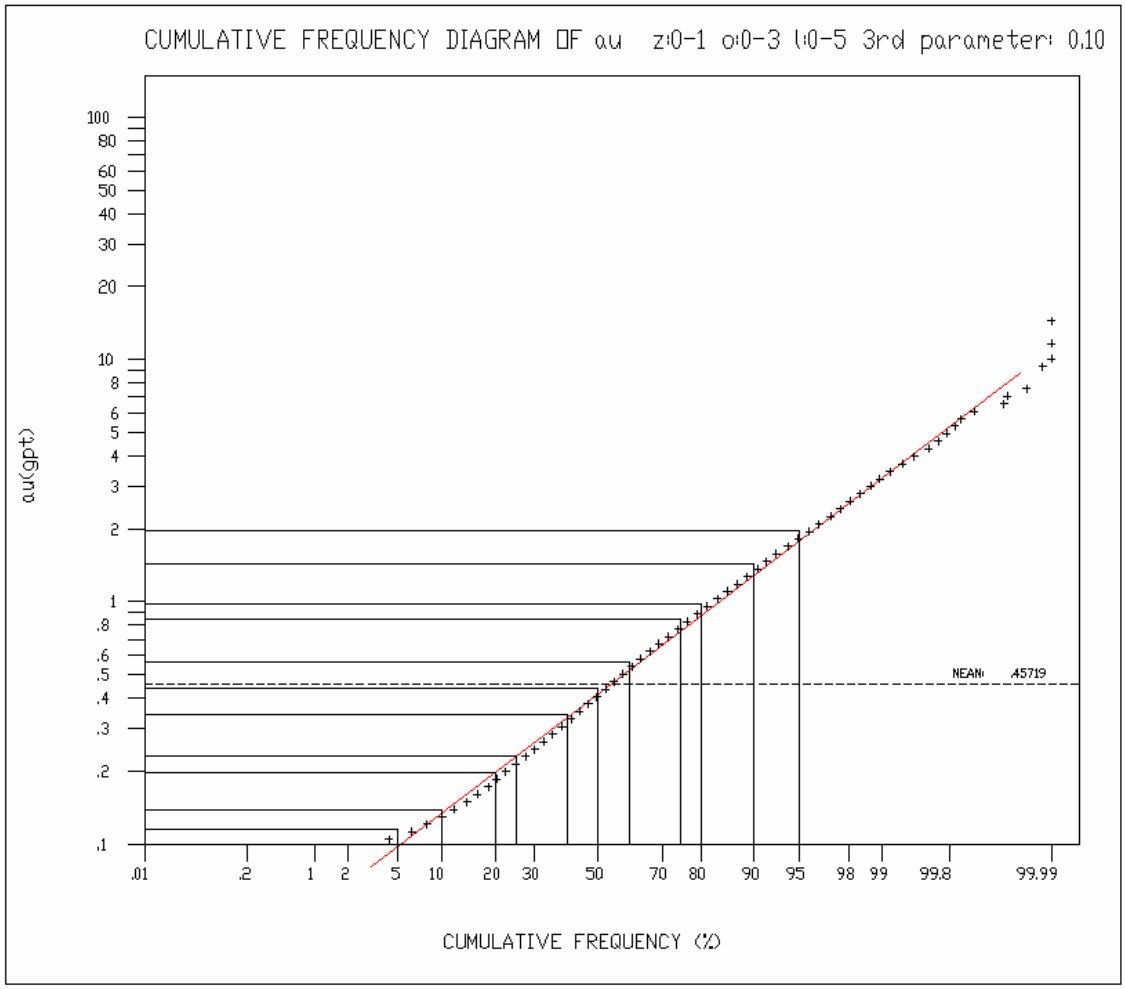


FIGURE 17-14: Cumulative Frequency Diagram of 3-parameter Lognormal Distribution for Gold with all LOZ Composites.

Variography

MicroModel® was used to calculate 3-D variograms. FIGURE 17-15 contains examples of these variograms. Gold grades were log transformed before the variograms were calculated. They were then back transformed into relative variograms.

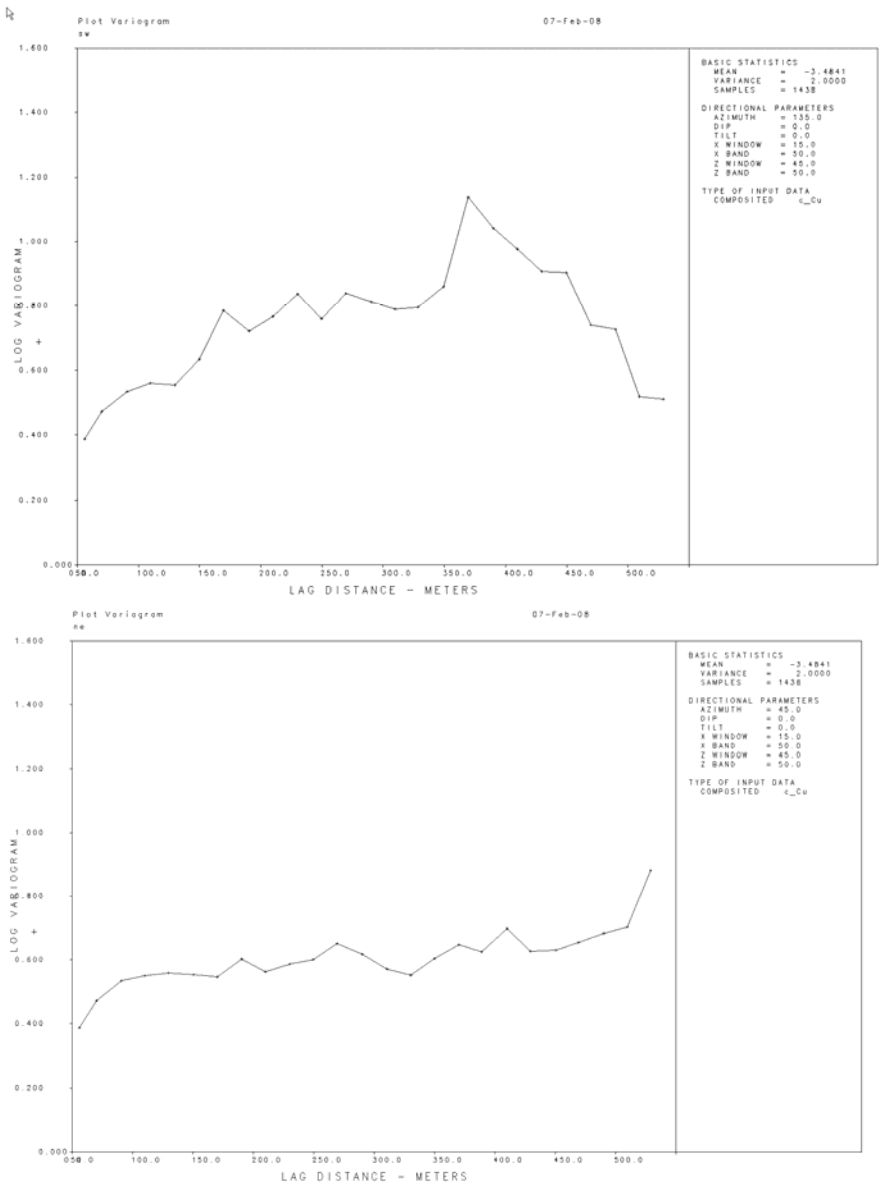


FIGURE 17-15: General Relative Gold Variograms looking in the 3-D (Top variogram looking Az:135, Dip: 45 and Bottom variogram Az:45, Dip: 0)

FIGURE 17-16 is an extract of the printer listing from Micro Model®. It shows the logarithmic variograms in the 0° directions, with a 90° angular window. The nugget for the log variogram is 60% of the sill, and the range is 50 m.

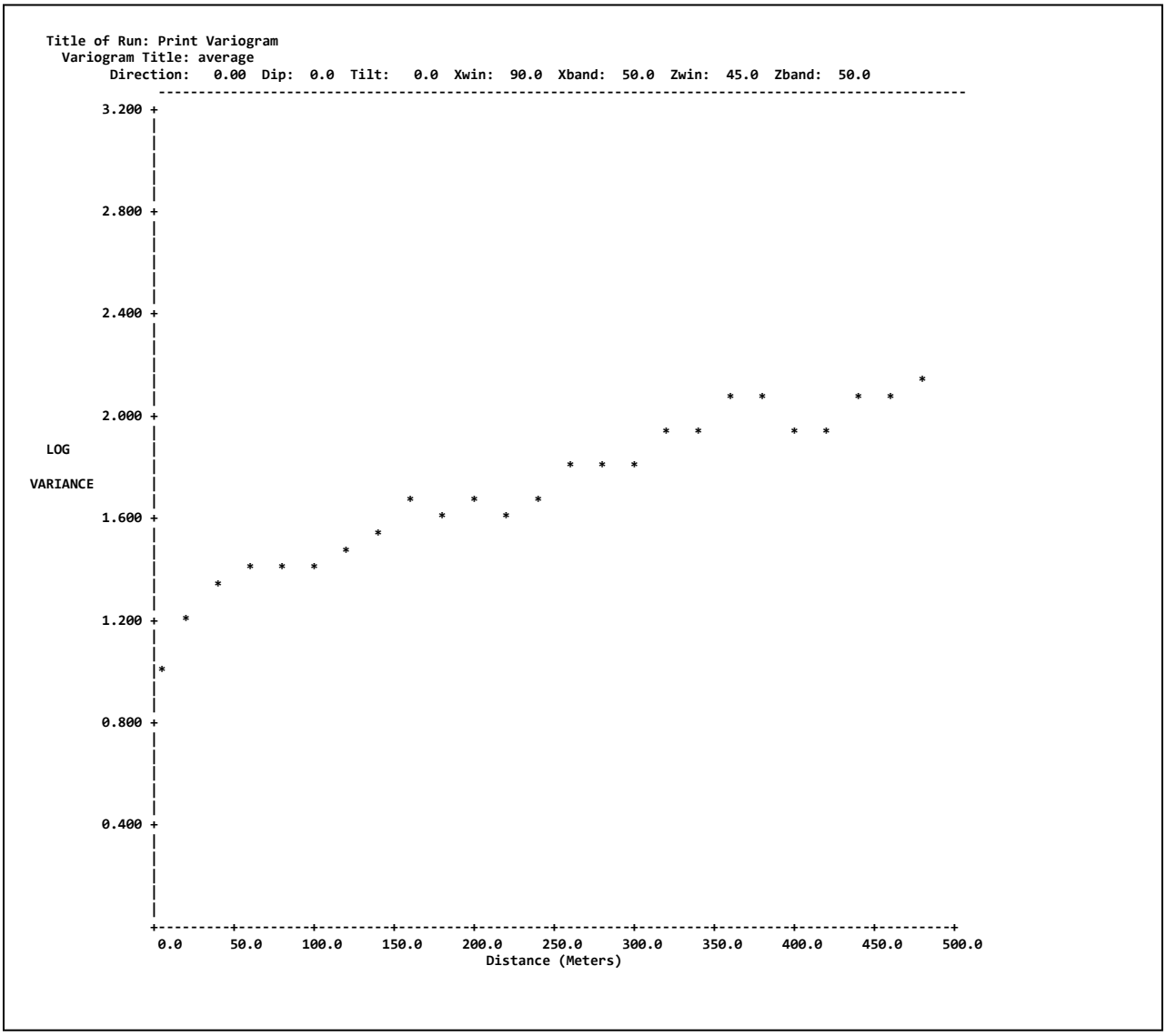


FIGURE 17-16: Printer Output of a Logarithmic Variogram for LOZ

TABLE 17-16 contains the variogram parameters written in red, which were modeled by Tt. In general, the variograms ranges used by GGC are almost three times longer than those modeled by Tt. In addition, the Tt modeled variogram structures as a simple nugget of 60% of the sill and single spherical curve, while GGC tended to have multiple nested variogram structures in the last 10% of the sill. GGC utilized Visor, an automatic variogram modeler. It is noted by GGC that GEMCOM has a limit of 8 variogram structures. At times Visor defined up to 10 structures. The GGC variogram range issue becomes doubly important in that it is used to specify the search ellipse. GGC's search parameters are typed in black and Tt in red.

Octant Search, Target Codes, and Ellipsoids

GGC used a minimum of 4 sample points and a maximum of 30 sample points for kriging within an ellipsoid search. Tt used a minimum of 3 sample points and a maximum of 12 sample points. Tt, as well as other independent consultants, believes that the maximum of 30 points is "over-smoothing" the grade model and providing an inaccurate picture of the actual distribution and tenor of the mineralization.

TABLE 17-16 also contains the target code for blocks and the required LOZ code for composites for each interpolation zone. For example, a zone3ok has block codes 1007, 2007,1008, 2008, 1009, 2009, 1010, 2010,1011, 1011, 1012, 2012, 1013, 2013, 3007, 3008, or 3009. Only Composites with LOZ codes 10002, 20002, 10001, 20001, 30001, 10003, 20003, 30004, 10004, or 20004 that fall within the search ellipse and meet the octant search criteria can be to estimate the block. The codes in red were found missing from GGC's technical write-up of their kriging procedure. FIGURE 17-17 is a GEMCOM generated "photo" that illustrates the matching that takes place between the drill hole composites and the block model.

Note that GEMCOM uses ZYZ (relative rotation) rotation method to specify 3-D orientation of both variogram anisotropy and search ellipsoids. MicroModel® uses an orientation scheme such that the ellipsoid axes are referenced to true coordinates in space. FIGURE 17-18 shows a set of rectangular boxes that would contain search or anisotropy ellipsoids. Generalized size and orientation of search ellipsoids are shown from various 3-D views-the large rectangular box would enclose GGC and the larger ellipsoid used to estimate inferred blocks. The small rectangular box is 1/3 the larger one's size. It would enclose the search ellipsoid that is used to estimate measured and indicated blocks. The cube represents the scale and orientation of a 12x12x12 m mining block. The line intersecting large block illustrates general drill-hole direction. (Left panel is a SW view; top right panel is a NE view and bottom right panel is a top view.)

TABLE 17-16
VISTA GOLD CORP. – MT TODD GOLD PROJECT
GGC versus Tt Search and Variogram Parameters – Batman Deposit
May 2008

Kriging Profile	Block Model target rock codes	Composite File sample rock codes	Zrot	Yrot	Zrot	r1 (m)	r2 (m)	r3 (m)	Co	C1
os1ok	1, 2, 3, 4, 5	1, 2, 30001, 20001	165	85	-5	**150** **168**	**105** **63**	**60** **18**	**0.60**	**0.40**
os2ok	6	1, 2, 3, 30002, 20002	170	105	-30	**150** ***228***	**105** **45**	**60** **29**	**0.60**	**0.40**
os3ok	7,8	2, 3, 4, 30003, 20003	-10	90	-20	**150** 44	**105** 22	**60** 18	**0.60**	**0.40**
os4ok	9, 10, 11, 12, 13, 3010, 3011, 3012, 3013	3, 4 ,5, 30004, 20004	-144	50	-70	**150** 46	**105** 5	**60** 14	**0.60**	**0.40**
os5ok	14,15,16,17,18, 3014, 3015, 3016, 3017, 3018	4, 5, 30005, 20005	175	109	-9	**150** **169**	**105** **64**	**60** **53**	**0.60**	**0.40**
zone1ok	1001,2001,3001,1002,2002, 3002, 1003,2003, 3003,1004,2004, 3004, 1005, 2005, 3005	10001, 20001, 30001,10002, 20002, 30002	**170**	**-80**	**-30**	**50** **121**	**35** **41**	**20** **18**	**0.60**	**0.40**
zone2ok	1006.2006, 3006	10002, 20002, 30002, 10001, 20001, 30001, 10003, 2000, 30003	**170** **165**	**-80** **100**	**-30**	**50** ***128***	**35** ***98***	**20** ***29***	**0.60**	**0.40**
zone3aok	3007, 3008, 3009	10002, 30002, 10004, 30004, 30003, 10003, 3, 4	**170** **50**	**-80** **125**	**-30** **-80**	**50** ***36***	**35** ***30***	**20** **18**	**0.60**	**0.40**
zone3ok	1007, 2007,1008, 2008, 1009, 2009, 1010, 2010,1011, 1011, 1012, 2012, 1013, 2013, 3007, 3008, 3009	10002, 20002, 10001, 20001, 30001, 10003, 20003, 30004, **10004, 20004**	**170** **165**	**-80** **95**	**-30**	**50** **137**	**35** **122**	**20** **38**	**0.60**	**0.40**
zone5ok	1014, 2014, 1015, 2015, 1016, 2016, 1017, 2017, 1018, 2018	10004, 20004, 10005, 20005	**170**	**-80** **100**	**-20**	**50** **156**	**35** **130**	**20** **120**	**0.60**	**0.40**

Note: ZYZ rotation.

Key: **Red: Tt search and variogram parameters that are different**

Black: GGC search parameters unchanged

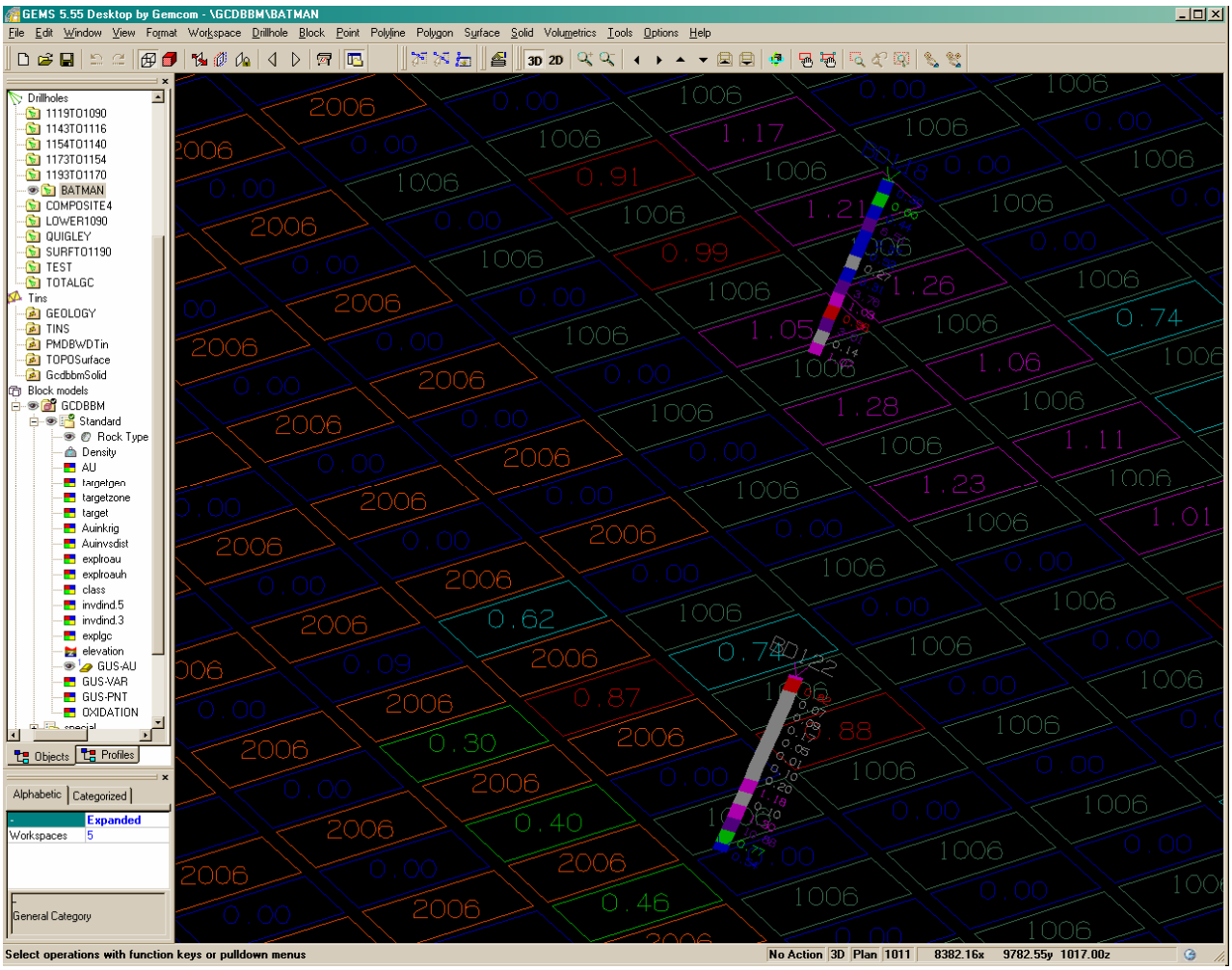


FIGURE 17-17: GEMCOM "photo" showing the process of matching composite codes to block model codes for kriging.

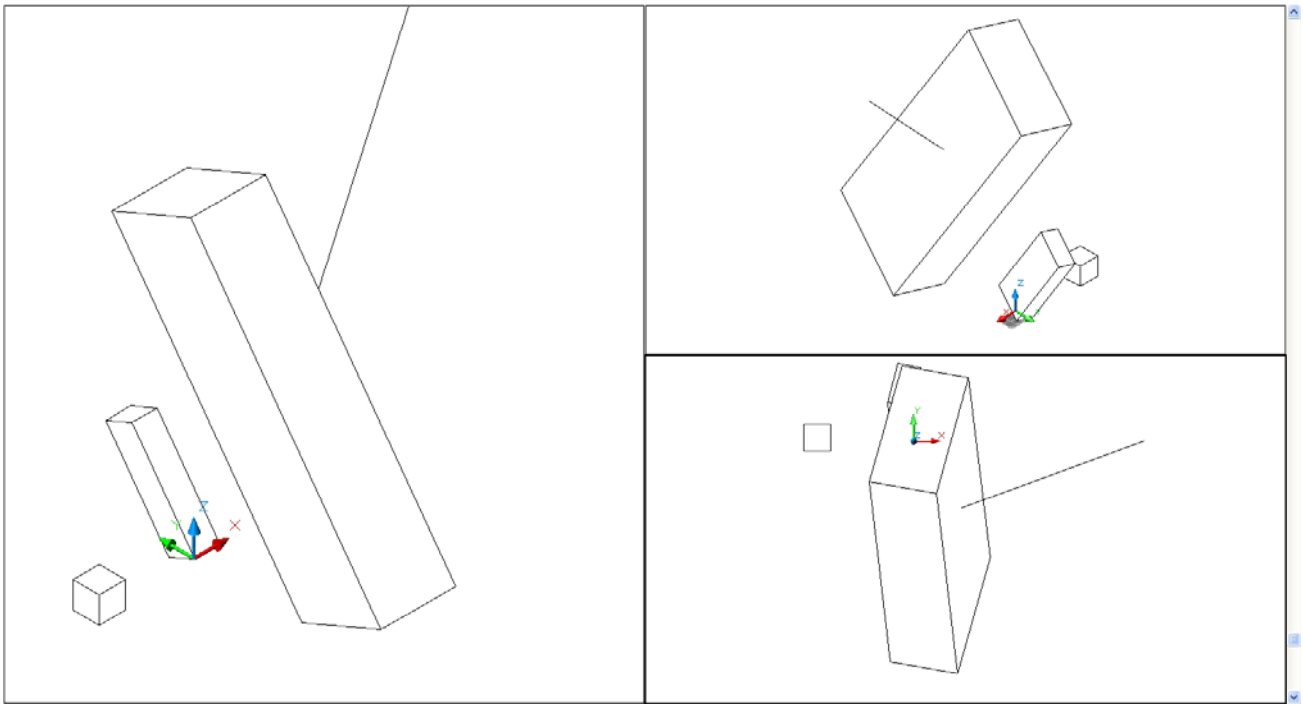


FIGURE 17-18: Generalized Size and Orientation of Gold Search Ellipsoids shown from various 3-D views-large rectangular box encloses GGC and Tt-JAL ellipsoid, smaller one encloses Tt-JAS search ellipsoid. Cube is drawn to represent scale and orientation of a 12x12x12 m mining block. Line intersecting large block illustrates general drill-hole direction. (Left panel is a SW view; top right panel is a NE view and bottom right panel is a top view.)

TABLE 17-17 provides a comparison between the GGC and the Tt gold grade models and the base data used to create them.

TABLE 17-17
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Comparison of GGC and Tt Block Models – Batman Deposit
May 2008

GGC. Explroau	OK using exploration data only. -- Long Ranges; multiple structures
Tt-JAL	OK using exploration data only. -- Long Ranges; two structures
Tt-JAS	OK using exploration data only. -- Short Ranges; two structures
Tt-HALO	HALO=JAL-JAS

Additional differences are as follows:

- GGC's Explroau model uses 4-m composited exploration data. It has been used as the template for the two Tt models. The first is the Tt-JAS that uses search ellipses specified in TABLE 17-13. During kriging the minimum distance of a valid sample point used in the estimate and the kriging variance were written out to a file. Analysis of the kriging variance using cumulative frequency plots shows a reasonable break at 0.30 krige_var. This kriging variance was chosen as the break between Measured

and Indicated resources. Only a small number of blocks are above 0.55 krige_var. Hence the break point of Inferred was found by producing the Tt-JAL model.

- The model Tt-JAL is similar to GGC's model in that the ranges are three times the values shown in TABLE 17-13. FIGURE 17-19 shows the relative difference in search ranges. Once again the minimum distance of a valid sample point used in the estimate and the kriging variance was written out to a file. The break between Measured and Indicated is when the closest sample is 10 m.
- The final step was to produce a Tt-HALO model by doing a Boolean subtraction of *Tt*-JAS from Tt-JAL (FIGURE 17-20). This leaves a void where blocks are for the most part measured and indicated. Blocks that remain with a krige_var less than 0.45 krige_var were classified as inferred.

TABLE 17-18 details the differences in the determination of the resource classification between the GGC and the Tt grade models. It is important to note that the Tt classification uses significantly shorter searches, fewer points, and incorporates the block variances.

TABLE 17-18
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Comparison of GGC and Tt Classification Criteria– Batman Deposit
May 2008

Resource Class	GGC Model	Tt Model
Measured (Class 30)	Within 25 m of data point. At least 16 samples used to estimate the block grade. At least 2 two drill holes used to provide data	**Core Model Kriging (JAS) within 50 m of data point and Unitized Relative Variance: < .30**
Indicated (Class 20)	Between 25 and 50 m of a data point. At least 10 samples used to estimate the block grade.	**Core Model Kriging (JAS) within 50 m of data point and Unitized Relative Variance: >= .30 & < .55**
Inferred (Class 10)	Greater than 50 m from a data point. At least 4 samples used to estimate the block grade	**Halo Model Kriging within 150 m of data point and Unitized Relative Variance: <= 0.45**

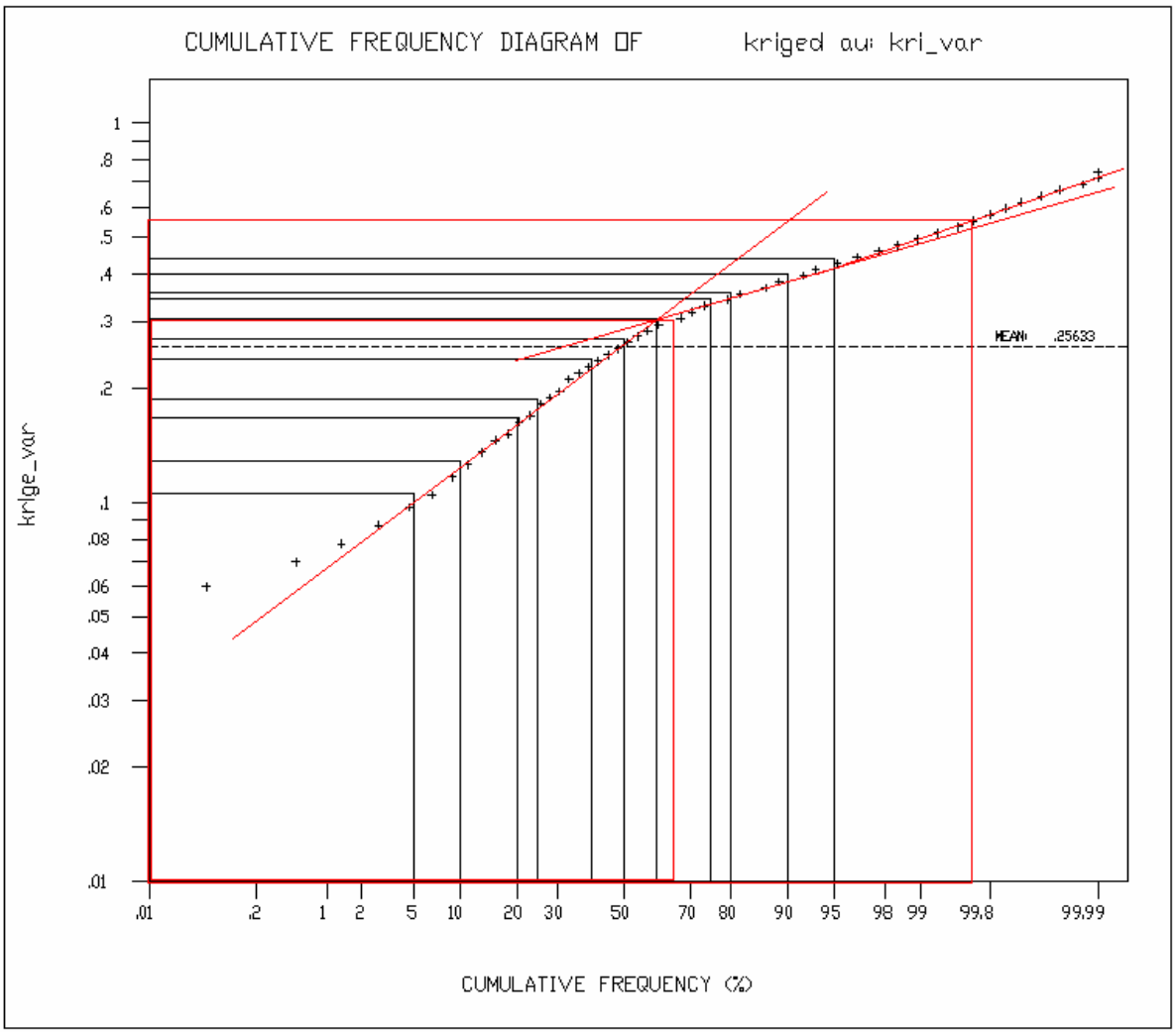


FIGURE 17-19: Cumulative Frequency Plot of Tt-JAS Kriging Variance. Measured to Indicated resource class at 0.30 krige_var. Indicated to Inferred resource class at 0.55 krige_var.

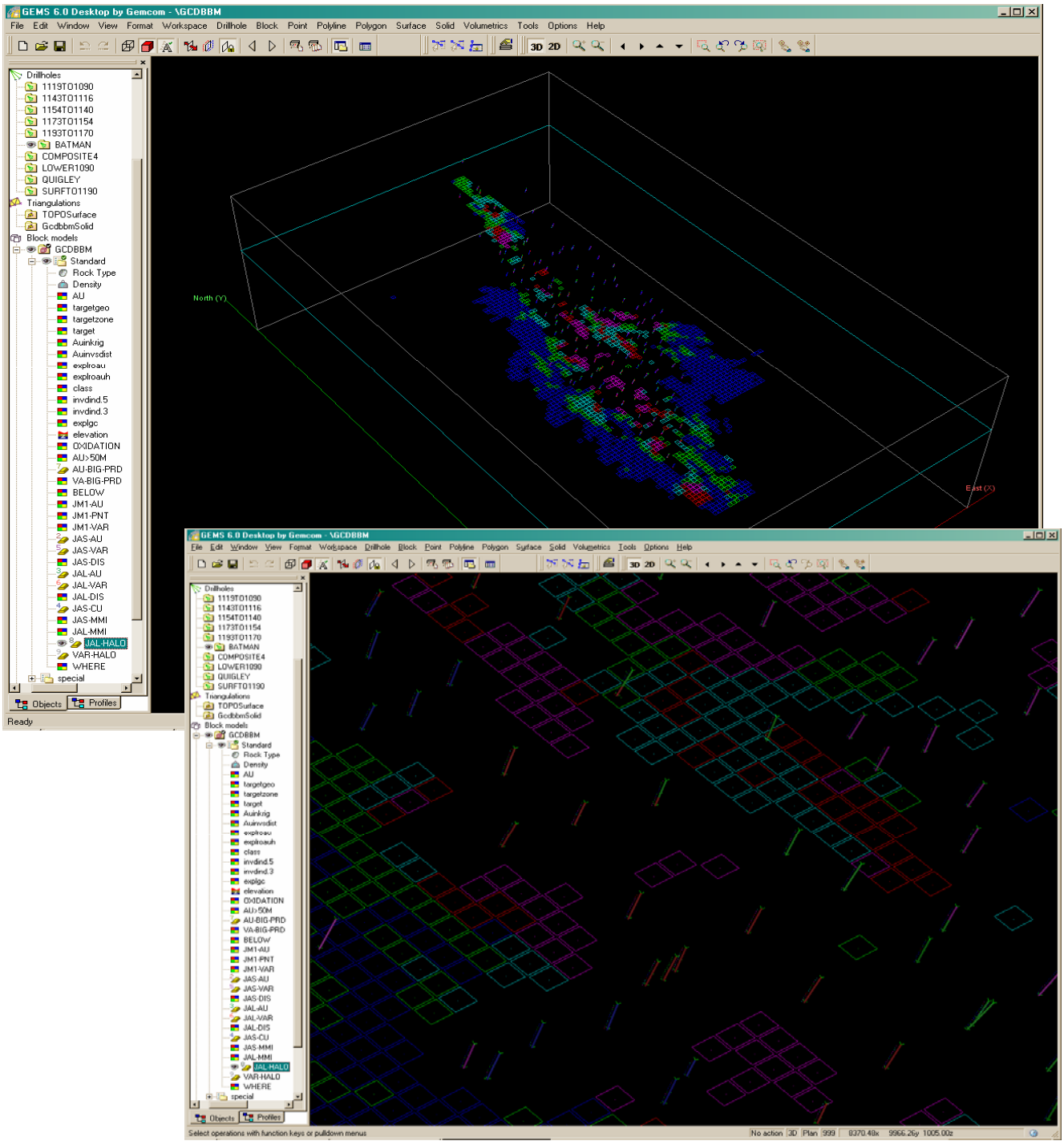


FIGURE 17-20: HALO, Tt-JAL minus Tt-JAS leaves a void where blocks are measured and indicated. Blocks that remain are inferred. Color of blocks going from blue to magenta indicates higher estimated grades. Strategy chosen for future sampling is to design a exploration program, which drills areas that have red and magenta blocks.

TABLE 17-19 shows a MicroModel printout of the statistics for the kriged gold grades (combined JAS and Halo models). The rock codes within the core (1000, 2000, and 3000) have been consolidated to simplify presentation. The final gold grades have a distribution that is skewed to towards lower grades but still lognormal-like in shape.

TABLE 17-19
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Basic Statistics on Kriged Gold Blocks by Zone and a Combined Histogram
May 2008

```
RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6
 CURRENT LABEL : (G107) Kriged Grade k_Au
  THIRD PARAMETER FOR LOG TRANSFORM =        0.000000
```

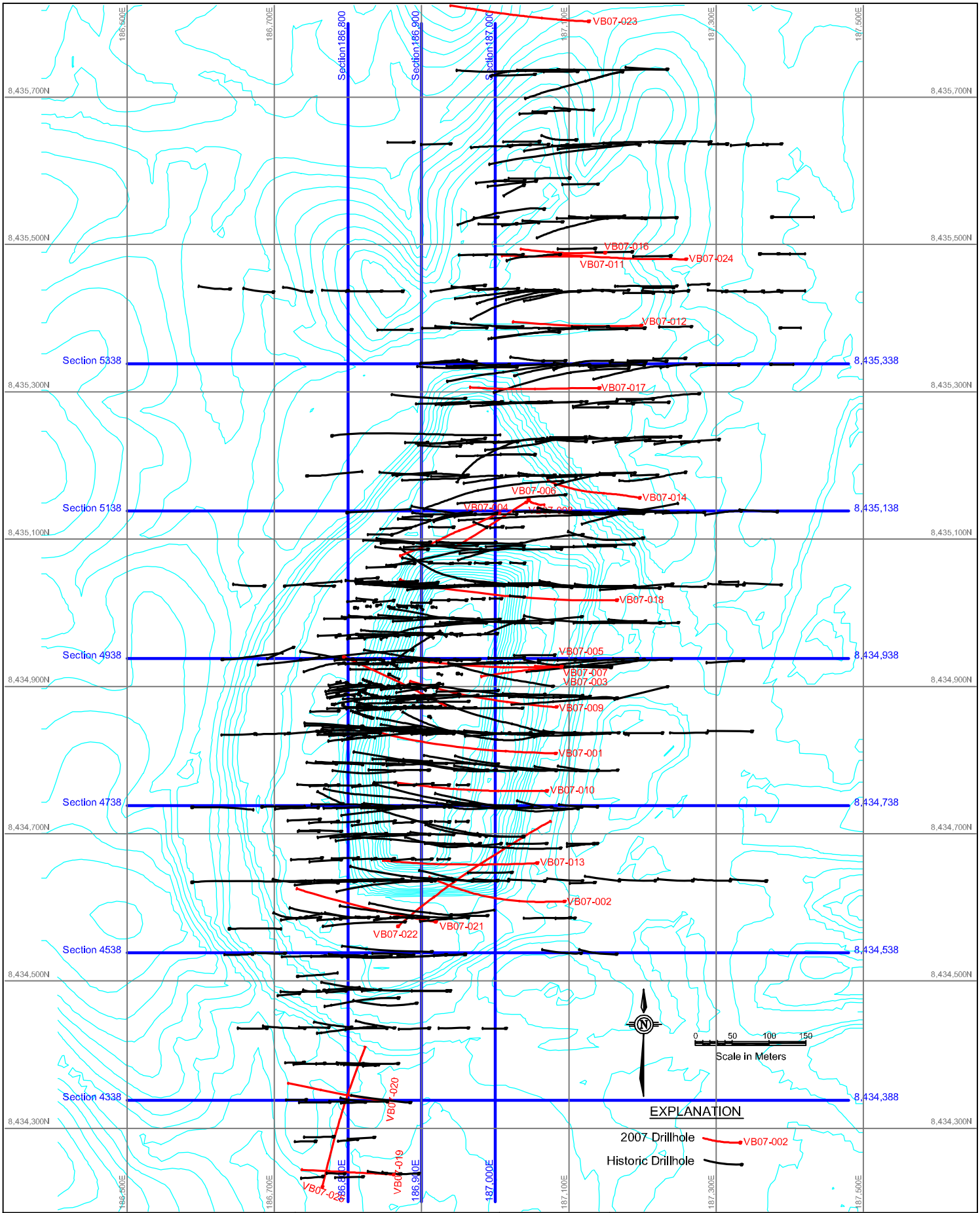
ROCK TYPE	BLOCK COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	106226	0	0	4732	0.00100	0.87800	0.11690	0.00463	0.06808	0.5824	-2.3610	0.6117	0.7821	0.1281	0.9185
2	1499	0	0	83	0.00900	0.71900	0.12282	0.01579	0.12566	1.0231	-2.5395	1.0030	1.0015	0.1303	1.3139
3	6466	0	0	322	0.00800	0.86700	0.13797	0.02270	0.15068	1.0921	-2.4511	1.0516	1.0255	0.1458	1.3647
5	14236	0	0	778	0.00300	0.90100	0.13443	0.03106	0.17624	1.3111	-2.6609	1.3950	1.1811	0.1404	1.7421
6	205006	0	0	26514	0.00100	2.5920	0.27595	0.11865	0.34445	1.2483	-2.0396	1.9673	1.4026	0.3479	2.4802
7	10658	0	0	1944	0.00100	2.2490	0.24881	0.07300	0.27019	1.0859	-1.9239	1.3788	1.1742	0.2910	1.7234
8	37604	0	0	7068	0.00100	2.0050	0.23932	0.05505	0.23463	0.9804	-1.9868	1.6667	1.2910	0.3155	2.0723
9	41817	0	0	8001	0.00100	1.4500	0.24227	0.04944	0.22234	0.9178	-2.0754	2.1327	1.4604	0.3646	2.7271
11	32278	0	0	5804	0.00100	2.0810	0.28427	0.08174	0.28591	1.0058	-1.9360	1.9546	1.3981	0.3834	2.4619
13	12803	0	0	2265	0.00100	1.7140	0.31126	0.08465	0.29095	0.9347	-1.7158	1.4485	1.2035	0.3710	1.8046
14	105507	0	0	21033	0.00100	1.5800	0.30848	0.05432	0.23307	0.7555	-1.5037	0.7834	0.8851	0.3289	1.0903
15	26895	0	0	6307	0.01400	1.8630	0.29654	0.04288	0.20707	0.6983	-1.4987	0.6882	0.8296	0.3152	0.9951
16	938	0	0	218	0.02300	0.91300	0.23841	0.02770	0.16644	0.6981	-1.7413	0.7684	0.8766	0.2574	1.0754
17	28516	0	0	7292	0.01200	1.2730	0.26411	0.03675	0.19171	0.7258	-1.6269	0.7098	0.8425	0.2803	1.0166
18	183053	0	0	34835	0.00700	1.2510	0.22366	0.02046	0.14303	0.6395	-1.6946	0.4344	0.6591	0.2282	0.7376
300	105854	0	0	98	0.01600	0.78500	0.51135	0.02359	0.15358	0.3003	-0.7533	0.2676	0.5173	0.53824	0.5539
1000	11199	0	0	57499	0.00400	7.3240	0.76600	0.37840	0.61514	0.8031	-0.5843	0.7703	0.8777	0.81939	1.0772
2000	1865	0	0	43737	0.00100	5.3290	0.56770	0.19754	0.44445	0.7829	-0.8826	0.7947	0.8914	0.61554	1.1017
3000	9038	0	0	21772	0.00100	5.3270	0.47836	0.17211	0.41486	0.8672	-1.0343	0.6503	0.8064	0.4921	0.9572
ALL	941534	0	0	250302	0.00100	7.3240	0.44732	0.21056	0.45887	1.0258	-1.2983	1.2653	1.1248	0.5139	1.5950

```
 RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6
 CURRENT LABEL : (G107) Kriged Grade k_Au


   LOWER BOUND   UPPER BOUND        5000     10000     15000     20000     25000     30000     35000     40000     45000     50000
        >=            <      +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
        0.0010         0.0016|*
        0.0016         0.0024|*
        0.0024         0.0038|*
        0.0038         0.0059|*
        0.0059         0.0093|**
        0.0093         0.0144|**
        0.0144         0.0225|****
        0.0225         0.0351|*********
        0.0351         0.0548|*****************
        0.0548         0.0856|***************************
        0.0856         0.1335|*********************************************
        0.1335         0.2084|************************************************************
        0.2084         0.3252|*********************************************************************************
        0.3252         0.5074|*************************************************************************************
        0.5074         0.7918|************************************************************************
        0.7918         1.2355|*********************************************
        1.2355         1.9278|**********************
        1.9278         3.0082|******
        3.0082         4.6941|*
        4.6941         7.3247|
                              +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
                              0      5000     10000     15000     20000     25000     30000     35000     40000     45000     50000
```

FIGURE 17-21 is a plan map detailing the locations of the cross sections presented in this report. FIGURES 17-22 through 17-27 are east-west cross sections looking north that illustrate the drill hole traces, estimated gold blocks, and primary mineralized zones for the Batman Deposit. FIGURES 17-28 through 17-30 are north-south longitudinal sections looking east that show the drill hole traces, the estimated gold blocks, and the primary mineralized zones. It is important to note that the cross sections and longitudinal sections show estimated gold blocks above the current topographic surface. This is because all of the drill hole assay data were used to estimate the gold grades. These blocks have been removed prior to tabulating the in place geologic resources.

Finally, FIGURES 17-31 through 17-35 are plan view maps of the estimated gold grades with drill hole pierce points and the primary mineralized zones.



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Prepared for:
Vista Gold Corp.

Project:
Mt Todd Gold Project

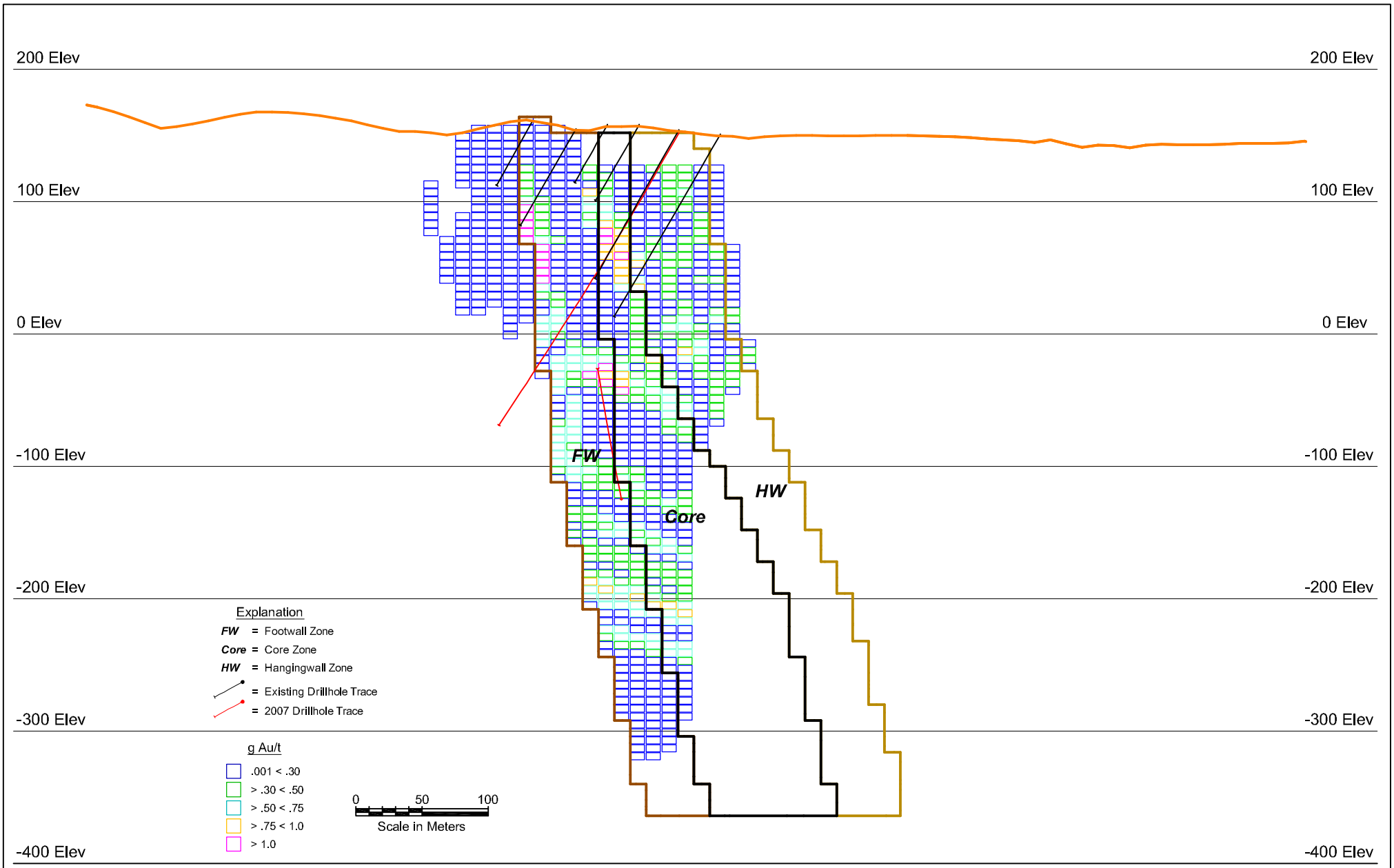
Project Location:
Northern Territory, Australia

File Name:
Fig17-21.dwg

Project Number:
114-310875

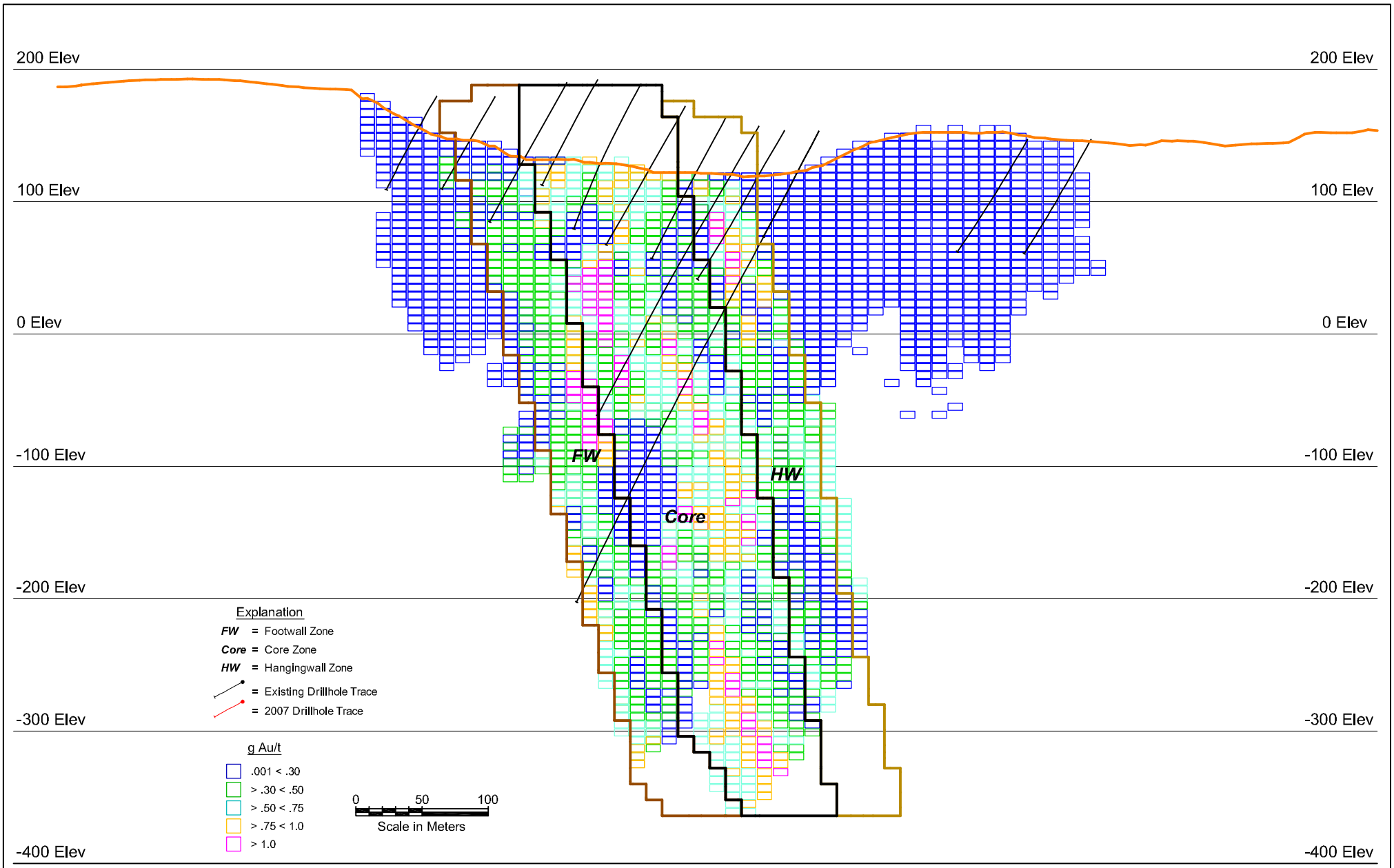
Date of Issue:
May/2008

Figure 17-21
Section Locations



Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-22.dwg	**Figure 17-22**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N4338**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**(Looking North)**



Note: All drillhole data were used for resource estimation.

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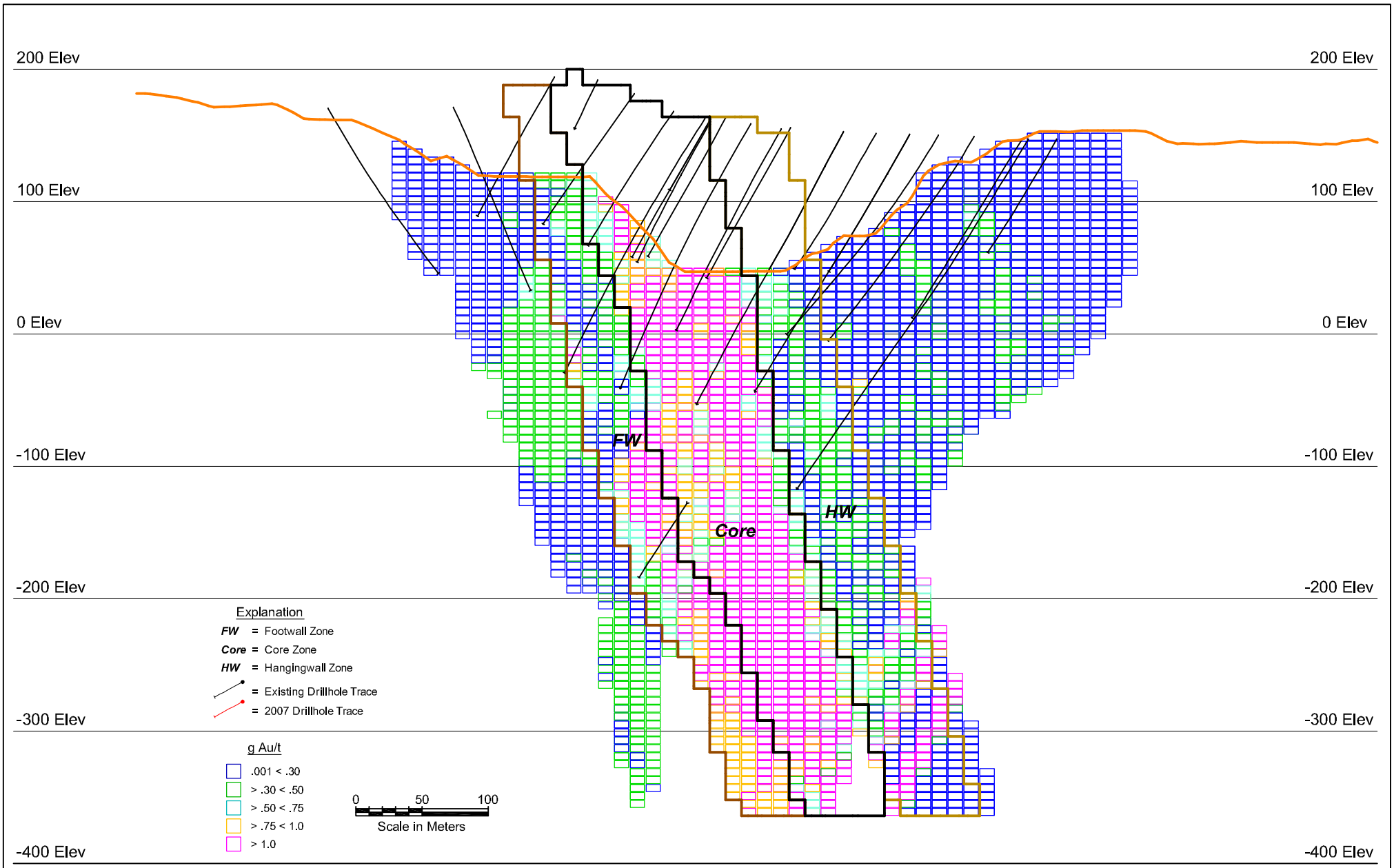
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N4538 (Looking North)**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

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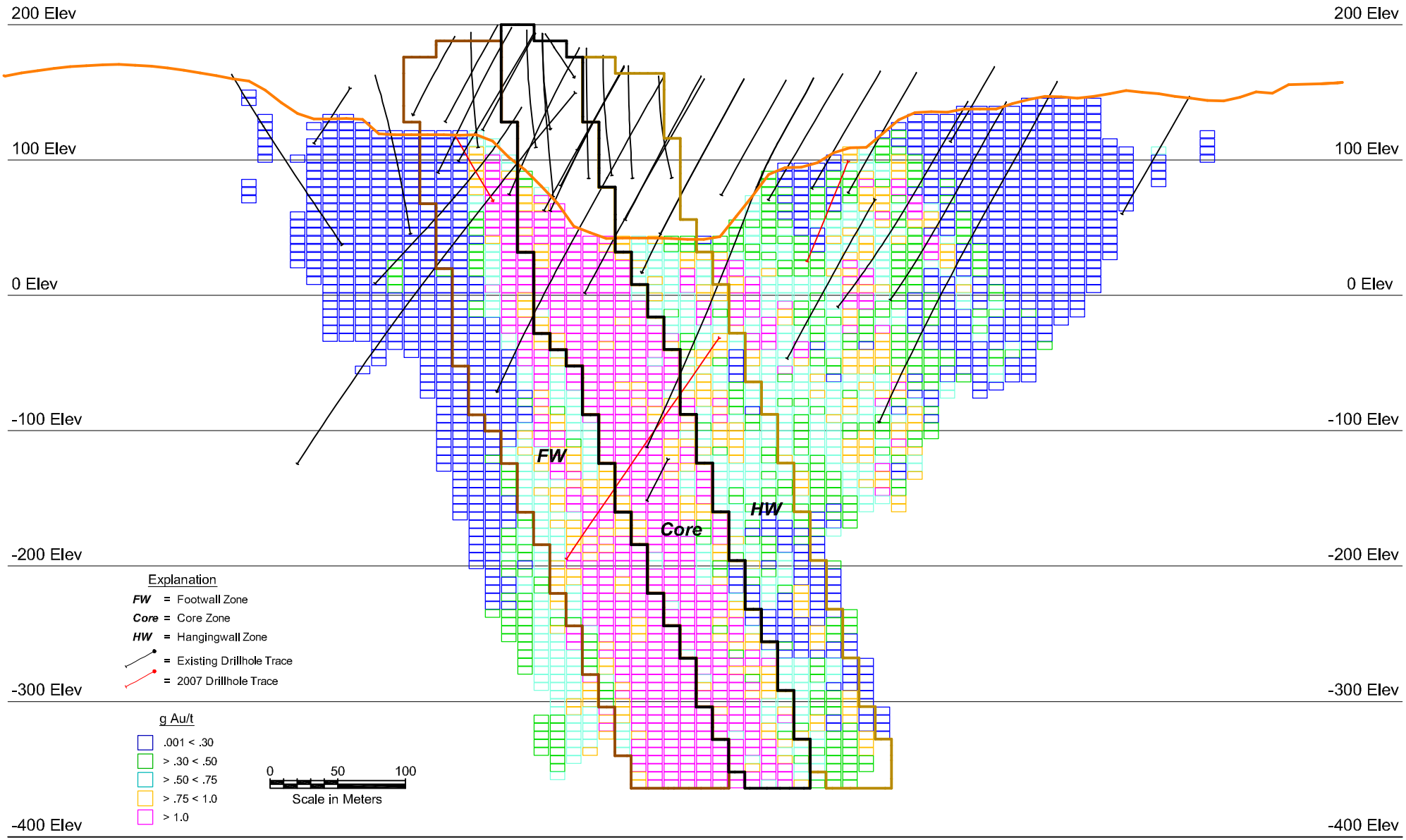
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N4738**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**(Looking North)**



Note: All drillhole data were used for resource estimation.

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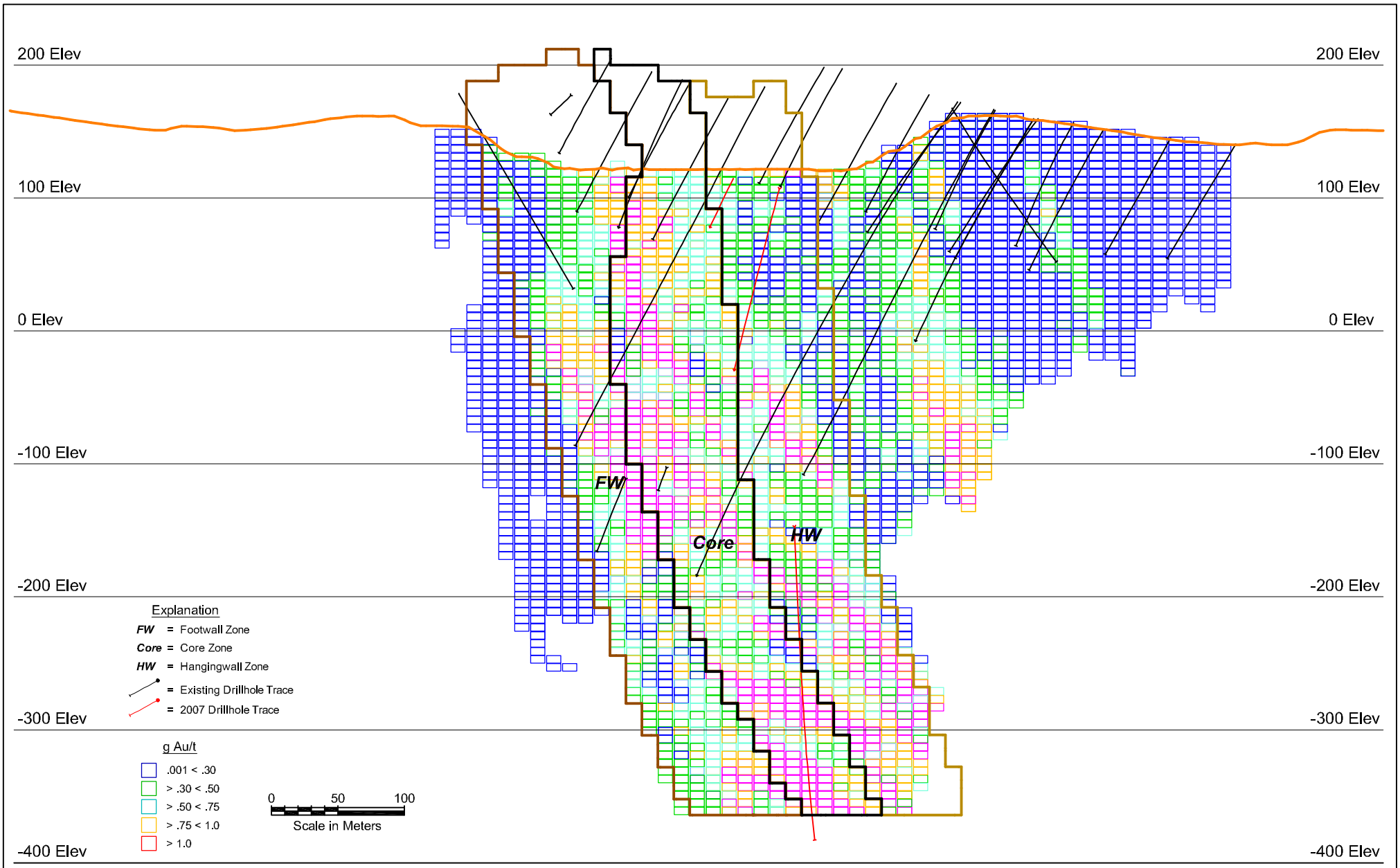
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N4938 (Looking North)**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

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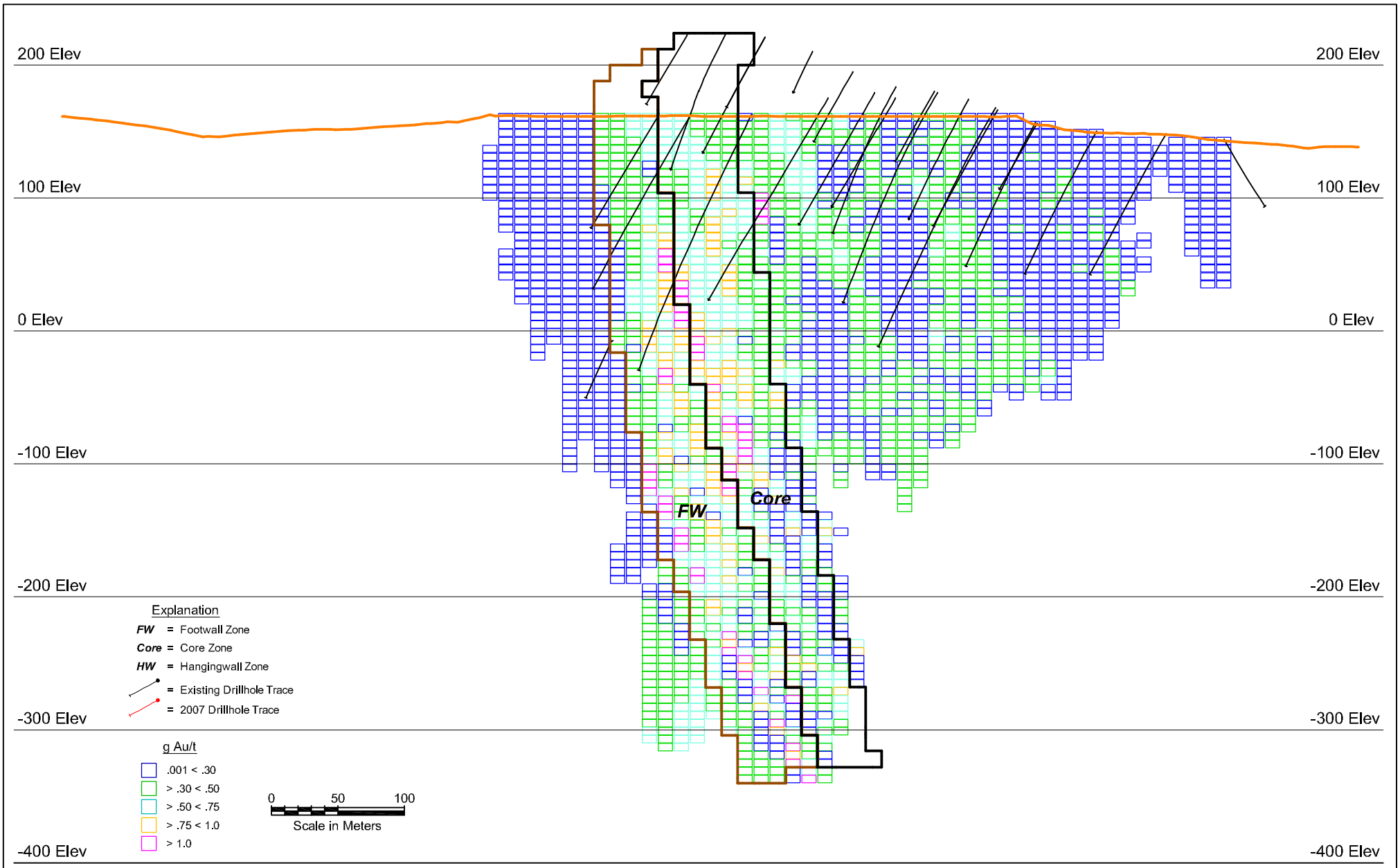
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N5138 (Looking North)**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

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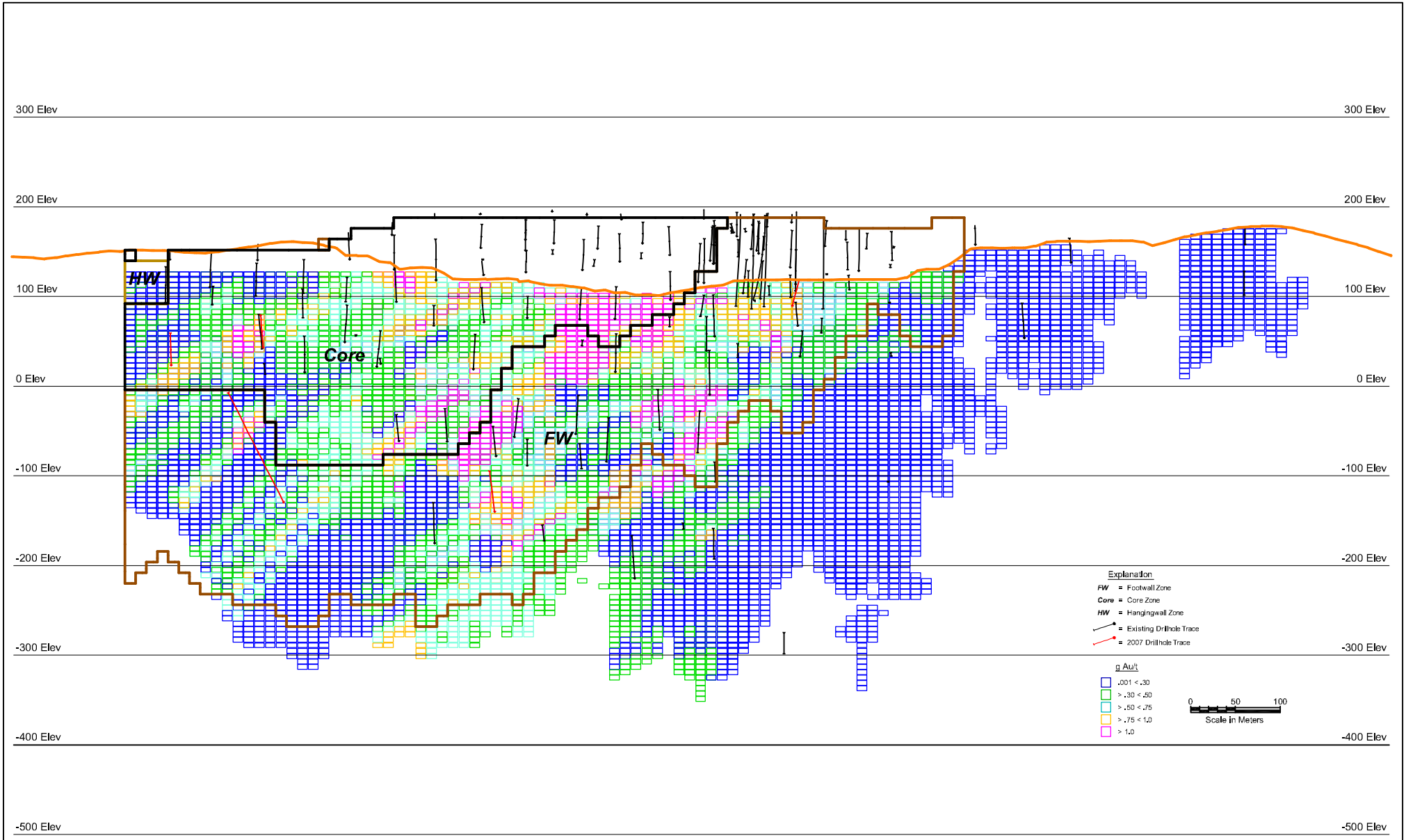
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section N5338**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**(Looking North)**



Note: All drillhole data were used for resource estimation.

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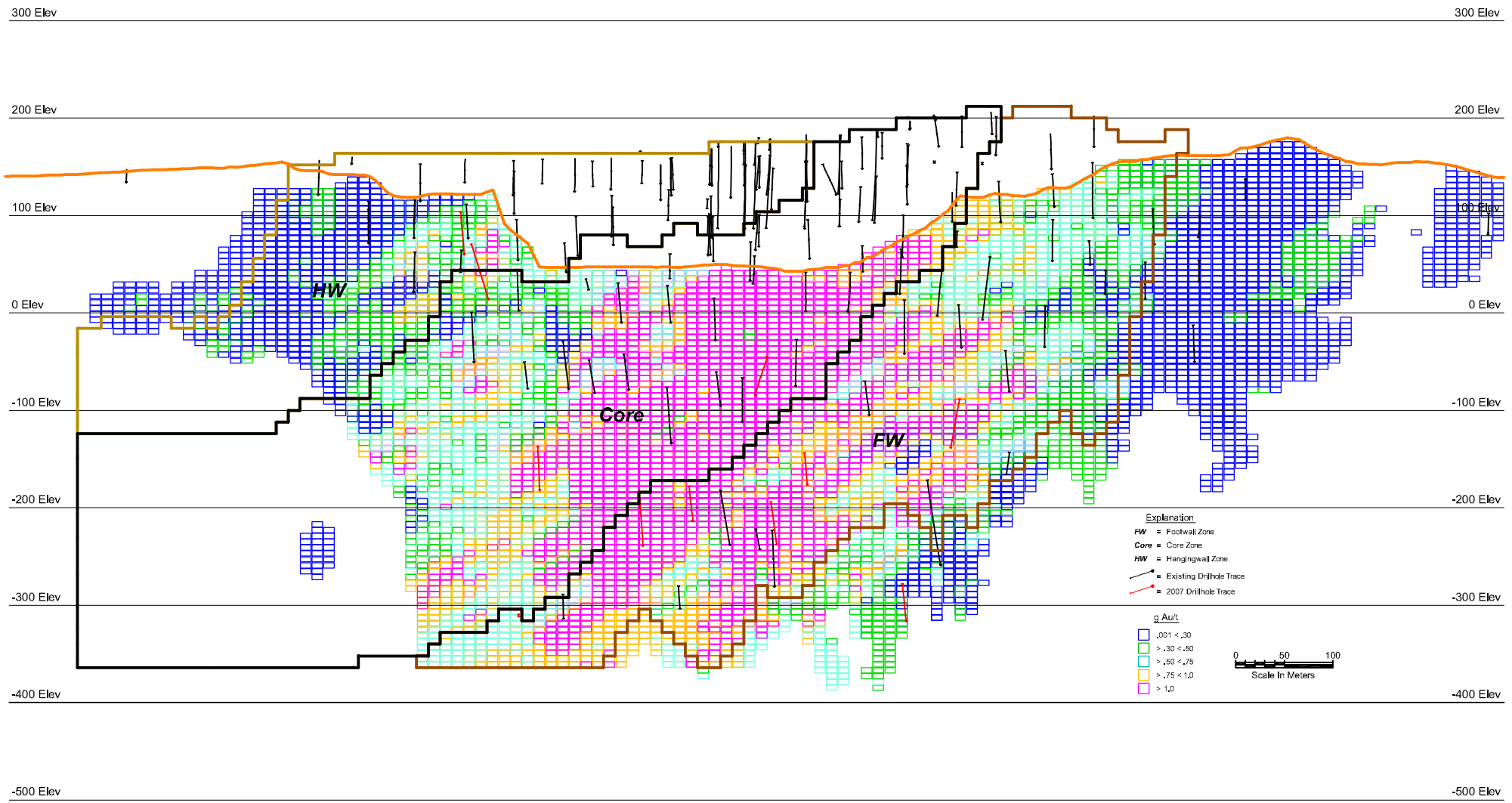
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section E186800 (Looking West)**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

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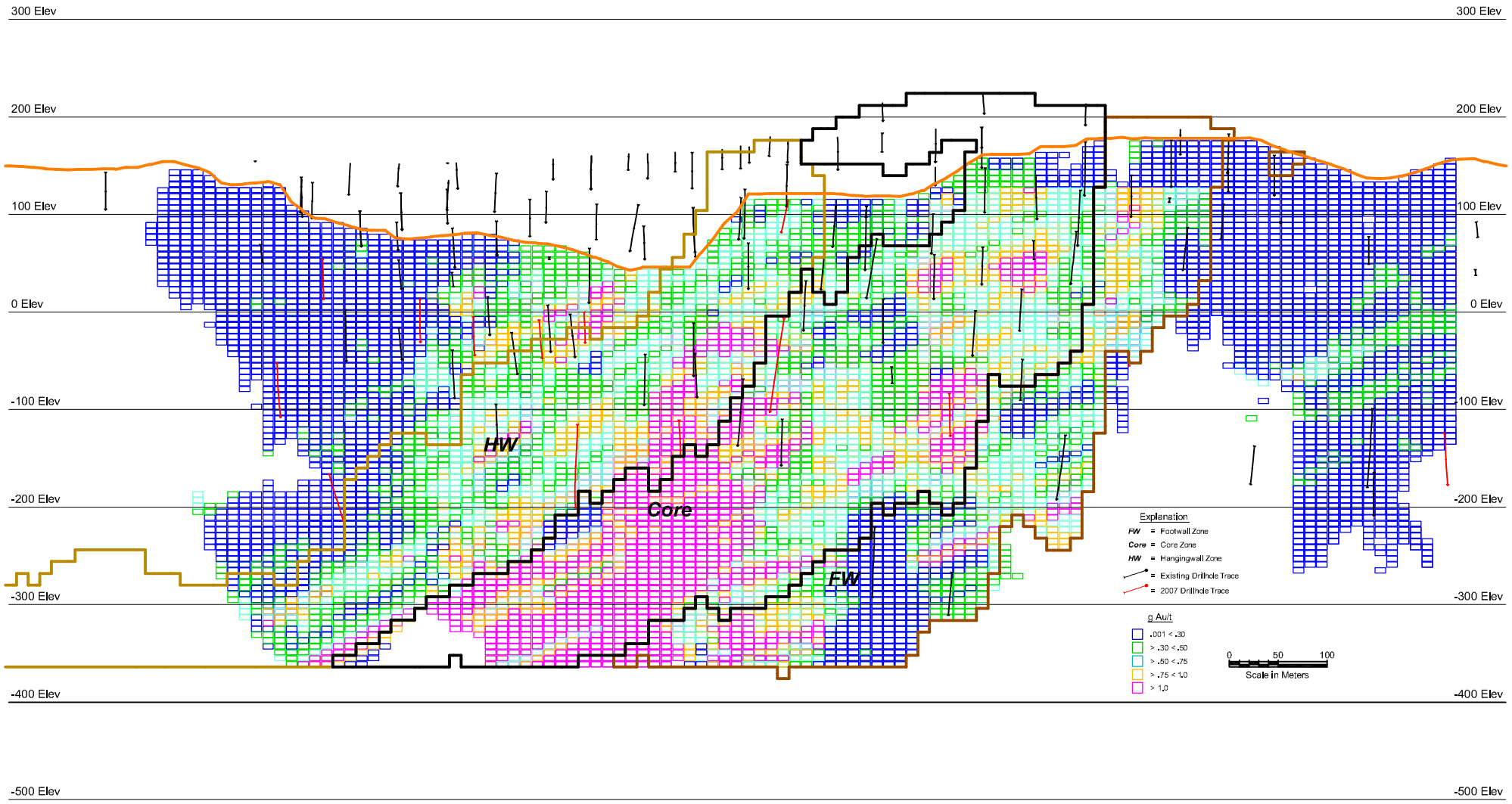
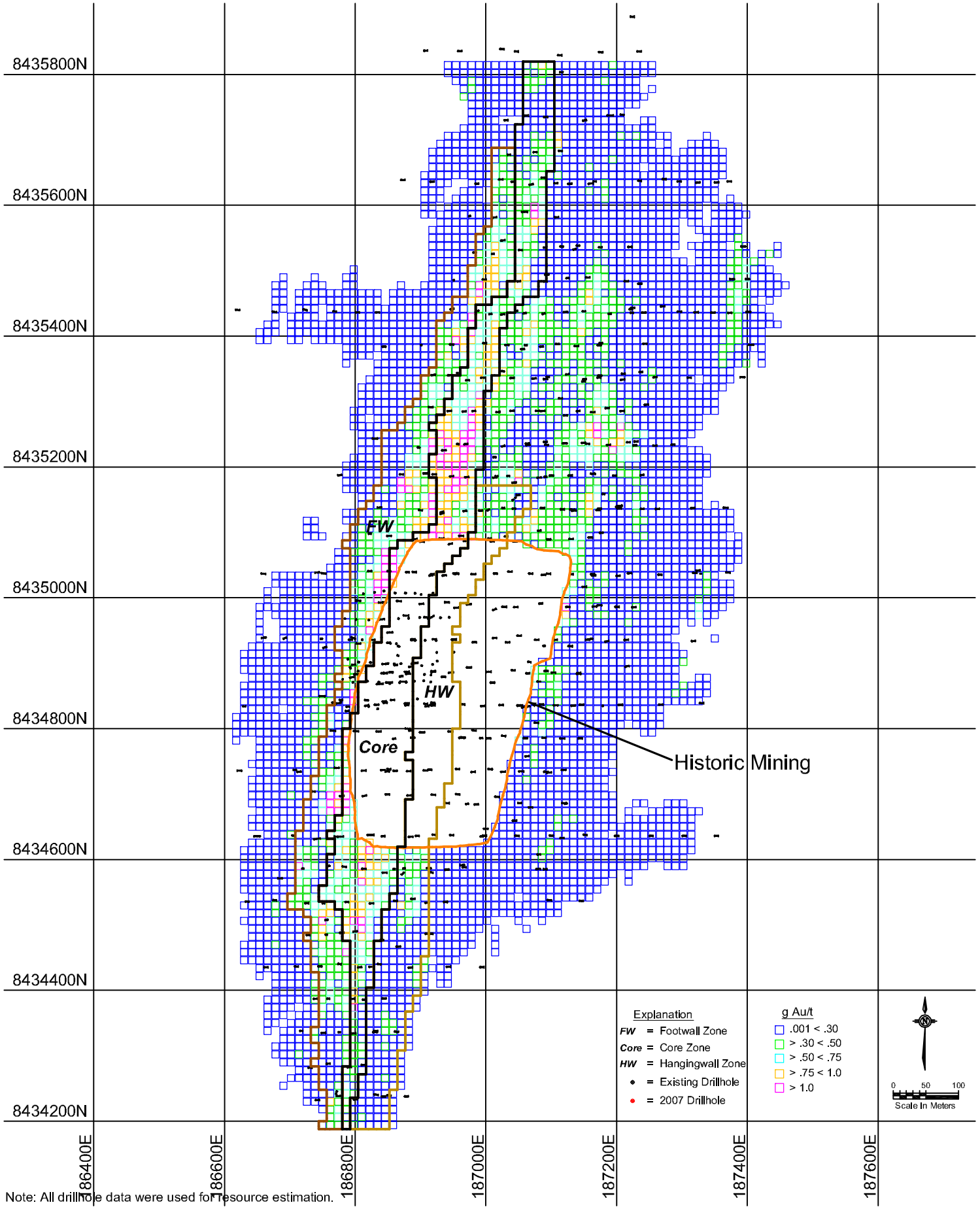
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section E186900**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**(Looking West)**



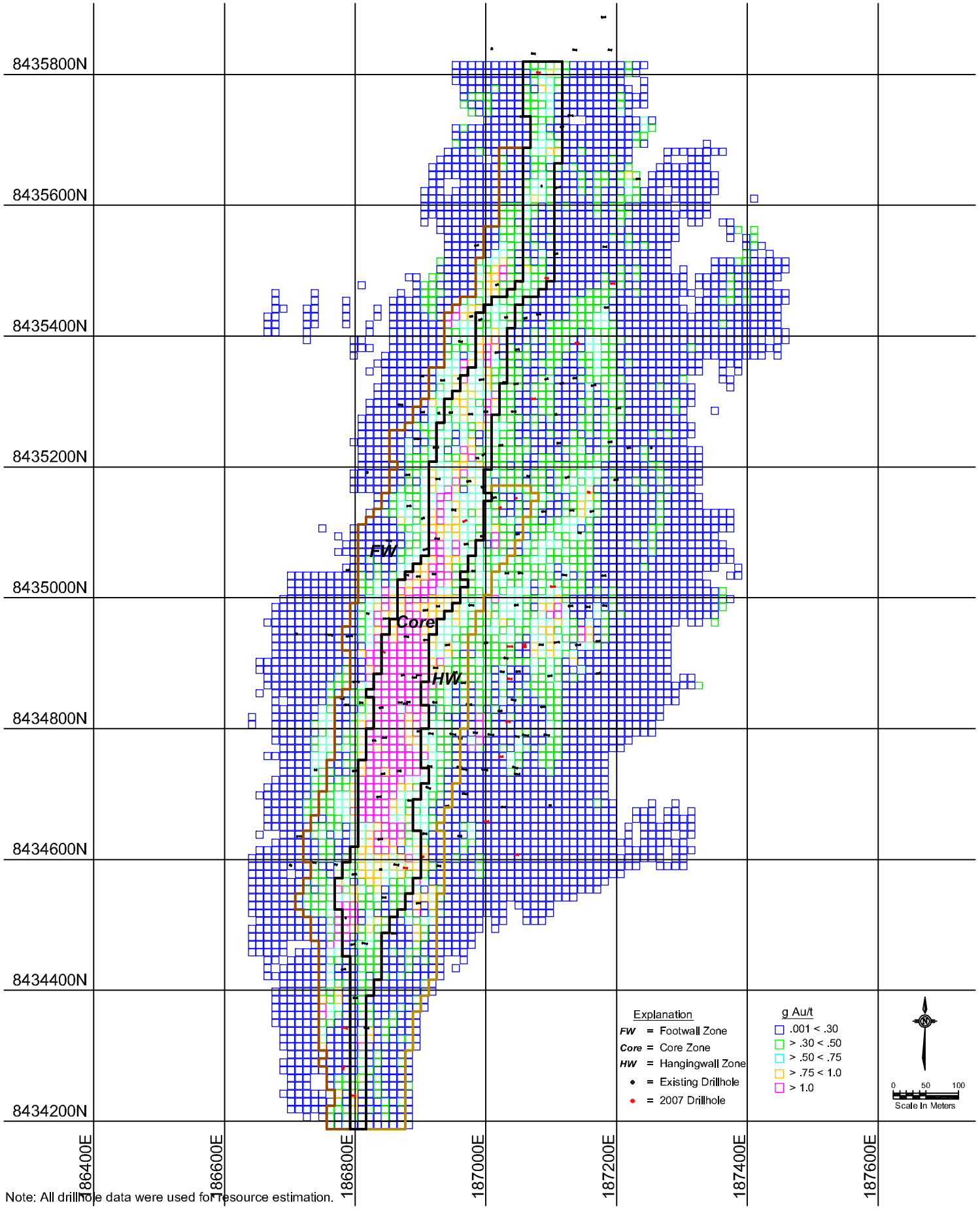
Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-30.dwg	**Figure 17-30**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Section E187000**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	**(Looking West)**



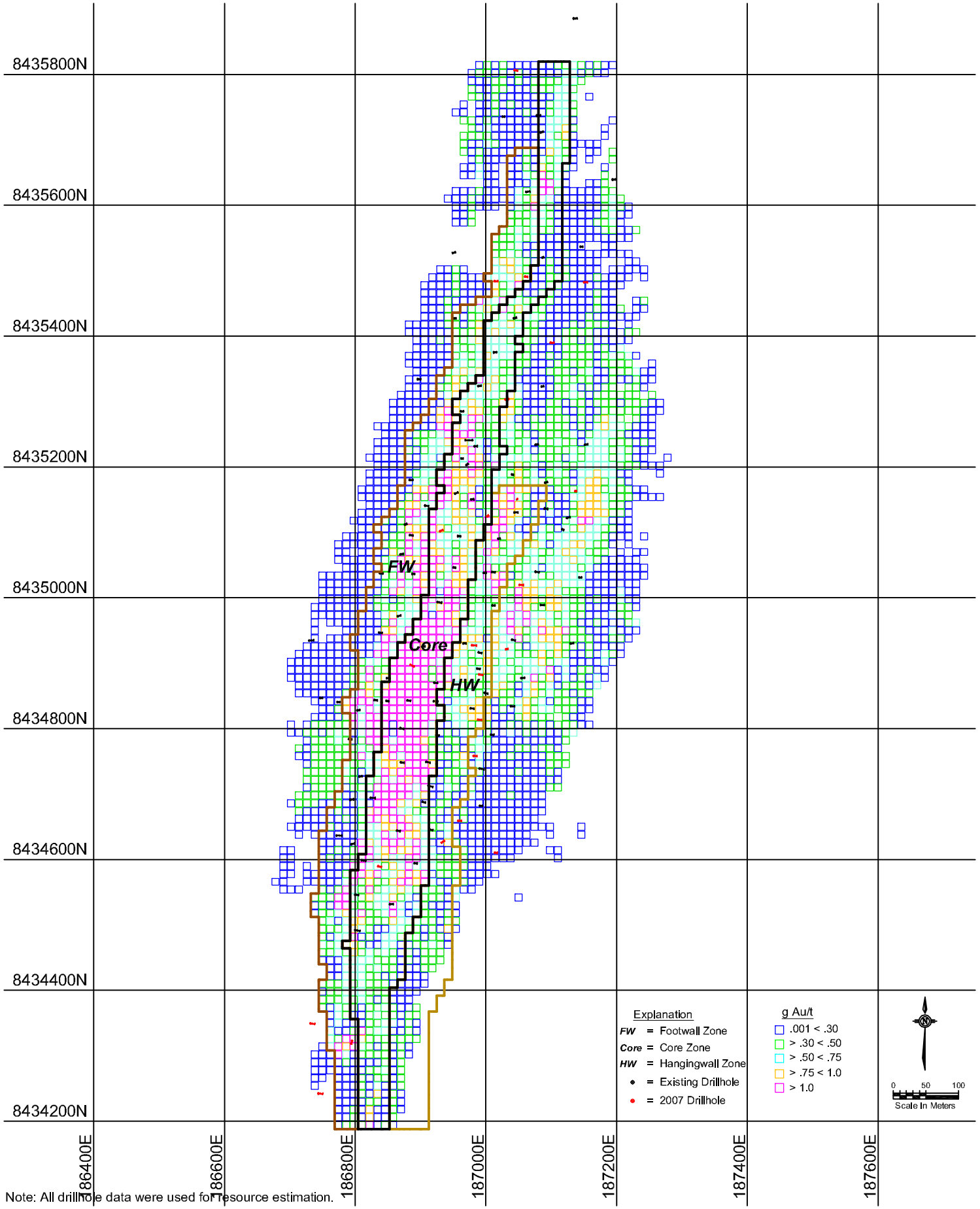
Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-31.dwg	**Figure 17-31**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Plan View at Elev 113**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



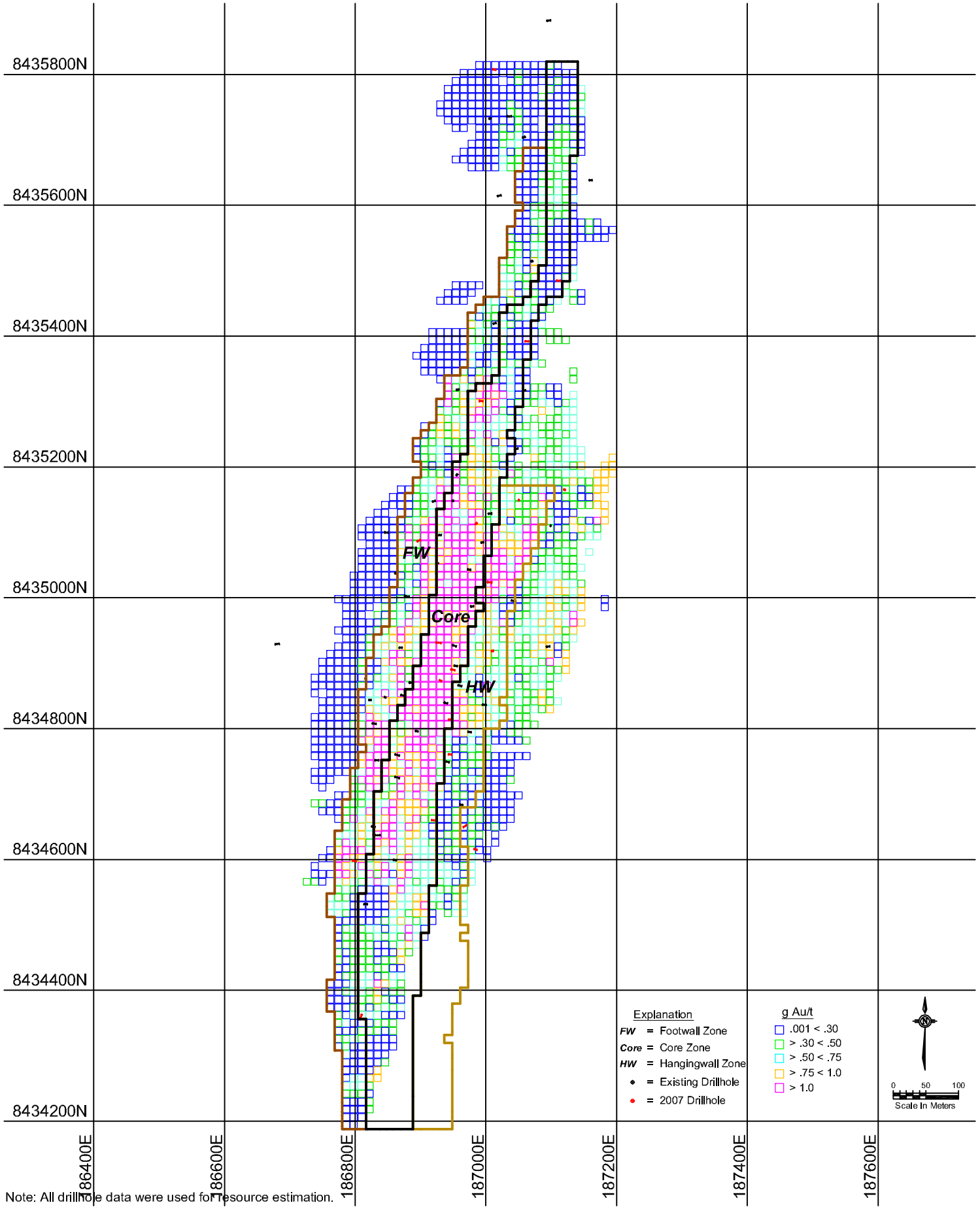
Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-32.dwg	**Figure 17-32**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Plan View at Elev 35**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-33.dwg	**Figure 17-33**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Plan View at Elev -43**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

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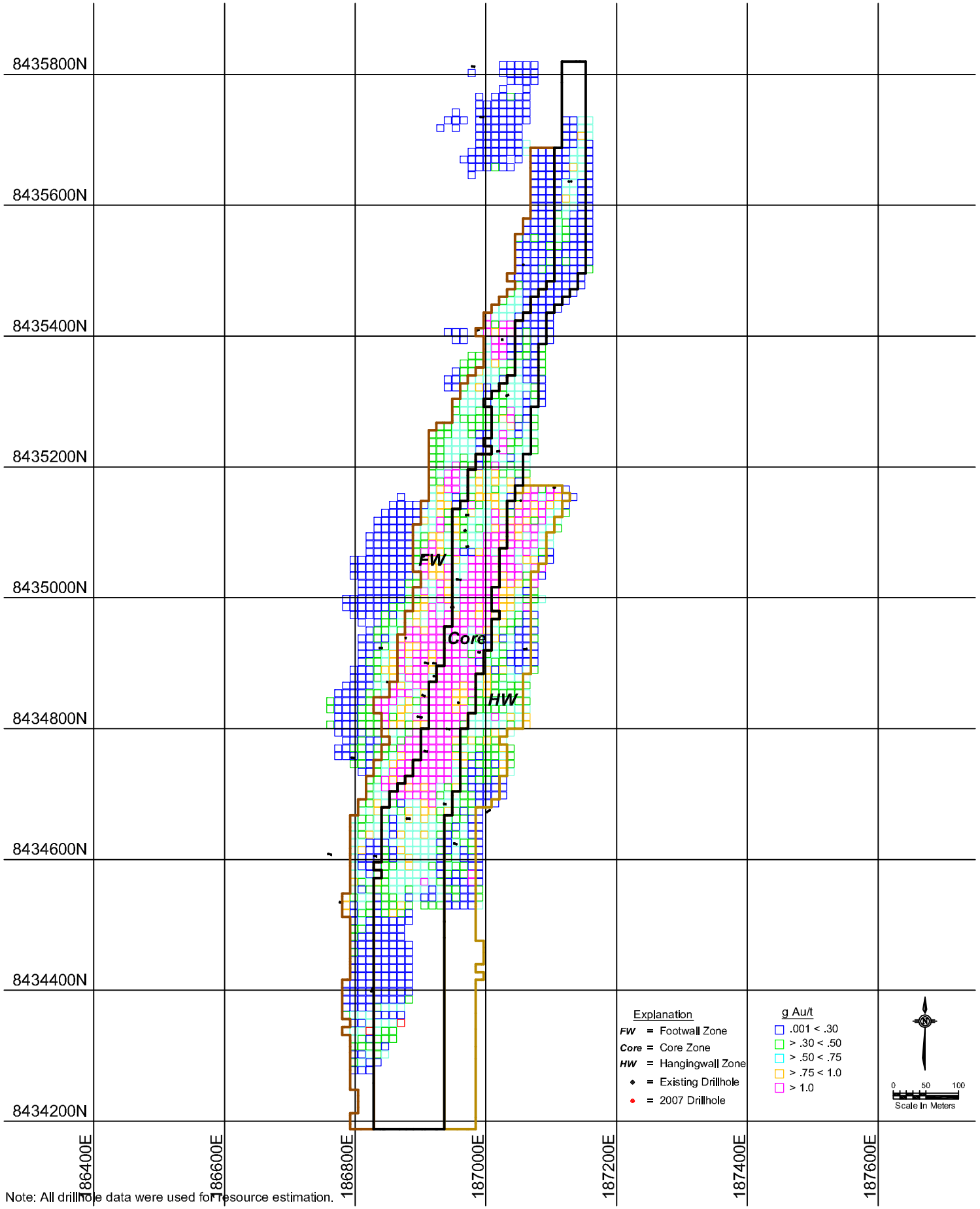
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Plan View at Elev -121**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Note: All drillhole data were used for resource estimation.

Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-35.dwg	**Figure 17-35**
	Project: Mt Todd Gold Project	Project Number: 114-310875	**Plan View at Elev -199**
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	

17.8 Other Metals and Sulfur Resource Estimate

17.8.1 Summary of Study:

1. Mt Todd is a poly-metallic deposit containing significant grades of gold and copper along with lower concentrations of lead, zinc, arsenic, iron, and silver.
2. Significant concentrations of sulfur also exist.
3. The metals and sulfur generally follow lognormal-like distributions.
4. There is generally poor correlation amongst these metal concentrations within samples with the exceptions of lead/zinc and silver/lead.
5. Of the 755 drill-holes used to estimate gold, 38 were used to estimate the other metals.
6. The 38 drill-holes are located in such a way as to provide a representative spatial sample.
7. The variography of each of the metals follows much the same pattern shown by gold, with longer ranges along the strike of the mineralized zones.
8. General Relative Kriging was used to estimate the six additional metals and sulfur at the blocks previously estimated for gold.
9. Resources of the other metals and sulfur are categorized by gold resource class and by gold cutoff grades; however all of the other metals resource estimates are classified as inferred.

17.8.2 Detailed Discussion of Study

Mineralization at Mt Todd is poly-metallic; hence an additional study was done to produce resources for six other metals along with sulfur. Only a subset of thirty-eight holes was analyzed for the additional metals and sulfur. Remaining core from thirteen historical holes were re-assayed (BD-series) along with the twenty-five 2007 drillholes (VB-series). The holes are listed in TABLE 17-20.

TABLE 17-20
VISTA GOLD CORP. – MT TODD GOLD PROJECT
List of Drillholes with multi-metal analysis data
May 2008

Old Holes with re-assay data	New 2007 Holes	
BD077	VB07-001	VB07-014
BD080	VB07-002	VB07-015
BD090	VB07-003	VB07-016
BD110	VB07-004	VB07-017
BD113	VB07-005	VB07-018
BD123	VB07-006	VB07-019
BD124	VB07-007	VB07-020
BD127	VB07-008	VB07-021
BD130	VB07-009	VB07-022
BD131	VB07-010	VB07-023
BD132	VB07-011	VB07-024
BD184	VB07-012	VB07-025
BD186	VB07-013	

The holes spatially cover the Mt Todd model area fairly well. FIGURE 17-36 shows schematically the general location of the holes as a side-view looking west. The changing colors along the drillhole traces represent gold grades which are also shown schematically in this figure. The current mined topography is shown as a grey-colored mesh.

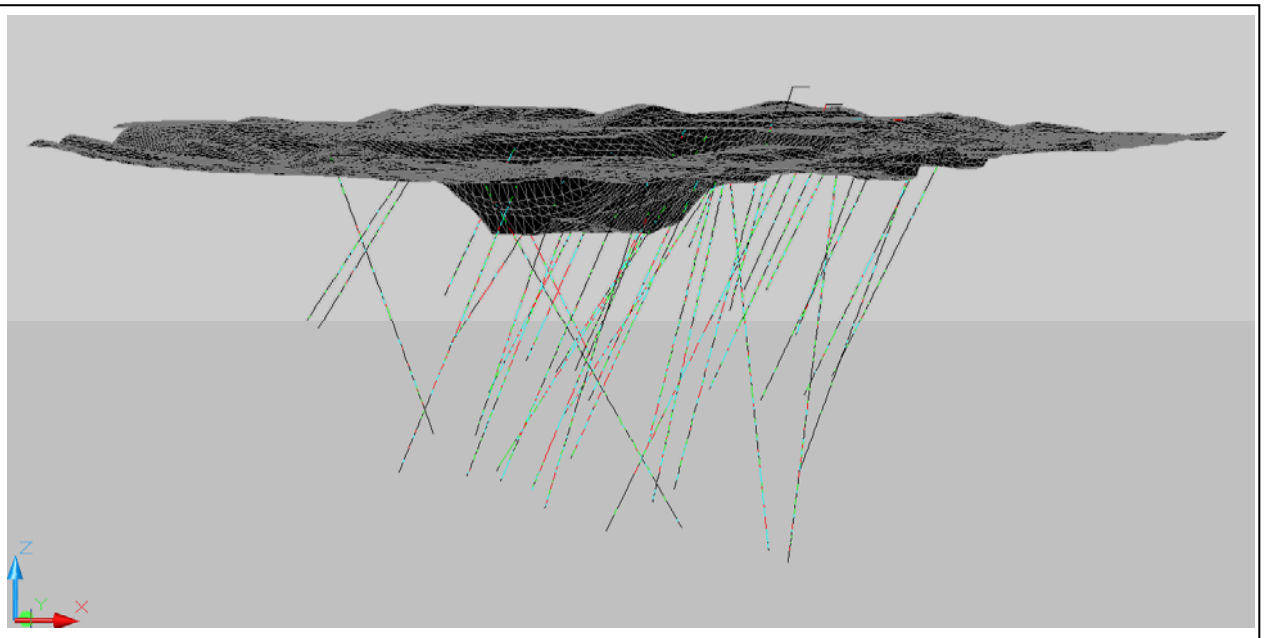


FIGURE 17-36: Location Map of Other Metals Drilling (Looking West)

ICP was done on more elements than were studied geostatistically in this report. The total database included along with gold (au), copper (cu), lead (pb), zinc (zn), sliver (ag), aluminum (al), arsenic (as), barium (ba), beryllium (be), bismuth (bi), calcium (ca), cadmium (cd), cobalt (co), chromium (cr), iron (fe), gallium (ga), potassium (k), lanthium (la), magnesium (mg), manganese (mn), molybdenum (mo), sodium (na), nickel (ni), phosphorous (p), sulfur (s), antimony (sb), scandium (sc), strontium (sr), thorium (th), titanium (ti), thallium (tl), uranium (u), vanadium (v), and tungsten (w). Of these elements, eight were selected for statistical and geostatistical study. TABLE 17-21 shows the selected list of seven metals and sulfur along with general statistics of the group. Gold assays have the largest number of analysis with almost 100,000 samples above detection. This came from a database comprised of 755 drillholes. The statistical and geostatistical analysis of gold has been reported in a previous part of this report. From the 38 drillholes, each metal had a valid count of samples above its detection limit. For example sliver has 6,285 samples, while iron and sulfur have 12,316 samples.

TABLE 17-21
VISTA GOLD CORP. – MT TODD GOLD PROJECT
General Statistics of sample (one-meter intercept data)
May 2008

	Count	Average	Max	Min	CV
Au (ppm)	99,268	0.584	55.37	0.005	2.02
Cu (%)	12,311	0.044	2.40	0.001	1.48
Pb (%)	9,627	0.039	7.35	0.001	4.85
Zn (%)	12,315	0.046	4.45	0.001	3.35
Ag (ppm)	6,385	1.393	100.00	0.250	2.58
As (%)	12,194	0.020	8.30	0.001	6.54
Fe (%)	12,316	6.103	21.80	1.880	0.23
S(%)	12,316	0.975	11.80	0.001	1.00

These data were composited to an average over 4-meters and assigned rock codes according to the geologic model discussed earlier. TABLE 17-22 shows more detailed statistics for the composited copper (c_Cu). The first portion of that table presents statistics according to the rock codes discussed in a previous section of this report. The second part shows a histogram, plotting the frequency of measured concentrations within each listed grade range. Note that the graph is plotted with log-transformed grades. Hence the "bell-shaped" curve represents a lognormal-like distribution for c_Cu.

TABLE 17-23 shows more detailed statistics for the composited silver (c_Ag). The statistics are broken out by rock code. A detailed study of silver indicates that multiple populations might exist. The graph shown in this figure only hints at this possibility. A spike of assays at the lowest interval complicates an interpretation of a simple lognormal distribution. This indicates that there are a large number of silver assays near the detection limit.

Detailed statistics of the 4-meter composites for all of the metals and sulfur are contained in SECTION 25.1 of this report.

TABLE 17-22
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Detailed statistics for the 4-meter composited Cu (c_Cu) data
May 2008

```
 RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
     DATA TYPE IS COMPOSITE
     CURRENT LABEL : c_Cu
```

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	156	0	0	25	0.00100	0.02025	0.00869	0.000032	0.00568	0.6534	-4.9714	0.5045	0.7103	0.0089	0.8100
6	3183	0	0	253	0.00200	0.17025	0.01528	0.000284	0.01685	1.1027	-4.5608	0.6973	0.8351	0.0148	1.0042
7	159	0	0	25	0.00375	0.06075	0.02107	0.000249	0.01578	0.7490	-4.1441	0.6136	0.7833	0.0216	0.9203
8	528	0	0	52	0.00300	0.09050	0.01856	0.000268	0.01638	0.8823	-4.2708	0.5383	0.7337	0.0183	0.8445
9	434	0	0	34	0.00325	0.14450	0.03195	0.00100	0.03164	0.9904	-3.8501	0.8420	0.9176	0.0324	1.1493
11	363	0	0	31	0.00250	0.05375	0.02368	0.000228	0.01510	0.6376	-3.9880	0.5839	0.7642	0.0248	0.8906
13	154	0	0	38	0.00200	0.11330	0.02712	0.000612	0.02474	0.9120	-3.9829	0.8772	0.9366	0.0289	1.1850
14	1396	0	0	169	0.00325	0.35475	0.04492	0.00198	0.04449	0.9905	-3.4295	0.6269	0.7918	0.0443	0.9337
15	403	0	0	50	0.00620	0.12200	0.04089	0.000685	0.02618	0.6402	-3.3902	0.4062	0.6373	0.0413	0.7079
17	386	0	0	61	0.00325	0.27625	0.03506	0.00144	0.03789	1.0805	-3.6988	0.7001	0.8367	0.0351	1.0069
18	1017	0	0	262	0.00300	0.23250	0.03017	0.000799	0.02827	0.9372	-3.8349	0.6767	0.8226	0.0303	0.9836
100	7852	0	0	89	0.00150	0.11650	0.03103	0.000680	0.02608	0.8406	-3.8690	0.9594	0.9795	0.0337	1.2689
300	4	0	0	11	0.02333	0.17725	0.05781	0.00181	0.04258	0.7366	-3.0095	0.2636	0.5134	0.0563	0.5492
1000	2934	0	0	1039	0.00225	0.36225	0.05214	0.00230	0.04791	0.9188	-3.3073	0.7559	0.8694	0.0534	1.0628
2000	2038	0	0	551	0.000500	0.36450	0.05242	0.00226	0.04754	0.9068	-3.3602	0.9953	0.9977	0.0571	1.3060
3000	795	0	0	460	0.00300	0.87220	0.04580	0.00397	0.06297	1.3748	-3.5587	0.8977	0.9475	0.0446	1.2058
ALL	21882	0	0	3150	0.000500	0.87220	0.04306	0.00217	0.04658	1.0819	-3.5846	0.9431	0.9711	0.0445	1.2521

```
    LOWER BOUND   UPPER BOUND          50       100       150       200       250       300       350       400       450       500
         >=            <      +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
         0.0005        0.0007|
         0.0007        0.0011|
         0.0011        0.0015|
         0.0015        0.0022|*
         0.0022        0.0032|******
         0.0032        0.0047|***************
         0.0047        0.0068|********************************
         0.0068        0.0099|************************************************
         0.0099        0.0144|************************************************************
         0.0144        0.0209|*************************************************************************
         0.0209        0.0303|*****************************************************************************************
         0.0303        0.0441|*************************************************************************************************************
         0.0441        0.0640|*************************************************************************************************
         0.0640        0.0929|*****************************************************************
         0.0929        0.1350|**********************************
         0.1350        0.1960|***************
         0.1960        0.2847|*******
         0.2847        0.4135|***
         0.4135        0.6006|
         0.6006        0.8723|
                             +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
```

TABLE 17-23
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Detailed Statistics for the 4-meter composited Silver (c_Ag) Data
May 2008

VB 2007 Series, DB Historical Series

MicroMODEL Software - Version 7.00 Licensed to: Tetra Tech MM, Inc | Div: Mineral Resource
RUNTIME TITLE : VB 2007 Series, DB Historical Series
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
DATA TYPE IS COMPOSITE (4 meters)
CURRENT LABEL : c_Ag

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
6	190	0	0	26	0.25000	6.5000	0.73574	1.7654	1.3287	1.8059	-0.8731	0.6908	0.8311	0.58995	0.9976
7	13	0	0	8	0.53333	2.4333	1.0354	0.35367	0.59470	0.5744	-0.0682	0.1767	0.4204	1.02036	0.4397
8	59	0	0	7	0.63333	1.1500	0.97024	0.04129	0.20321	0.2094	-0.0516	0.0456	0.2135	0.97162	0.2159
9	34	0	0	4	0.70000	2.1667	1.4667	0.52667	0.72572	0.4948	0.2774	0.2244	0.4737	1.47642	0.5016
11	18	0	0	6	0.25000	0.90000	0.67847	0.06128	0.24755	0.3649	-0.4682	0.1954	0.4420	0.69036	0.4645
13	26	0	0	12	0.75000	2.9250	1.2431	0.34759	0.58956	0.4743	0.1443	0.1259	0.3548	1.23026	0.3663
14	112	0	0	61	0.53333	20.220	1.7543	6.6802	2.5846	1.4733	0.2664	0.3816	0.6178	1.57961	0.6817
15	43	0	0	3	1.0667	2.1000	1.5136	0.28152	0.53059	0.3505	0.3748	0.0781	0.2795	1.51260	0.2850
17	21	0	0	37	0.25000	3.2000	1.0430	0.64879	0.80548	0.7723	-0.2764	0.6971	0.8349	1.07478	1.0040
18	204	0	0	72	0.25000	4.7000	1.1056	1.3514	1.1625	1.0515	-0.3971	0.9620	0.9808	1.08755	1.2716
100	76	0	0	51	0.63333	5.8125	1.8650	1.9600	1.4000	0.7507	0.4205	0.3560	0.5966	1.81933	0.6539
300	7	0	0	5	0.69355	1.5757	1.1235	0.10779	0.32832	0.2922	0.0802	0.0751	0.2741	1.12504	0.2794
1000	567	0	0	275	0.25000	20.447	1.5114	4.2334	2.0575	1.3613	-0.0753	0.9119	0.9549	1.46320	1.2203
2000	282	0	0	143	0.25000	9.3600	1.4294	1.5258	1.2352	0.8642	0.0453	0.6683	0.8175	1.46142	0.9751
3000	314	0	0	118	0.25000	8.3200	1.6091	2.0548	1.4334	0.8908	0.1777	0.5744	0.7579	1.59188	0.8810
ALL	1992	0	0	828	0.25000	20.447	1.4486	2.8329	1.6831	1.1619	-0.0199	0.7602	0.8719	1.43369	1.0671

LOWER BOUND >=	UPPER BOUND <	20 40 60 80 100 120 140 160 180 200
0.2500	0.3116	**********
0.3116	0.3883	**********
0.3883	0.4840	**********
0.4840	0.6032	**********
0.6032	0.7518	**********
0.7518	0.9371	**********
0.9371	1.1679	**********
1.1679	1.4556	**********
1.4556	1.8142	**********
1.8142	2.2611	**********
2.2611	2.8181	**********
2.8181	3.5123	**********
3.5123	4.3775	**********
4.3775	5.4558	**********
5.4558	6.7998	**********
6.7998	8.4749	**********
8.4749	10.5626	*
10.5626	13.1646	*
13.1646	16.4076	*

This study shows low correlations amongst the selected metals and sulfur, with the exception of lead to zinc and lead to silver. Analysis was done using natural log transformed data. Of particular interest are the low correlations between gold and the rest of the elements.

TABLE 17-24 is shown as a correlation matrix with the columns and rows indicating each of the elements. For example, the first row is listed as LAu, i.e. log-transformed gold. The column headers indicate each of the elements. The first column is also LAu, and has a correlation of 1.00, correctly indicating that gold is perfectly correlated with itself. The next column is LCu, and cell intersecting the first row shows a correlation of 0.39.

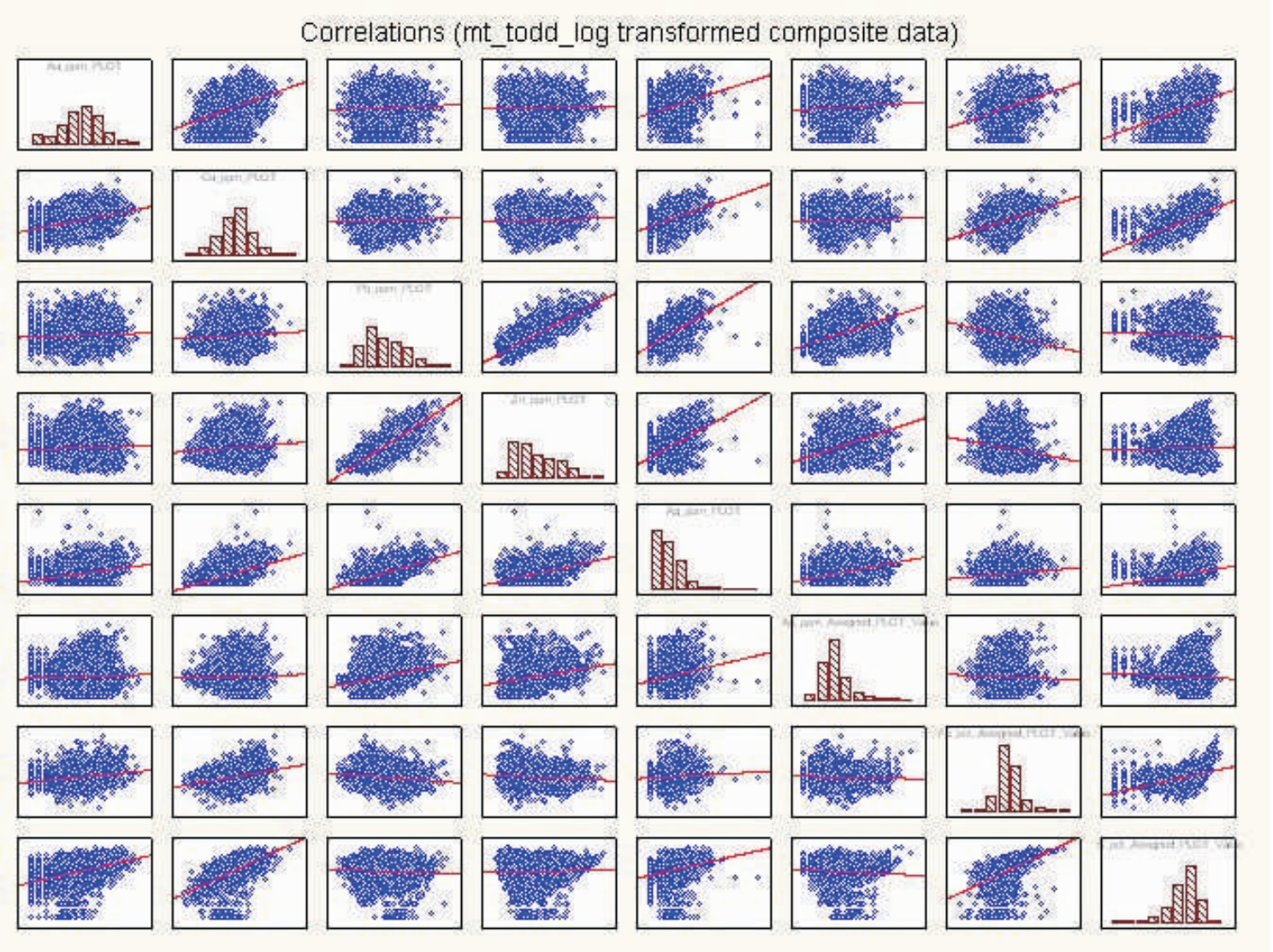
TABLE 17-24
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Correlation amongst one-meter interval data
May 2008

	LAu	LCu	LPb	LZn	LAg	LAs	LFe	LS
LAu	1.00	0.39	0.05	0.04	0.31	0.07	0.27	0.43
LCu	0.39	1.00	0.06	0.08	0.47	0.04	0.35	0.64
LPb	0.05	0.06	1.00	**0.86**	**0.61**	0.38	-0.19	-0.05
LZn	0.04	0.08	**0.86**	1.00	0.51	0.35	-0.14	0.03
LAg	0.31	0.47	**0.61**	0.51	1.00	0.31	0.10	0.28
LAs	0.07	0.04	0.38	0.35	0.31	1.00	-0.04	-0.07
LFe	0.27	0.35	-0.19	-0.14	0.10	-0.04	1.00	0.48
LS	0.43	0.64	-0.05	0.03	0.28	-0.07	0.48	1.00

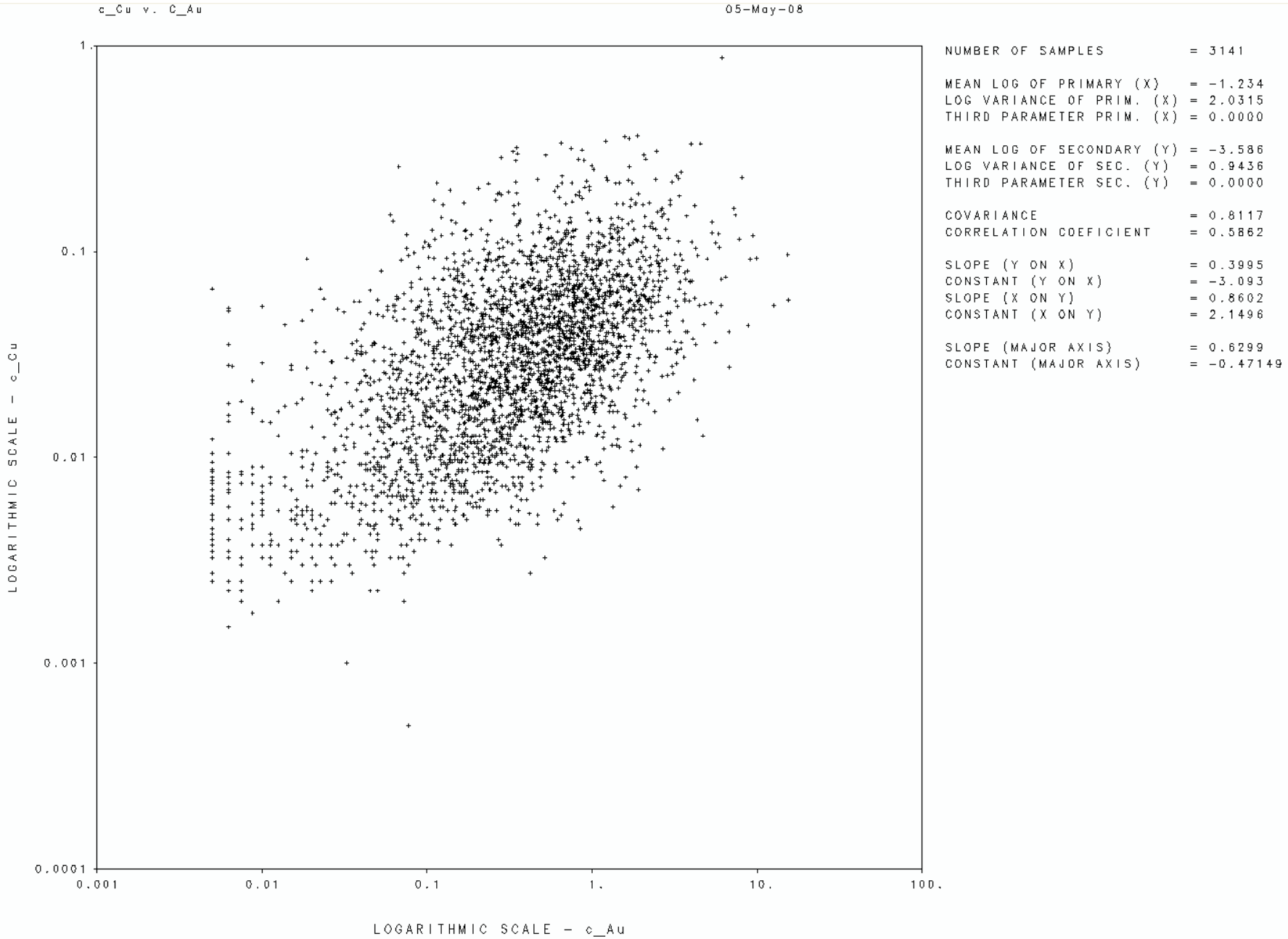
FIGURE 17-37 shows correlation in a graphical way using scatter-plots. The order of the elements is the same as in TABLE 17-24. If the scatter of points falls along a positively sloped line, it will have a high positive correlation, while a negative slope signifies a negative one. Note that most of the points are scattered. This indicates a low correlation. The histogram of the element is shown along the diagonal in FIGURE 17-41.

FIGURES 17-38, 17-39 and 17-40 show more detailed scatter plots for the 4-meter composites of copper to gold (c_Cu to c_Au), silver to gold (c_Ag to c_Au) and lead to zinc (c_Pb to c_Zn_) respectively.

FIGURE 17-41 shows the average omni-directional relative variogram of silver composites for all rock codes. SECTION 25.2 contains the complete set of variograms for all metals and sulfur.



Issued by:	Prepared for:	File Name:	
TETRA TECH 350 Indiana Street, Suite 500 Golden, Colorado 80401 (303) 217-5700 (303) 217-5705 fax	*Vista Gold Corp.*	Fig17-37.cdr	**Figure 17-37** **Correlation Relationships for the Metals & sulfur**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



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Prepared for: ***Vista Gold Corp.***

File Name: Fig17-38.cdr

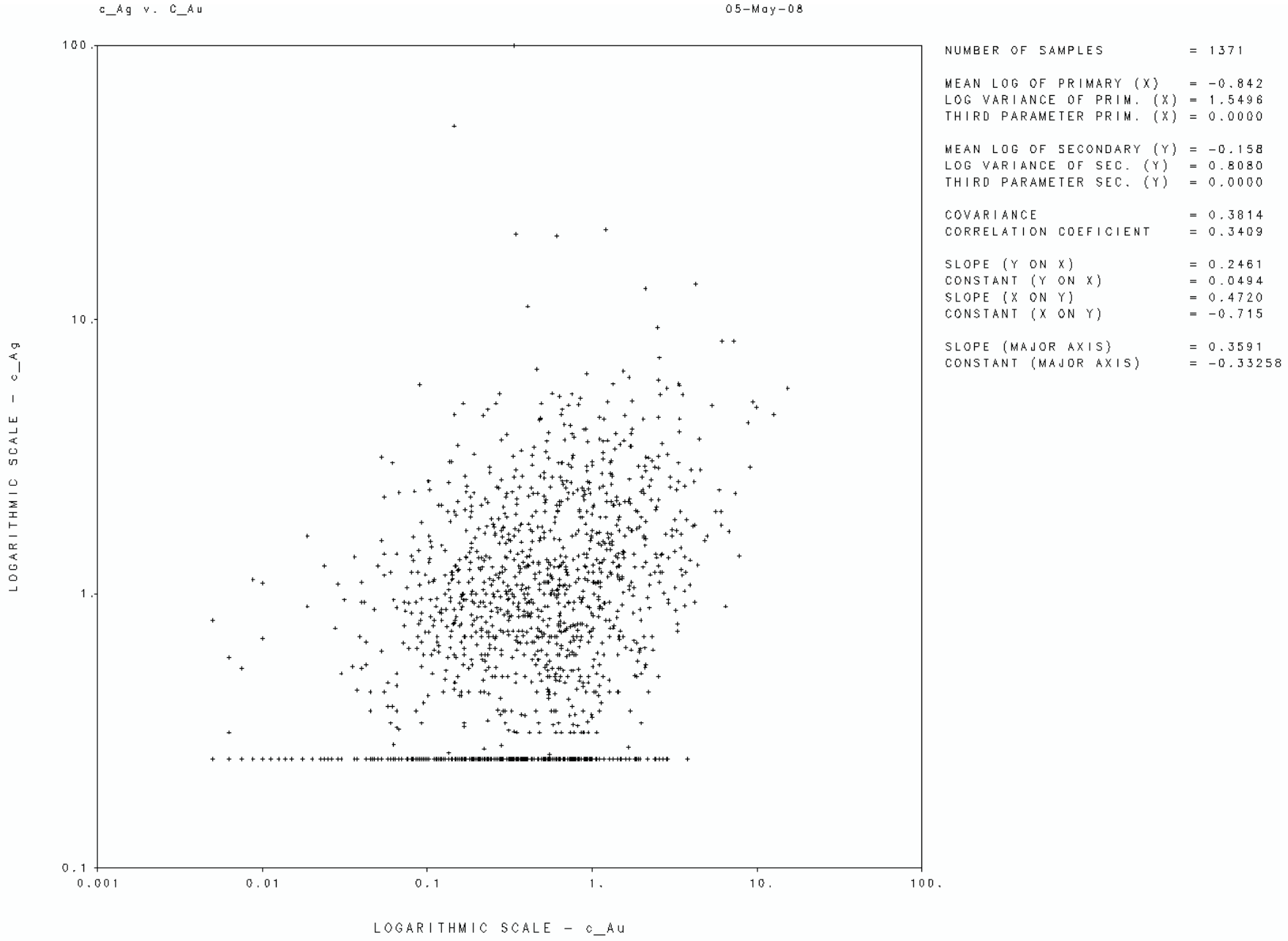
Project: Mt. Todd Gold Project

Project Number: 114-310875

Project Location: Northern Territory, Australia

Date of Issue: May/2008

Figure 17-38
Detailed Scatterplot of Log Transformed Composited Cu and Composited Au



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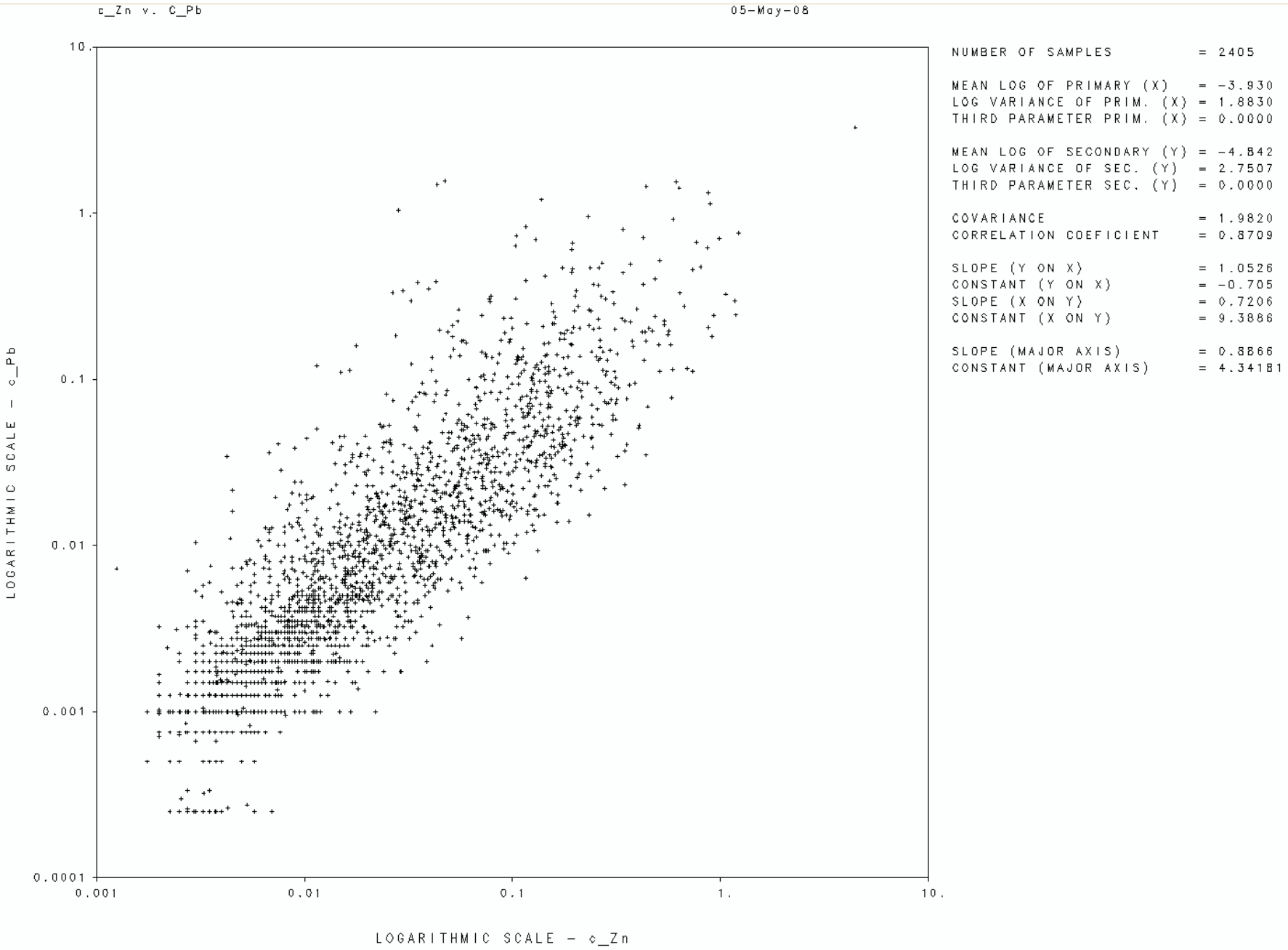
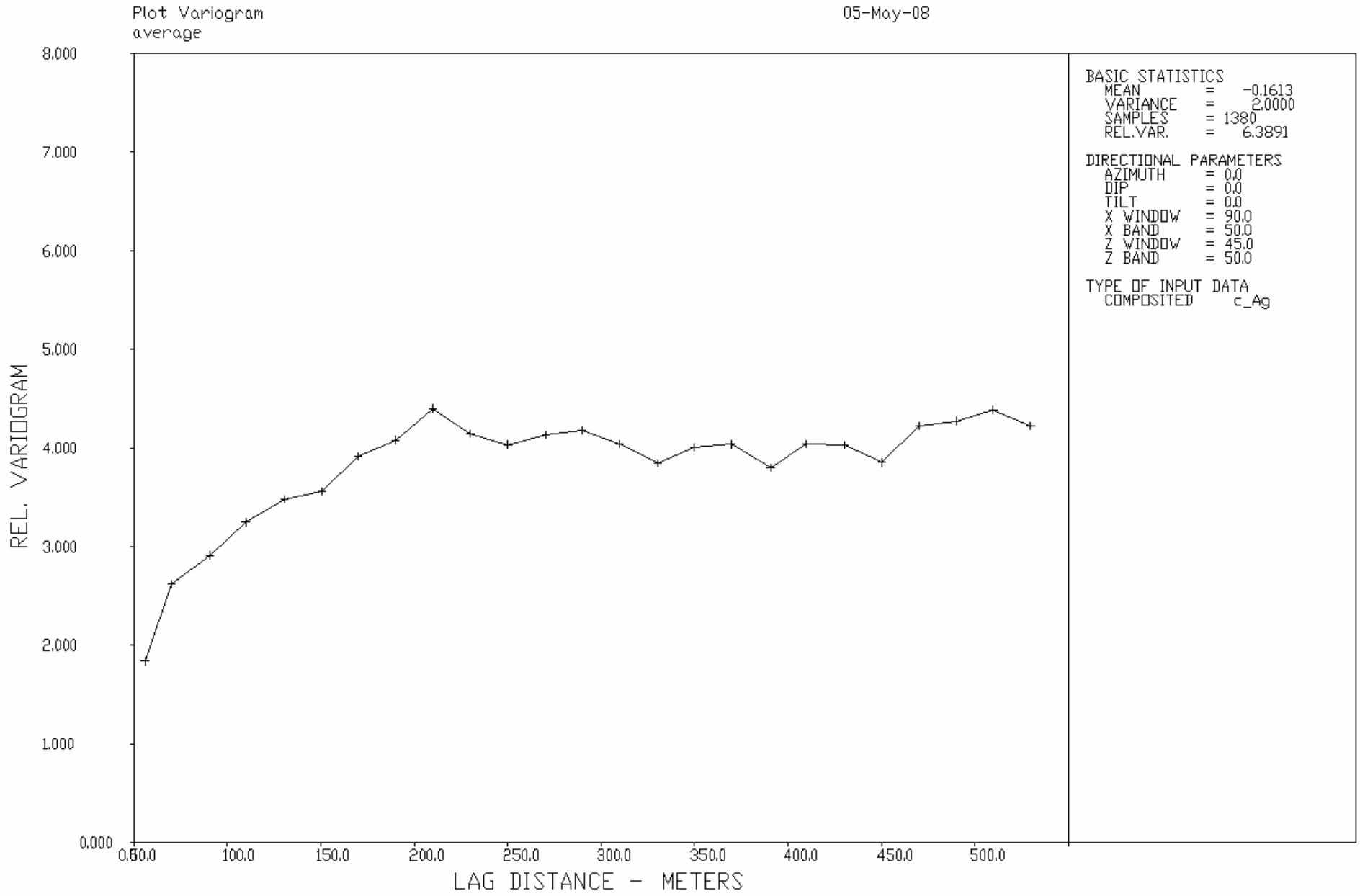
(303) 217-5700 (303) 217-5705 fax

Prepared for: *Vista Gold Corp.*		File Name: Fig17-39.cdr
Project: Mt. Todd Gold Project		Project Number: 114-310875
Project Location: Northern Territory, Australia		Date of Issue: May/2008

Figure 17-39
Detailed Scatterplot of Log Transformed Composited Ag and Composited Au



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-40.cdr	**Figure 17-40** **Detailed Scatterplot of Log Transformed Composited Pb and Composited Zn**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: May/2008	



Issued by: TETRA TECH, 350 Indiana Street, Suite 500, Golden, Colorado 80401, (303) 217-5700 (303) 217-5705 fax	Prepared for: *Vista Gold Corp.*	File Name: Fig17-41.cdr	**Figure 17-41** **Omni-directional Relative Variogram for 4-meter Composited Silver (c_Ag)**
	Project: Mt. Todd Gold Project	Project Number: 114-310875	
	Project Location: Northern Territory, Australia	Date of Issue: 05/15/2008	

17.8.3 Multi-metal kriging

Each metal and sulfur was modeled with the same anisotropy and ranges as gold. Each metal and sulfur was kriged using a sector search with four points per sector and a maximum of three points from a single drillhole. The blocks estimated for gold were used to select the blocks estimated in this study.

TABLE 17-25 shows the detailed statistics of the kriged silver. The average grade of silver blocks is 1.46 ppm (grams per tonne), with a coefficient of variation of 0.42.

SECTION 25.3 presents the statistical tables for the multi-metal kriged results.

TABLE 17-25
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Detailed statistics of block kriged silver (k_Ag)
May 2008

```
 MicroMODEL Software  -  Version 7.00   Licensed to: Tetra Tech MM, Inc | Div: Mineral Resource
 NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED    :       755          NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED :       755
 NUMBER OF SAMPLE ASSAY VALUES                    :    100685          NUMBER OF COMPOSITE ASSAY VALUES                 :     25300
 RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
 CURRENT LABEL : (G105) Kriged Grade k_Ag
```

ROCK TYPE	BLOCK COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
ALL	1092695	0	0	320719	0.25000	22.052	1.4632	0.37410	0.61164	0.4180	0.3047	0.1567	0.3959	1.46674	0.4119

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT	CUM MEAN
0.2500	0.3128	508	0.16	0.2893	508	0.16	0.2893	320719	100.00	1.4632
0.3128	0.3913	1271	0.40	0.3509	1779	0.55	0.3333	320211	99.84	1.4650
0.3913	0.4895	2143	0.67	0.4476	3922	1.22	0.3957	318940	99.45	1.4695
0.4895	0.6124	6736	2.10	0.5618	10658	3.32	0.5007	316797	98.78	1.4764
0.6124	0.7662	15388	4.80	0.6950	26046	8.12	0.6155	310061	96.68	1.4963
0.7662	0.9585	33449	10.43	0.8702	59495	18.55	0.7587	294673	91.88	1.5381
0.9585	1.1992	50475	15.74	1.0791	109970	34.29	0.9058	261224	81.45	1.6236
1.1992	1.5002	68046	21.22	1.3526	178016	55.51	1.0766	210749	65.71	1.7540
1.5002	1.8769	81065	25.28	1.6778	259081	80.78	1.2647	142703	44.49	1.9454
1.8769	2.3481	44576	13.90	2.0529	303657	94.68	1.3804	61638	19.22	2.2974
2.3481	2.9376	13127	4.09	2.5810	316784	98.77	1.4302	17062	5.32	2.9362
2.9376	3.6751	2500	0.78	3.2325	319284	99.55	1.4443	3935	1.23	4.1209
3.6751	4.5978	754	0.24	3.9785	320038	99.79	1.4502	1435	0.45	5.6687
4.5978	5.7521	213	0.07	5.1200	320251	99.85	1.4527	681	0.21	7.5402
5.7521	7.1962	151	0.05	6.4052	320402	99.90	1.4550	468	0.15	8.6417
7.1962	9.0028	147	0.05	8.0435	320549	99.95	1.4580	317	0.10	9.7070
9.0028	11.2631	111	0.03	9.9544	320660	99.98	1.4610	170	0.05	11.1454
11.2631	14.0908	45	0.01	12.3824	320705	100.00	1.4625	59	0.02	13.3862
14.0908	17.6284	11	0.00	15.4883	320716	100.00	1.4630	14	0.00	16.6125
17.6284	22.0541	3	0.00	20.7480	320719	100.00	1.4632	3	0.00	20.7349

```
   LOWER BOUND   UPPER BOUND       10000     20000     30000     40000     50000     60000     70000     80000     90000     100000
        >=            <      +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
       0.2500        0.3128|*
       0.3128        0.3913|*
       0.3913        0.4895|**
       0.4895        0.6124|*******
       0.6124        0.7662|***************
       0.7662        0.9585|********************************
       0.9585        1.1992|************************************************
       1.1992        1.5002|*****************************************************************************
       1.5002        1.8769|*************************************************************************************
       1.8769        2.3481|*********************************************
       2.3481        2.9376|*************
       2.9376        3.6751|***
       3.6751        4.5978|*
       4.5978        5.7521|
       5.7521        7.1962|
       7.1962        9.0028|
       9.0028       11.2631|
```

FIGURE 17-42 shows a “snapshot” of the kriged gold on level 125. The grades are in ppm and indicated as:

- 0.001 – 0.300 Blue
- 0.300 -- 0.500 Green
- 0.500 – 0.750 Cyan
- 0.750 – 1.000 Red
- 1.000 – 99.00 Magenta

FIGURE 17-43 shows a “snapshot” of the kriged copper on level 125. The grades are in percent (%) and indicated as:

- 0.001 – 0.005 Grey
- 0.005 -- 0.010 Blue
- 0.010 – 0.050 Green
- 0.050 – 0.100 Yellow
- 0.100 – 0.500 Red
- 0.500 – 99.00 Magenta

FIGURE 17-44 shows a “snapshot” of the kriged silver on level 125. The grades are in ppm and indicated as:

- 0.300 -- 0.500 Blue
- 0.500 – 0.750 Green
- 0.750 – 1.000 Tan
- 1.000 – 99.00 Red

FIGURE 17-45 shows a “snapshot” of the kriged iron on level 125. The grades are in percent (%) and indicated as:

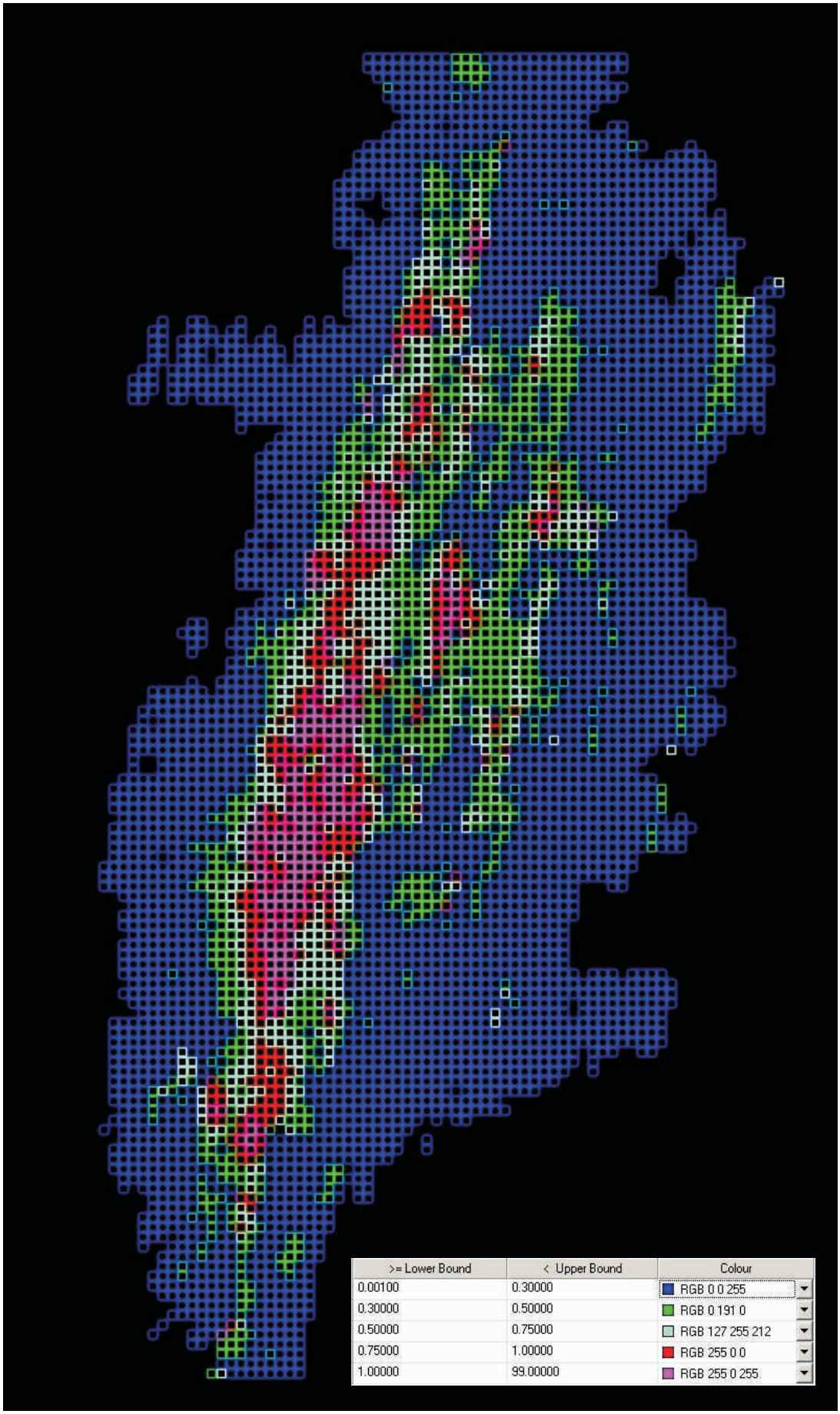
- 0.500 – 0.750 Yellow
- 0.750 – 1.000 Red
- 1.000 – 99.00 Magenta

FIGURE 17-46 shows a “snapshot” of the kriged lead on level 125. The grades are in percent (%) and indicated as:

- 0.001 – 0.300 Blue
- 0.300 -- 0.500 Tan
- 0.500 – 0.750 Green
- 0.750 – 1.000 Yellow
- 1.000 – 99.00 Red

FIGURE 17-47 shows a “snapshot” of the kriged sulfur on level 125. The grades are in percent (%) and indicated as:

- 0.300 -- 0.500 Blue
- 0.500 – 0.750 Green
- 0.750 – 1.000 Tan
- 1.000 – 99.00 Red



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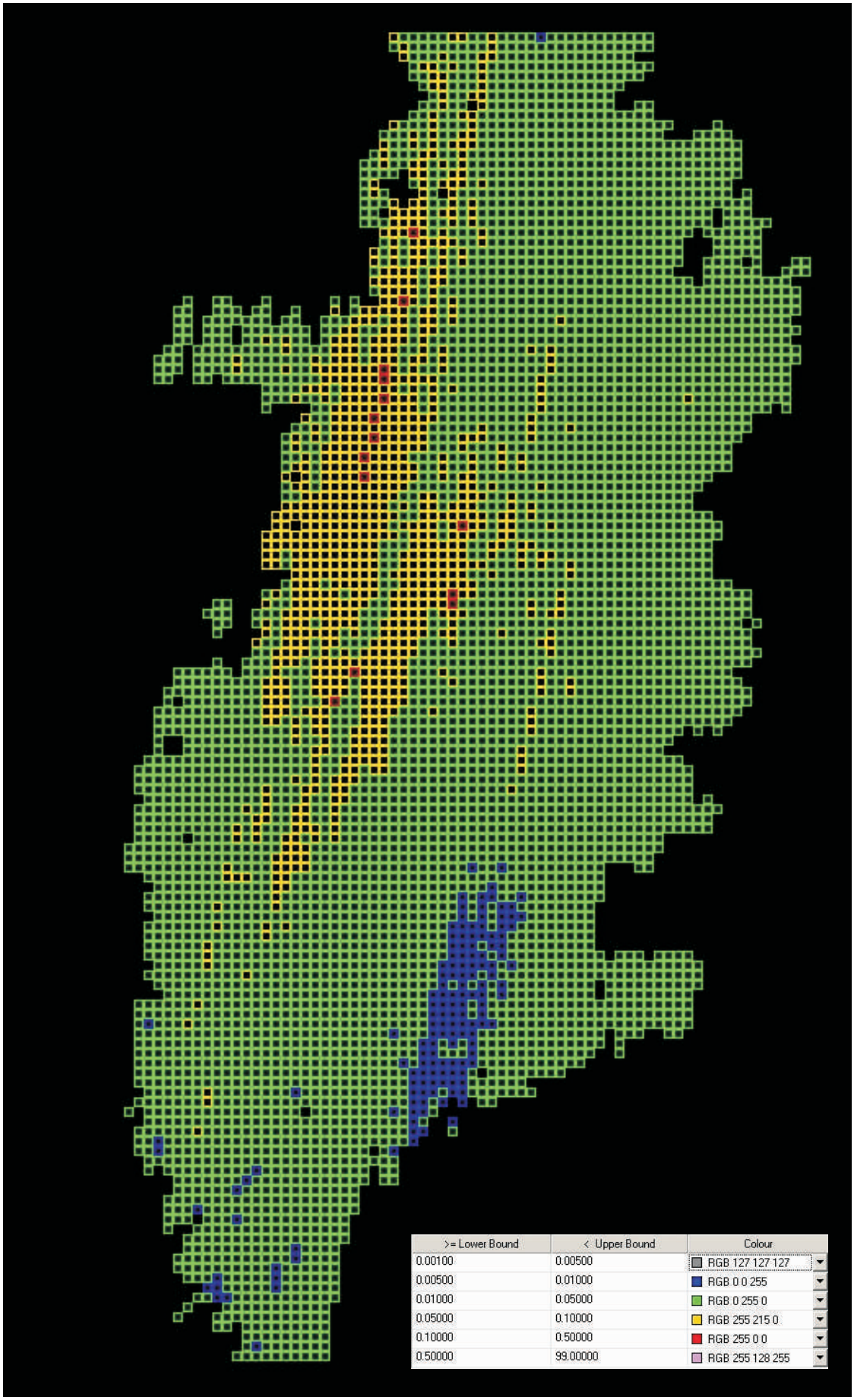
Project Location:	Northern Territory, Australia
File Name:	Fig17-42.cdr
Project Number:	114-310875
Date of Issue:	May/2008

Figure 17-42
Kriged Au (k_Au) Level 125



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Project Location: Northern Territory, Australia

File Name: Fig17-43.cdr

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Figure 17-43
Kriged Cu (k_Cu) Level 125

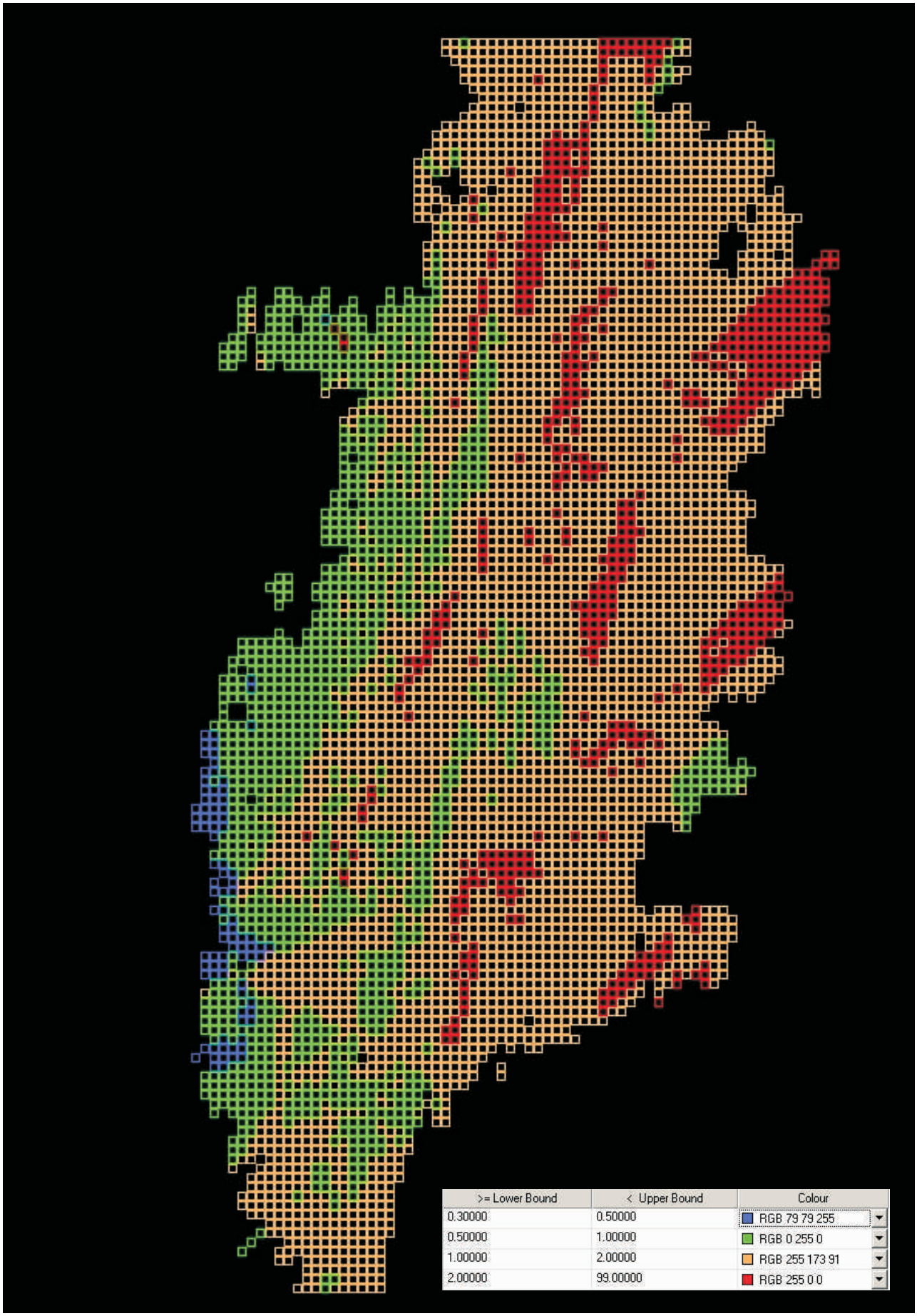

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Figure 17-44
Kriged Ag (k_Ag) Level 125

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Project:
Mt. Todd Gold Project

Project Location:
Northern Territory, Australia

File Name:
Fig17-45.cdr

Project Number:
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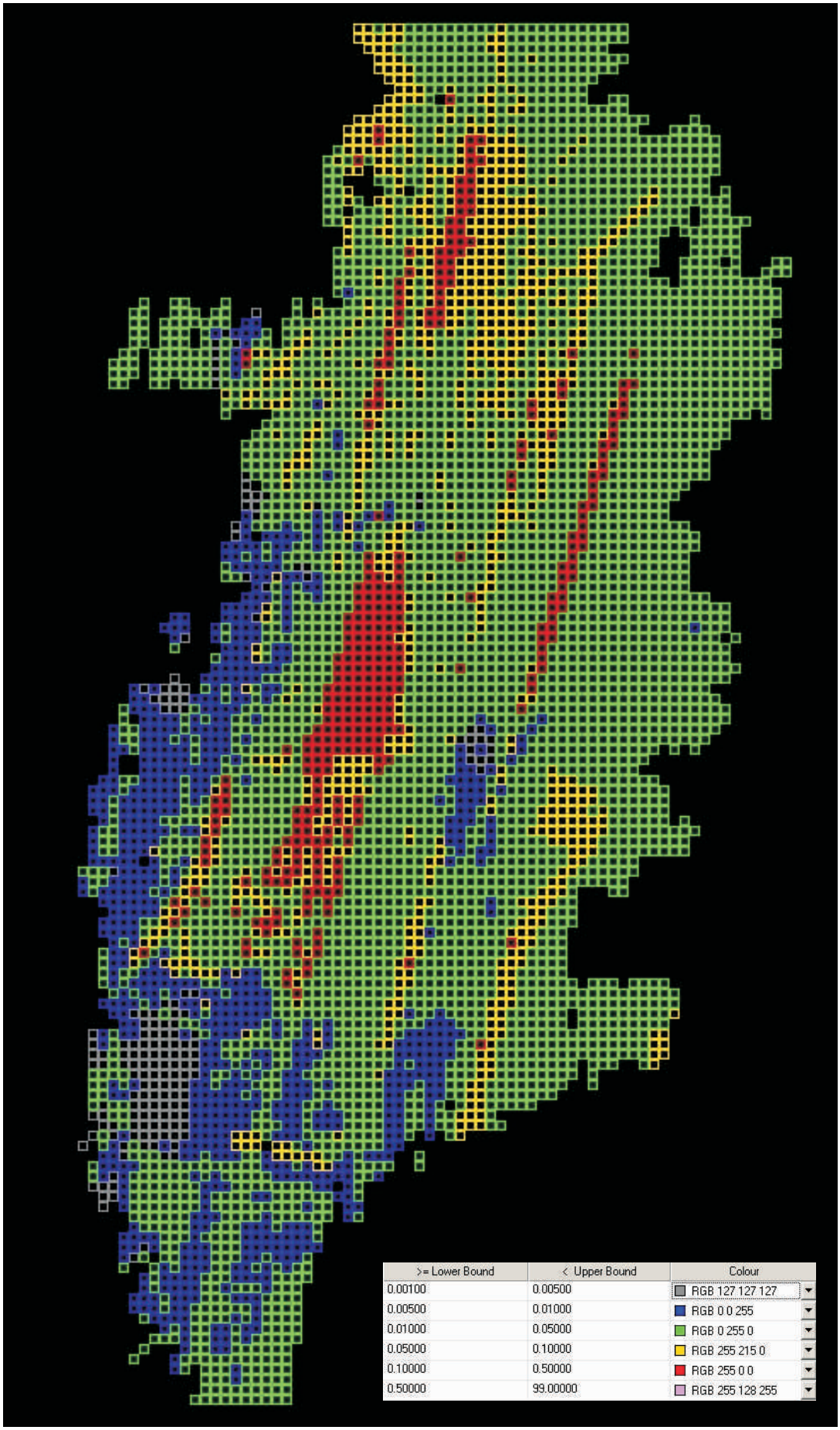
Figure 17-45
Kriged Fe (k_Fe) Level 125



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350 Indiana Street, Suite 500
Golden, Colorado 80401
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Project:
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Project Location:
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File Name:
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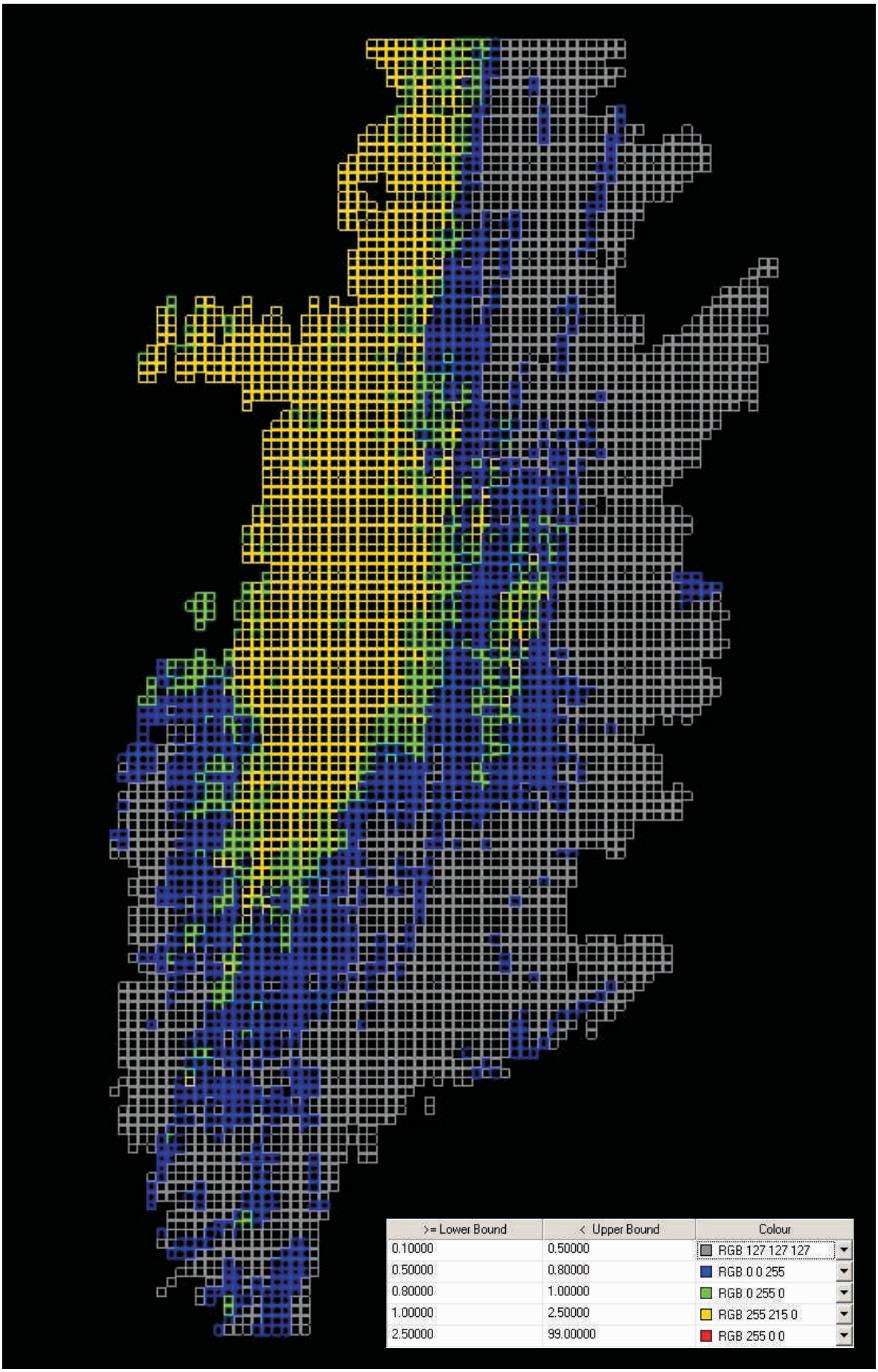
Figure 17-46
Kriged Pb (k_Pb) Level 125



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Golden, Colorado 80401
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Project: Mt. Todd Gold Project

Project Location: Northern Territory, Australia

File Name: Fig17-47.cdr

Project Number: 114-310875

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Figure 17-47
Kriged S (k_S) Level 125

17.9 Resource Estimate

At the present time, resources have only been estimated for the Batman Deposit. Tt created three-dimensional computerized geologic and grade models of the Batman Deposit. While the deposit model also contains the Quigleys Deposit, no geologic resource estimate has been made for this deposit at the present time.

The geologic model of the Batman Deposit was created by GGC and audited by Tt. The geologic model was constructed by creating three-dimensional wire-frames of the main geologic units, oxidation types, and mineralizing controls and super-imposing them on each other to create an overall numeric code that details all of the input parameters. GGC created the model based on the prior work of others, recommendations of other consultants, and General Gold's own experience. It is Tt's opinion that the GGC geologic model accurately portrays the geologic environment of the Batman Deposit.

Tt used the geologic model to guide the statistical and geostatistical analysis of the gold assay data. The analysis of the gold assays further confirmed the geologic divisions made by GGC in the geologic model. Gold grades were estimated into the individual blocks of the model by ordinary, whole-block kriging.

The rock model was then assigned a tonnage factor based on the oxidation state (i.e., oxidized, transition, primary). The tonnage factors were based on a number of tests from the core and, in Tt's opinion, are representative of the various rock units, and are acceptable for estimation of the in-place geologic resources.

The estimated gold resources were classified into measured, indicated, and inferred categories according to the parameters detailed in TABLE 17-26.

TABLE 17-26
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Gold Resource Classification Criteria
May 2008

Category	Kriging Variance	No. of Sectors	No. of Points/Sector
Measured	JAS Model < 0.30	4	4-16
Indicated	JAS Model >= 0.30 and <0.55	4	4-16
Inferred	Halo Model <0.45	3	2-8

The classification was accomplished by a combination of kriging variance, number of points used in the estimate, and number of sectors used. TABLES 17-27 and 17-28 detail the results of the classification. Copper, lead, zinc, and silver quantities and grades are presented using the gold cutoff grades and classification. All of the resources quoted are contained on Vista's mineral leases.

TABLE 17-27
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Deposit Classified Resources
May 2008

MEASURED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	1,650	2.400	127.3	1.800	95.5	0.07	2,323.2	0.06	0.08	0.02	6.88	1.59
1.75	2,969	2.161	206.3	1.783	170.2	0.07	4,002.2	0.06	0.07	0.02	6.80	1.54
1.50	5,270	1.921	325.4	1.750	296.5	0.06	6,798.3	0.06	0.08	0.01	6.75	1.49
1.25	8,822	1.697	481.4	1.690	479.2	0.06	10,921.6	0.05	0.07	0.01	6.69	1.44
1.00	14,628	1.465	688.9	1.582	743.9	0.06	17,319.6	0.05	0.07	0.01	6.61	1.38
0.90	18,187	1.364	797.3	1.529	893.9	0.06	21,060.5	0.05	0.06	0.02	6.58	1.34
0.80	22,662	1.262	919.4	1.485	1,081.8	0.06	25,608.1	0.04	0.06	0.02	6.53	1.31
0.70	28,322	1.159	1,055.4	1.453	1,323.2	0.06	31,210.8	0.04	0.06	0.02	6.48	1.27
0.60	35,229	1.059	1,199.4	1.437	1,627.7	0.05	37,554.1	0.04	0.06	0.02	6.42	1.22
0.50	43,534	0.962	1,345.8	1.430	2,001.8	0.05	45,014.2	0.04	0.06	0.02	6.36	1.17
0.40	52,966	0.870	1,481.7	1.434	2,442.1	0.05	52,754.1	0.04	0.06	0.02	6.30	1.12

INDICATED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	3,071	2.745	271.0	1.807	178.4	0.07	4,293.3	0.05	0.06	0.02	6.77	1.52
1.75	4,834	2.424	376.7	1.751	272.2	0.07	6,342.2	0.05	0.06	0.02	6.70	1.46
1.50	7,165	2.162	497.9	1.734	399.5	0.06	9,156.9	0.05	0.06	0.02	6.66	1.43
1.25	11,153	1.875	672.3	1.685	604.3	0.06	13,539.7	0.05	0.06	0.02	6.60	1.38
1.00	17,780	1.591	909.2	1.642	938.5	0.06	20,838.2	0.04	0.06	0.01	6.57	1.34
0.90	21,461	1.480	1,021.1	1.621	1,118.3	0.06	24,637.2	0.04	0.05	0.02	6.54	1.31
0.80	26,052	1.369	1,146.3	1.590	1,331.8	0.06	29,230.3	0.04	0.05	0.02	6.50	1.29
0.70	31,281	1.265	1,272.1	1.567	1,575.8	0.06	34,659.3	0.04	0.05	0.02	6.47	1.27
0.60	38,225	1.153	1,416.4	1.554	1,910.1	0.05	41,588.8	0.04	0.05	0.02	6.44	1.24
0.50	45,746	1.053	1,549.3	1.537	2,261.2	0.05	48,765.2	0.04	0.05	0.02	6.41	1.21
0.40	54,017	0.961	1,668.4	1.522	2,643.4	0.05	56,609.8	0.04	0.05	0.02	6.38	1.19

MEASURED + INDICATED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	4,721	2.624	398.3	1.804	273.9	0.07	6,609.4	0.05	0.07	0.02	6.81	1.55
1.75	7,803	2.324	583.0	1.764	442.4	0.07	10,346.8	0.05	0.07	0.02	6.74	1.49
1.50	12,436	2.059	823.4	1.741	696.1	0.06	15,967.8	0.05	0.07	0.02	6.70	1.46
1.25	19,974	1.796	1,153.5	1.687	1,083.5	0.06	24,448.2	0.05	0.07	0.02	6.64	1.40
1.00	32,408	1.534	1,598.1	1.615	1,682.3	0.06	38,176.6	0.05	0.06	0.01	6.59	1.36
0.90	39,647	1.427	1,818.3	1.579	2,012.1	0.06	45,673.3	0.04	0.06	0.02	6.56	1.33
0.80	48,713	1.319	2,065.8	1.541	2,413.6	0.06	54,850.8	0.04	0.06	0.02	6.51	1.30
0.70	59,603	1.215	2,327.5	1.513	2,899.1	0.06	65,920.9	0.04	0.05	0.02	6.47	1.27
0.60	73,454	1.108	2,615.7	1.498	3,537.9	0.05	79,036.5	0.04	0.05	0.02	6.43	1.23
0.50	89,280	1.009	2,895.1	1.485	4,262.9	0.05	93,744.0	0.04	0.05	0.02	6.38	1.20
0.40	106,984	0.916	3,150.0	1.479	5,085.5	0.05	109,337.6	0.04	0.05	0.02	6.34	1.16

VISTA GOLD CORP. – MT TODD GOLD PROJECT
Batman Deposit Classified Resources
May 2008

INFERRED RESOURCES (based on Gold Classification)

		Average Grades above Gold Cutoff Grade										
Cutoff Grade g Au/t	Tonnes (x1000)	Au Grade g Au/t	Au Ounces (x1000)	Ag Grade g Ag/t	Ag Ounces (x1000)	Cu Grade %Cu	Cu Pounds (x1000)	Pb Grade %Pb	Zn Grade %Zn	As Grade %As	Fe Grade %Fe	S Grade %S
2.00	555	2.347	41.9	2.515	44.9	0.07	784.8	0.03	0.06	0.01	6.51	1.54
1.75	1,254	2.075	83.7	2.469	99.5	0.08	1,928.7	0.03	0.05	0.02	6.53	1.56
1.50	3,015	1.800	174.5	2.362	229.0	0.07	4,377.8	0.03	0.05	0.01	6.56	1.53
1.25	6,365	1.571	321.5	2.188	447.7	0.07	8,567.3	0.03	0.04	0.01	6.53	1.48
1.00	11,993	1.355	522.4	2.062	794.9	0.06	15,063.2	0.03	0.04	0.01	6.47	1.40
0.90	15,894	1.255	641.2	1.985	1,014.4	0.06	19,136.4	0.03	0.04	0.01	6.42	1.35
0.80	21,101	1.154	783.1	1.912	1,297.4	0.06	24,223.9	0.03	0.04	0.01	6.37	1.29
0.70	28,660	1.047	964.5	1.835	1,691.1	0.05	31,067.4	0.03	0.04	0.01	6.31	1.22
0.60	40,299	0.931	1,206.2	1.767	2,288.8	0.05	41,427.4	0.03	0.04	0.02	6.23	1.15
0.50	58,815	0.810	1,531.5	1.709	3,230.9	0.05	56,815.3	0.03	0.04	0.02	6.15	1.07
0.40	85,551	0.696	1,914.9	1.657	4,556.5	0.05	78,022.5	0.03	0.04	0.02	6.08	1.00

18.0 MINERAL RESERVE ESTIMATE

At the present time, the Mt Todd gold project contains no CIM definable mineral reserves

18.1 Geotechnical Data

Little geotechnical data are available for the Mt Todd Project. Based on the mining that has occurred to date, rock conditions are assumed to be favorable for mining, with no unusual ground stability issues. It is believed that the addition of the silica as part of the mineralizing event has significantly improved the rock strength and ultimate stability of any pit that will be developed. However, additional work will need to be completed prior to re-initiation of the mining. This work should include, as a minimum the following items:

1) Re-logging of the existing core to characterize the geotechnical conditions present;
2) Examination of the core photographs for geotechnical purposes;
3) Addition of geotechnical logging to the planned exploration program to improve the stability database;
4) Inclusion of core drilling in the unmineralized hangingwall and footwall units to confirm their stability conditions; and
5) Completion of a hydrologic study to determine the potential impact any water may have on pit stability as it deepens.

19.0 OTHER RELEVANT DATA AND INFORMATION

A Preliminary Economic Assessment report was completed and submitted on December 29, 2006 and is available on the SEDAR website. This report used the previous geologic model as a basis for the results developed and presented. In addition, Vista has metallurgical Testwork currently underway at Resource Development Inc. of Wheat Ridge, Colorado and the next round of exploration drilling which are both part of the planned work program detailed in SECTION 21 of this report..

Tt is unaware of any other data and/or information that would be relevant to this report and is not contained in one of the SECTIONS of this report.

20.0 INTERPRETATION AND CONCLUSIONS

20.1 Interpretation

It is Tt's opinion that most of the past work and all of the current Vista work meets and/or exceeds the current standards and those areas that do not meet current standards have been identified within the body of this report. The work was completed by well-qualified technical professionals, reputable mining companies, and independent third-party contractors and laboratories according to standards that meet most of today's requirements.

The results of the 2007 Vista exploration program and blast hole geostatistical study provide strong support that the current geologic model and resource estimates are indicative of the mineralization present at Mt. Todd. As discussed earlier in this report the 2007 exploration program was designed to complete four main objectives:

1) Confirmation of the existing geologic and grade model;
2) Confirmation of the previous assaying programs and grades in the assay database;
3) Development of additional definition in the short-range portion of the variogram; and
4) Development of additional measured and indicated mineral resources.

All of these objectives were met and/or exceeded. The results of the 2007 exploration program added approximately 770,000 ounces of gold to the measured resource class and approximately 368,000 ounces to the indicated resource class at a 0.5 g Au/t cutoff grade. Measured and indicated resources now account for approximately 65% of the known resources at the Batman deposit.

20.2 Conclusions

It is Tt's opinion that the data used in support of and for the estimation of the geologic resources quoted in this Technical Report are compliant with CIM definitions and that the geologic resources presented meet the requirements of measured, indicated, and inferred resources under current CIM definitions.

21.0 RECOMMENDATIONS

Based on Tt's review of the database, previous studies and work products, and as an outgrowth of the geologic modeling and grade estimation work, Tt has developed the following list of recommendations for Vista's consideration.

Batman Deposit

Vista's 2007 exploration program on the Batman Deposit provided answers to three major questions; improvement of the short range portion of the gold variogram, infill drilling for improvement in the quantity of measured and indicated resources, and confirmation of the work completed by previous owners/operators. With this in mind, the following recommendations are made for the 2008 exploration program:

1. Completion of additional definitional drilling to increase the measured and indicated resource categories to a point that will support a prefeasibility and/or feasibility study.
2. Additional exploration drilling, as the deposit is still open to the north, south, and at depth.
3. Completion of additional geologic and geotechnical mapping.

Quigleys Deposit

The Quigleys Deposit is more structurally controlled than Batman with the mineralization occurring in narrower bands. Because of this, additional work will need to be undertaken in order to develop an accurate resource estimate. Tt proposes that the following items be considered when preparing the work plan:

1) Surface mapping and subsequent re-interpretation of the footwall contact to the shear zone mineralization are recommended. Any additional structural complexity that results should, where appropriate, be used to refine the mineralized envelope upon which modeling updates are based.
2) Optimization of the resource provides a focus to define areas requiring further investigation or infill drilling. Due to the high degree of variability in the deposit, infill drilling is best targeted at key areas of geological complexity.
3) A model should be developed for the area outside the shear zone. This will require separation of areas of mineralization from unmineralized areas using suitable envelope constraints.
4) The cause of the apparent bias between some of the old and new RC drilling should be confirmed to validate the inclusion of all samples in resource calculations.

Other Mineralized Occurrences

Several other known mineral occurrences occur on the concession; these are Golf, Tollis, and Horseshoe deposits. There are some indications of prior exploration work, based on maps and minor references that has involved geologic, geochemical, geophysical, and drilling. While a lower priority than Batman and Quigleys, efforts should be undertaken that:

1) Locate all available data and confirm, if possible, the validity;
2) Re-assess the data to determine if additional exploration work is warranted; and

3) Develop appropriate programs that systematically attempt to define the size and tenor of the mineralization present.

Water Management Recommendations

MWH has prepared the following recommendations (TABLE 21-1) for dealing with the water management issues at the Mt Todd Project site.

TABLE 21-1
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Proposed Water Management Program
May 2008

No.	Mitigation Methods	Cost Estimate (Aus$)
	Care and Maintenance Phase	
1	Catchment inflow diversion at RP3 (to extend the lifetime of the RP3 storage strategy and RP7 (to assist in drying and consolidation of tailings before carrying out a dam lift)	ND
2	Installation of monitoring instrumentation at Edith River gauging site SW4 to increase discharge from RP1 and improve the hydrological dataset	$20,000
3	Evaporation sprays at RP3 to extend the lifetime of the RP3 ARD storage strategy	$500,000 - $2,000,000
4	Water treatment (lime dosing) in a pond to allow year-round release of ARD excess and reduce the pit water removal requirements in advance of mining	Variable, dependant on location
5	Construction of a water treatment plant to allow year-round release of ARD excess and reduce the pit water removal requirements in advance of mining	$9,200,000
6	Release of water from the Raw Water Dam conjunctively with discharge of treated water to further dilute the discharge to environment	$0
	Operational / Closure Phases	
1	Continued application of care and maintenance mitigation methods as appropriate	As above
2	Wetland polishing of *moderately contaminated* waters prior to discharge	ND
3	Land application of *treated* wastewater to reduce sulphate levels before discharge	ND
4	Closure of the Heap Leach facility to remove one source of ARD generation	See conceptual closure plan (in prep.)
5	Incorporation of ARD generation considerations during further development of the waste rock dump.	ND

ND = Not Determined

Closure Recommendations

There are opportunities during the Mt Todd Project to conduct closure of a number of the facilities prior to or during operation, including the current HLP and TSF. Once the final raises of both TSFs are completed, then revegetation of the embankments can be initiated. In addition, it may be possible to close portions of the WRD, but this opportunity may be limited by the need for a selective waste rock placement program to help mitigate potential ARD.

As the closure plan develops, the following considerations should be made, some of which are discussed above:

- Immediate closure of the HLP;

- Early closure of existing TSF (once deposition complete);
- Locating and evaluating sources of borrow materials;
- A waste rock management strategy to reduce ARD concerns;
- Stockpiling benign waste materials for use in closure (e.g., for rock cover);
- Final placement of tailings in the TSF to minimize the need for regrading during closure;
- Vegetation test plots on TSF to determine its suitability as a growth medium, and/or amendment requirements; and
- Consideration of waste rock placement to facilitate a geomorphic slope (i.e., convex at the top and concave on the lower slopes); such designs are more erosionally stable and have a more "natural" appearance.

Major assumptions had to be made regarding the properties of the waste materials and soils that could be used for cover materials. Characterization of the waste and borrow materials which should include the physical and chemical properties should be initiated before the closure process can proceed beyond this conceptual level. The results from the characterization testing would then be used with climate and plant data to finalize the cover designs. Additional assumptions regarding the physical and erosional stability and the short and long-term water treatment requirements should also be checked using site-specific information.

Planned Work Commitments

Vista, based on the above recommendations and their own work commitments, has developed a proposed work program to be completed during the next 18 months. This program is detailed in TABLE 21-2. As with these types of programs, some of the specific work items are dependent on the results of earlier items, and it is expected that some adjustments to the program will be made based on initial results. It is Tt's opinion that the proposed program is designed to address many of the issues detailed in the recommendations above, is logical in its approach and well thought out, and is representative of the level of financial commitment necessary to complete the proposed work.

TABLE 21-2
VISTA GOLD CORP. – MT TODD GOLD PROJECT
Mt Todd Gold Project – Proposed Work Plan and Budget
May 2008

Description	**#/Units**	**Units**	**US$/Unit**	**Cost (US$)**
Infill & Exploration Drilling	7,000	m	US $275/m	1,050,000
Metallurgical Testing				100,000
Assess Previous Exploration on the mineral Leases				25,000
Geochemical Sampling				15,000
Geophysical Studies				15,000
Geologic Mapping and Prospecting				50,000
Technical Scoping Study on Batman				50,000
TOTAL				**1,305,000**

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23.0 DATE AND SIGNATURE PAGE

John W Rozelle, P.G.
Principal Geologist
Tetra Tech MM, Inc.
350- Indiana Street, Suite 500
Golden, Colorado 80401
Telephone: 303-217-5700
Facsimile: 303-217-5705
Email: john.rozelle@tetratech.com

CERTIFICATE of AUTHOR

I, John W. Rozelle, P.G., do hereby certify that:

1. I am currently employed by Tetra Tech MM, Inc. at:

   350 Indiana Street
   Suite 500
   Golden, Colorado 80401

2. I graduated with a degree in Geology (BA) from the State University of New York at Plattsburg, New York, in 1976. In addition, I graduated from the Colorado School of Mines, Golden, Colorado, with a graduate degree in Geochemistry (M.Sc.) in 1978.
3. I am a Member of the American Institute of Professional Geologists (CPG-07216), a registered Geologist in the State of Wyoming (PG-337), a member of Society for Mining, Metallurgy, and Exploration, Inc. (SME) and the Society of Economic Geologists.
4. I have worked as a geologist for a total of twenty-nine years since my graduation from university; as a graduate student, as an employee of a major mining company, and as a consultant for more than 25 years.
5. I have read the definition of "qualified person" set out in National Instrument 43-101 ("NI43-101") and certify that by reason of my education, affiliation with a professional association (as defined in NI43-101) and past relevant work experience, I fulfill the requirements to be a "qualified person" for the purposes of NI43-101.
6. I am responsible for the preparation of the technical report titled "*MT TODD GOLD PROJECT – RESOURCE UPDATE, NORTHERN TERRITORY, AUSTRALIA.*" and dated 15 May 2008 (the "Technical Report"). I visited the subject property on June 20, 2005.
7. I have either supervised the data collection, preparation, and analysis and/or personally completed an independent review and analysis of the data and written information contained in this Technical Report.
8. I have not had prior involvement with Vista Gold Corp. on the property that is the subject of this Technical Report.
9. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

10. I do not hold, nor do I expect to receive, any securities or any other interest in any corporate entity, private or public, with interests in the properties that are the subject of this report or in the properties themselves, nor do I have any business relationship with any such entity apart from a professional consulting relationship with the issuer, nor to the best of my knowledge do I have any interest in any securities of any corporate entity with property within a 2-km distance of any of the subject properties.
11. I have read National Instrument 43-101 and Form 43-101F, and the Technical Report has been prepared in compliance with that instrument and form.
12. I consent to the filing of the Technical Report with any stock exchanges or other regulatory authority and any publication by them, including electronic publication in the public company files on the websites accessible by the public, of the Technical Report.

Dated this 15th Day of May, 2008.

Signature of Qualified Person

"John W. Rozelle"

Print name of Qualified Person

AMERICAN INSTITUTE OF PROFESSIONAL GEOLOGISTS
CERTIFIED PROFESSIONAL GEOLOGICAL SCIENTIST
7216
AIPG
JOHN W. ROZELLE

15-May-2008

24.0 ADDITIONAL REQUIREMENTS FOR TECHNICAL REPORTS ON DEVELOPMENT PROPERTIES AND PRODUCTION PROPERTIES

There is no information to report for this section of this report.

25.0 ILLUSTRATIONS

25.1 Other Metal and Sulfur 4-meter Composite Statistics and Variograms

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

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3	Pb	3	c_Pb	3		k_Pb%	[% 12x12x6]
4	Zn	4	c_Zn	4		k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5		k_Ag	[ppm 12x12x6]
6	As	6	c_As	6		k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7		k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8		k_Ni%	[% 12x12x6]
9	S	9	c_S	9		k_S%	[% 12x12x6]
10	V	10	c_V	10		k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11		k_tmp2	[% 12x12x6]
				12		Flag	[All estimated k_Au blocks flagged as 1]
				13		k_temp	[ ]
				14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

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NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

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1	23	0	0	158	0.00500	1.8675	0.13673	0.06106	0.24709	1.8072	-3.0123	2.2556	1.5019	0.1519	2.9226
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	5	0	0	13	0.00500	0.82000	0.12837	0.05110	0.22606	1.7611	-3.3711	2.8782	1.6965	0.1449	4.0966
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	7	0	0	40	0.00500	1.7100	0.26675	0.13923	0.37314	1.3988	-2.5768	3.3456	1.8291	0.4050	5.2324
6	104	0	0	3332	0.00500	7.1875	0.63740	0.66483	0.81537	1.2792	-1.4436	2.9901	1.7292	1.0528	4.3459
7	1	0	0	183	0.00500	6.8025	0.52245	0.65318	0.80820	1.5469	-1.6242	2.6385	1.6244	0.7372	3.6045
8	16	0	0	564	0.00500	6.2225	0.40044	0.39425	0.62789	1.5680	-1.7817	2.2446	1.4982	0.5172	2.9046
9	9	0	0	459	0.00500	3.4375	0.35636	0.19410	0.44057	1.2363	-1.9152	2.6261	1.6205	0.5476	3.5804
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11	12	0	0	382	0.00500	10.595	0.51316	0.86127	0.92805	1.8085	-1.7004	2.6929	1.6410	0.7019	3.7114
13	1	0	0	191	0.00500	5.0700	0.36694	0.38416	0.61981	1.6891	-1.7248	1.6369	1.2794	0.4040	2.0346
14	19	0	0	1546	0.00500	4.8725	0.35490	0.24261	0.49255	1.3879	-1.6990	1.5378	1.2401	0.3945	1.9117
15	7	0	0	446	0.00500	5.4025	0.38000	0.26084	0.51072	1.3440	-1.5433	1.2421	1.1145	0.3976	1.5693
16	0	0	0	15	0.04500	1.4400	0.38475	0.13465	0.36694	0.9537	-1.3735	0.9381	0.9686	0.4048	1.2471
17	3	0	0	444	0.00500	3.7475	0.24349	0.10170	0.31891	1.3097	-1.9982	1.3539	1.1636	0.2668	1.6949
18	18	0	0	1261	0.00500	2.6033	0.22656	0.09043	0.30071	1.3273	-2.1521	1.5318	1.2377	0.2500	1.9044
100	106	0	0	7835	0.00500	9.7475	0.61477	0.47290	0.68768	1.1186	-1.1461	1.8766	1.3699	0.8124	2.3519
300	2	0	0	13	0.02625	1.4157	0.35771	0.18796	0.43354	1.2120	-1.7328	1.5823	1.2579	0.3900	1.9663
1000	81	0	0	3892	0.00500	15.455	0.87510	0.99580	0.99790	1.1403	-0.6015	1.0753	1.0370	0.93811	1.3896
2000	103	0	0	2486	0.00500	9.0575	0.61263	0.54042	0.73513	1.2000	-1.0785	1.4650	1.2104	0.7075	1.8241
3000	13	0	0	1242	0.00500	7.3725	0.48759	0.40560	0.63687	1.3061	-1.3434	1.4939	1.2222	0.5507	1.8586
ALL	530	0	0	24502	0.00500	15.455	0.58699	0.56761	0.75340	1.2835	-1.2743	2.0138	1.4191	0.7654	2.5479

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0.0075	0.0112	386	1.58	0.0091	961	3.92	0.0069	23927	97.65	0.6010
0.0112	0.0167	351	1.43	0.0134	1312	5.35	0.0086	23541	96.08	0.6107
0.0167	0.0249	390	1.59	0.0205	1702	6.95	0.0113	23190	94.65	0.6197
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0.0373	0.0557	885	3.61	0.0463	3194	13.04	0.0247	22193	90.58	0.6464
0.0557	0.0833	1195	4.88	0.0701	4389	17.91	0.0370	21308	86.96	0.6713
0.0833	0.1245	1445	5.90	0.1033	5834	23.81	0.0535	20113	82.09	0.7070
0.1245	0.1860	2193	8.95	0.1539	8027	32.76	0.0809	18668	76.19	0.7537
0.1860	0.2780	2656	10.84	0.2315	10683	43.60	0.1183	16475	67.24	0.8336
0.2780	0.4155	2952	12.05	0.3444	13635	55.65	0.1673	13819	56.40	0.9493
0.4155	0.6209	3119	12.73	0.5113	16754	68.38	0.2313	10867	44.35	1.1136
0.6209	0.9280	3014	12.30	0.7614	19768	80.68	0.3121	7748	31.62	1.3561
0.9280	1.3870	2287	9.33	1.1254	22055	90.01	0.3965	4734	19.32	1.7347
1.3870	2.0729	1421	5.80	1.6783	23476	95.81	0.4741	2447	9.99	2.3042
2.0729	3.0980	666	2.72	2.4819	24142	98.53	0.5294	1026	4.19	3.1711
3.0980	4.6301	259	1.06	3.7161	24401	99.59	0.5633	360	1.47	4.4461
4.6301	6.9199	79	0.32	5.5636	24480	99.91	0.5794	101	0.41	6.3181
6.9199	10.3420	18	0.07	8.0318	24498	99.98	0.5849	22	0.09	9.0275
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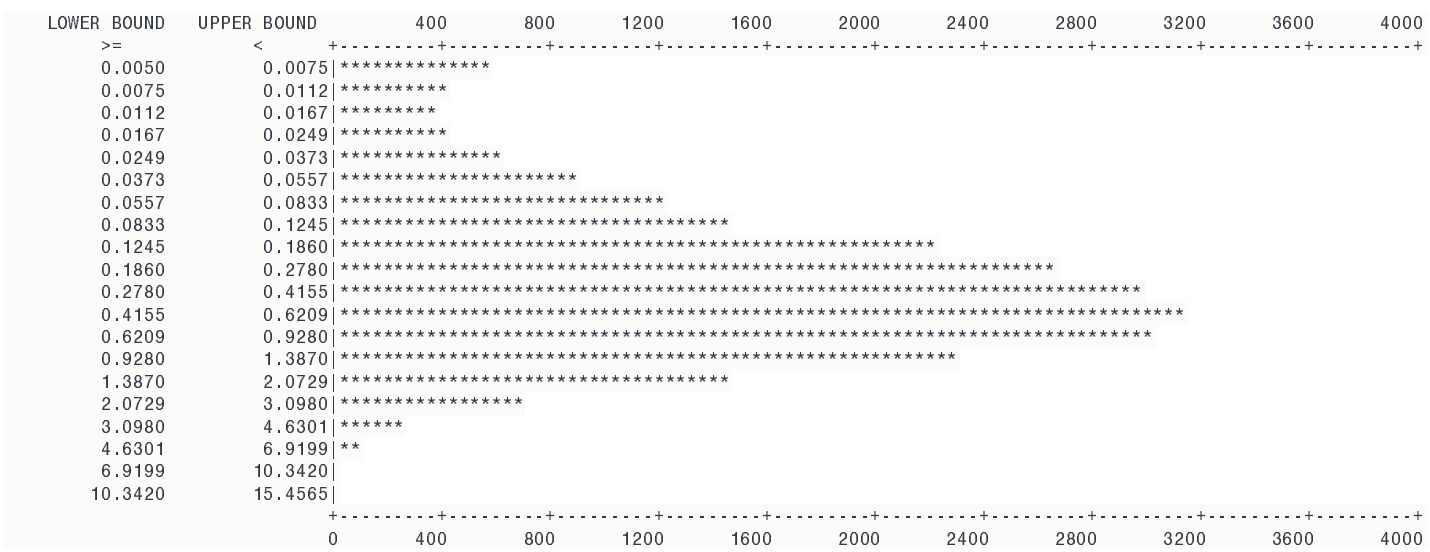

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:42 PM

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RUNTIME TITLE : Calculate Statistics

LABELS
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SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2 <*>	Cu	2 <*>	c_Cu	2 <*>	k_Cu%	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S	9	c_S	9	k_S%	[% 12x12x6]
10	V	10	c_V	10	k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2	[% 12x12x6]
				12	Flag	[All estimated k_Au blocks flagged as 1]
				13	k_temp	[ ]
				14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS :	149	ROW DIMENSION :	12.00 METERS
NUMBER OF COLUMNS :	93	COLUMN DIMENSION :	12.00 METERS
NUMBER OF LEVELS :	102	LEVEL DIMENSION :	6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED :	755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED :	755
NUMBER OF SAMPLE ASSAY VALUES :	100685	NUMBER OF COMPOSITE ASSAY VALUES :	25300

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1	156	0	0	25	0.00100	0.02025	0.00869	0.000032	0.00568	0.6534	-4.9714	0.5045	0.7103	0.0089	0.8100
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3183	0	0	253	0.00200	0.17025	0.01528	0.000284	0.01685	1.1027	-4.5608	0.6973	0.8351	0.0148	1.0042
7	159	0	0	25	0.00375	0.06075	0.02107	0.000249	0.01578	0.7490	-4.1441	0.6136	0.7833	0.0216	0.9203
8	528	0	0	52	0.00300	0.09050	0.01856	0.000268	0.01638	0.8823	-4.2708	0.5383	0.7337	0.0183	0.8445
9	434	0	0	34	0.00325	0.14450	0.03195	0.00100	0.03164	0.9904	-3.8501	0.8420	0.9176	0.0324	1.1493
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	363	0	0	31	0.00250	0.05375	0.02368	0.000228	0.01510	0.6376	-3.9880	0.5839	0.7642	0.0248	0.8906
13	154	0	0	38	0.00200	0.11330	0.02712	0.000612	0.02474	0.9120	-3.9829	0.8772	0.9366	0.0289	1.1850
14	1396	0	0	169	0.00325	0.35475	0.04492	0.00198	0.04449	0.9905	-3.4295	0.6269	0.7918	0.0443	0.9337
15	403	0	0	50	0.00620	0.12200	0.04089	0.000685	0.02618	0.6402	-3.3902	0.4062	0.6373	0.0413	0.7079
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	386	0	0	61	0.00325	0.27625	0.03506	0.00144	0.03789	1.0805	-3.6988	0.7001	0.8367	0.0351	1.0069
18	1017	0	0	262	0.00300	0.23250	0.03017	0.000799	0.02827	0.9372	-3.8349	0.6767	0.8226	0.0303	0.9836
100	7852	0	0	89	0.00150	0.11650	0.03103	0.000680	0.02608	0.8406	-3.8690	0.9594	0.9795	0.0337	1.2689
300	4	0	0	11	0.02333	0.17725	0.05781	0.00181	0.04258	0.7366	-3.0095	0.2636	0.5134	0.0563	0.5492
1000	2934	0	0	1039	0.00225	0.36225	0.05214	0.00230	0.04791	0.9188	-3.3073	0.7559	0.8694	0.0534	1.0628
2000	2038	0	0	551	0.000500	0.36450	0.05242	0.00226	0.04754	0.9068	-3.3602	0.9953	0.9977	0.0571	1.3060
3000	795	0	0	460	0.00300	0.87220	0.04580	0.00397	0.06297	1.3748	-3.5587	0.8977	0.9475	0.0446	1.2058
ALL	21882	0	0	3150	0.000500	0.87220	0.04306	0.00217	0.04658	1.0819	-3.5846	0.9431	0.9711	0.0445	1.2521

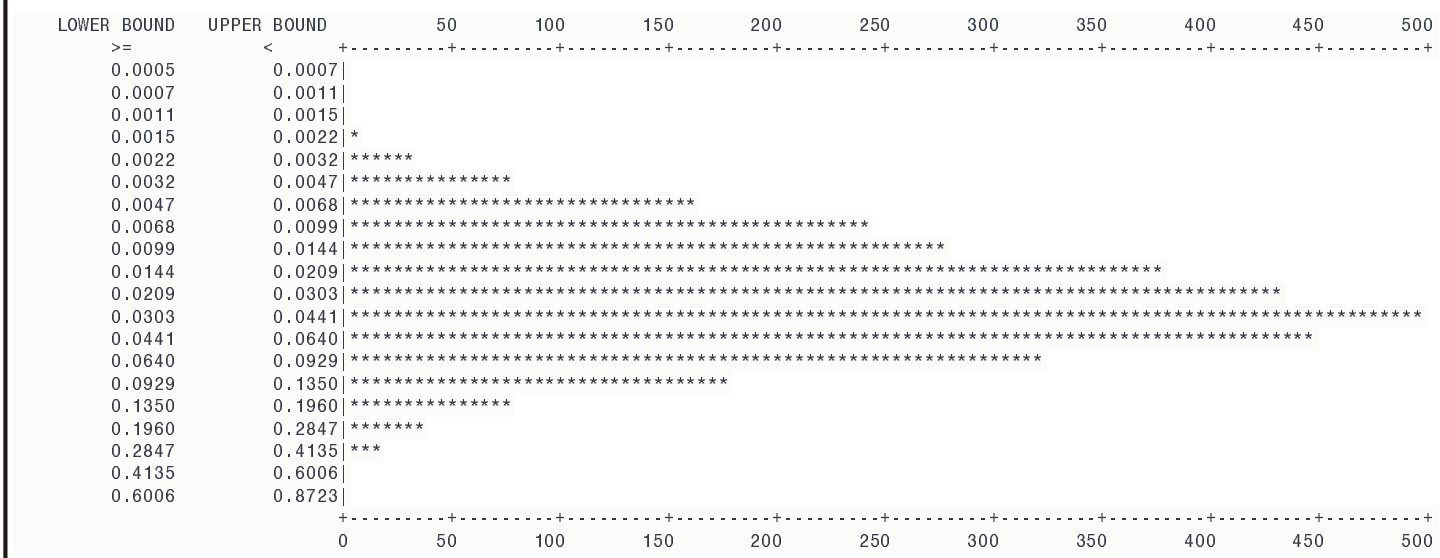
RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Cu

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.0005	0.0007	1	0.03	0.0005	1	0.03	0.0005	3150	100.00	0.0431
0.0007	0.0011	1	0.03	0.0010	2	0.06	0.0008	3149	99.97	0.0431
0.0011	0.0015	1	0.03	0.0015	3	0.10	0.0010	3148	99.94	0.0431
0.0015	0.0022	4	0.13	0.0019	7	0.22	0.0015	3147	99.90	0.0431
0.0022	0.0032	30	0.95	0.0027	37	1.17	0.0025	3143	99.78	0.0432
0.0032	0.0047	77	2.44	0.0039	114	3.62	0.0034	3113	98.83	0.0435
0.0047	0.0068	162	5.14	0.0057	276	8.76	0.0048	3036	96.38	0.0445
0.0068	0.0099	239	7.59	0.0084	515	16.35	0.0064	2874	91.24	0.0467
0.0099	0.0144	274	8.70	0.0120	789	25.05	0.0084	2635	83.65	0.0502
0.0144	0.0209	373	11.84	0.0175	1162	36.89	0.0113	2361	74.95	0.0546
0.0209	0.0303	430	13.65	0.0254	1592	50.54	0.0151	1988	63.11	0.0616
0.0303	0.0441	493	15.65	0.0369	2085	66.19	0.0202	1558	49.46	0.0716
0.0441	0.0640	445	14.13	0.0534	2530	80.32	0.0261	1065	33.81	0.0877
0.0640	0.0929	319	10.13	0.0768	2849	90.44	0.0317	620	19.68	0.1124
0.0929	0.1350	176	5.59	0.1109	3025	96.03	0.0364	301	9.56	0.1501
0.1350	0.1960	73	2.32	0.1594	3098	98.35	0.0392	125	3.97	0.2054
0.1960	0.2847	35	1.11	0.2287	3133	99.46	0.0414	52	1.65	0.2700
0.2847	0.4135	16	0.51	0.3226	3149	99.97	0.0428	17	0.54	0.3549
0.4135	0.6006	0	0.00	0.0000	3149	99.97	0.0428	1	0.03	0.8722
0.6006	0.8723	1	0.03	0.8722	3150	100.00	0.0431	1	0.03	0.8722

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_Cu



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:43 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2 <*>	Cu	2	c_Cu	2 <*>	k_Cu%	[% 12x12x6]
3	Pb	3 <*>	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S	9	c_S	9	k_S%	[% 12x12x6]
10	V	10	c_V	10	k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2	[% 12x12x6]
				12	Flag	[All estimated k_Au blocks flagged as 1]
				13	k_temp	[ ]
				14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Pb

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED COEF. MEAN	COEF. OF VAR.
1	173	0	0	8	0.00267	0.08300	0.01896	0.000723	0.02688	1.4180	-4.5522	0.9808	0.9904	0.0172	1.2910
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3252	0	0	184	0.00100	0.83125	0.04982	0.01509	0.12282	2.4654	-4.4531	2.5204	1.5876	0.0411	3.3813
7	160	0	0	24	0.00150	0.20325	0.01657	0.00171	0.04130	2.4924	-5.1532	1.3647	1.1682	0.0114	1.7072
8	530	0	0	50	0.00150	0.09750	0.01167	0.000319	0.01787	1.5309	-5.1132	1.1131	1.0551	0.0105	1.4296
9	440	0	0	28	0.00100	0.21700	0.02387	0.00250	0.05001	2.0948	-5.0408	2.2768	1.5089	0.0202	2.9573
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	371	0	0	23	0.000750	0.01350	0.00310	0.000009	0.00300	0.9683	-6.0849	0.5394	0.7344	0.0030	0.8455
13	161	0	0	31	0.00100	0.15625	0.01593	0.000907	0.03011	1.8908	-5.0743	1.5033	1.2261	0.0133	1.8699
14	1411	0	0	154	0.000500	1.4506	0.03641	0.02610	0.16154	4.4373	-4.9452	2.1082	1.4520	0.0204	2.6895
15	412	0	0	41	0.000750	0.20550	0.01819	0.00148	0.03848	2.1157	-5.2735	2.1713	1.4735	0.0152	2.7874
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	399	1	0	47	0.000250	0.31565	0.04283	0.00437	0.06613	1.5440	-4.3462	2.8058	1.6750	0.0527	3.9421
18	1151	0	0	128	0.00100	0.46885	0.03710	0.00502	0.07084	1.9093	-4.5101	2.6705	1.6342	0.0418	3.6671
100	7866	0	0	75	0.00150	0.44083	0.07804	0.01071	0.10349	1.3261	-3.2553	1.4649	1.2103	0.0802	1.8240
300	4	0	0	11	0.00100	0.11755	0.02123	0.00119	0.03446	1.6228	-4.9276	2.3473	1.5321	0.0234	3.0753
1000	3172	0	0	801	0.000250	3.2800	0.04483	0.03156	0.17766	3.9631	-4.8828	2.8944	1.7013	0.0322	4.1318
2000	2131	2	0	456	0.000250	0.79682	0.02786	0.00670	0.08187	2.9388	-5.2608	2.7633	1.6623	0.0207	3.8539
3000	911	0	0	344	0.000250	1.5480	0.04119	0.01505	0.12268	2.9784	-4.6618	2.7298	1.6522	0.0370	3.7855
ALL	22624	3	0	2405	0.000250	3.2800	0.03888	0.01765	0.13284	3.4164	-4.8420	2.7496	1.6582	0.0312	3.8257

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Pb

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.0003	0.0004	19	0.79	0.0003	19	0.79	0.0003	2405	100.00	0.0389
0.0004	0.0006	13	0.54	0.0005	32	1.33	0.0004	2386	99.21	0.0392
0.0006	0.0010	232	9.65	0.0010	264	10.98	0.0009	2373	98.67	0.0394
0.0010	0.0017	183	7.61	0.0014	447	18.59	0.0011	2141	89.02	0.0436
0.0017	0.0027	313	13.01	0.0021	760	31.60	0.0015	1958	81.41	0.0475
0.0027	0.0043	280	11.64	0.0034	1040	43.24	0.0020	1645	68.40	0.0561
0.0043	0.0069	218	9.06	0.0055	1258	52.31	0.0026	1365	56.76	0.0670
0.0069	0.0111	211	8.77	0.0088	1469	61.08	0.0035	1147	47.69	0.0787
0.0111	0.0178	211	8.77	0.0143	1680	69.85	0.0049	936	38.92	0.0944
0.0178	0.0286	177	7.36	0.0227	1857	77.21	0.0066	725	30.15	0.1177
0.0286	0.0460	166	6.90	0.0369	2023	84.12	0.0090	548	22.79	0.1484
0.0460	0.0739	113	4.70	0.0574	2136	88.81	0.0116	382	15.88	0.1969
0.0739	0.1187	97	4.03	0.0941	2233	92.85	0.0152	269	11.19	0.2555
0.1187	0.1908	66	2.74	0.1501	2299	95.59	0.0191	172	7.15	0.3465
0.1908	0.3065	53	2.20	0.2336	2352	97.80	0.0239	106	4.41	0.4689
0.3065	0.4924	27	1.12	0.3914	2379	98.92	0.0281	53	2.20	0.7041
0.4924	0.7911	12	0.50	0.6495	2391	99.42	0.0312	26	1.08	1.0289
0.7911	1.2709	7	0.29	0.9847	2398	99.71	0.0340	14	0.58	1.3541
1.2709	2.0418	6	0.25	1.4640	2404	99.96	0.0375	7	0.29	1.7235
2.0418	3.2803	1	0.04	3.2800	2405	100.00	0.0389	1	0.04	3.2800

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_Pb

LOWER BOUND >=	UPPER BOUND <	40 80 120 160 200 240 280 320 360 400
0.0003	0.0004	*****
0.0004	0.0006	***
0.0006	0.0010	**********
0.0010	0.0017	**********
0.0017	0.0027	**********
0.0027	0.0043	**********
0.0043	0.0069	**********
0.0069	0.0111	**********
0.0111	0.0178	**********
0.0178	0.0286	**********
0.0286	0.0460	**********
0.0460	0.0739	**********
0.0739	0.1187	**********
0.1187	0.1908	**********
0.1908	0.3065	**********
0.3065	0.4924	*******
0.4924	0.7911	***
0.7911	1.2709	**
1.2709	2.0418	**
2.0418	3.2803	

0 40 80 120 160 200 240 280 320 360 400

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:44 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2 <*>	Cu	2	c_Cu	2 <*>	k_Cu%	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn	4 <*>	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S	9	c_S	9	k_S%	[% 12x12x6]
10	V	10	c_V	10	k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2	[% 12x12x6]
				12	Flag	[All estimated k_Au blocks flagged as 1]
				13	k_temp	[ ]
				14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Zn

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	156	0	0	25	0.00375	0.09525	0.01467	0.000348	0.01865	1.2713	-4.5726	0.5219	0.7224	0.0134	0.8278
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3183	0	0	253	0.00325	0.73325	0.03867	0.00500	0.07074	1.8291	-4.0673	1.3185	1.1482	0.0331	1.6546
7	159	0	0	25	0.00525	0.10000	0.02076	0.000613	0.02476	1.1926	-4.3541	0.7987	0.8937	0.0192	1.1057
8	528	0	0	52	0.00450	0.25800	0.03613	0.00347	0.05888	1.6297	-4.0982	1.2319	1.1099	0.0307	1.5581
9	434	0	0	34	0.00225	0.20050	0.03307	0.00224	0.04730	1.4304	-4.2012	1.4774	1.2155	0.0314	1.8389
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	363	0	0	31	0.00325	0.05050	0.01053	0.000082	0.00905	0.8589	-4.7681	0.3640	0.6033	0.0102	0.6626
13	154	0	0	38	0.00400	0.26450	0.03098	0.00214	0.04623	1.4921	-4.0295	0.9203	0.9593	0.0282	1.2289
14	1396	0	0	169	0.00275	0.43998	0.03962	0.00339	0.05824	1.4702	-4.0430	1.5871	1.2598	0.0388	1.9722
15	403	0	0	50	0.00250	0.87000	0.04341	0.01722	0.13122	3.0233	-4.4115	1.6672	1.2912	0.0279	2.0730
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	386	0	0	61	0.00325	0.26425	0.03734	0.00246	0.04960	1.3281	-3.9440	1.2875	1.1347	0.0369	1.6197
18	1017	0	0	262	0.00250	0.48425	0.02771	0.00298	0.05463	1.9717	-4.4842	1.4193	1.1914	0.0229	1.7704
100	7852	0	0	89	0.00450	0.33900	0.04671	0.00316	0.05619	1.2031	-3.5472	0.8992	0.9483	0.0452	1.2073
300	4	0	0	11	0.00270	0.12828	0.03209	0.00153	0.03917	1.2205	-4.2390	1.8243	1.3507	0.0359	2.2801
1000	2934	0	0	1039	0.00125	4.4500	0.05410	0.03084	0.17560	3.2457	-4.1705	2.0742	1.4402	0.0436	2.6378
2000	2038	0	0	551	0.00170	1.2203	0.04108	0.01007	0.10037	2.4434	-4.3604	1.7953	1.3399	0.0313	2.2408
3000	795	0	0	460	0.00168	1.0550	0.05883	0.01584	0.12584	2.1392	-4.0328	2.1416	1.4634	0.0517	2.7410
ALL	21882	0	0	3150	0.00125	4.4500	0.04571	0.01570	0.12530	2.7409	-4.1846	1.8016	1.3422	0.0375	2.2493

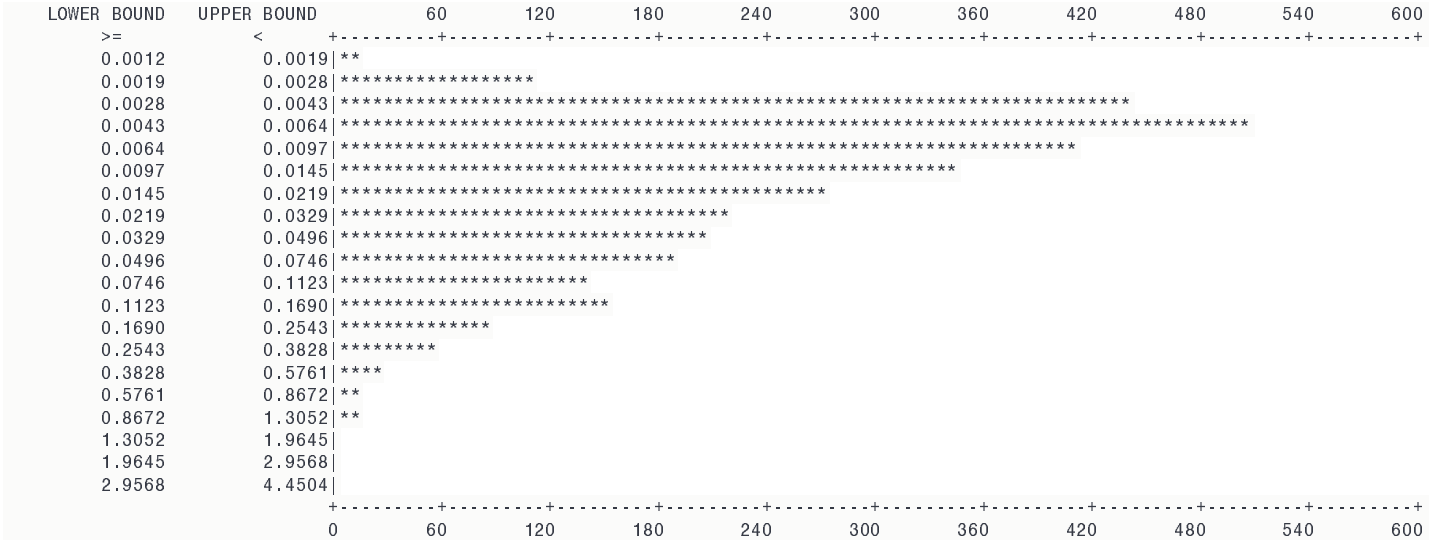
RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Zn

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.0012	0.0019	12	0.38	0.0016	12	0.38	0.0016	3150	100.00	0.0457
0.0019	0.0028	110	3.49	0.0024	122	3.87	0.0023	3138	99.62	0.0459
0.0028	0.0043	436	13.84	0.0036	558	17.71	0.0034	3028	96.13	0.0475
0.0043	0.0064	502	15.94	0.0053	1060	33.65	0.0043	2592	82.29	0.0548
0.0064	0.0097	405	12.86	0.0079	1465	46.51	0.0053	2090	66.35	0.0667
0.0097	0.0145	339	10.76	0.0118	1804	57.27	0.0065	1685	53.49	0.0809
0.0145	0.0219	268	8.51	0.0179	2072	65.78	0.0080	1346	42.73	0.0983
0.0219	0.0329	215	6.83	0.0269	2287	72.60	0.0097	1078	34.22	0.1183
0.0329	0.0496	204	6.48	0.0403	2491	79.08	0.0122	863	27.40	0.1410
0.0496	0.0746	184	5.84	0.0612	2675	84.92	0.0156	659	20.92	0.1722
0.0746	0.1123	137	4.35	0.0914	2812	89.27	0.0193	475	15.08	0.2152
0.1123	0.1690	148	4.70	0.1374	2960	93.97	0.0252	338	10.73	0.2654
0.1690	0.2543	85	2.70	0.2039	3045	96.67	0.0302	190	6.03	0.3652
0.2543	0.3828	56	1.78	0.3022	3101	98.44	0.0351	105	3.33	0.4958
0.3828	0.5761	25	0.79	0.4674	3126	99.24	0.0386	49	1.56	0.7169
0.5761	0.8672	13	0.41	0.6847	3139	99.65	0.0412	24	0.76	0.9768
0.8672	1.3052	10	0.32	1.0091	3149	99.97	0.0443	11	0.35	1.3219
1.3052	1.9645	0	0.00	0.0000	3149	99.97	0.0443	1	0.03	4.4500
1.9645	2.9568	0	0.00	0.0000	3149	99.97	0.0443	1	0.03	4.4500
2.9568	4.4504	1	0.03	4.4500	3150	100.00	0.0457	1	0.03	4.4500

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_Zn



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:44 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS		COMPOSITE LABELS		GRADE	LABELS	
1	Au		1 c_Au		1	k_Au	[ppm 12x12x6]
2	<*> Cu		2 c_Cu		2	<*> k_Cu%	[% 12x12x6]
3	Pb		3 c_Pb		3	k_Pb%	[% 12x12x6]
4	Zn		4 c_Zn		4	k_Zn%	[% 12x12x6]
5	Ag		5	<*> c_Ag	5	k_Ag	[ppm 12x12x6]
6	As		6 c_As		6	k_As%	[% 12x12x6]
7	Fe		7 c_Fe		7	k_Fe%	[% 12x12x6]
8	Ni		8 c_Ni		8	k_Ni%	[% 12x12x6]
9	S		9 c_S		9	k_S%	[% 12x12x6]
10	V		10 c_V		10	k_V	[ppm12x12x6]
11	tmp2		11 c_tmp2		11	k_tmp2	[% 12x12x6]
					12	Flag	[All estimated k_Au blocks flagged as 1]
					13	k_temp	[ ]
					14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Ag

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	181	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3347	0	0	89	0.25000	6.5000	0.70874	0.73522	0.85745	1.2098	-0.6850	0.5426	0.7366	0.66121	0.8488
7	172	0	0	12	0.25000	2.4333	0.83861	0.31469	0.56097	0.6689	-0.3302	0.2884	0.5370	0.83023	0.5781
8	566	0	0	14	0.25000	1.2625	0.73869	0.16775	0.40958	0.5545	-0.5016	0.4628	0.6803	0.76323	0.7672
9	459	0	0	9	0.25000	2.1667	1.0741	0.55443	0.74460	0.6933	-0.1695	0.5196	0.7208	1.09447	0.8254
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	378	0	0	16	0.25000	0.90000	0.41068	0.06632	0.25753	0.6271	-1.0420	0.2708	0.5204	0.4039	0.5577
13	180	0	0	12	0.75000	2.9250	1.2431	0.34759	0.58956	0.4743	0.1443	0.1259	0.3548	1.23026	0.3663
14	1504	0	0	61	0.53333	20.220	1.7550	6.6806	2.5847	1.4728	0.2667	0.3819	0.6180	1.58030	0.6820
15	446	0	0	7	0.54250	2.1000	1.0851	0.30182	0.54938	0.5063	-0.0247	0.2123	0.4607	1.08489	0.4863
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	407	0	0	40	0.25000	3.2000	1.0057	0.62047	0.78770	0.7833	-0.3093	0.6763	0.8224	1.02922	0.9832
18	1206	0	0	73	0.25000	4.7000	1.0964	1.3388	1.1571	1.0553	-0.4030	0.9513	0.9754	1.07541	1.2606
100	7886	0	0	55	0.25000	5.8125	1.7527	1.9796	1.4070	0.8028	0.3037	0.5098	0.7140	1.74835	0.8155
300	10	0	0	5	0.69355	1.5757	1.1235	0.10779	0.32832	0.2922	0.0802	0.0751	0.2741	1.12504	0.2794
1000	3456	0	0	517	0.25000	21.300	1.3966	3.6111	1.9003	1.3607	-0.1229	0.8387	0.9158	1.34506	1.1460
2000	2293	0	0	296	0.25000	100.00	1.5662	42.416	6.5127	4.1582	-0.2802	0.8736	0.9347	1.16946	1.1813
3000	1081	0	0	174	0.25000	8.3200	1.5592	1.9231	1.3868	0.8894	0.1199	0.6532	0.8082	1.56278	0.9600
ALL	23652	0	0	1380	0.25000	100.00	1.3830	11.261	3.3557	2.4265	-0.1613	0.8055	0.8975	1.27302	1.1125

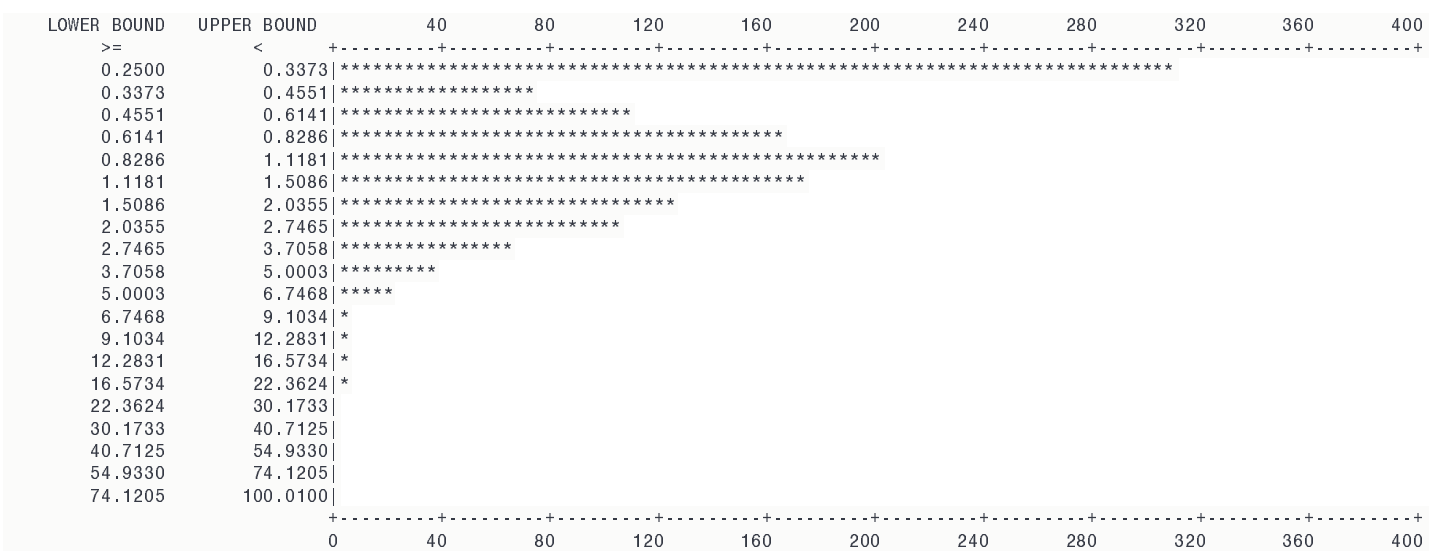
RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Ag

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.2500	0.3373	307	22.25	0.2559	307	22.25	0.2559	1380	100.00	1.3830
0.3373	0.4551	71	5.14	0.3977	378	27.39	0.2826	1073	77.75	1.7054
0.4551	0.6141	108	7.83	0.5374	486	35.22	0.3392	1002	72.61	1.7981
0.6141	0.8286	165	11.96	0.7194	651	47.17	0.4355	894	64.78	1.9504
0.8286	1.1181	200	14.49	0.9685	851	61.67	0.5608	729	52.83	2.2290
1.1181	1.5086	171	12.39	1.2819	1022	74.06	0.6814	529	38.33	2.7056
1.5086	2.0355	125	9.06	1.7456	1147	83.12	0.7974	358	25.94	3.3856
2.0355	2.7465	102	7.39	2.3580	1249	90.51	0.9249	233	16.88	4.2655
2.7465	3.7058	62	4.49	3.1483	1311	95.00	1.0300	131	9.49	5.7507
3.7058	5.0003	37	2.68	4.3552	1348	97.68	1.1213	69	5.00	8.0891
5.0003	6.7468	20	1.45	5.6630	1368	99.13	1.1877	32	2.32	12.4065
6.7468	9.1034	3	0.22	7.9650	1371	99.35	1.2025	12	0.87	23.6456
9.1034	12.2831	2	0.14	10.2675	1373	99.49	1.2157	9	0.65	28.8725
12.2831	16.5734	2	0.14	13.2500	1375	99.64	1.2332	7	0.51	34.1882
16.5734	22.3624	3	0.22	20.6558	1378	99.86	1.2755	5	0.36	42.5635
22.3624	30.1733	0	0.00	0.0000	1378	99.86	1.2755	2	0.14	75.4250
30.1733	40.7125	0	0.00	0.0000	1378	99.86	1.2755	2	0.14	75.4250
40.7125	54.9330	1	0.07	50.8500	1379	99.93	1.3115	2	0.14	75.4250
54.9330	74.1205	0	0.00	0.0000	1379	99.93	1.3115	1	0.07	100.0000
74.1205	100.0100	1	0.07	100.0000	1380	100.00	1.3830	1	0.07	100.0000

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_Ag



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:45 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1		Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2	<*>	Cu	2		c_Cu	2	<*>	k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6	<*>	c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9		c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_As

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED COEF. MEAN	COEF. OF VAR.
1	156	0	0	25	0.00225	0.49738	0.05190	0.01238	0.11125	2.1438	-4.2996	2.2336	1.4945	0.0415	2.8868
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3183	0	0	253	0.00100	2.1478	0.01793	0.01889	0.13744	7.6664	-5.3183	0.7936	0.8909	0.0073	1.1006
7	159	0	0	25	0.00225	0.13575	0.01091	0.000683	0.02613	2.3952	-5.1208	0.5683	0.7539	0.0079	0.8748
8	528	0	0	52	0.00175	0.03900	0.00952	0.000081	0.00902	0.9474	-4.9441	0.4884	0.6989	0.0091	0.7936
9	434	0	0	34	0.00167	0.06950	0.01172	0.000236	0.01536	1.3104	-5.0246	0.9935	0.9967	0.0108	1.3041
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	363	0	0	31	0.00150	0.01575	0.00463	0.000007	0.00257	0.5557	-5.4858	0.2072	0.4551	0.0046	0.4798
13	154	0	0	38	0.00250	0.07420	0.01002	0.000205	0.01432	1.4285	-4.9993	0.5295	0.7277	0.0088	0.8355
14	1396	0	0	169	0.00100	0.59975	0.01681	0.00366	0.06050	3.5984	-5.1266	1.1243	1.0603	0.0104	1.4415
15	403	0	0	50	0.000250	0.10475	0.00538	0.000212	0.01458	2.7105	-5.8432	0.7113	0.8434	0.0041	1.0181
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	386	0	0	61	0.00100	0.07650	0.01059	0.000210	0.01448	1.3672	-5.0826	0.9015	0.9495	0.0097	1.2097
18	1017	0	0	262	0.00100	0.77675	0.01774	0.00406	0.06375	3.5931	-5.2569	1.4097	1.1873	0.0105	1.7592
100	7852	0	0	89	0.00175	0.69025	0.04632	0.00971	0.09856	2.1277	-4.1934	1.8919	1.3755	0.0389	2.3732
300	4	0	0	11	0.00100	0.10420	0.01775	0.00109	0.03303	1.8604	-5.2455	2.0213	1.4217	0.0145	2.5590
1000	2934	2	0	1037	0.000250	0.99825	0.01619	0.00364	0.06032	3.7253	-5.3927	1.5429	1.2422	0.0098	1.9179
2000	2038	2	0	549	0.000250	0.76425	0.02368	0.00546	0.07388	3.1195	-5.2998	2.0245	1.4228	0.0137	2.5636
3000	795	0	0	460	0.000750	0.75725	0.02584	0.00627	0.07920	3.0655	-4.9123	1.6136	1.2703	0.0165	2.0051
ALL	21882	4	0	3146	0.000250	2.1478	0.01968	0.00555	0.07452	3.7858	-5.2153	1.5505	1.2452	0.0118	1.9272

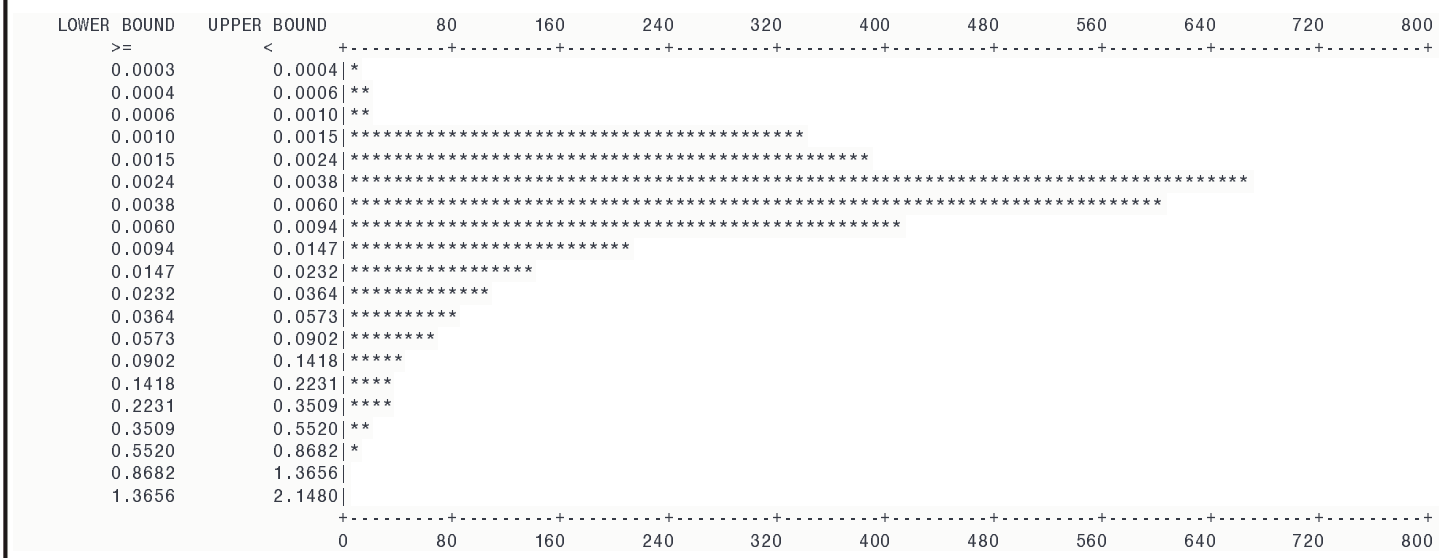
RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_As

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.0003	0.0004	4	0.13	0.0003	4	0.13	0.0003	3146	100.00	0.0197
0.0004	0.0006	16	0.51	0.0005	20	0.64	0.0005	3142	99.87	0.0197
0.0006	0.0010	13	0.41	0.0007	33	1.05	0.0006	3126	99.36	0.0198
0.0010	0.0015	336	10.68	0.0012	369	11.73	0.0012	3113	98.95	0.0199
0.0015	0.0024	384	12.21	0.0020	753	23.94	0.0016	2777	88.27	0.0221
0.0024	0.0038	667	21.20	0.0031	1420	45.14	0.0023	2393	76.06	0.0254
0.0038	0.0060	598	19.01	0.0047	2018	64.14	0.0030	1726	54.86	0.0340
0.0060	0.0094	405	12.87	0.0073	2423	77.02	0.0037	1128	35.86	0.0495
0.0094	0.0147	205	6.52	0.0116	2628	83.53	0.0043	723	22.98	0.0732
0.0147	0.0232	139	4.42	0.0181	2767	87.95	0.0050	518	16.47	0.0975
0.0232	0.0364	105	3.34	0.0293	2872	91.29	0.0059	379	12.05	0.1266
0.0364	0.0573	81	2.57	0.0456	2953	93.87	0.0070	274	8.71	0.1639
0.0573	0.0902	62	1.97	0.0716	3015	95.84	0.0083	193	6.13	0.2135
0.0902	0.1418	36	1.14	0.1167	3051	96.98	0.0096	131	4.16	0.2807
0.1418	0.2231	33	1.05	0.1789	3084	98.03	0.0114	95	3.02	0.3429
0.2231	0.3509	35	1.11	0.2801	3119	99.14	0.0144	62	1.97	0.4301
0.3509	0.5520	15	0.48	0.4496	3134	99.62	0.0165	27	0.86	0.6246
0.5520	0.8682	10	0.32	0.6974	3144	99.94	0.0187	12	0.38	0.8434
0.8682	1.3656	1	0.03	0.9983	3145	99.97	0.0190	2	0.06	1.5730
1.3656	2.1480	1	0.03	2.1478	3146	100.00	0.0197	1	0.03	2.1477

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_As



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:46 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS		COMPOSITE LABELS		GRADE	LABELS	
1	Au		1	c_Au	1	k_Au	[ppm 12x12x6]
2	<*> Cu		2	c_Cu	2	<*> k_Cu%	[% 12x12x6]
3	Pb		3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn		4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag		5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As		6	c_As	6	k_As%	[% 12x12x6]
7	Fe		7	<*> c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni		8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S		9	c_S	9	k_S%	[% 12x12x6]
10	V		10	c_V	10	k_V	[ppm12x12x6]
11	tmp2		11	c_tmp2	11	k_tmp2	[% 12x12x6]
					12	Flag	[All estimated k_Au blocks flagged as 1]
					13	k_temp	[ ]
					14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Fe

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	156	0	0	25	4.5269	6.6950	5.4800	0.19253	0.43878	0.0801	1.6981	0.0060	0.0772	5.4798	0.0773
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3183	0	0	253	4.3975	8.9200	6.1009	0.54335	0.73713	0.1208	1.8014	0.0138	0.1174	6.1003	0.1178
7	159	0	0	25	5.2150	7.0675	6.1271	0.22819	0.47769	0.0780	1.8098	0.0059	0.0768	6.1272	0.0770
8	528	0	0	52	4.8458	7.1600	5.7262	0.32136	0.56688	0.0990	1.7404	0.0091	0.0952	5.7257	0.0954
9	434	0	0	34	4.3300	8.8350	6.3266	1.4013	1.1838	0.1871	1.8281	0.0331	0.1818	6.3260	0.1834
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	363	0	0	31	5.0200	7.3900	5.8548	0.32847	0.57312	0.0979	1.7628	0.0088	0.0940	5.8544	0.0942
13	154	0	0	38	4.7575	7.4575	5.8033	0.34159	0.58446	0.1007	1.7535	0.0099	0.0993	5.8033	0.0995
14	1396	0	0	169	3.4475	13.790	6.0940	1.0851	1.0417	0.1709	1.7950	0.0231	0.1521	6.0898	0.1530
15	403	0	0	50	3.6100	8.4000	5.5064	0.91718	0.95770	0.1739	1.6913	0.0292	0.1710	5.5064	0.1723
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	386	0	0	61	4.1960	10.300	5.7120	1.1515	1.0731	0.1879	1.7278	0.0277	0.1663	5.7064	0.1675
18	1017	0	0	262	3.0675	10.165	5.5350	0.94937	0.97436	0.1760	1.6963	0.0294	0.1714	5.5344	0.1727
100	7852	0	0	89	3.3675	11.600	5.3104	1.7542	1.3245	0.2494	1.6451	0.0449	0.2118	5.2992	0.2142
300	4	0	0	11	4.7153	6.3360	5.4335	0.21470	0.46335	0.0853	1.6893	0.0064	0.0801	5.4333	0.0802
1000	2934	0	0	1039	3.2150	13.385	6.3189	1.2282	1.1083	0.1754	1.8289	0.0290	0.1703	6.3179	0.1716
2000	2038	0	0	551	2.9825	13.350	6.3977	1.3852	1.1769	0.1840	1.8400	0.0315	0.1775	6.3964	0.1789
3000	795	0	0	460	3.8813	9.7875	5.9005	0.68764	0.82924	0.1405	1.7657	0.0183	0.1353	5.8994	0.1359
ALL	21882	0	0	3150	2.9825	13.790	6.0919	1.1421	1.0687	0.1754	1.7925	0.0284	0.1685	6.0904	0.1697

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_Fe

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
2.9825	3.2198	3	0.10	3.0883	3	0.10	3.0883	3150	100.00	6.0919
3.2198	3.4760	3	0.10	3.3925	6	0.19	3.2404	3147	99.90	6.0948
3.4760	3.7526	14	0.44	3.6442	20	0.63	3.5231	3144	99.81	6.0974
3.7526	4.0512	25	0.79	3.9012	45	1.43	3.7331	3130	99.37	6.1083
4.0512	4.3736	41	1.30	4.2195	86	2.73	3.9650	3105	98.57	6.1261
4.3736	4.7216	104	3.30	4.5636	190	6.03	4.2926	3064	97.27	6.1516
4.7216	5.0973	242	7.68	4.9267	432	13.71	4.6478	2960	93.97	6.2074
5.0973	5.5029	465	14.76	5.3147	897	28.48	4.9935	2718	86.29	6.3214
5.5029	5.9407	624	19.81	5.7313	1521	48.29	5.2962	2253	71.52	6.5292
5.9407	6.4134	669	21.24	6.1636	2190	69.52	5.5612	1629	51.71	6.8349
6.4134	6.9237	434	13.78	6.6425	2624	83.30	5.7400	960	30.48	7.3027
6.9237	7.4747	233	7.40	7.1708	2857	90.70	5.8567	526	16.70	7.8474
7.4747	8.0694	145	4.60	7.7429	3002	95.30	5.9478	293	9.30	8.3855
8.0694	8.7115	80	2.54	8.3683	3082	97.84	6.0106	148	4.70	9.0150
8.7115	9.4047	29	0.92	8.9918	3111	98.76	6.0384	68	2.16	9.7759
9.4047	10.1530	19	0.60	9.7029	3130	99.37	6.0607	39	1.24	10.3589
10.1530	10.9609	15	0.48	10.4364	3145	99.84	6.0815	20	0.63	10.9821
10.9609	11.8331	2	0.06	11.2863	3147	99.90	6.0848	5	0.16	12.6194
11.8331	12.7746	0	0.00	0.0000	3147	99.90	6.0848	3	0.10	13.5082
12.7746	13.7911	3	0.10	13.5082	3150	100.00	6.0919	3	0.10	13.5082

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_Fe

```
   LOWER BOUND   UPPER BOUND          80       160       240       320       400       480       560       640       720       800
        >=            <      +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
        2.9825         3.2198|
        3.2198         3.4760|
        3.4760         3.7526|**
        3.7526         4.0512|***
        4.0512         4.3736|*****
        4.3736         4.7216|*************
        4.7216         5.0973|******************************
        5.0973         5.5029|************************************************************
        5.5029         5.9407|*************************************************************************************
        5.9407         6.4134|*****************************************************************************************************
        6.4134         6.9237|************************************************************
        6.9237         7.4747|******************************
        7.4747         8.0694|******************
        8.0694         8.7115|**********
        8.7115         9.4047|****
        9.4047        10.1530|**
       10.1530        10.9609|**
       10.9609        11.8331|
       11.8331        12.7746|
       12.7746        13.7911|
                              +---------+---------+---------+---------+---------+---------+---------+---------+---------+---------+
                              0         80        160       240       320       400       480       560       640       720       800
```

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:46 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2 <*>	Cu	2	c_Cu	2 <*>	k_Cu%	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S	9 <*>	c_S	9	k_S%	[% 12x12x6]
10	V	10	c_V	10	k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2	[% 12x12x6]
				12	Flag	[All estimated k_Au blocks flagged as 1]
				13	k_temp	[ ]
				14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_S

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

ROCK TYPE	COMPOSITE COUNT MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	UNTRANSFORMED STATISTICS MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG-TRANSFORMED STATS LOG MEAN	LOG VAR.	LOG STD.DEV	LOG-DERIVED MEAN	COEF. OF VAR.
1	156	0	0	25	0.05000	0.61250	0.23153	0.02957	0.17195	0.7427	-1.7215	0.5338	0.7306	0.2335	0.8399
2	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
3	18	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
4	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	47	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
6	3183	0	0	253	0.02500	2.4725	0.41970	0.15405	0.39249	0.9352	-1.2776	0.8940	0.9455	0.4358	1.2021
7	159	0	0	25	0.11500	1.2250	0.50730	0.08803	0.29669	0.5848	-0.8598	0.3969	0.6300	0.51614	0.6980
8	528	0	0	52	0.06250	1.6750	0.49058	0.12249	0.34998	0.7134	-0.9429	0.4834	0.6953	0.49597	0.7884
9	434	0	0	34	0.10500	2.8675	0.77613	0.35222	0.59348	0.7647	-0.5265	0.6030	0.7765	0.79848	0.9097
10	0	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	363	0	0	31	0.11000	1.7850	0.70169	0.18527	0.43044	0.6134	-0.5418	0.4114	0.6414	0.71454	0.7134
13	154	0	0	38	0.07000	2.2175	0.63604	0.19831	0.44532	0.7002	-0.7094	0.6029	0.7765	0.66502	0.9096
14	1396	0	0	169	0.00995	4.9627	1.0144	0.41438	0.64373	0.6346	-0.1904	0.5224	0.7227	1.07331	0.8283
15	403	0	0	50	0.33725	2.3100	1.0557	0.25099	0.50099	0.4745	-0.0585	0.2351	0.4849	1.06080	0.5148
16	15	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
17	386	0	0	61	0.08925	3.3200	0.80020	0.42360	0.65084	0.8134	-0.5627	0.7747	0.8801	0.83918	1.0816
18	1017	0	0	262	0.04200	3.3575	0.77280	0.29854	0.54638	0.7070	-0.5306	0.6419	0.8012	0.81087	0.9487
100	7852	0	0	89	0.00100	2.0075	0.23766	0.14868	0.38559	1.6224	-2.9624	4.1605	2.0397	0.4139	7.9436
300	4	0	0	11	0.65675	1.9433	1.1481	0.15341	0.39168	0.3412	0.0869	0.1015	0.3186	1.14757	0.3269
1000	2934	0	0	1039	0.03250	5.4300	1.2305	0.61265	0.78272	0.6361	-0.0172	0.5418	0.7360	1.28880	0.8480
2000	2038	0	0	551	0.02250	5.8750	1.0844	0.60125	0.77540	0.7151	-0.2578	0.9062	0.9519	1.21572	1.2145
3000	795	0	0	460	0.03500	4.1738	0.91332	0.41010	0.64039	0.7012	-0.3398	0.5634	0.7506	0.94354	0.8698
ALL	21882	0	0	3150	0.00100	5.8750	0.96124	0.53418	0.73087	0.7603	-0.4082	1.0711	1.0350	1.13586	1.3852

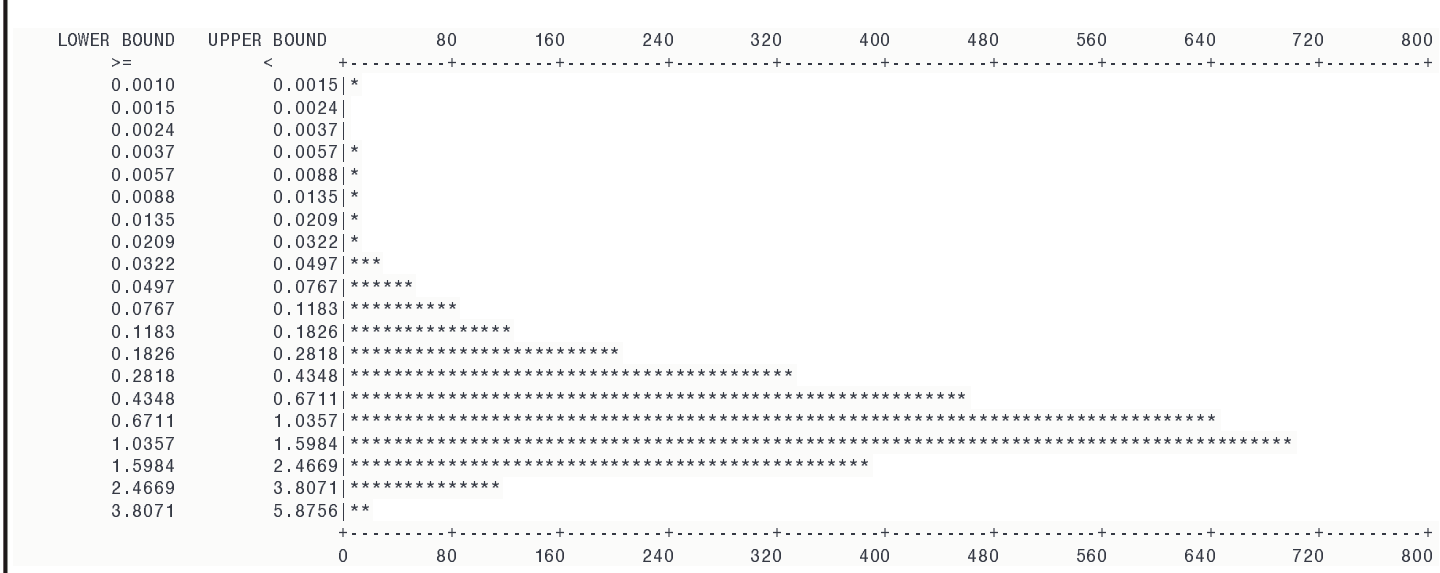
RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

DATA TYPE IS COMPOSITE
CURRENT LABEL : c_S

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN BOUND)	CUM FREQ (ALL VALUES >= LOWER	PERCENT	CUM MEAN BOUND)
0.0010	0.0015	5	0.16	0.0011	5	0.16	0.0011	3150	100.00	0.9612
0.0015	0.0024	2	0.06	0.0020	7	0.22	0.0013	3145	99.84	0.9628
0.0024	0.0037	0	0.00	0.0000	7	0.22	0.0013	3143	99.78	0.9634
0.0037	0.0057	7	0.22	0.0051	14	0.44	0.0032	3143	99.78	0.9634
0.0057	0.0088	11	0.35	0.0074	25	0.79	0.0050	3136	99.56	0.9655
0.0088	0.0135	4	0.13	0.0109	29	0.92	0.0059	3125	99.21	0.9689
0.0135	0.0209	4	0.13	0.0175	33	1.05	0.0073	3121	99.08	0.9701
0.0209	0.0322	6	0.19	0.0248	39	1.24	0.0100	3117	98.95	0.9713
0.0322	0.0497	22	0.70	0.0392	61	1.94	0.0205	3111	98.76	0.9732
0.0497	0.0767	50	1.59	0.0620	111	3.52	0.0392	3089	98.06	0.9798
0.0767	0.1183	82	2.60	0.0981	193	6.13	0.0642	3039	96.48	0.9949
0.1183	0.1826	123	3.90	0.1500	316	10.03	0.0976	2957	93.87	1.0198
0.1826	0.2818	202	6.41	0.2332	518	16.44	0.1505	2834	89.97	1.0575
0.2818	0.4348	329	10.44	0.3600	847	26.89	0.2319	2632	83.56	1.1208
0.4348	0.6711	454	14.41	0.5488	1301	41.30	0.3424	2303	73.11	1.2295
0.6711	1.0357	643	20.41	0.8490	1944	61.71	0.5100	1849	58.70	1.3966
1.0357	1.5984	694	22.03	1.2910	2638	83.75	0.7155	1206	38.29	1.6886
1.5984	2.4669	385	12.22	1.9359	3023	95.97	0.8709	512	16.25	2.2276
2.4669	3.8071	109	3.46	2.8855	3132	99.43	0.9410	127	4.03	3.1117
3.8071	5.8756	18	0.57	4.4814	3150	100.00	0.9612	18	0.57	4.4814

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

CURRENT LABEL : c_S



25.2 Other Metal and Sulfur 4-meter Composite Variograms

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 07-Feb-08 11:22 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2	Cu	2 <*>	c_Cu	2 <*>	k_Cu	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni	[% 12x12x6]
9	S	9	c_S	9	k_S	[% 12x12x6]
10	V	10	c_V	10	k_V	[% 12x12x6]
11 <*>	W	11	c_W	11	k_W	[% 12x12x6]
				12	k_temp	[ ]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

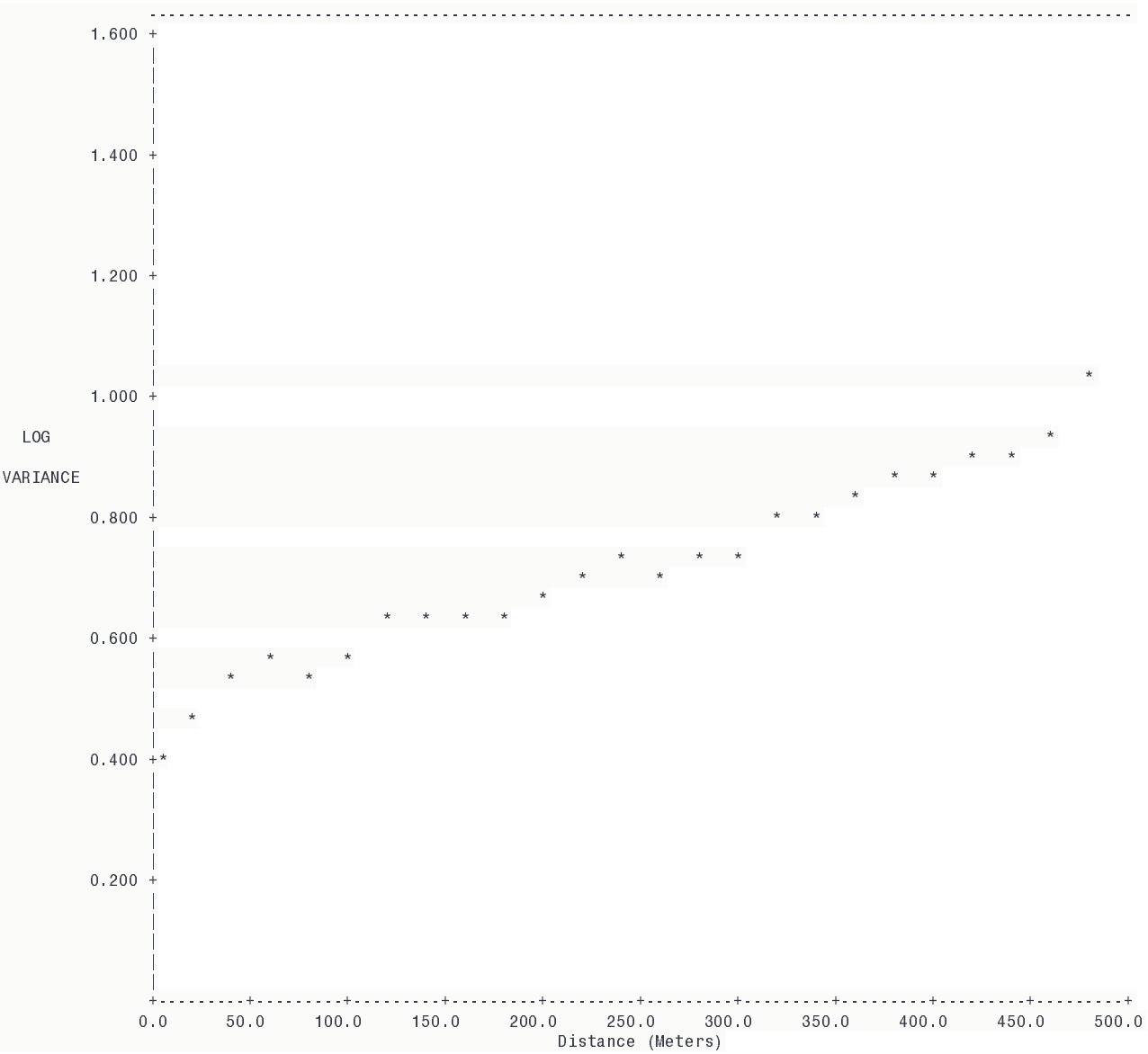
NUMBER OF ROWS : 149
NUMBER OF COLUMNS : 93
NUMBER OF LEVELS : 102

ROW DIMENSION : 12.00 METERS
COLUMN DIMENSION : 12.00 METERS
LEVEL DIMENSION : 6.00 METERS

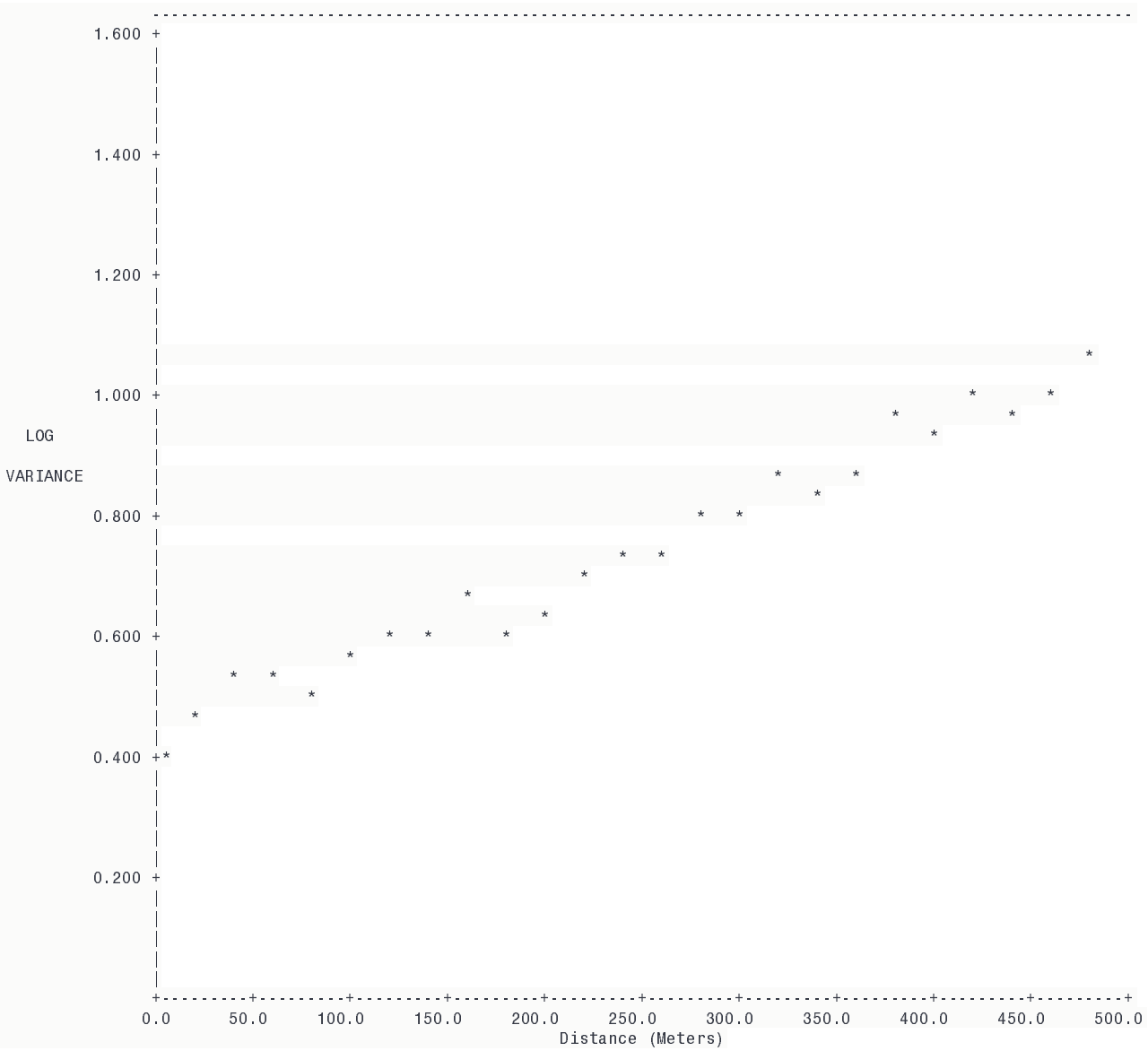
NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 25
NUMBER OF SAMPLE ASSAY VALUES : 9459

NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 25
NUMBER OF COMPOSITE ASSAY VALUES : 2459

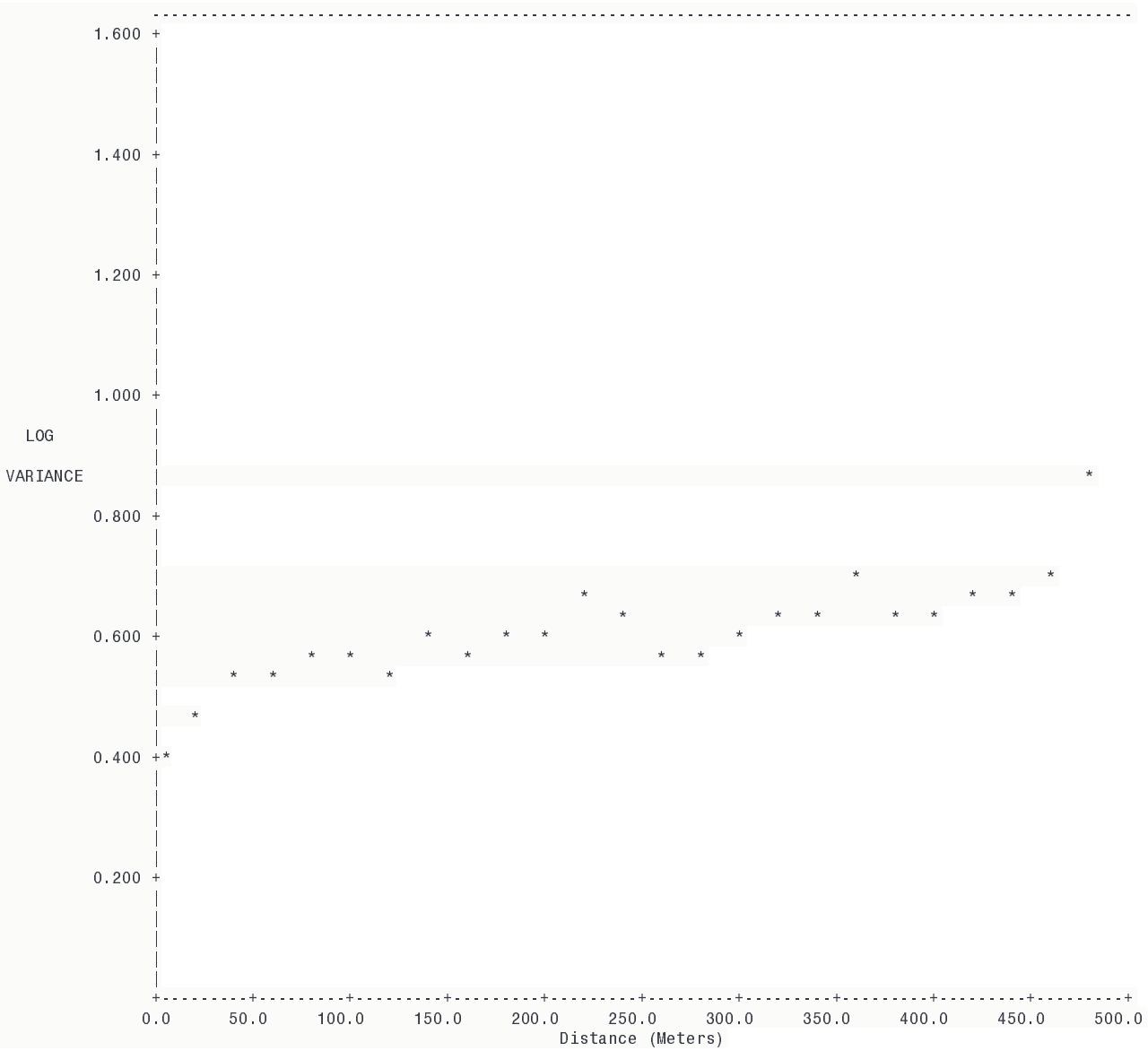
Title of Run: Print Variogram
Variogram Title: average
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



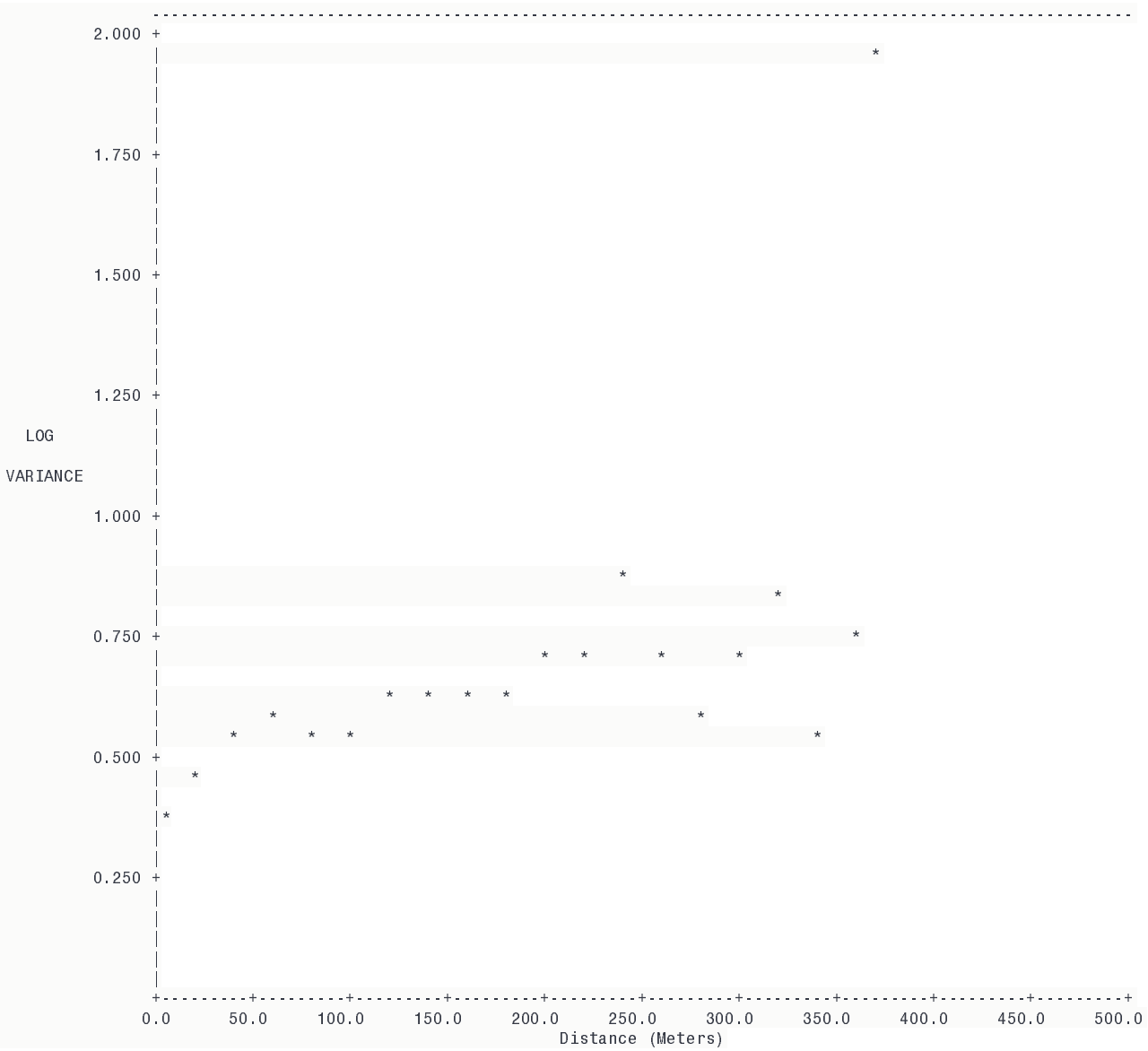
Title of Run: Print Variogram
Variogram Title: n
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



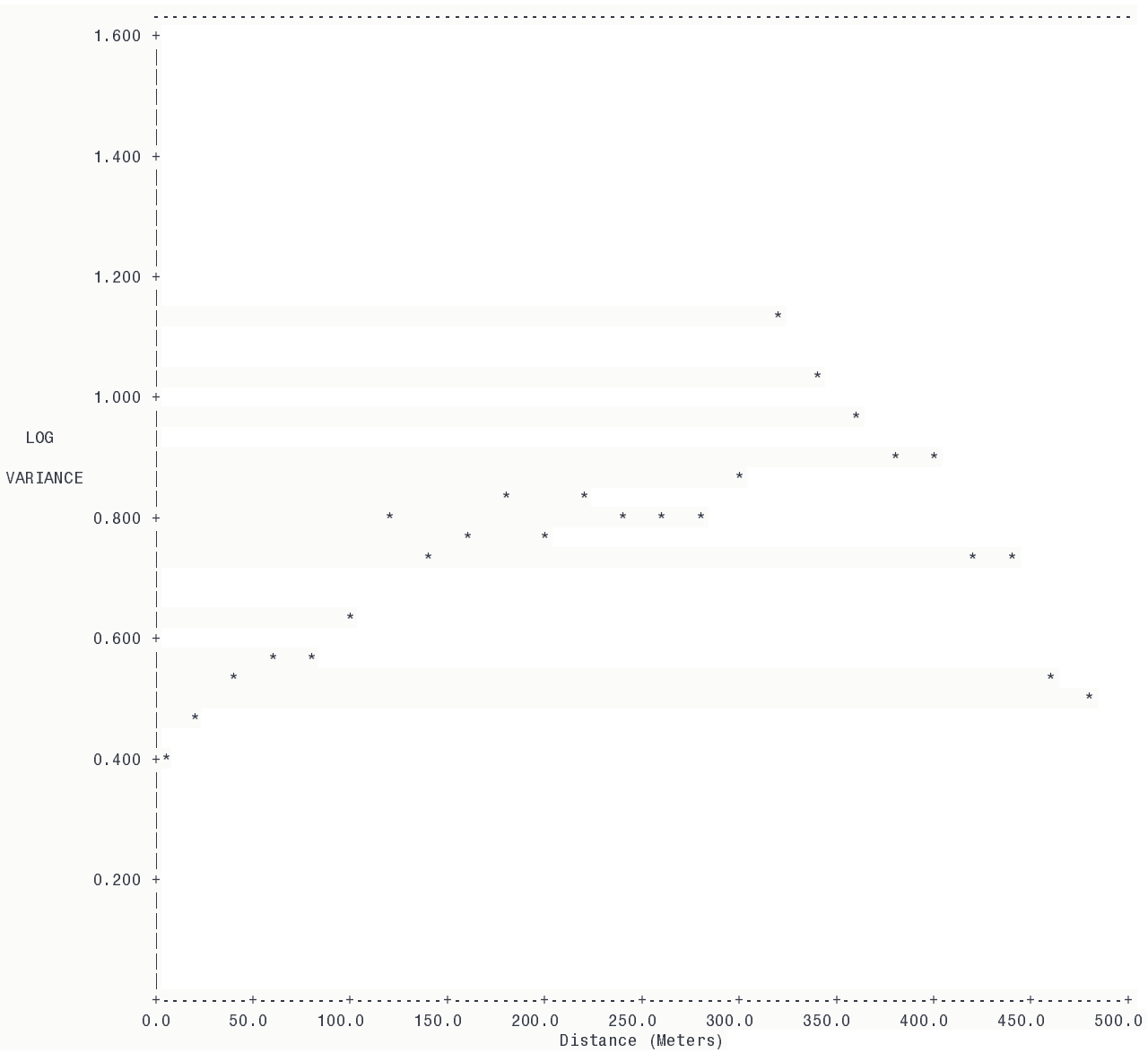
Title of Run: Print Variogram
Variogram Title: ne
Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



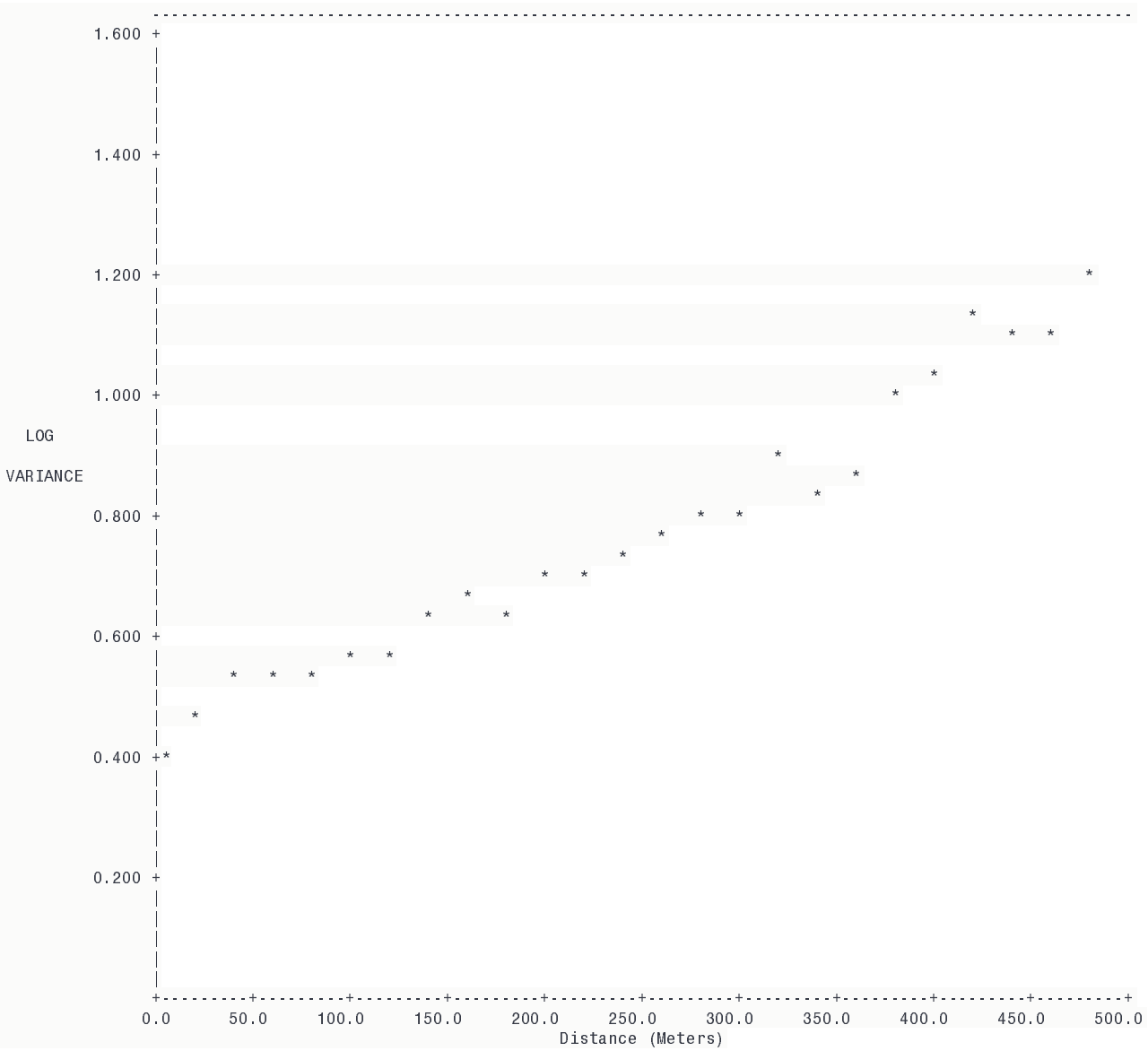
Title of Run: Print Variogram
Variogram Title: e
Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



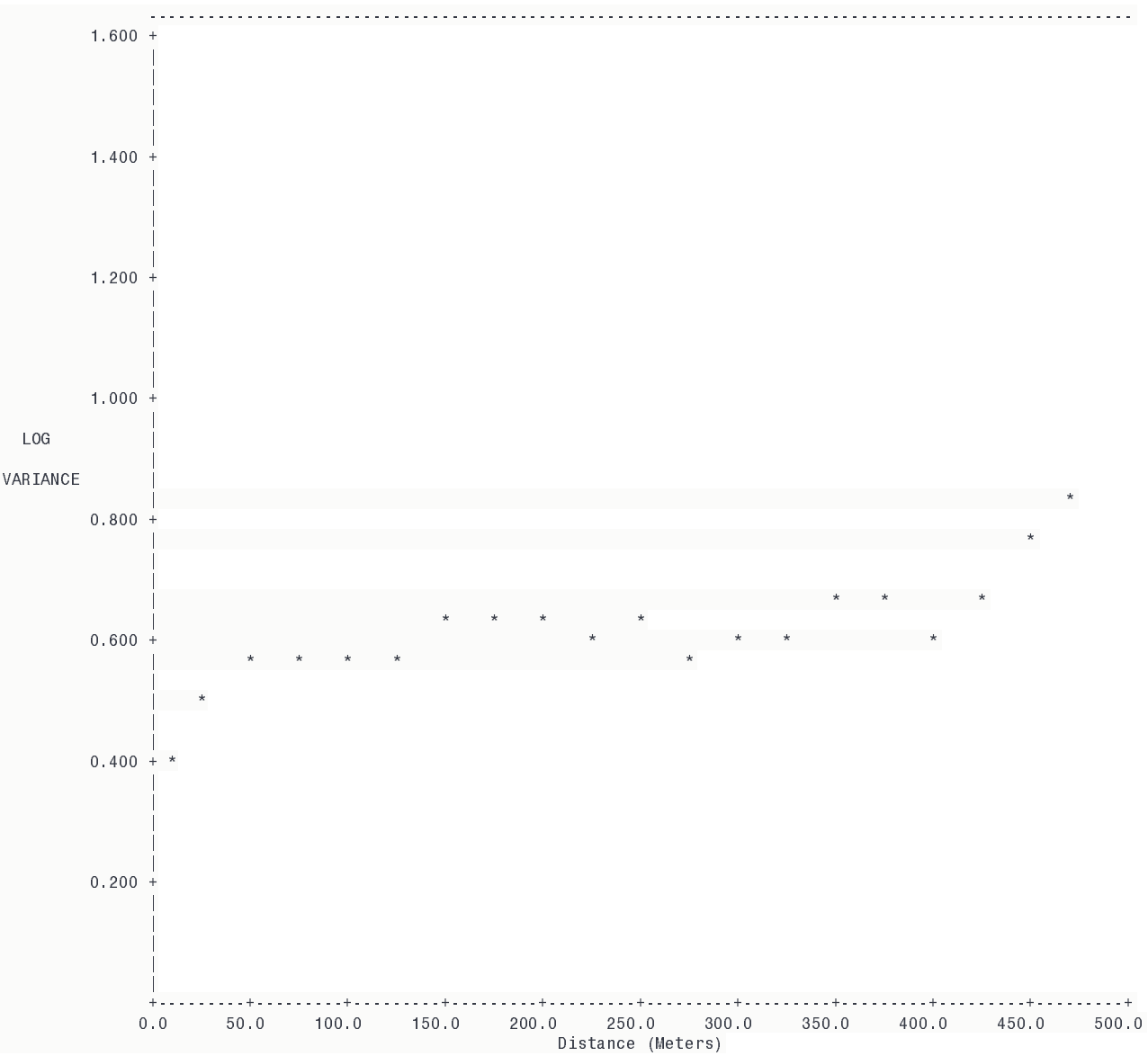
Title of Run: Print Variogram
Variogram Title: n 45 dip
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



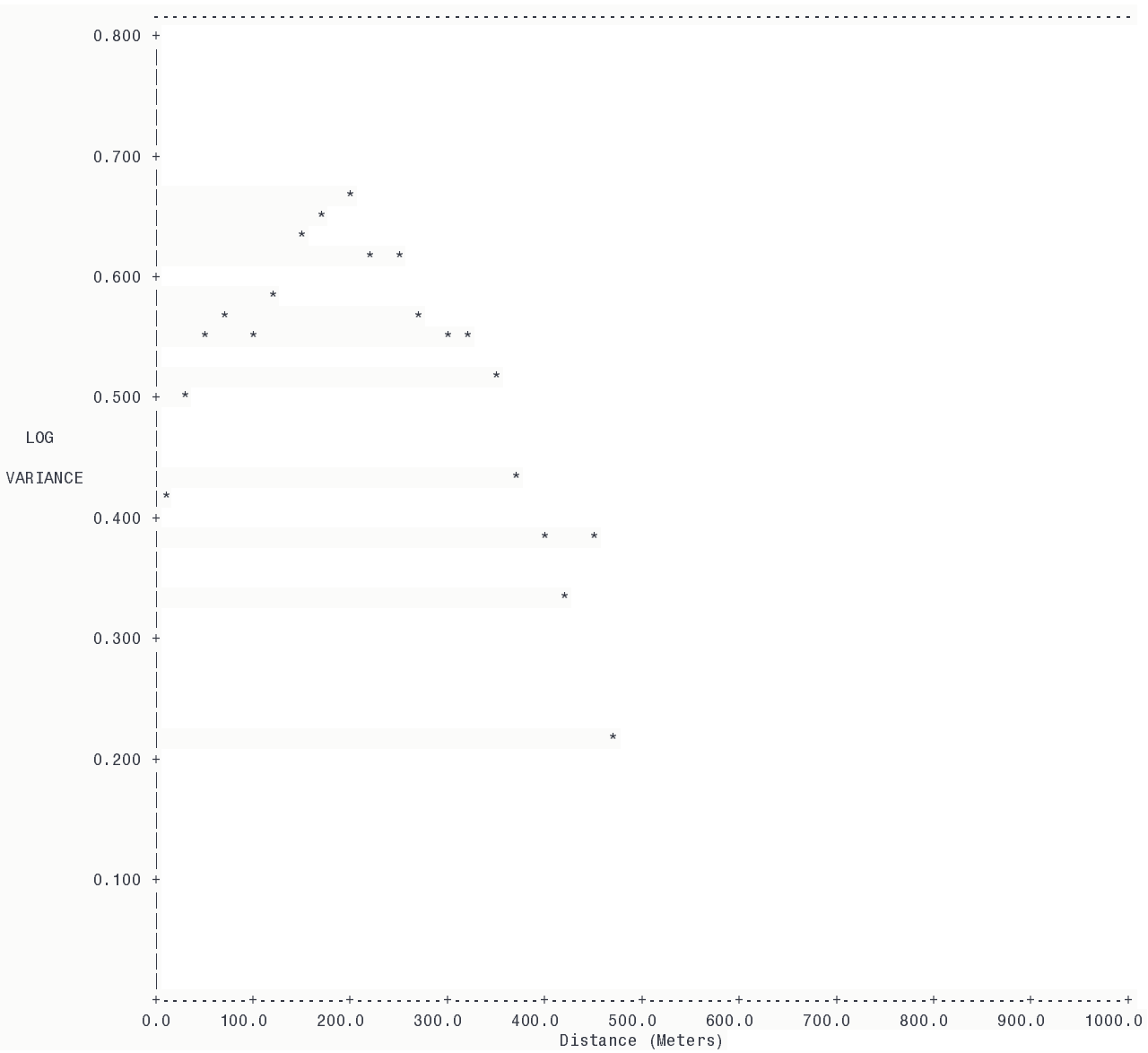
Title of Run: Print Variogram

Variogram Title: e 45 dip

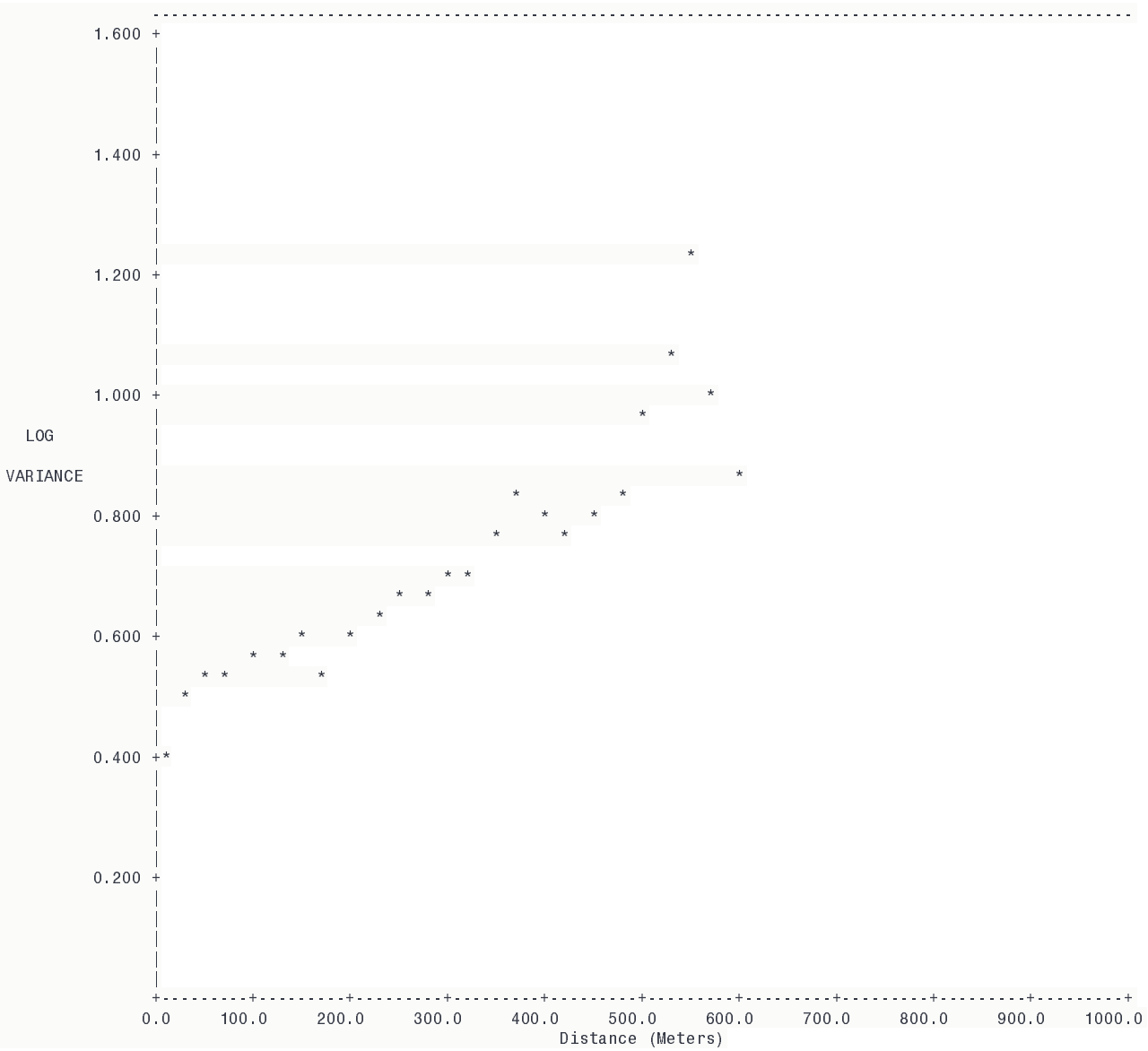
Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: w 45 dip
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: s 45 dip
Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 07-Feb-08 11:24 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

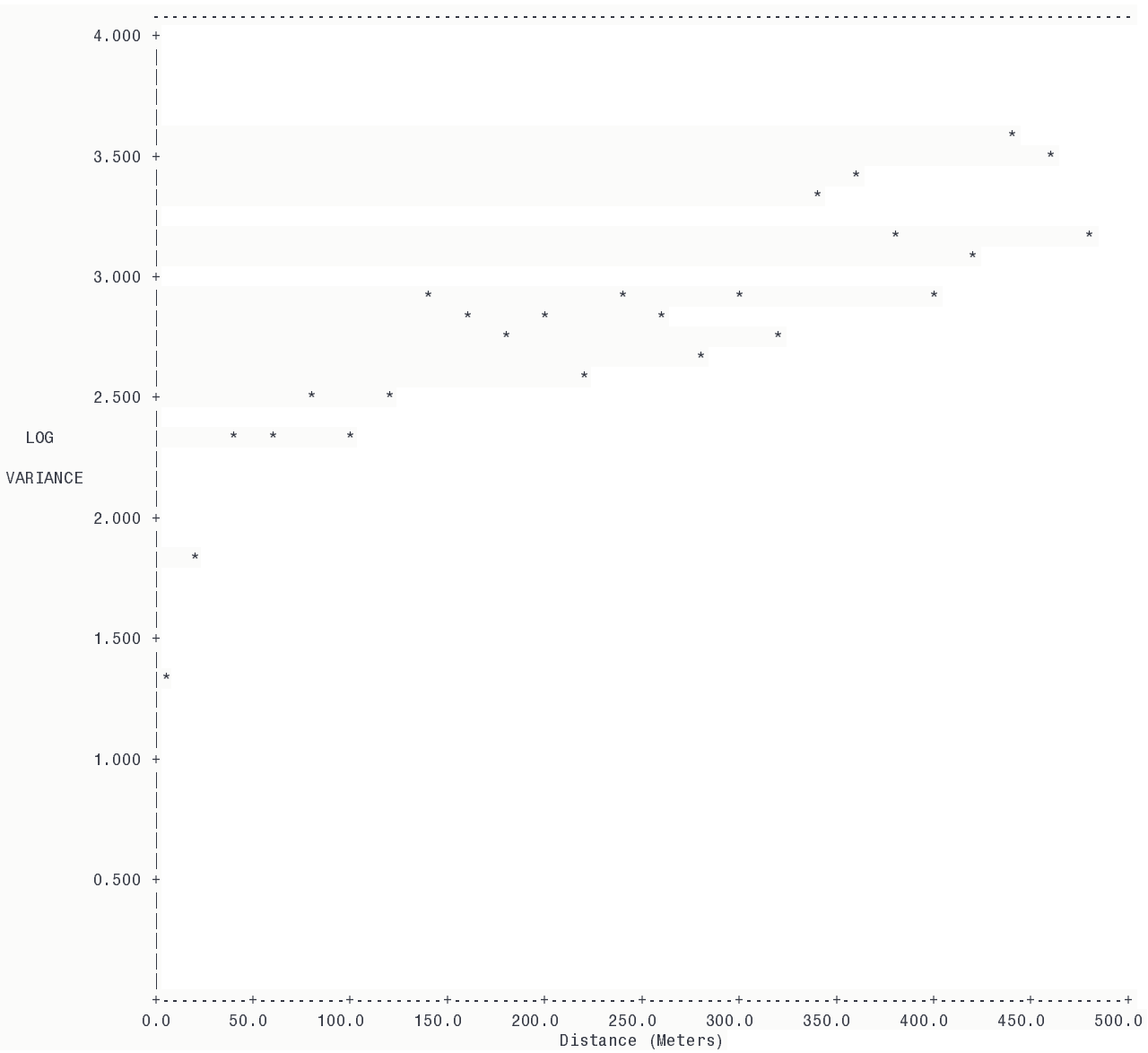
SAMPLE	LABELS		COMPOSITE LABELS		GRADE	LABELS	
1	Au		1	c_Au	1	k_Au	[ppm 12x12x6]
2	Cu		2	c_Cu	2 <*>	k_Cu	[% 12x12x6]
3	Pb		3 <*>	c_Pb	3	k_Pb	[% 12x12x6]
4	Zn		4	c_Zn	4	k_Zn	[% 12x12x6]
5	Ag		5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As		6	c_As	6	k_As	[% 12x12x6]
7	Fe		7	c_Fe	7	k_Fe	[% 12x12x6]
8	Ni		8	c_Ni	8	k_Ni	[% 12x12x6]
9	S		9	c_S	9	k_S	[% 12x12x6]
10	V		10	c_V	10	k_V	[% 12x12x6]
11 <*>	W		11	c_W	11	k_W	[% 12x12x6]
					12	k_temp	[ ]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

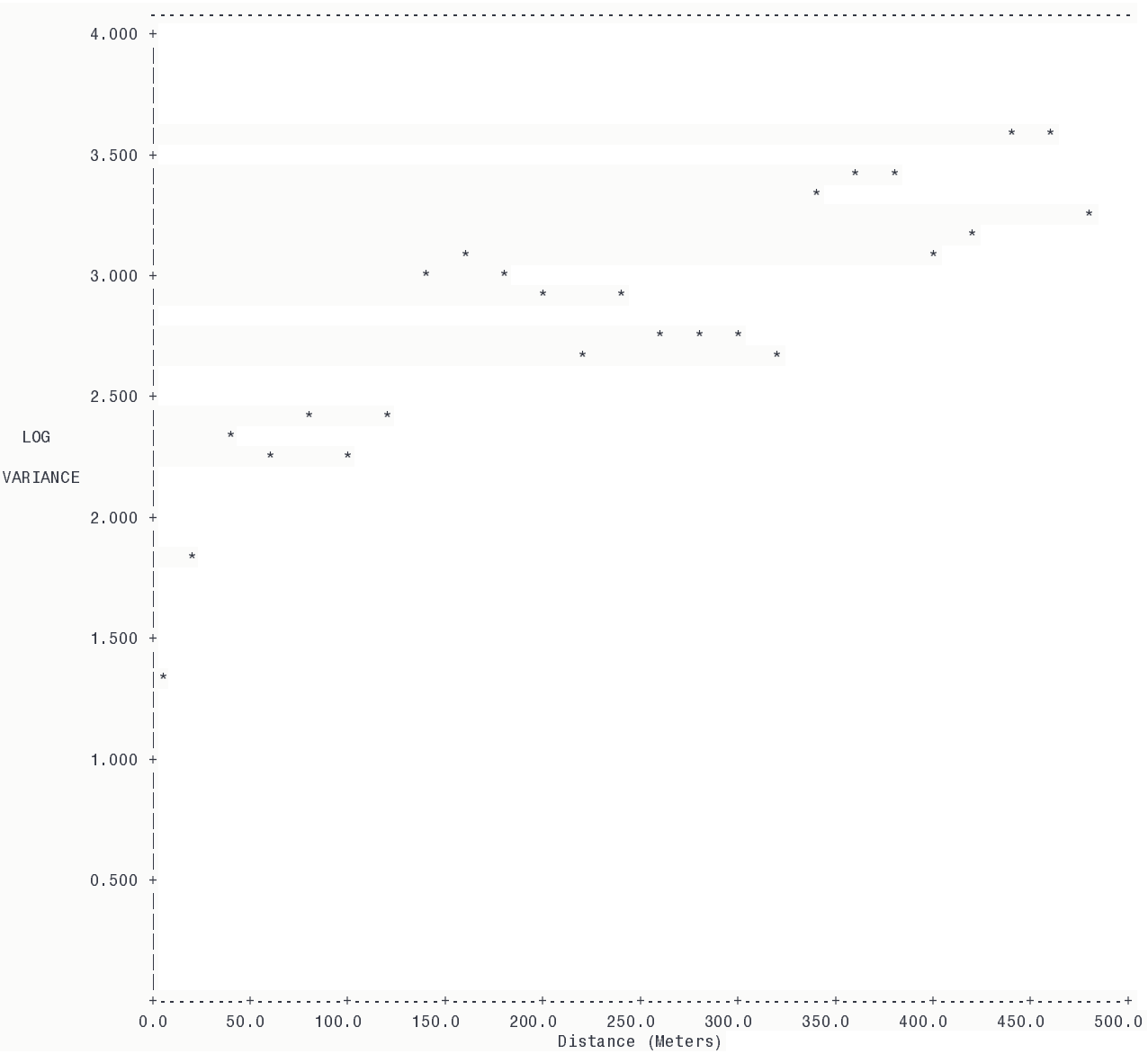
NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 25 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 25
NUMBER OF SAMPLE ASSAY VALUES : 9459 NUMBER OF COMPOSITE ASSAY VALUES : 2459

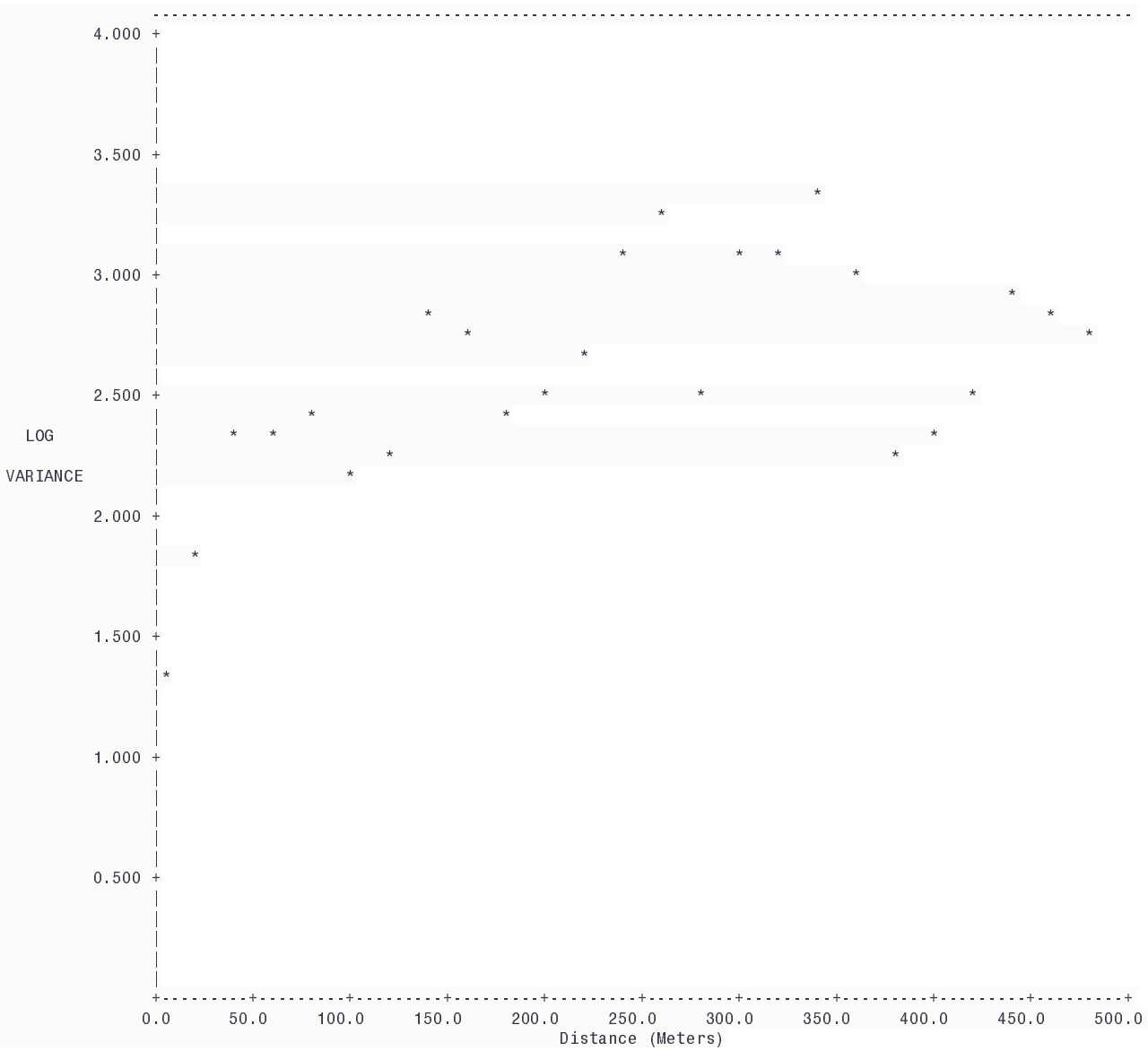
Title of Run: Print Variogram
Variogram Title: average
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



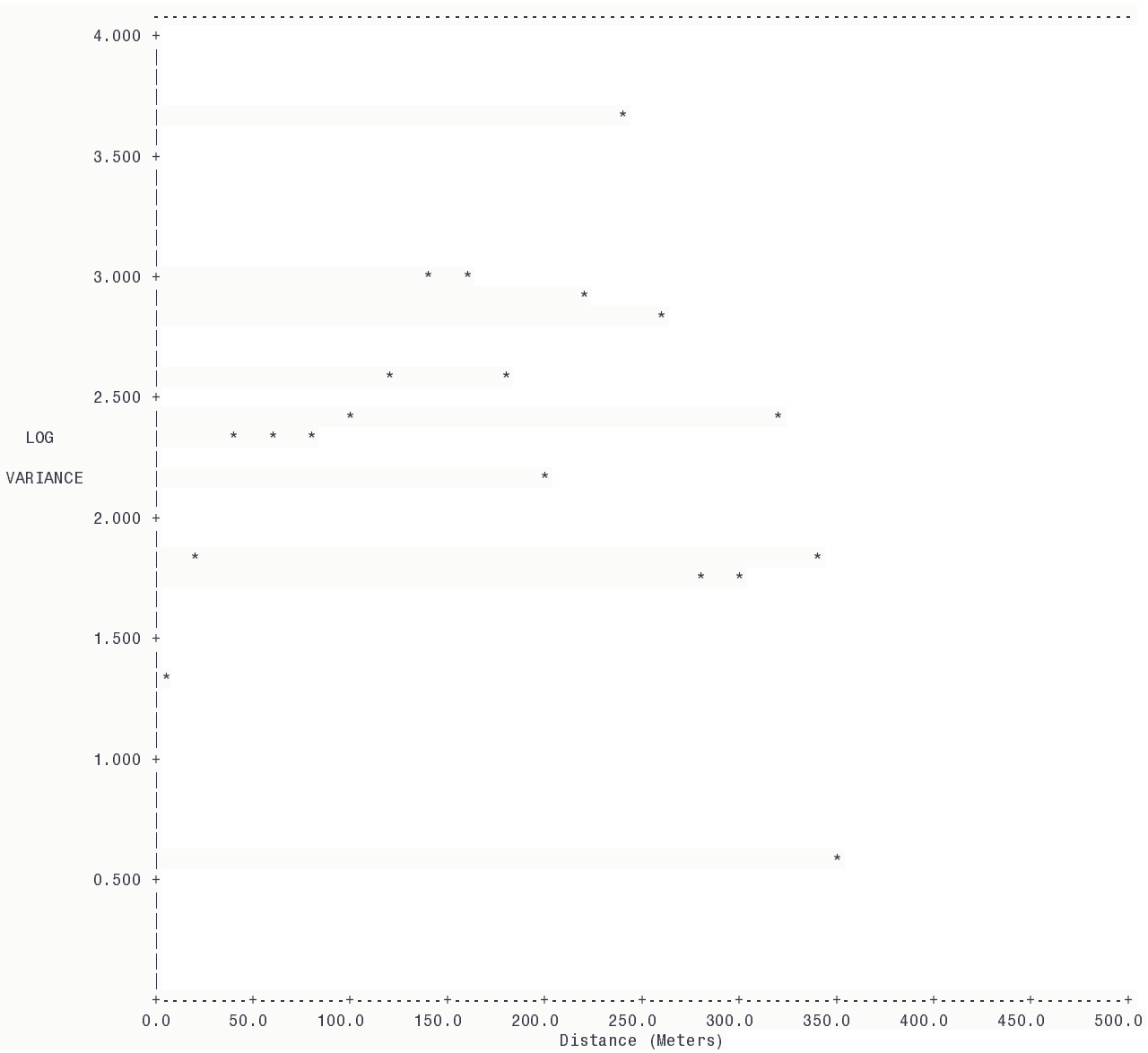
Title of Run: Print Variogram
Variogram Title: n
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



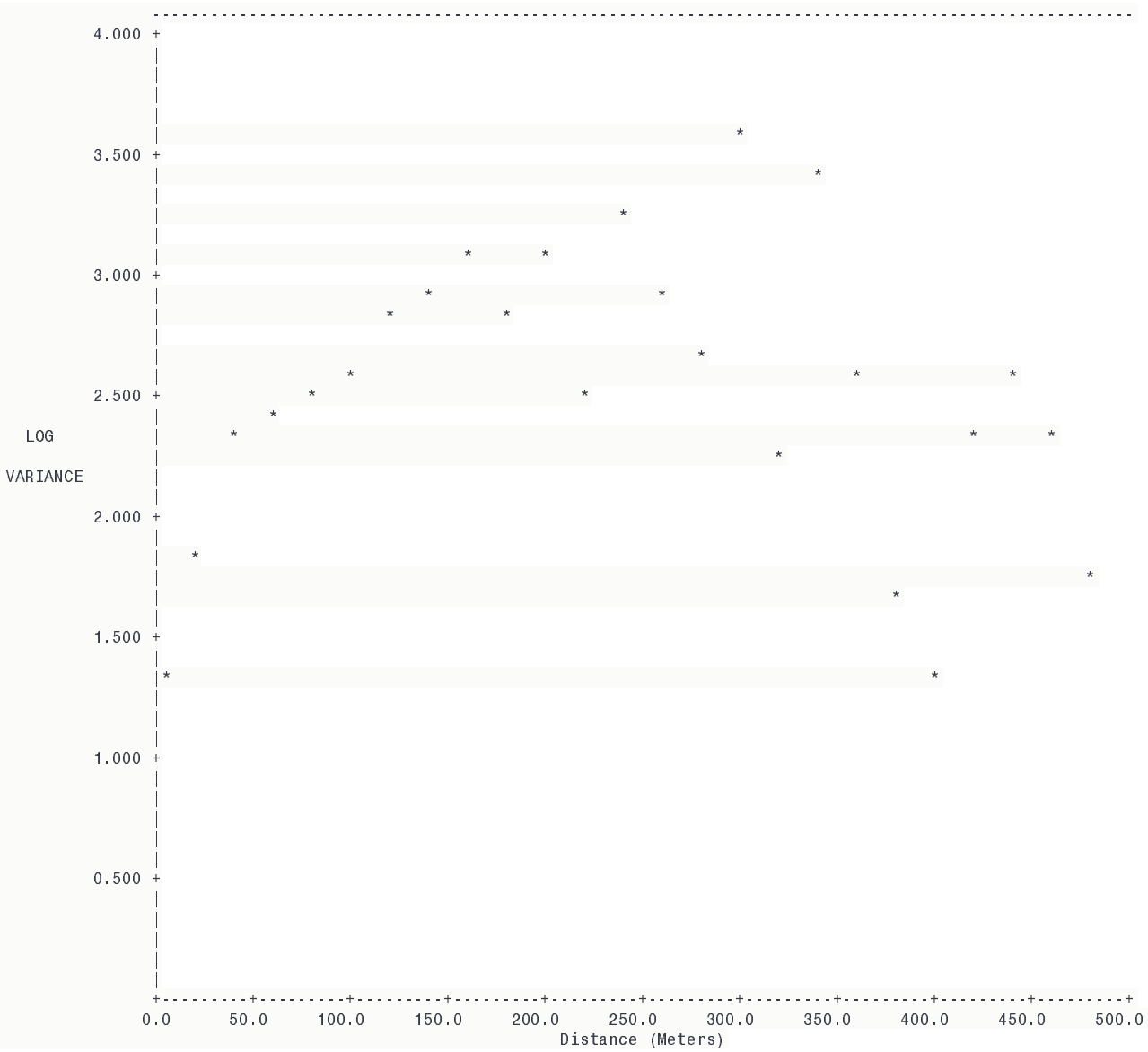
Title of Run: Print Variogram
Variogram Title: ne
Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



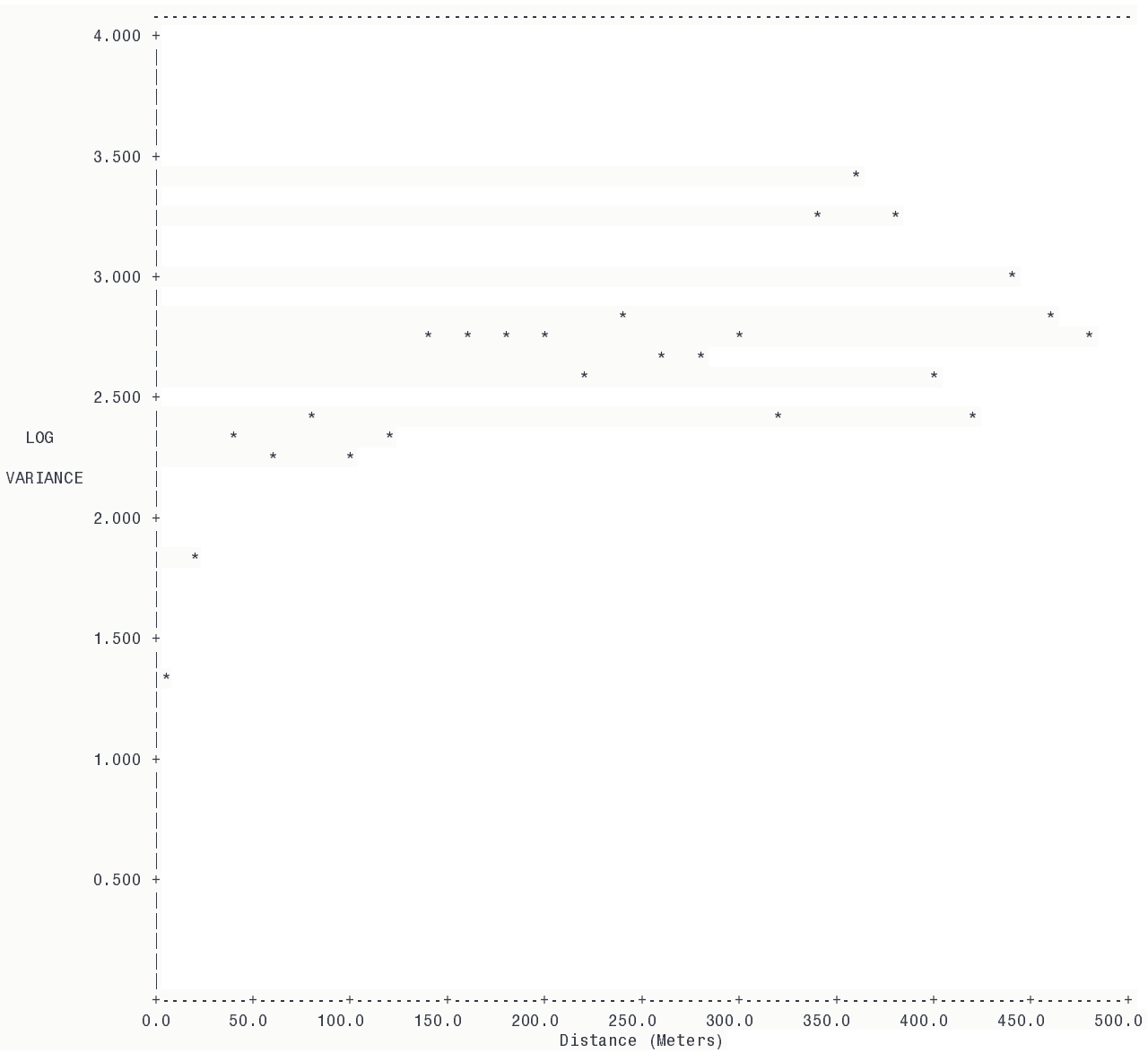
Title of Run: Print Variogram
Variogram Title: e
Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



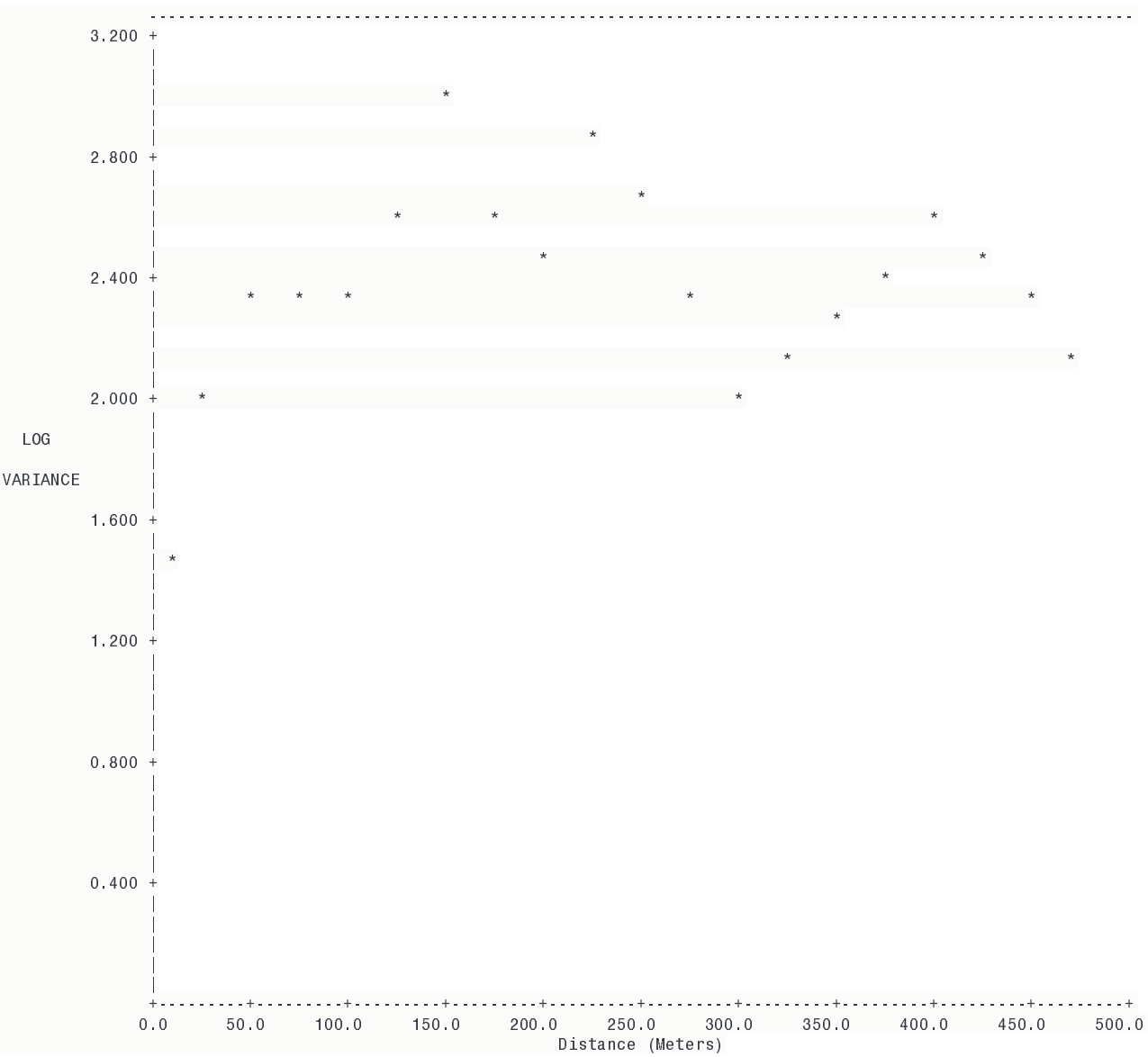
Title of Run: Print Variogram
Variogram Title: n 45 dip
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



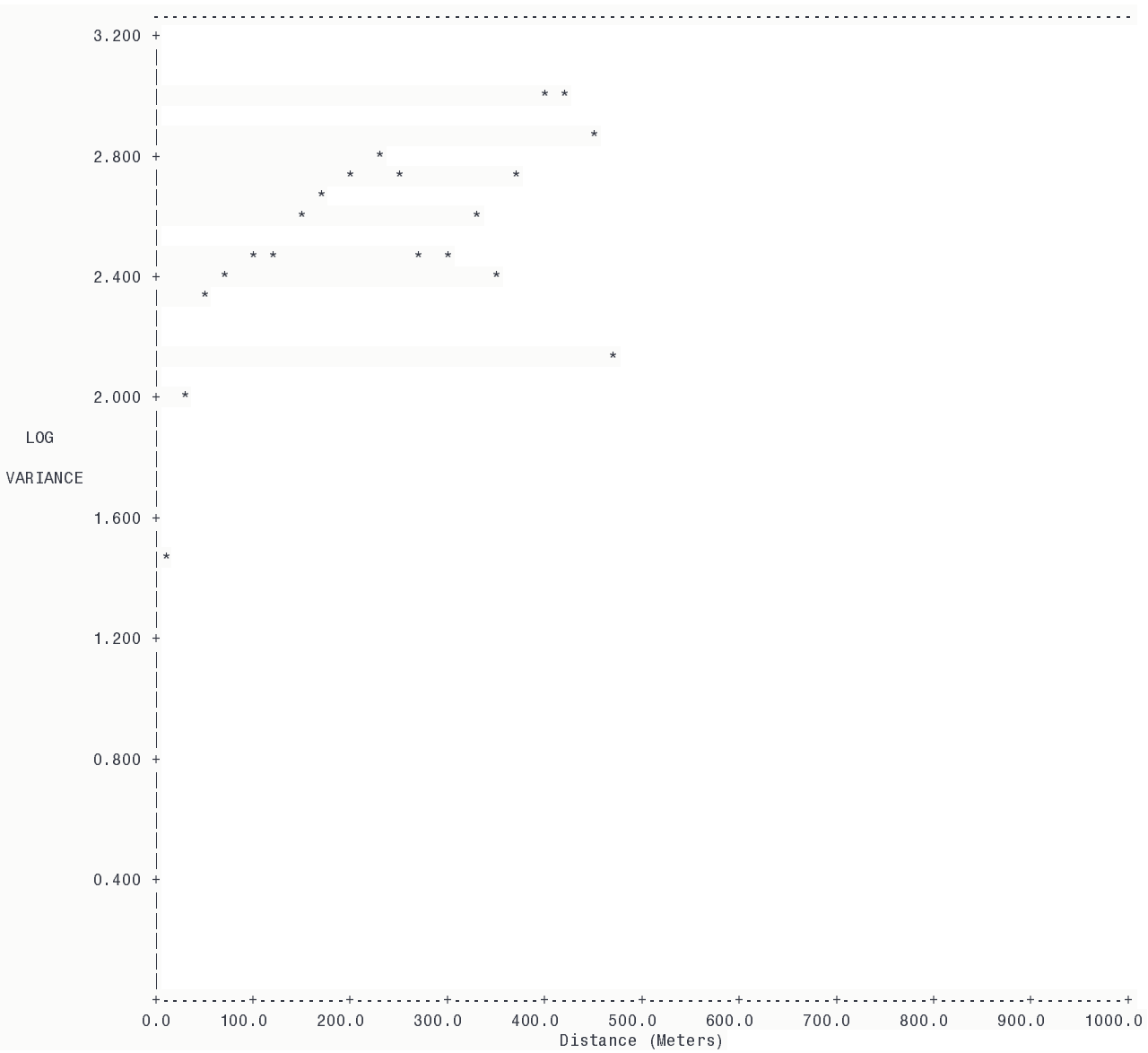
Title of Run: Print Variogram

Variogram Title: e 45 dip

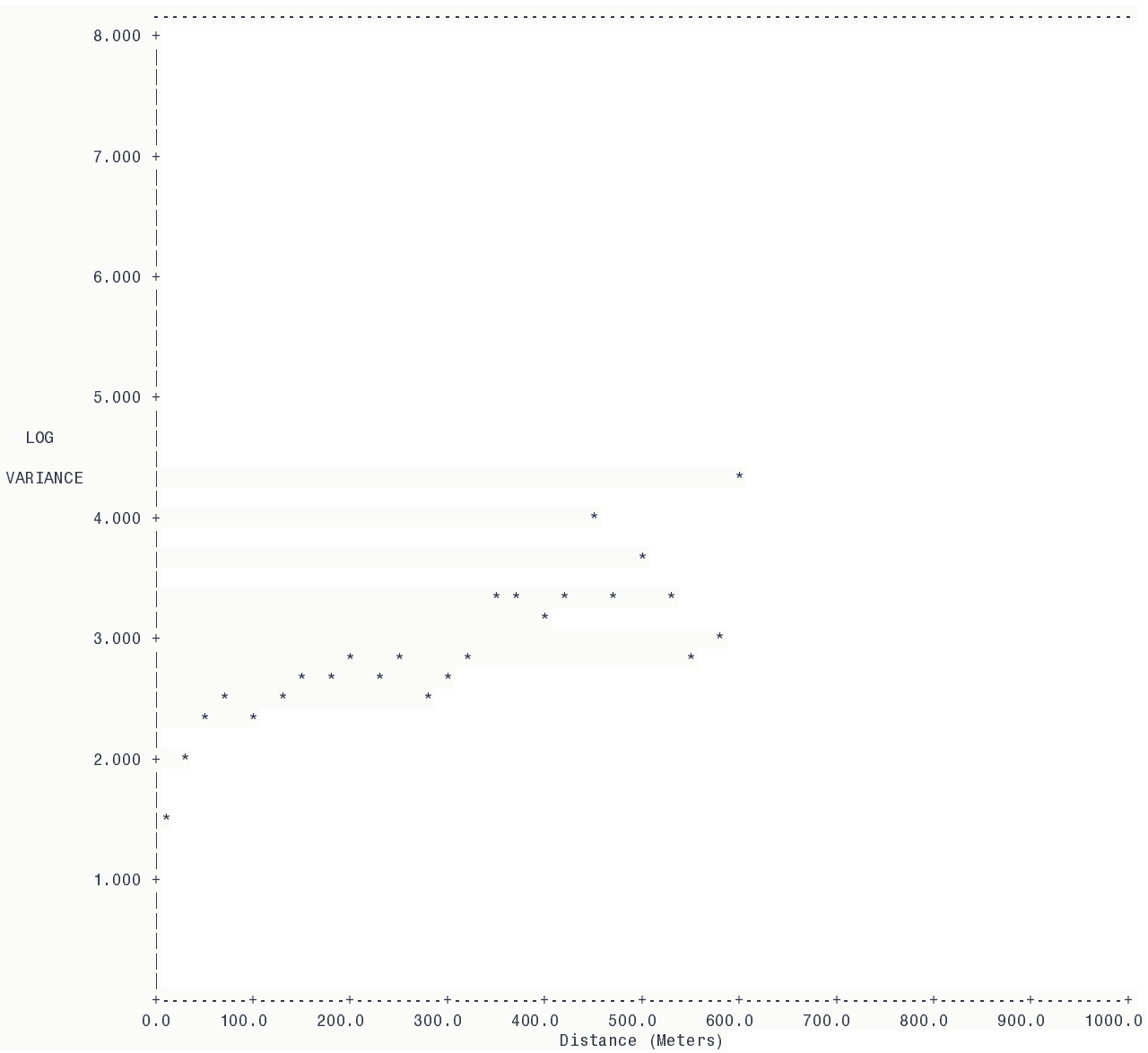
Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: w 45 dip
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: s 45 dip
Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 06-May-08 10:33 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram - Zn

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1	<*>	Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2		Cu	2		c_Cu	2	<*>	k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4	<*>	c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9		c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

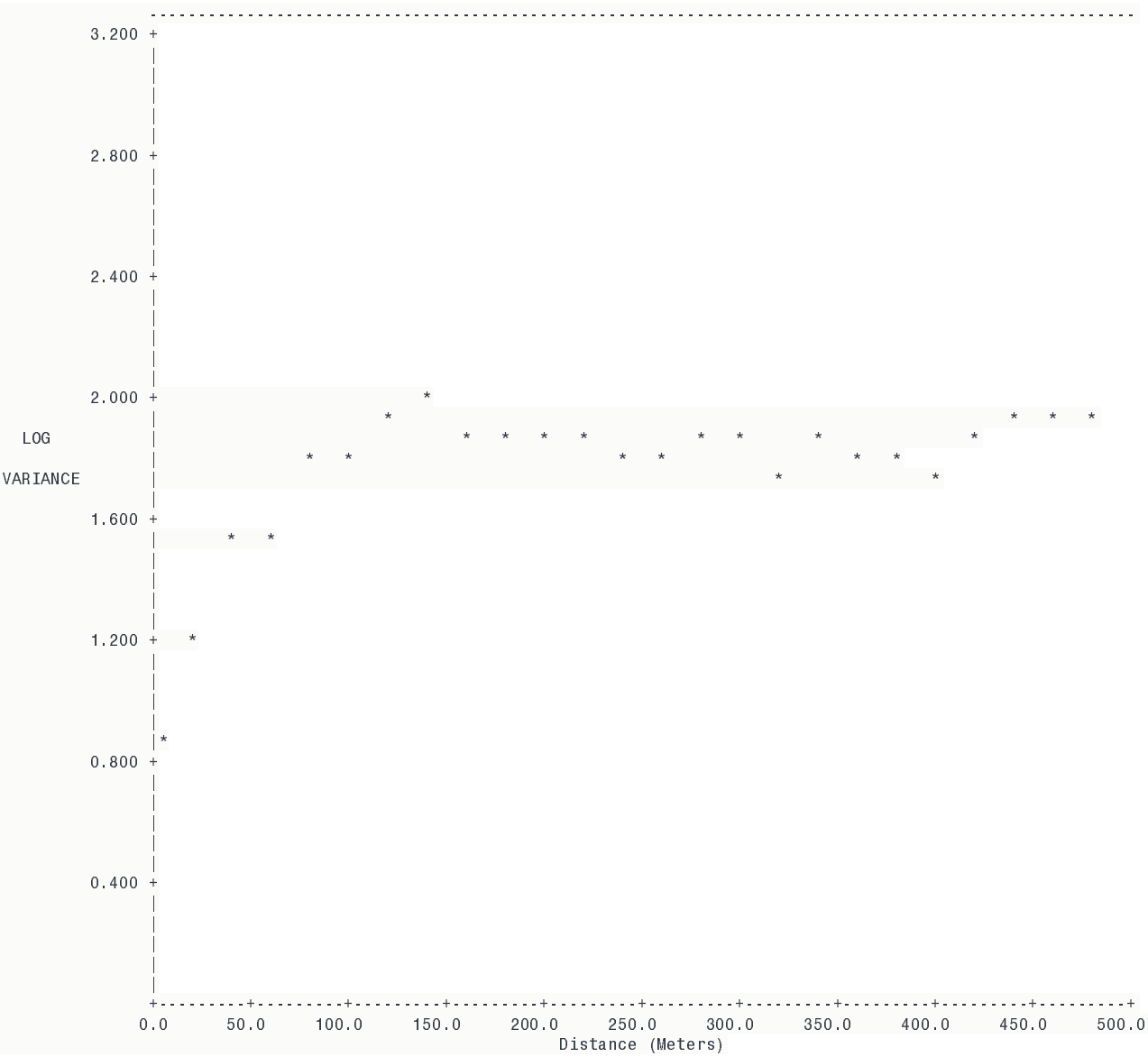
NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

Title of Run: Print Variogram - Zn

Variogram Title: average

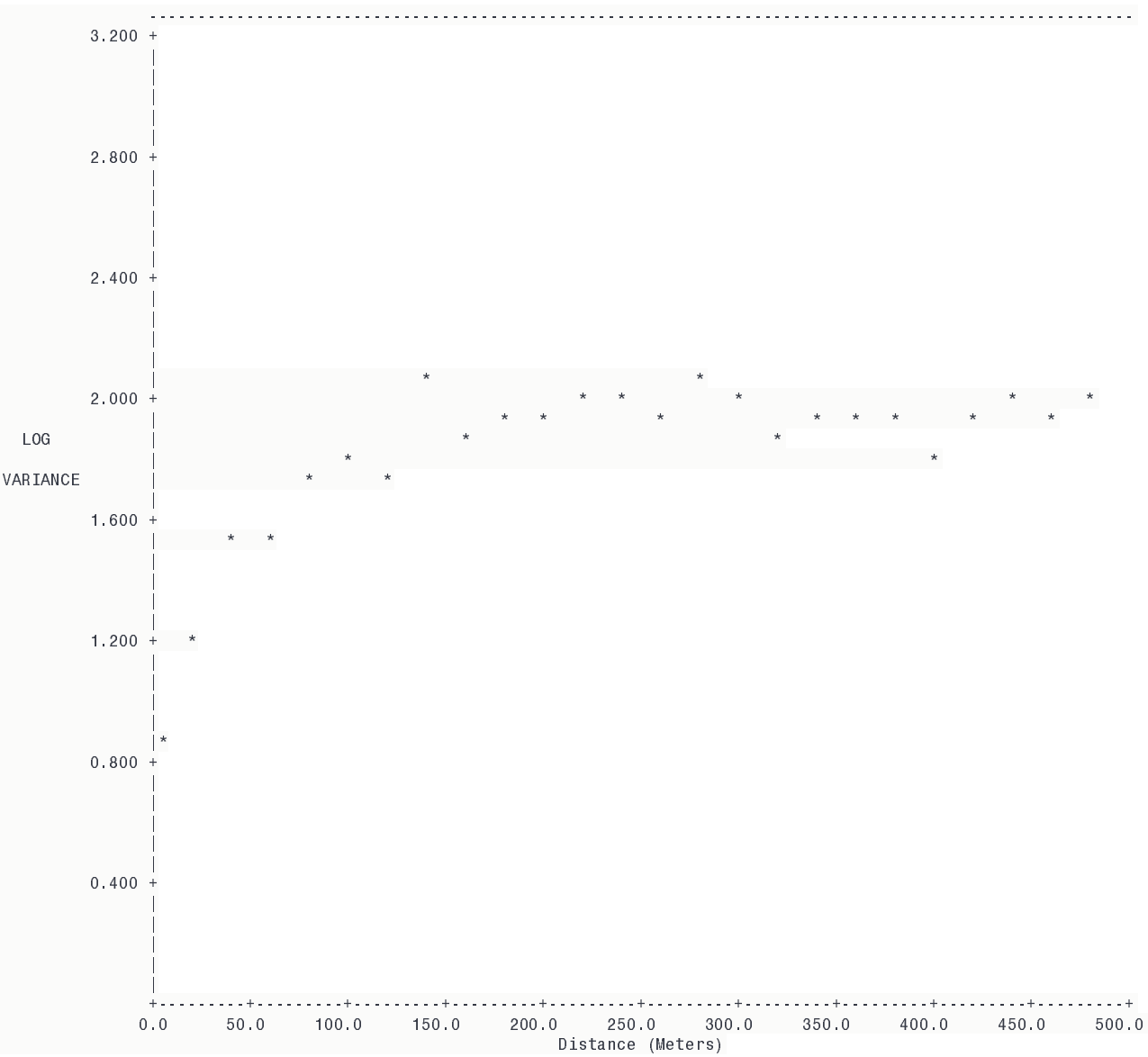
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: n

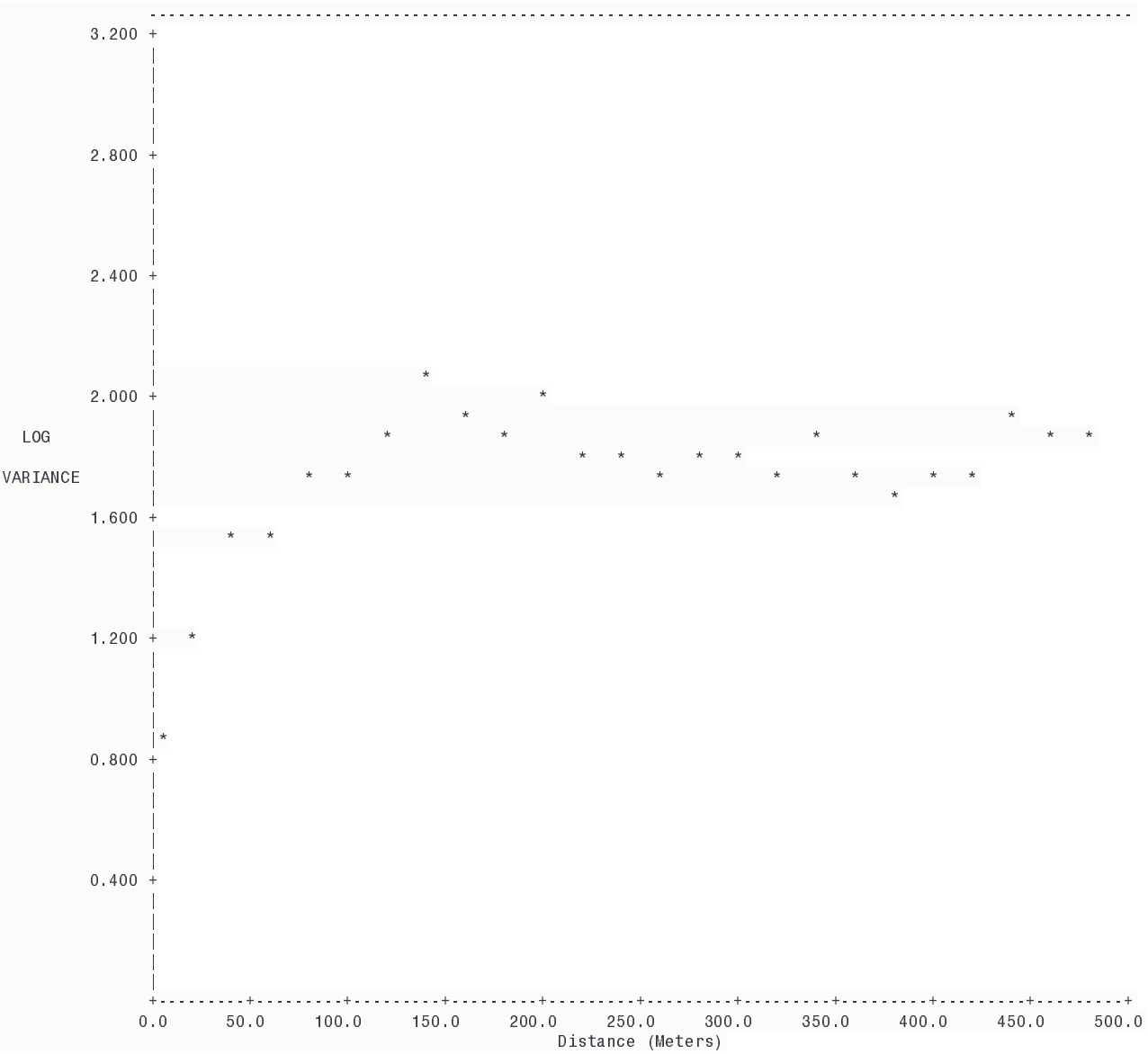
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



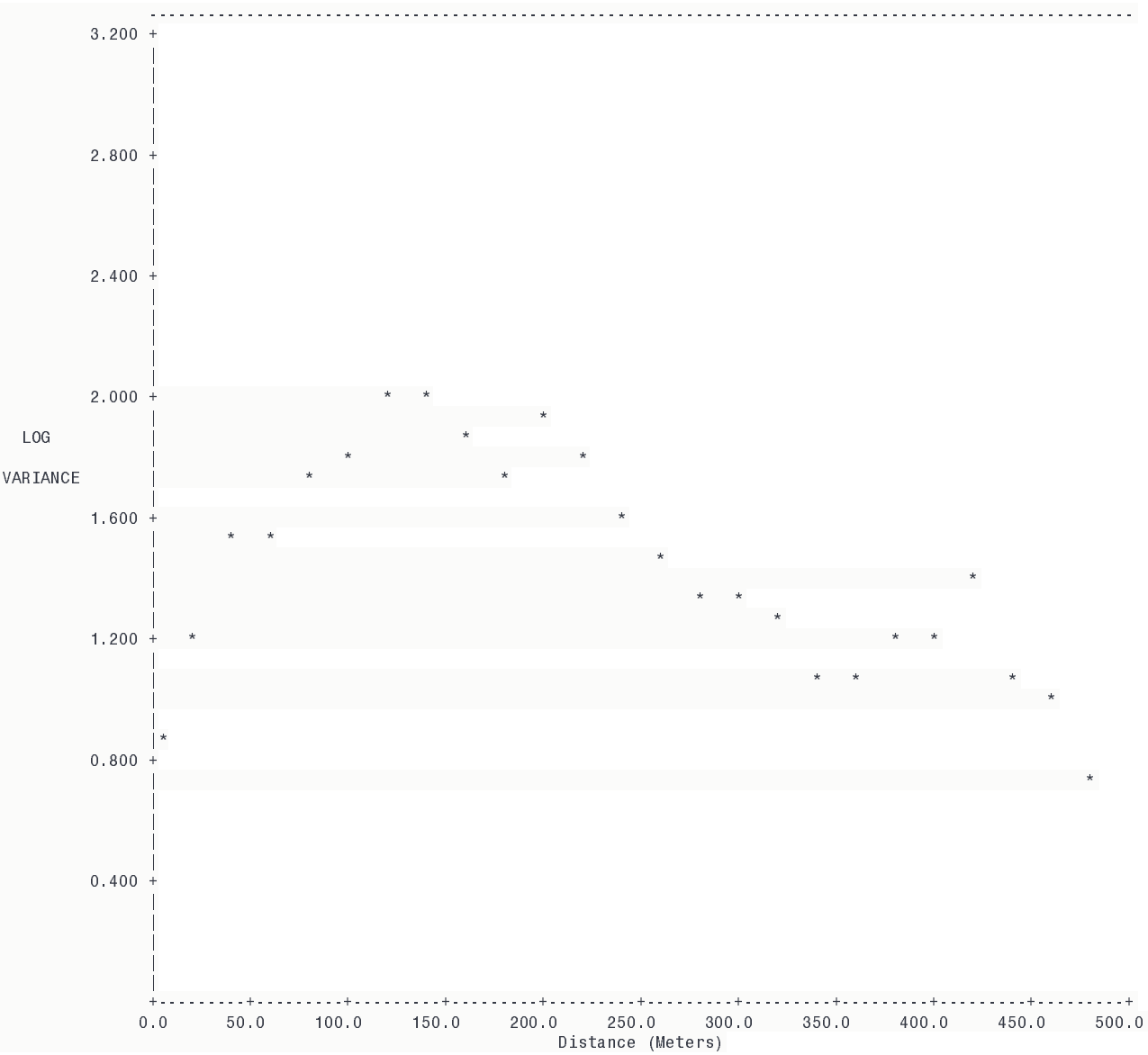
Title of Run: Print Variogram - Zn

Variogram Title: ne

Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



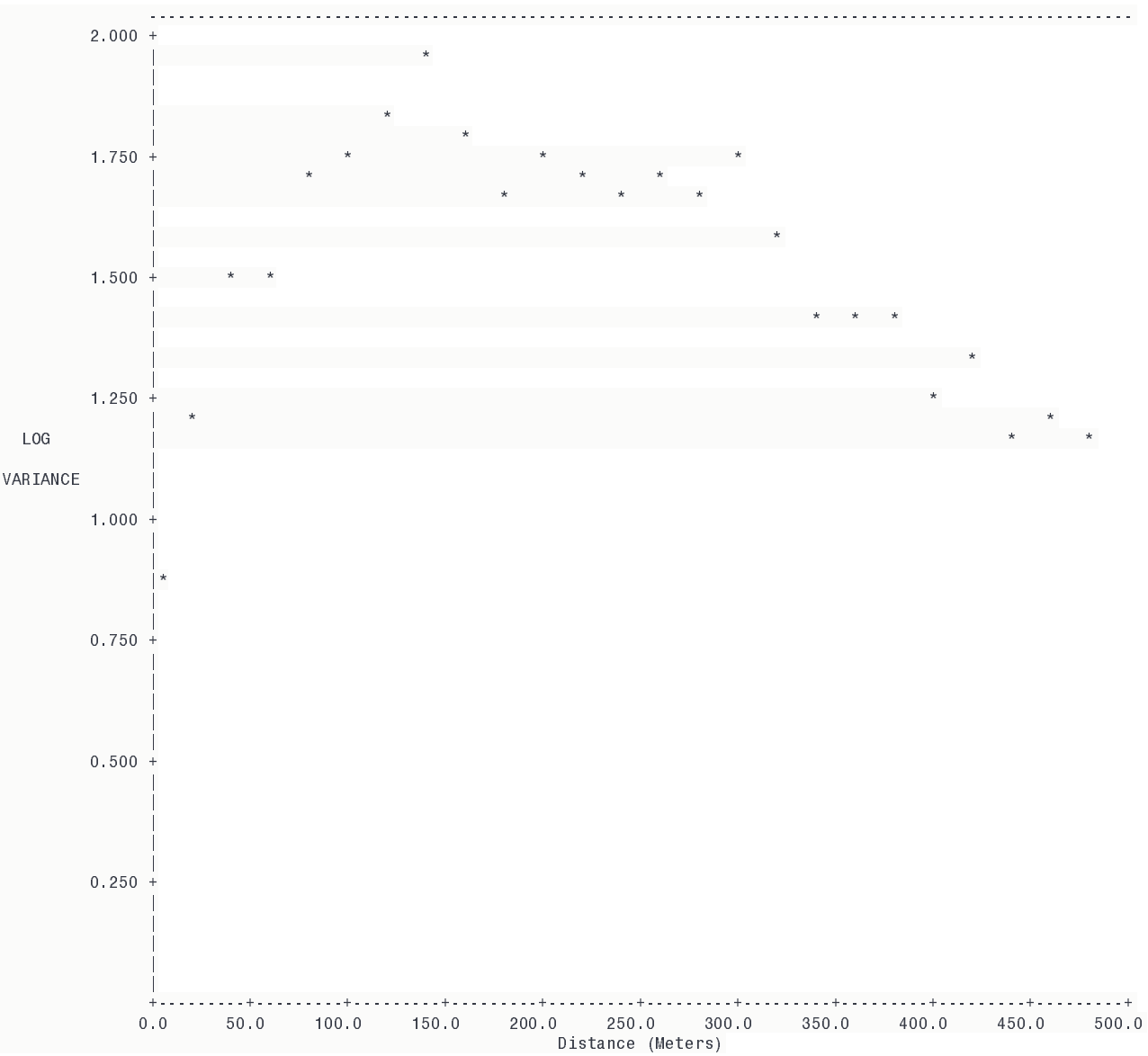
Title of Run: Print Variogram - Zn
Variogram Title: e
Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: sw

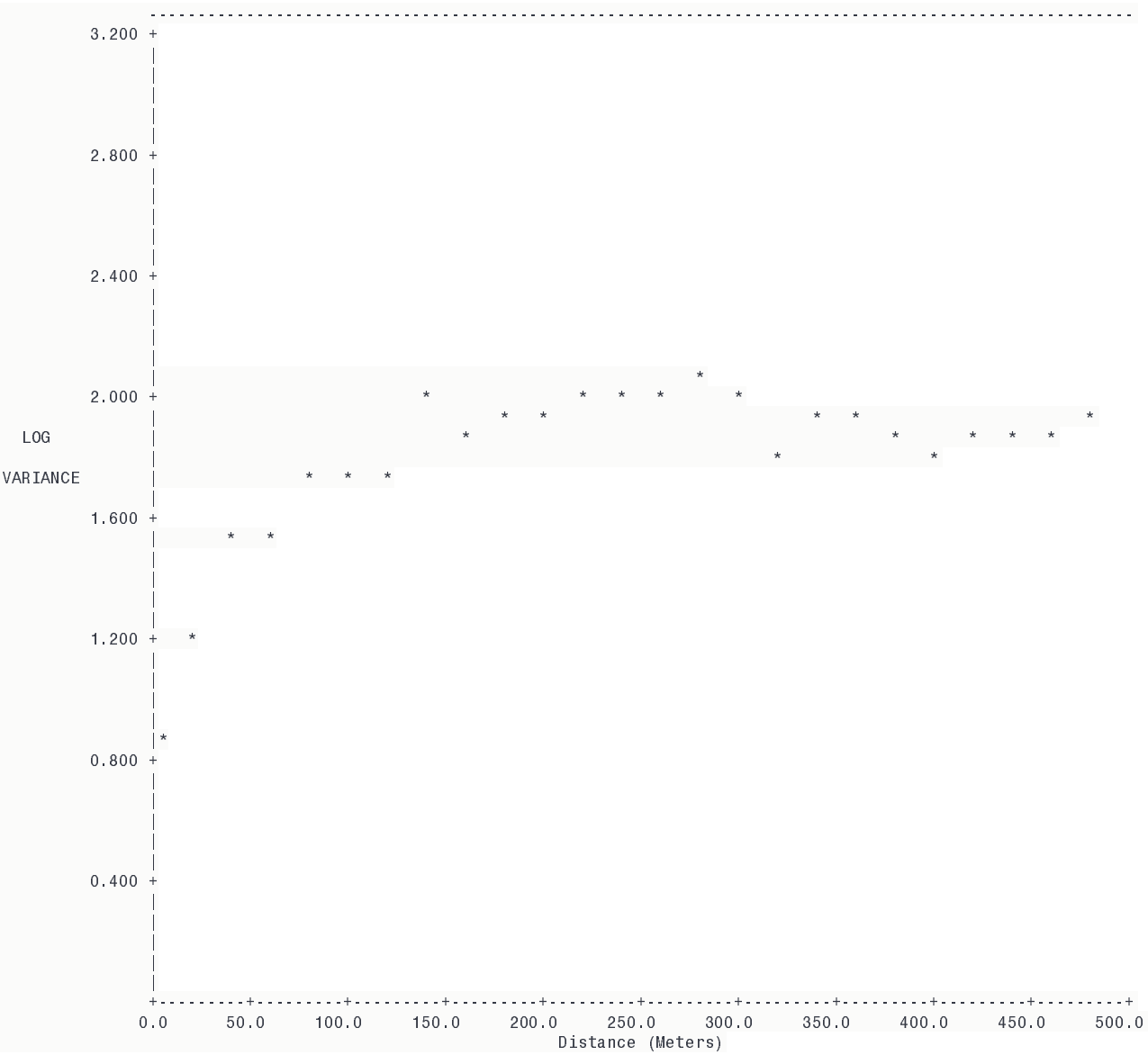
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: n 45 dip

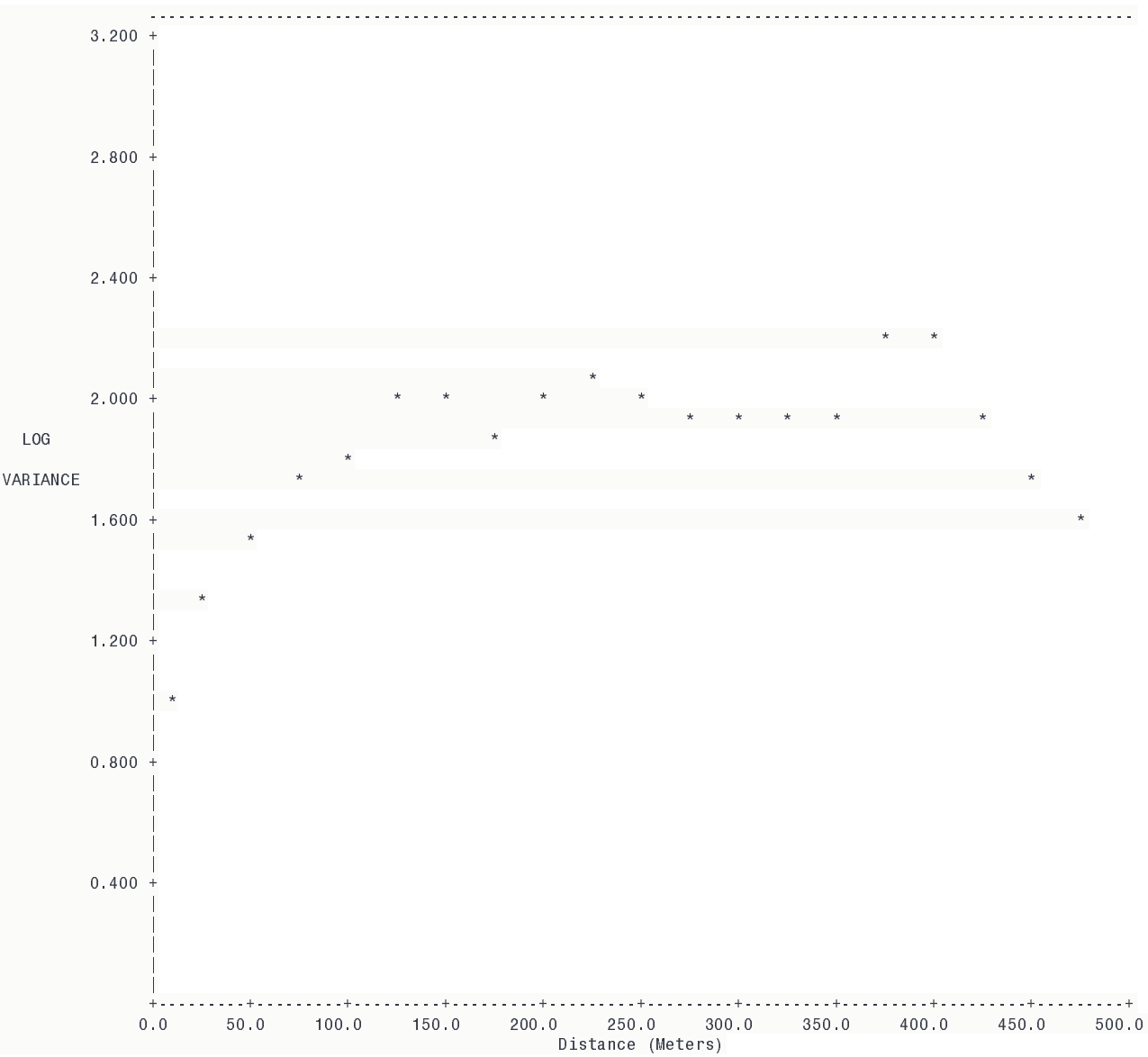
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: e 45 dip

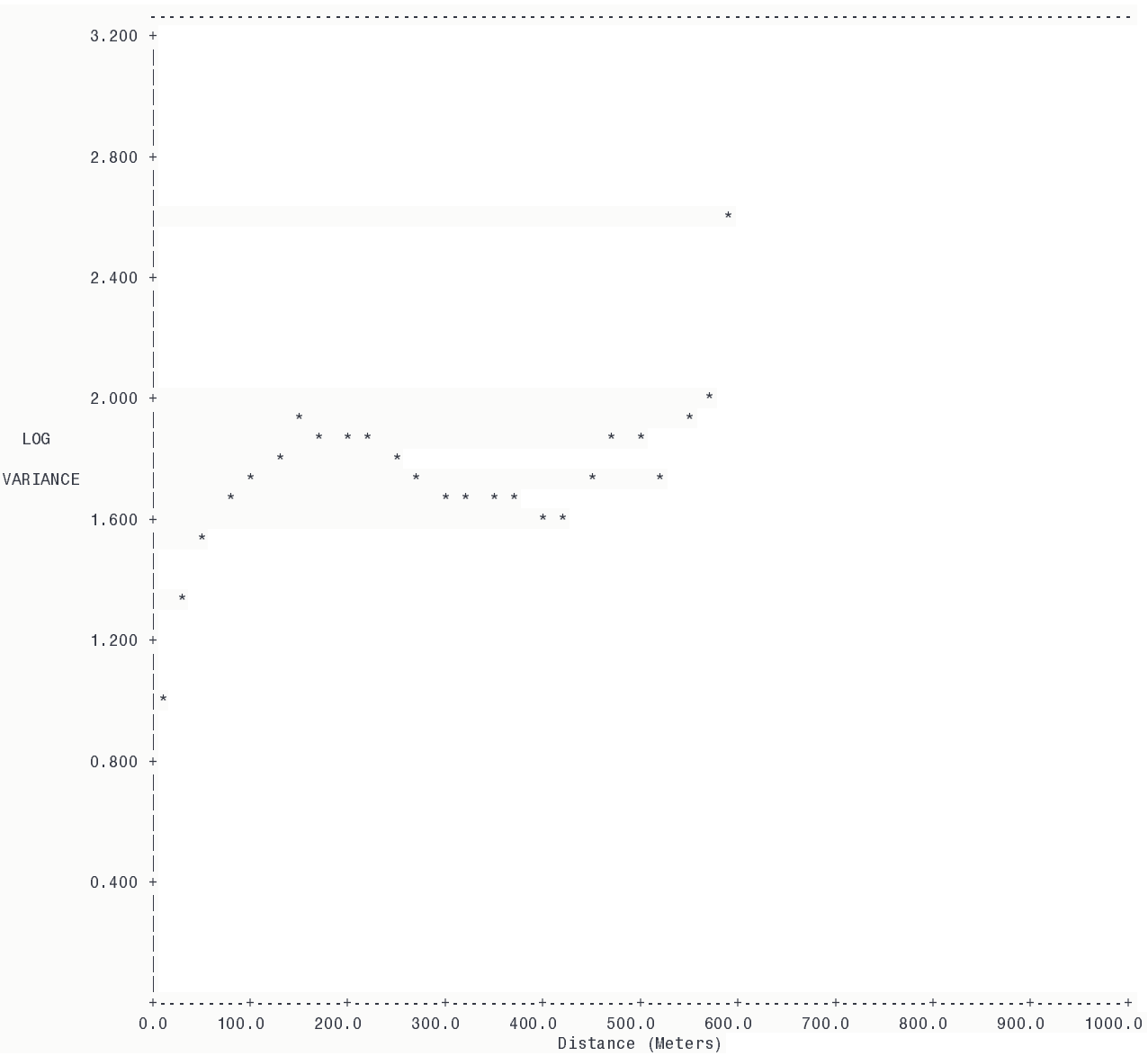
Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: w 45 dip

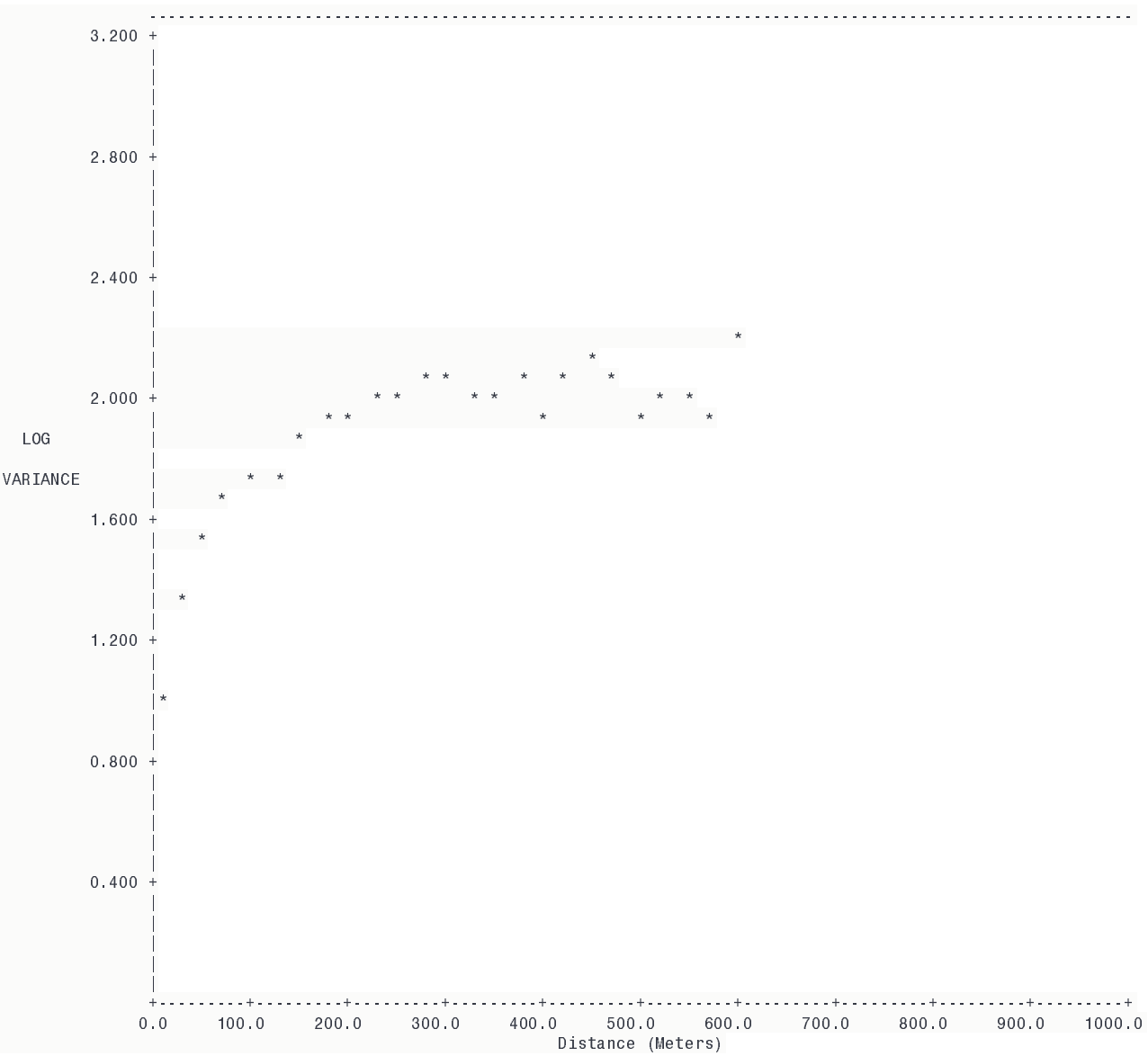
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Zn

Variogram Title: s 45 dip

Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 05-May-08 03:47 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1	<*>	Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2		Cu	2		c_Cu	2	<*>	k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5	<*>	c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9		c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

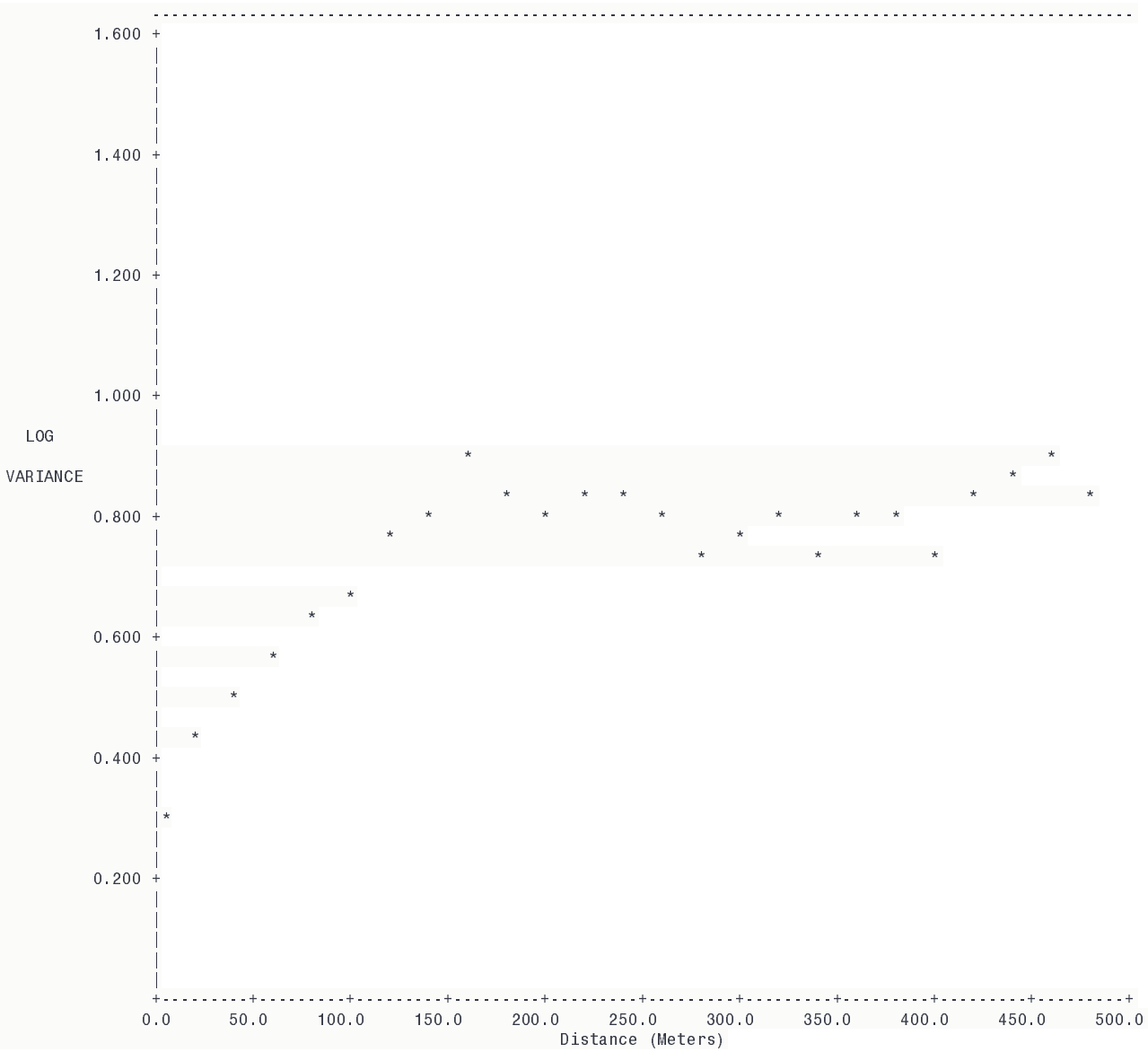
NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

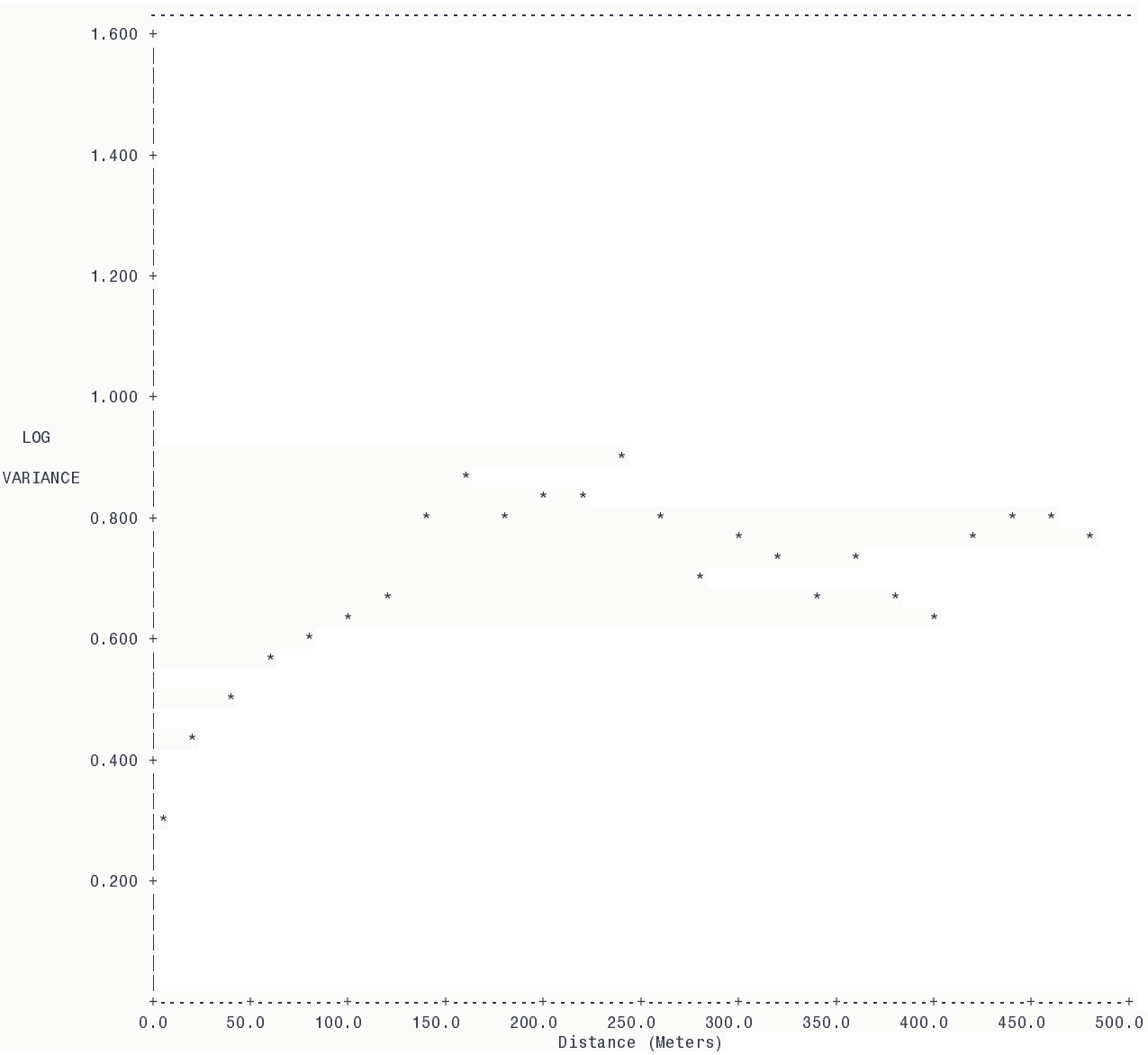
Title of Run: Print Variogram of c_Ag

Variogram Title: average

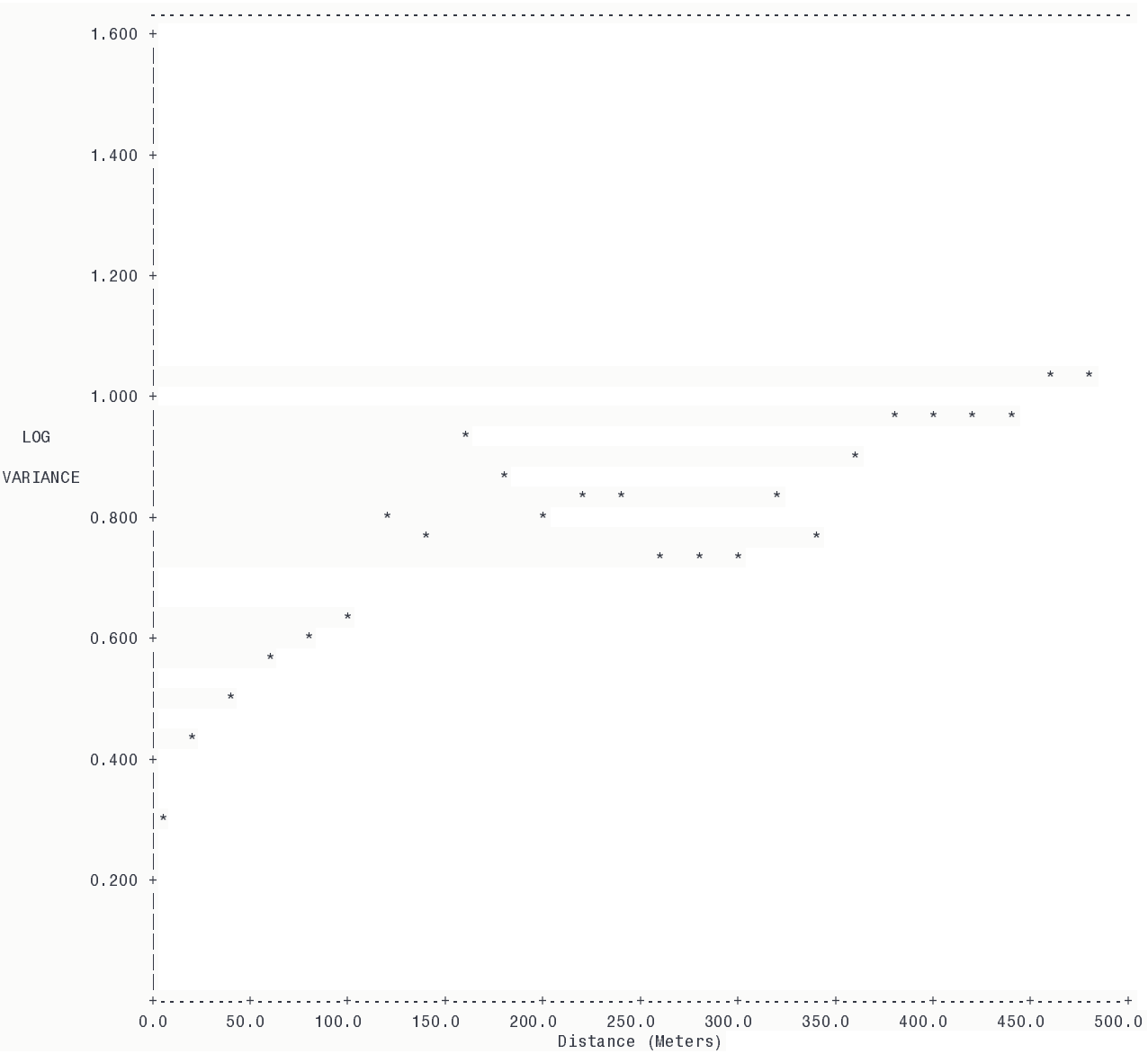
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



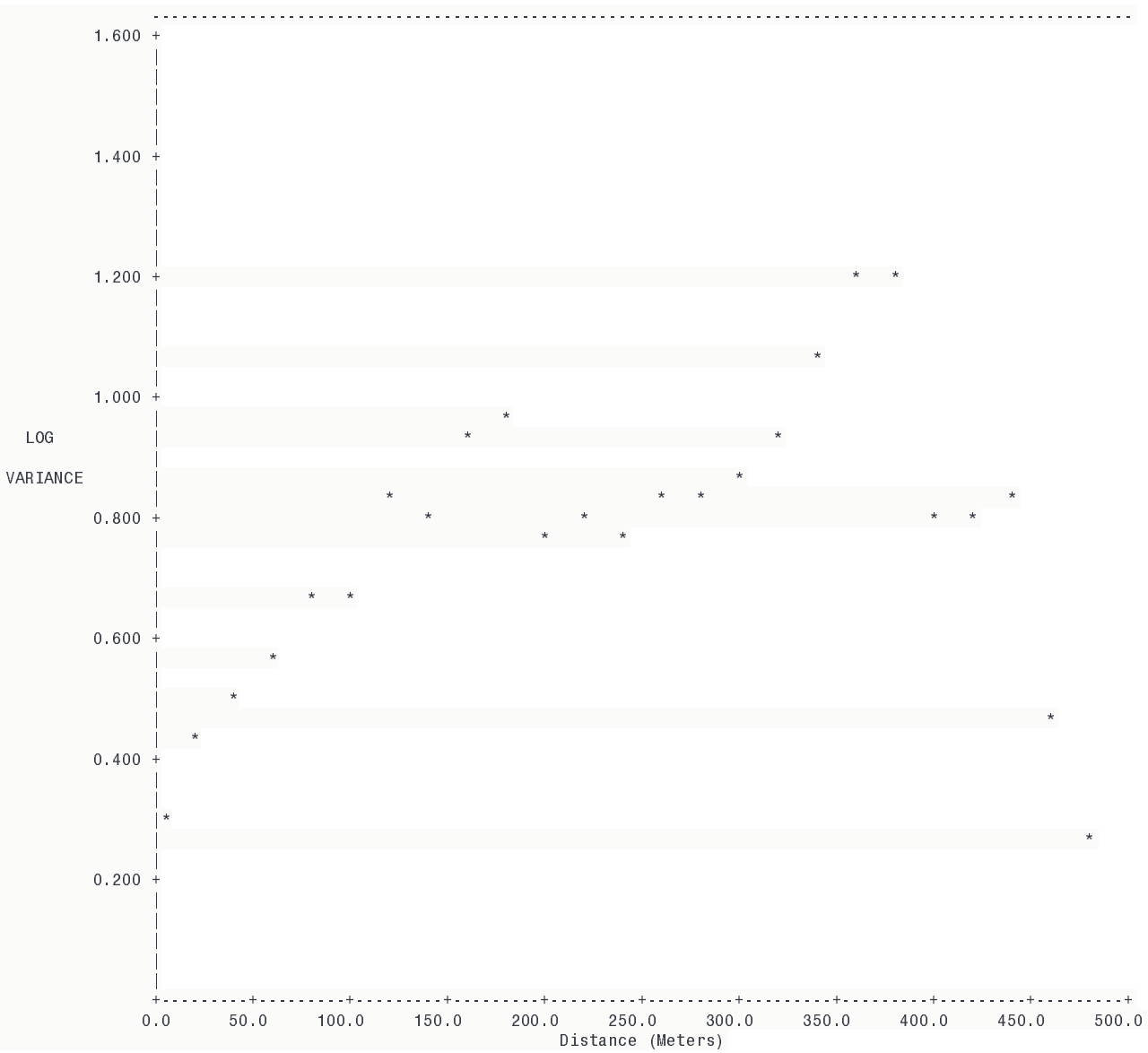
Title of Run: Print Variogram of c_Ag
Variogram Title: n
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



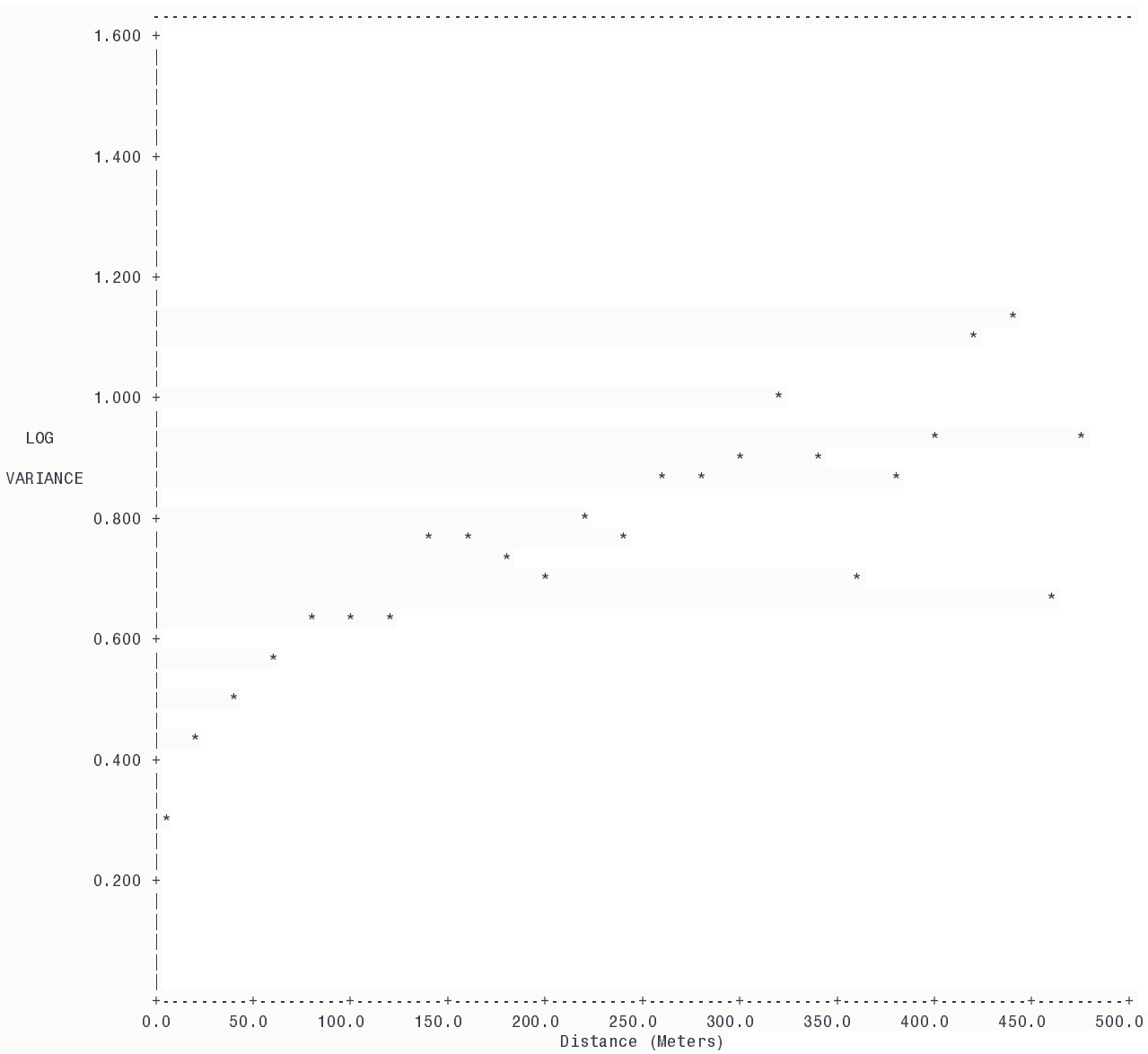
Title of Run: Print Variogram of c_Ag
Variogram Title: ne
Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



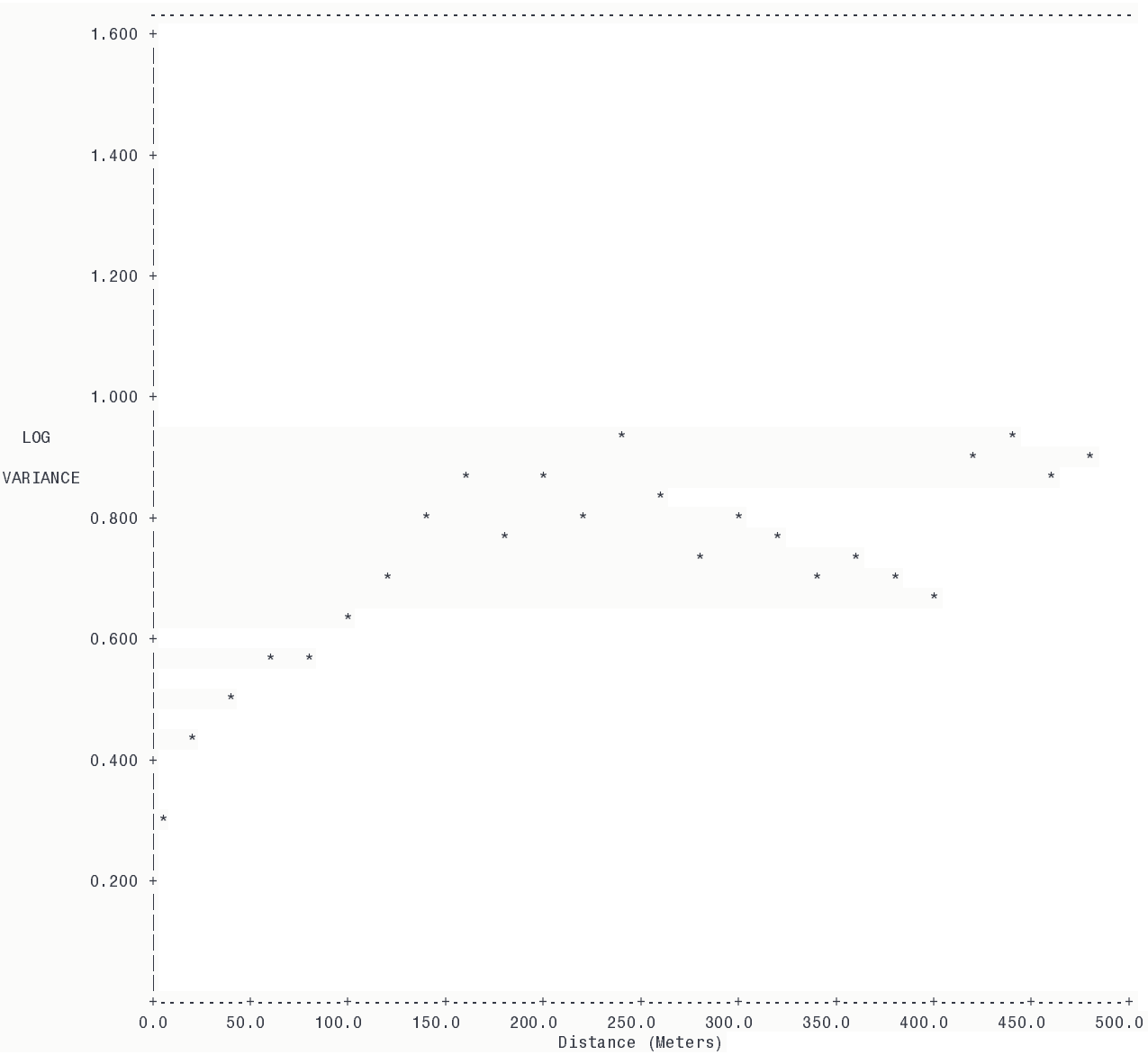
Title of Run: Print Variogram of c_Ag
Variogram Title: e
Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram of c_Ag
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



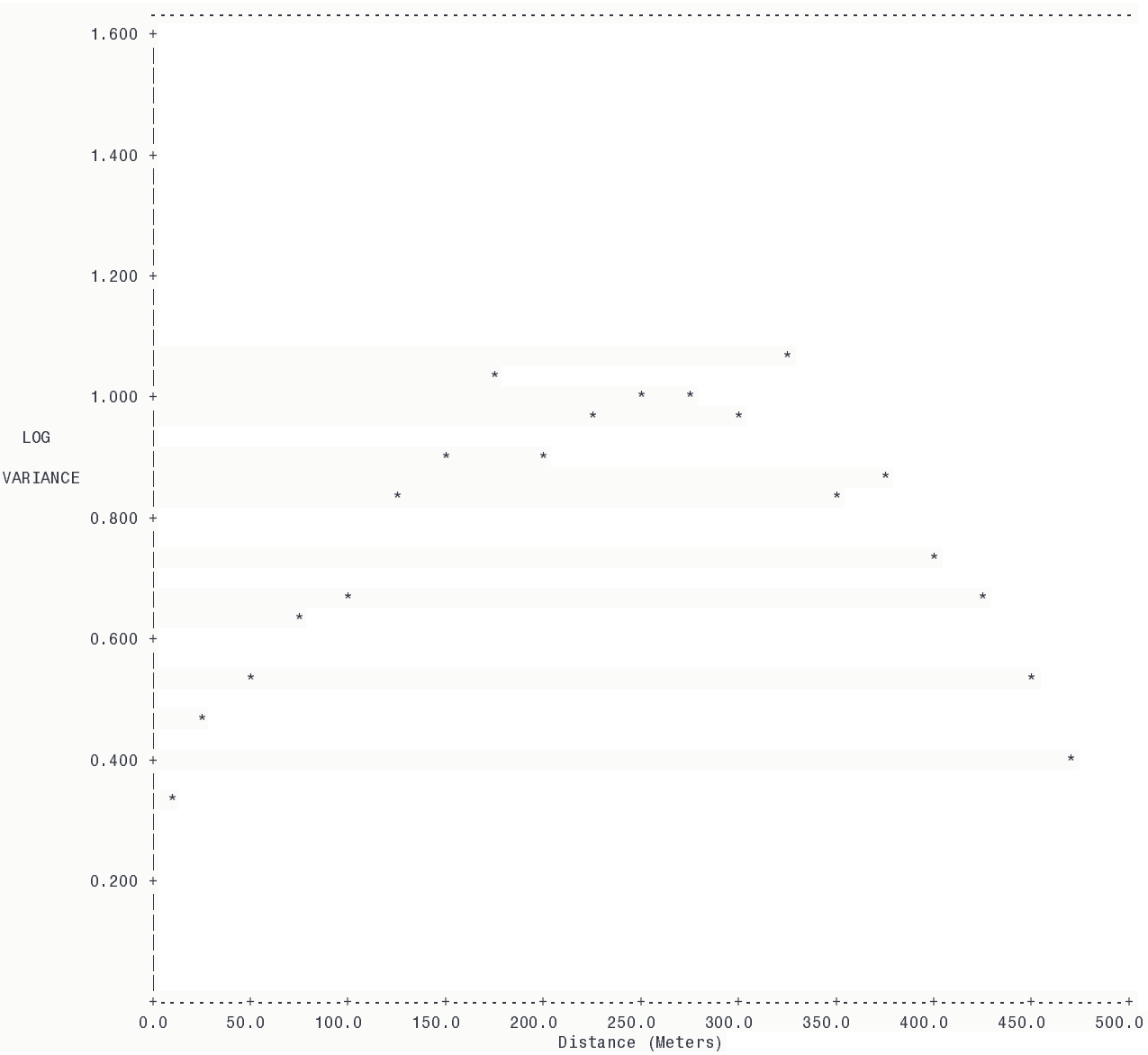
Title of Run: Print Variogram of c_Ag
Variogram Title: n 45 dip
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



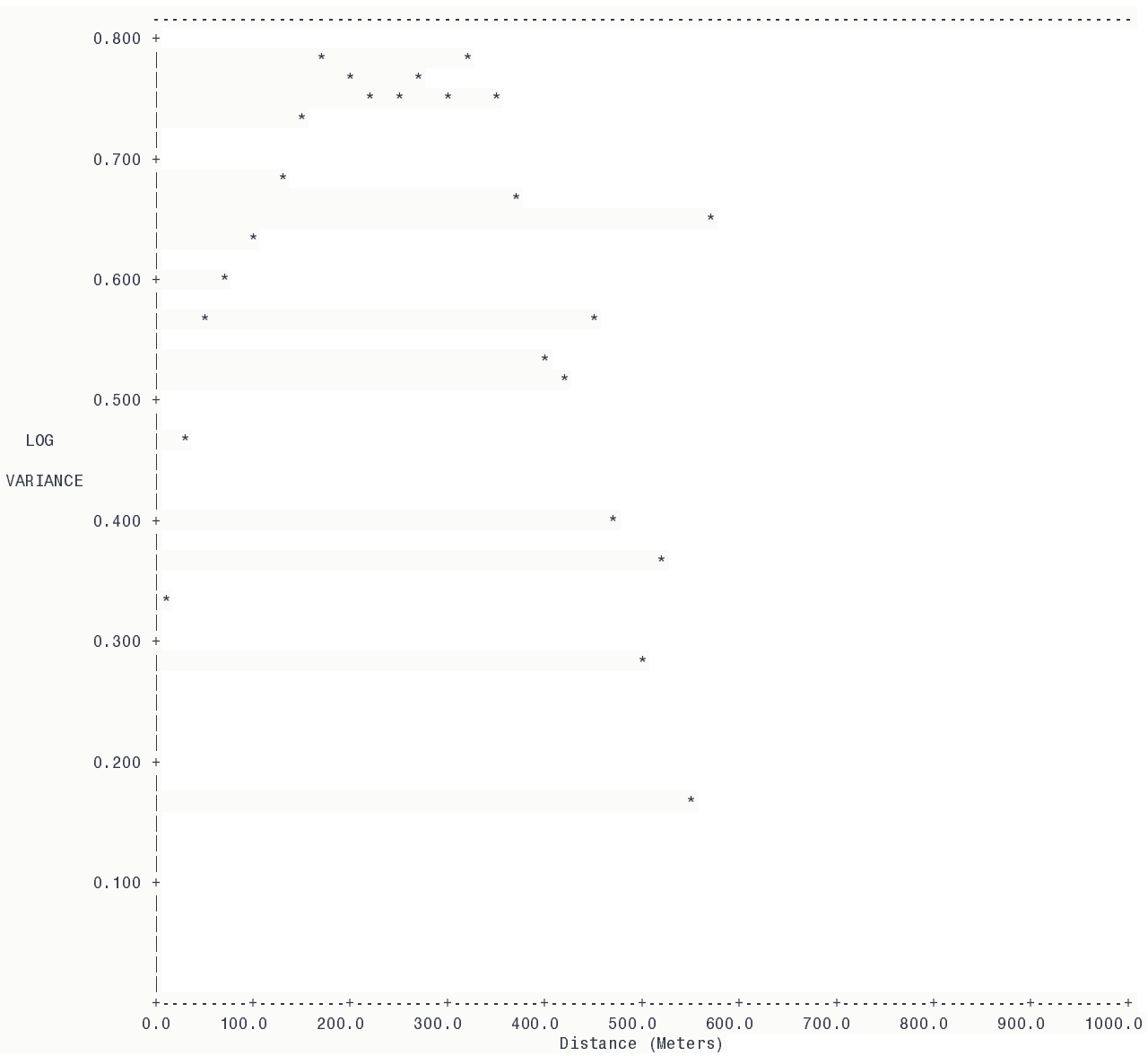
Title of Run: Print Variogram of c_Ag

Variogram Title: e 45 dip

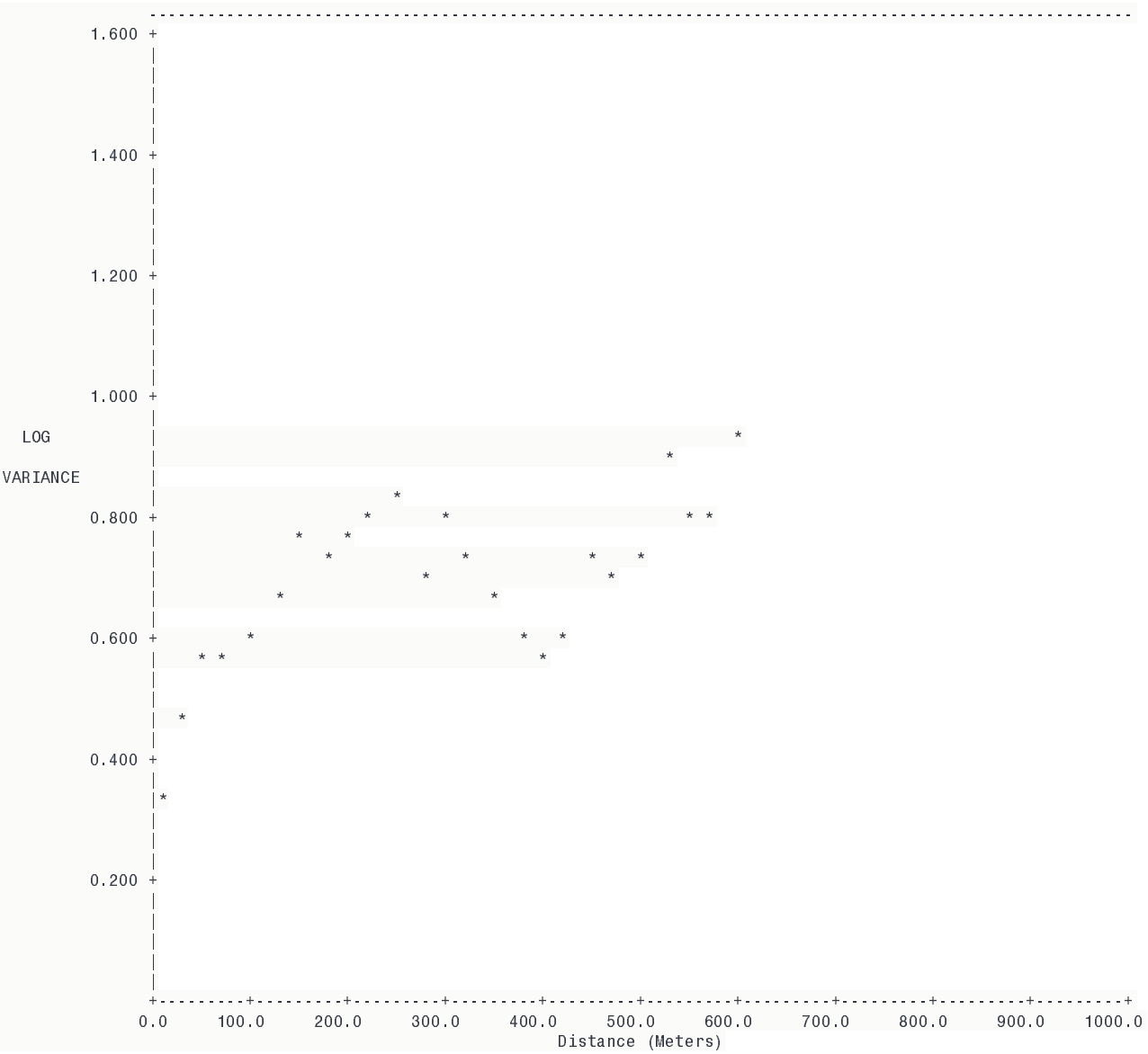
Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram of c_Ag
Variogram Title: w 45 dip
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram of c_Ag
Variogram Title: s 45 dip
Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 06-May-08 10:35 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram - As

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1	<*>	Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2		Cu	2		c_Cu	2	<*>	k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6	<*>	c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9		c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

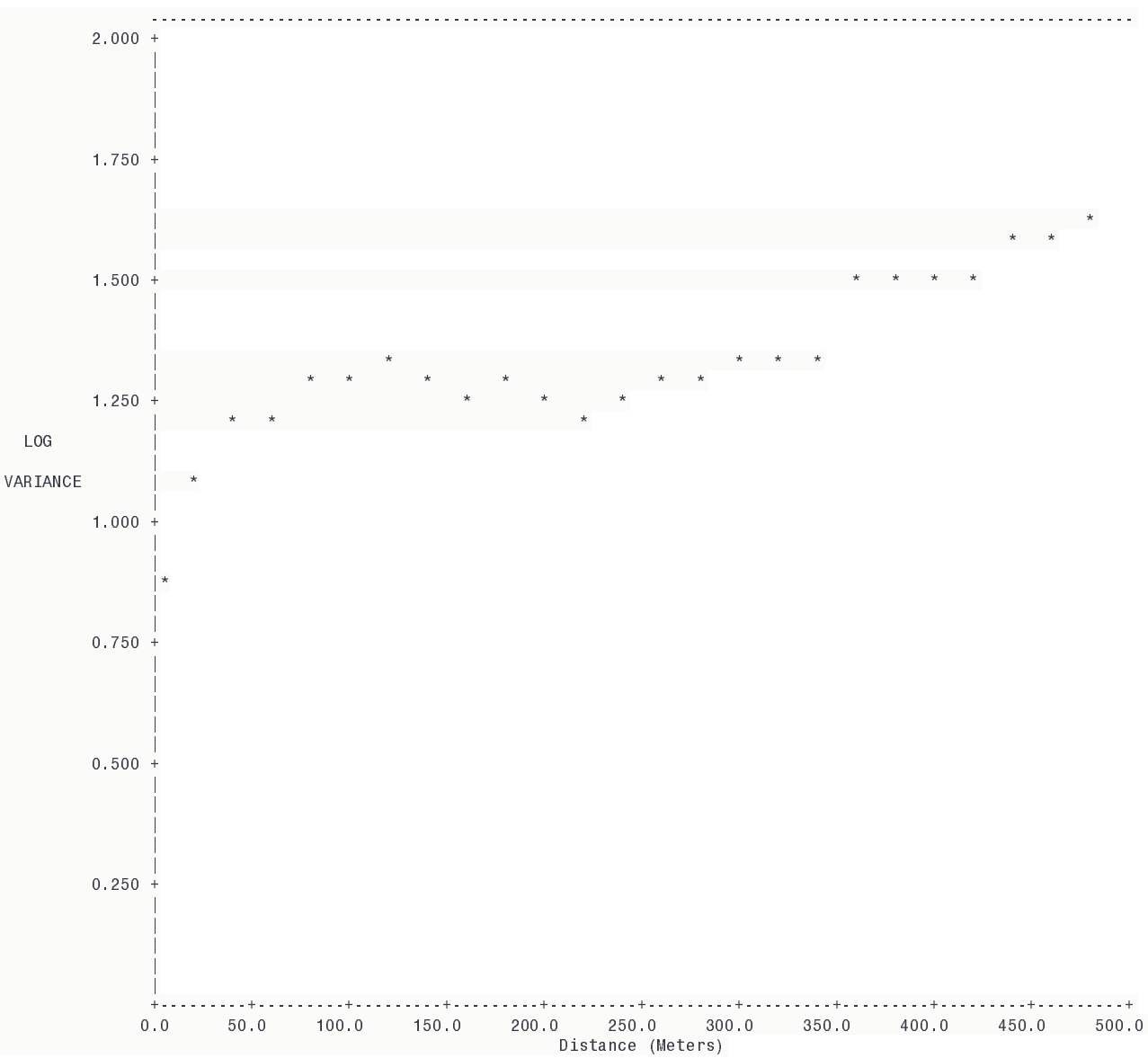
NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

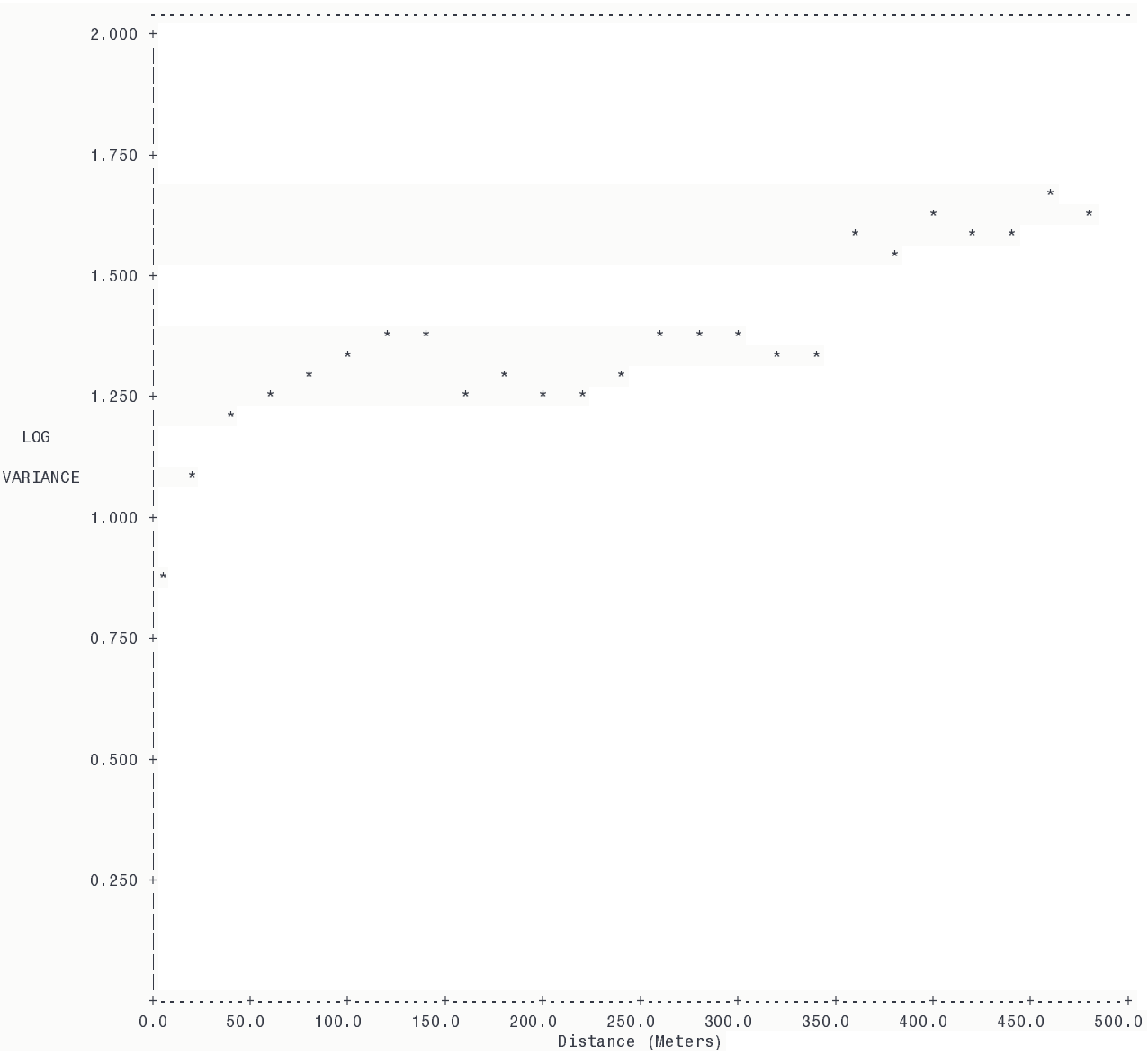
Title of Run: Print Variogram - As

Variogram Title: average

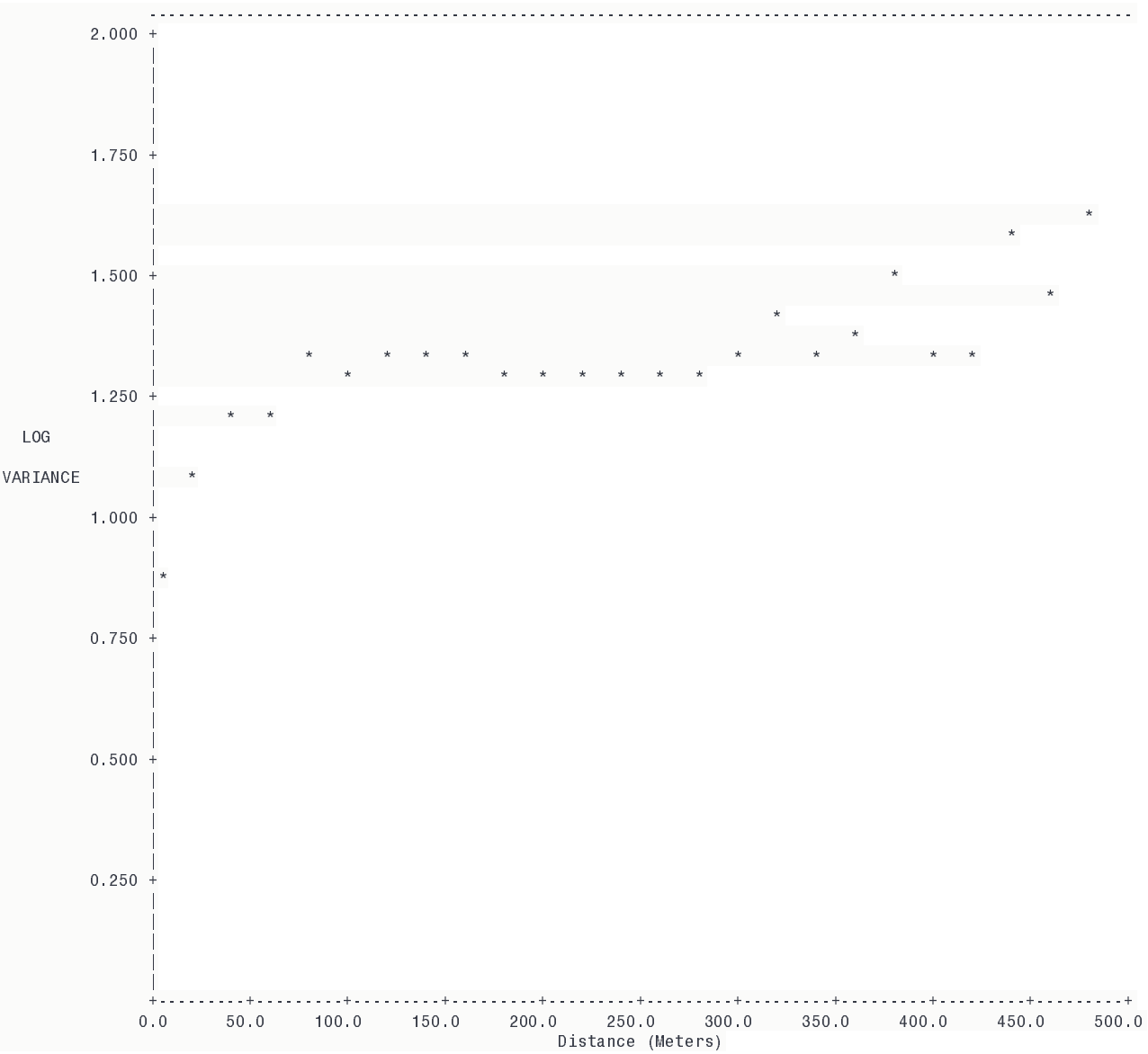
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - As
Variogram Title: n
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



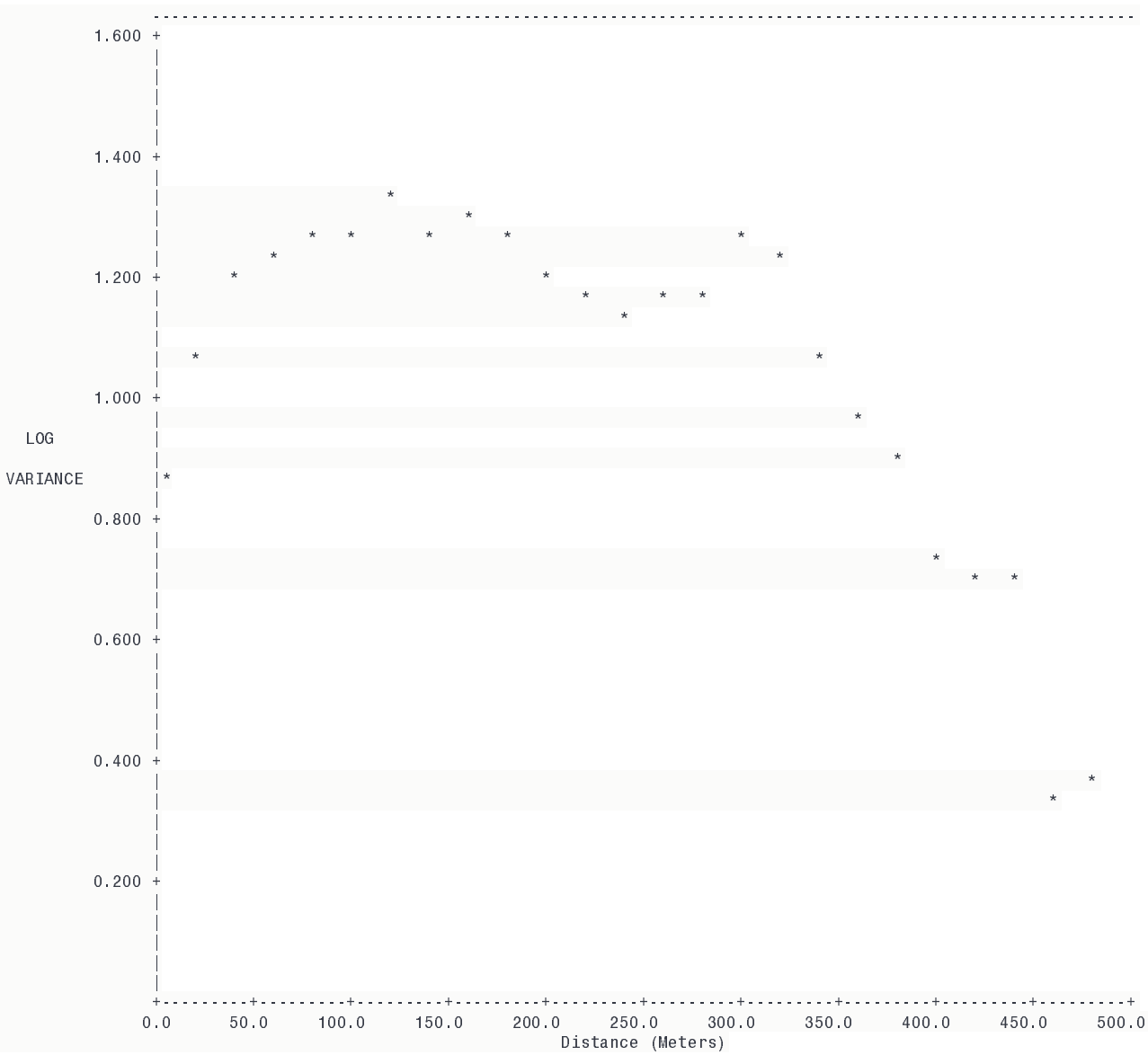
Title of Run: Print Variogram - As
Variogram Title: ne
Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



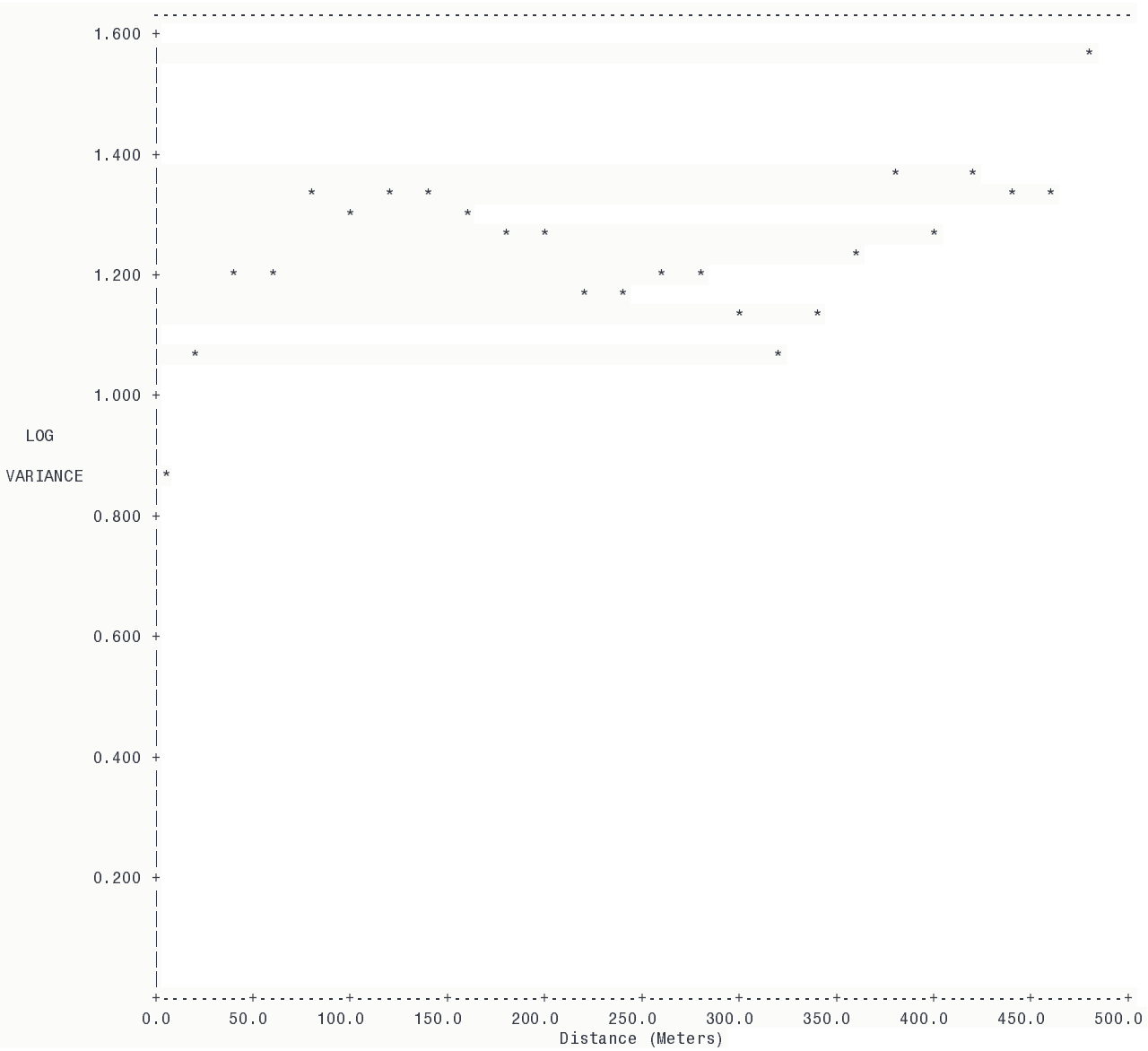
Title of Run: Print Variogram - As

Variogram Title: e

Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



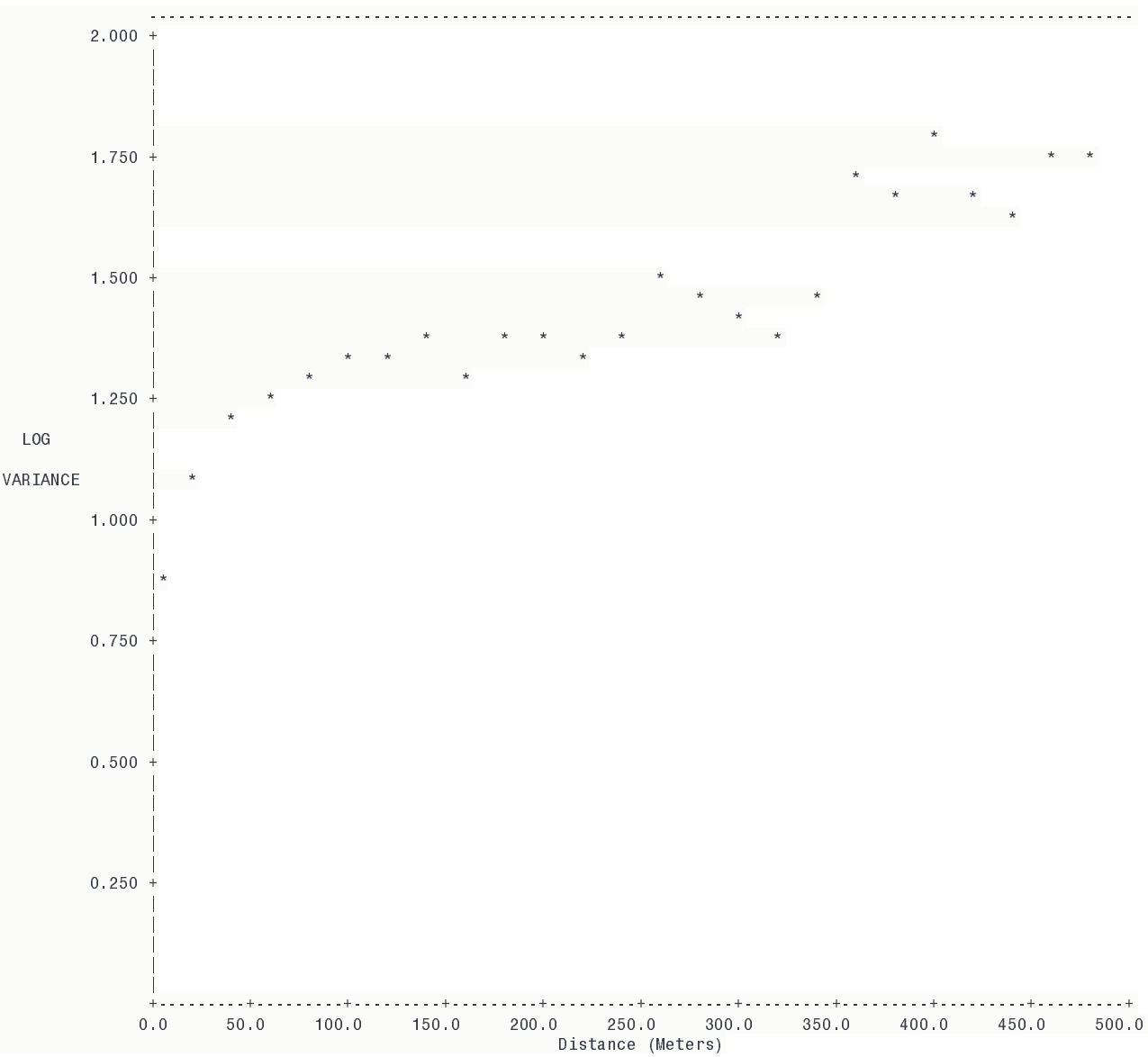
Title of Run: Print Variogram - As
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - As

Variogram Title: n 45 dip

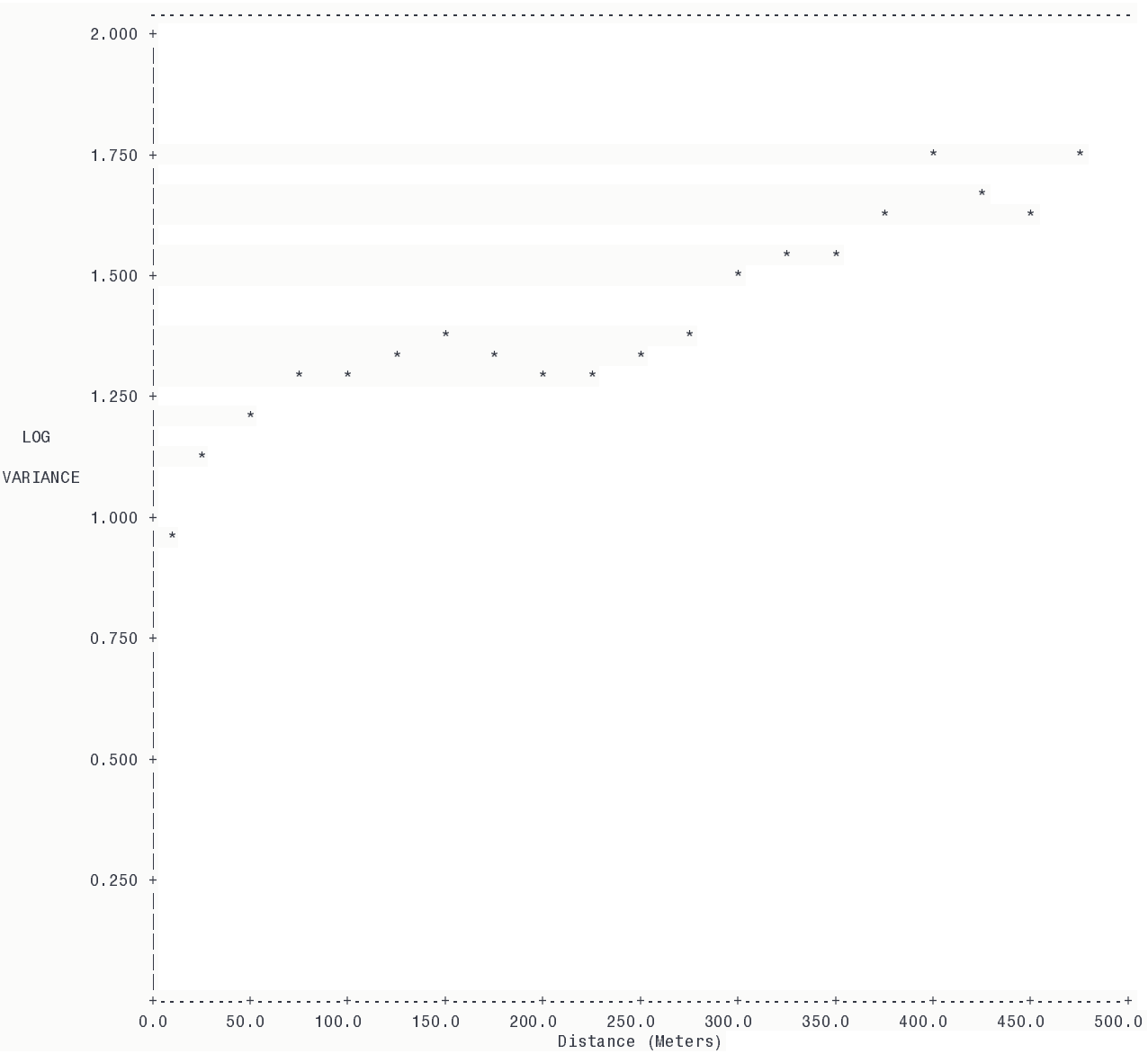
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



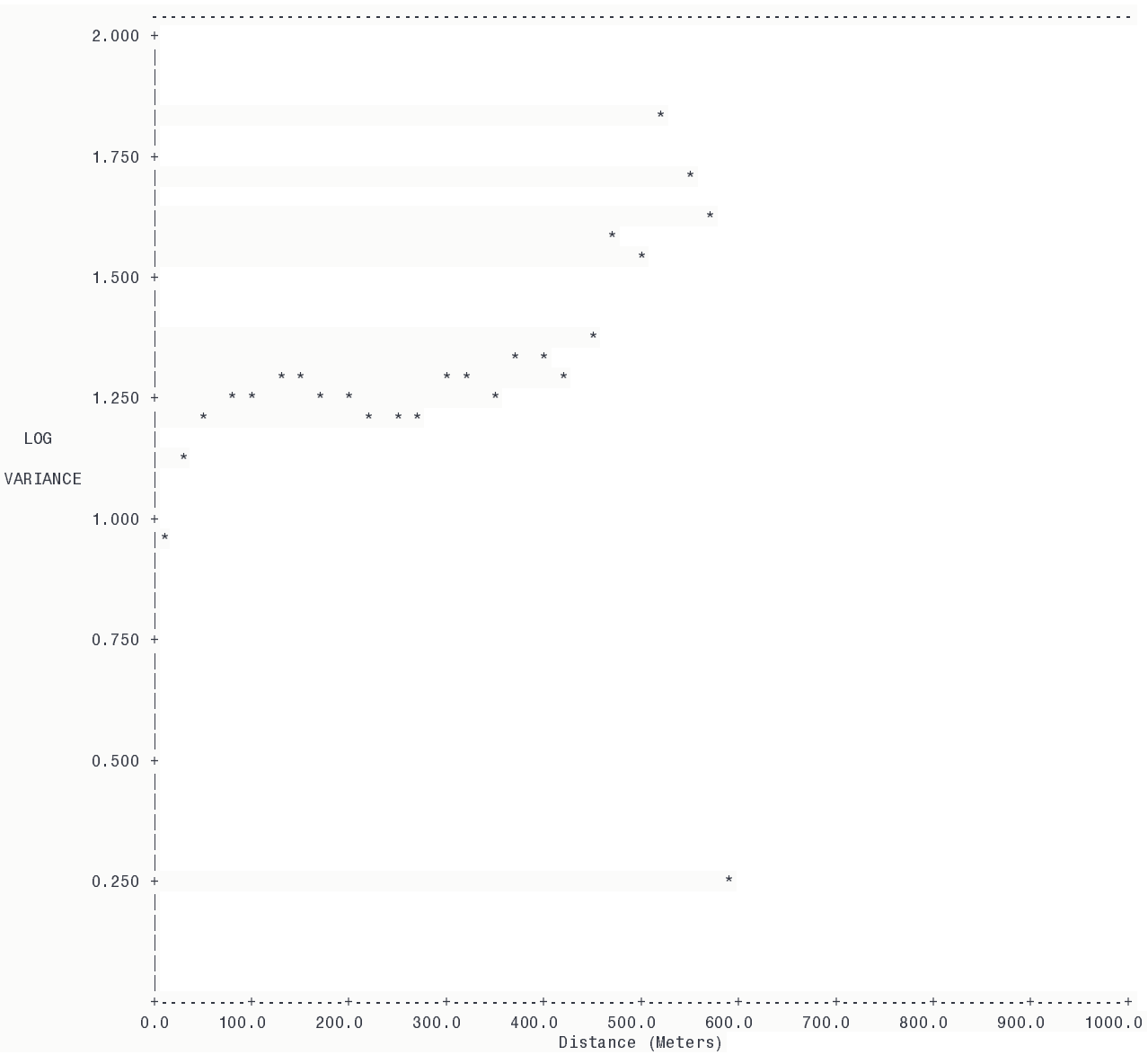
Title of Run: Print Variogram - As

Variogram Title: e 45 dip

Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



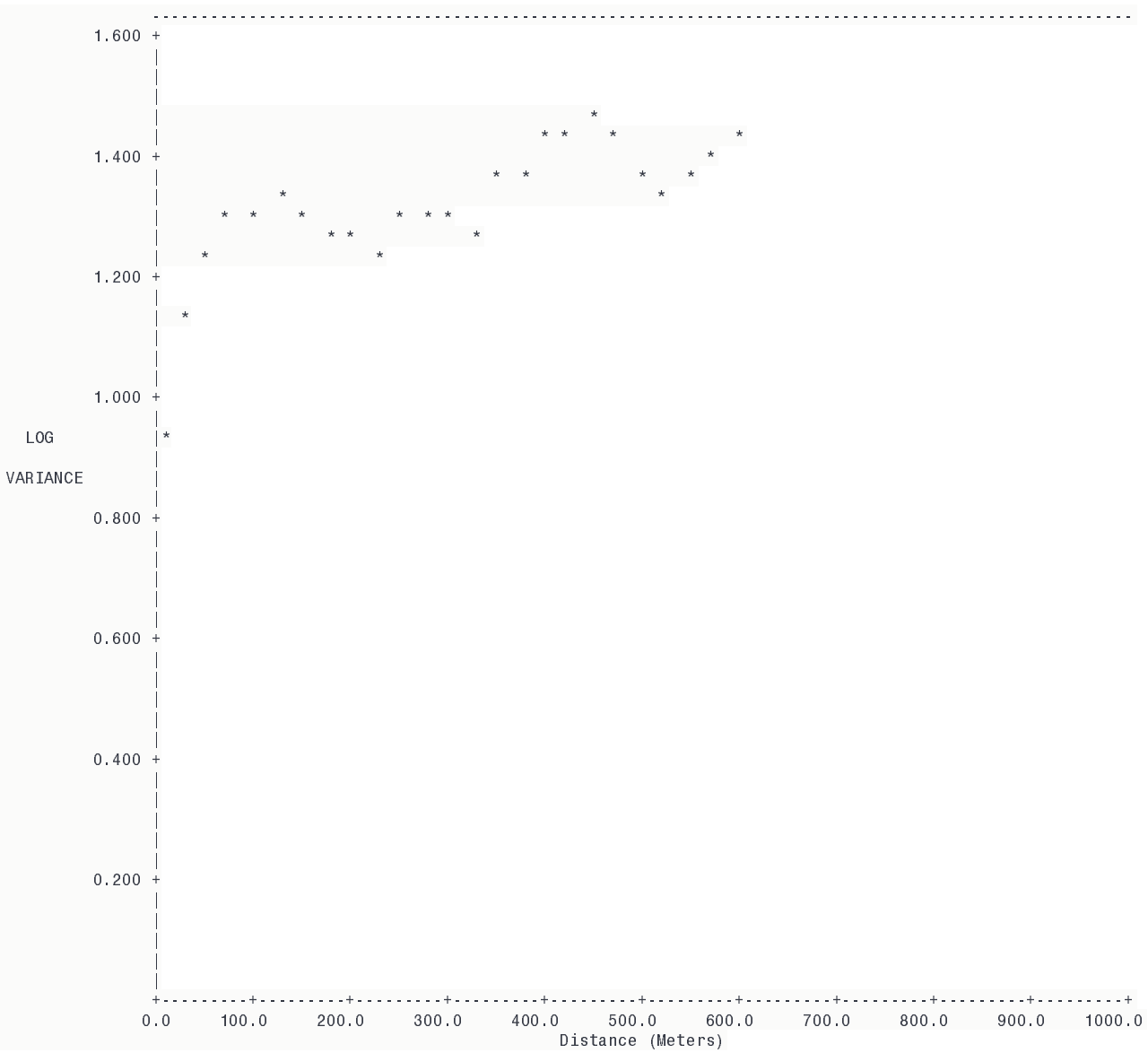
Title of Run: Print Variogram - As
Variogram Title: w 45 dip
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - As

Variogram Title: s 45 dip

Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 06-May-08 11:01 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram - Fe

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1	<*>	Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2		Cu	2		c_Cu	2	<*>	k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7	<*>	c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9		c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

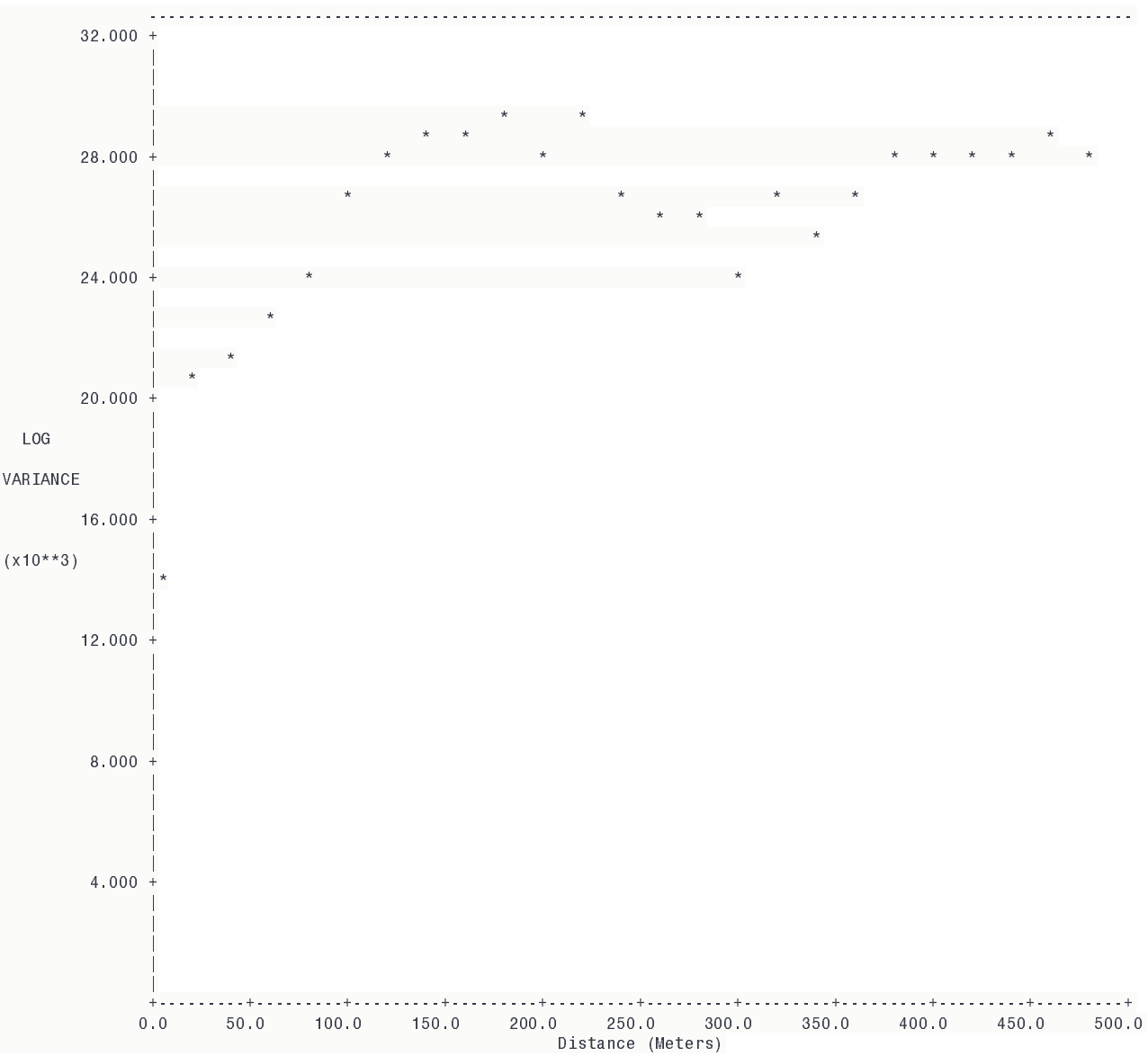
NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

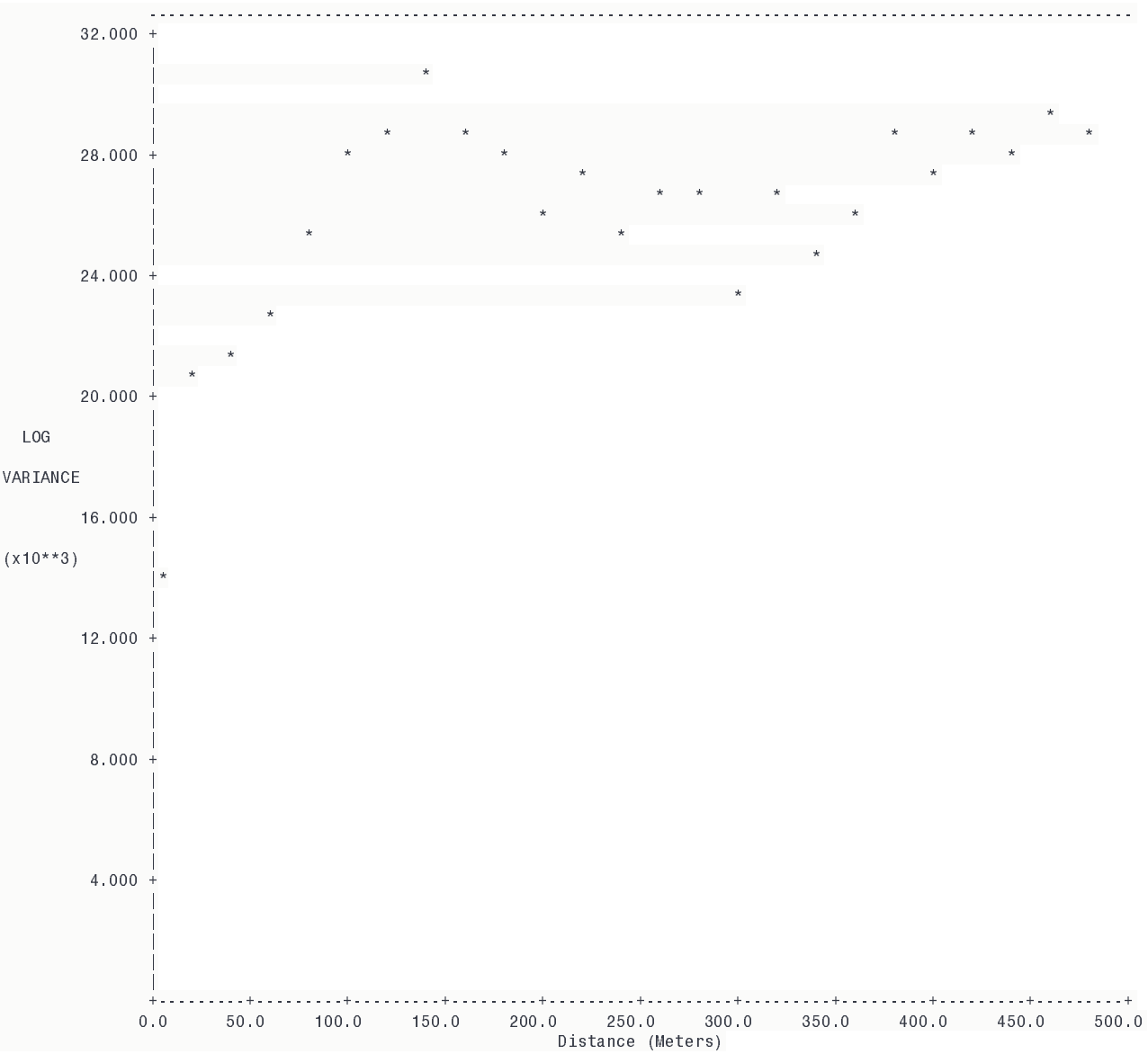
Title of Run: Print Variogram - Fe

Variogram Title: average

Direction: 0.00 Dip: 0.0 Rake: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



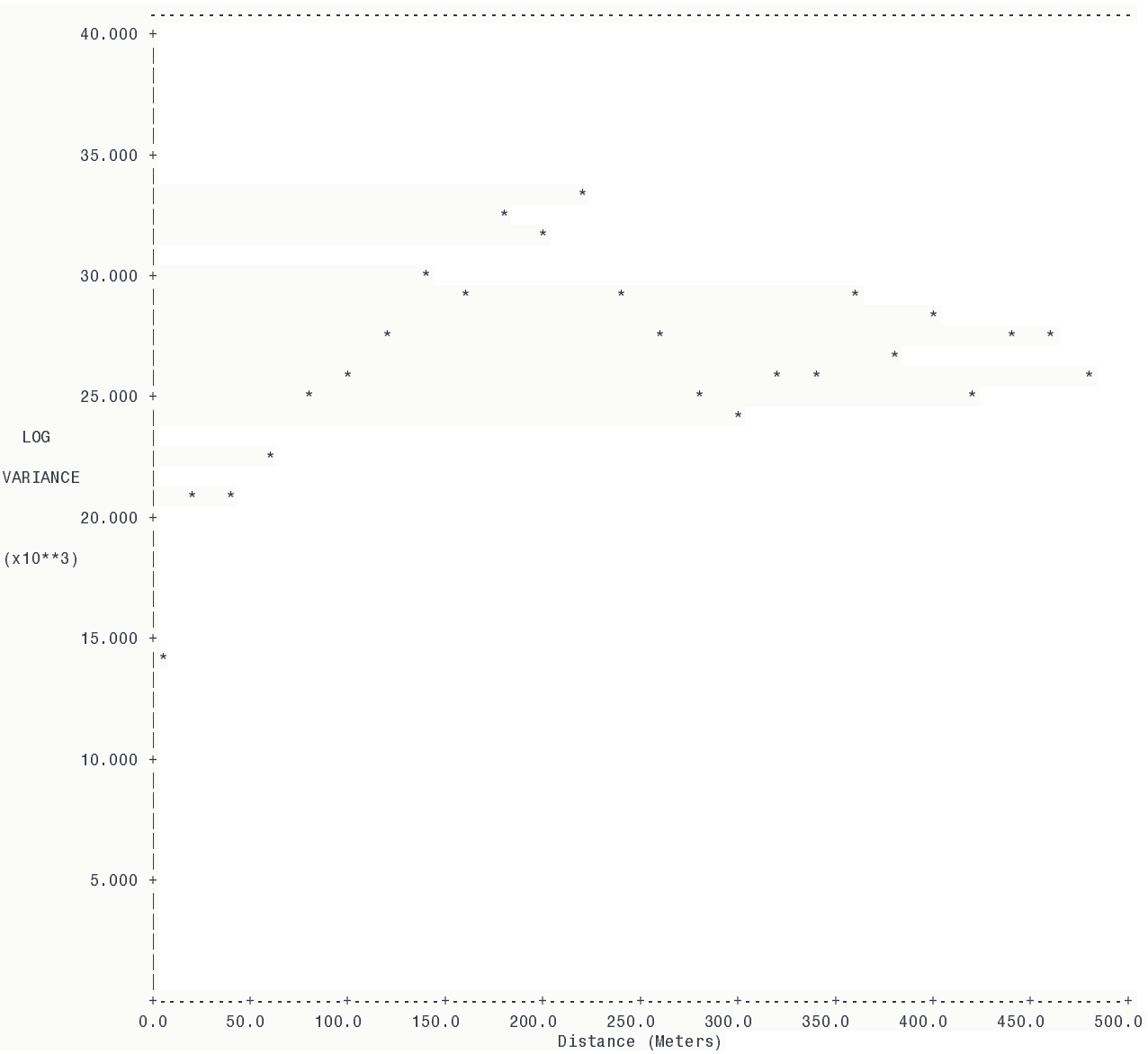
Title of Run: Print Variogram - Fe
Variogram Title: n
Direction: 0.00 Dip: 0.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Fe

Variogram Title: ne

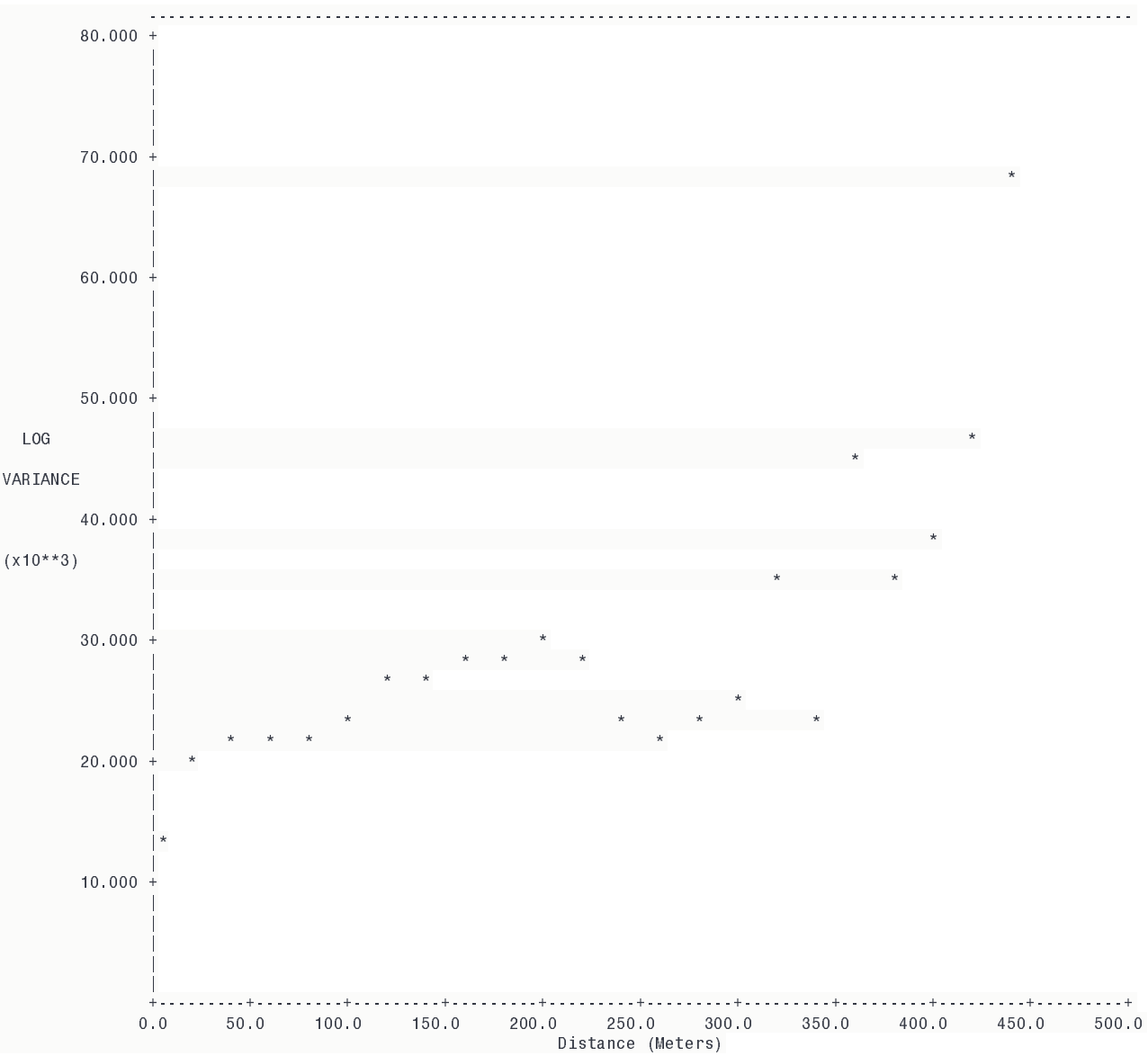
Direction: 45.00 Dip: 0.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



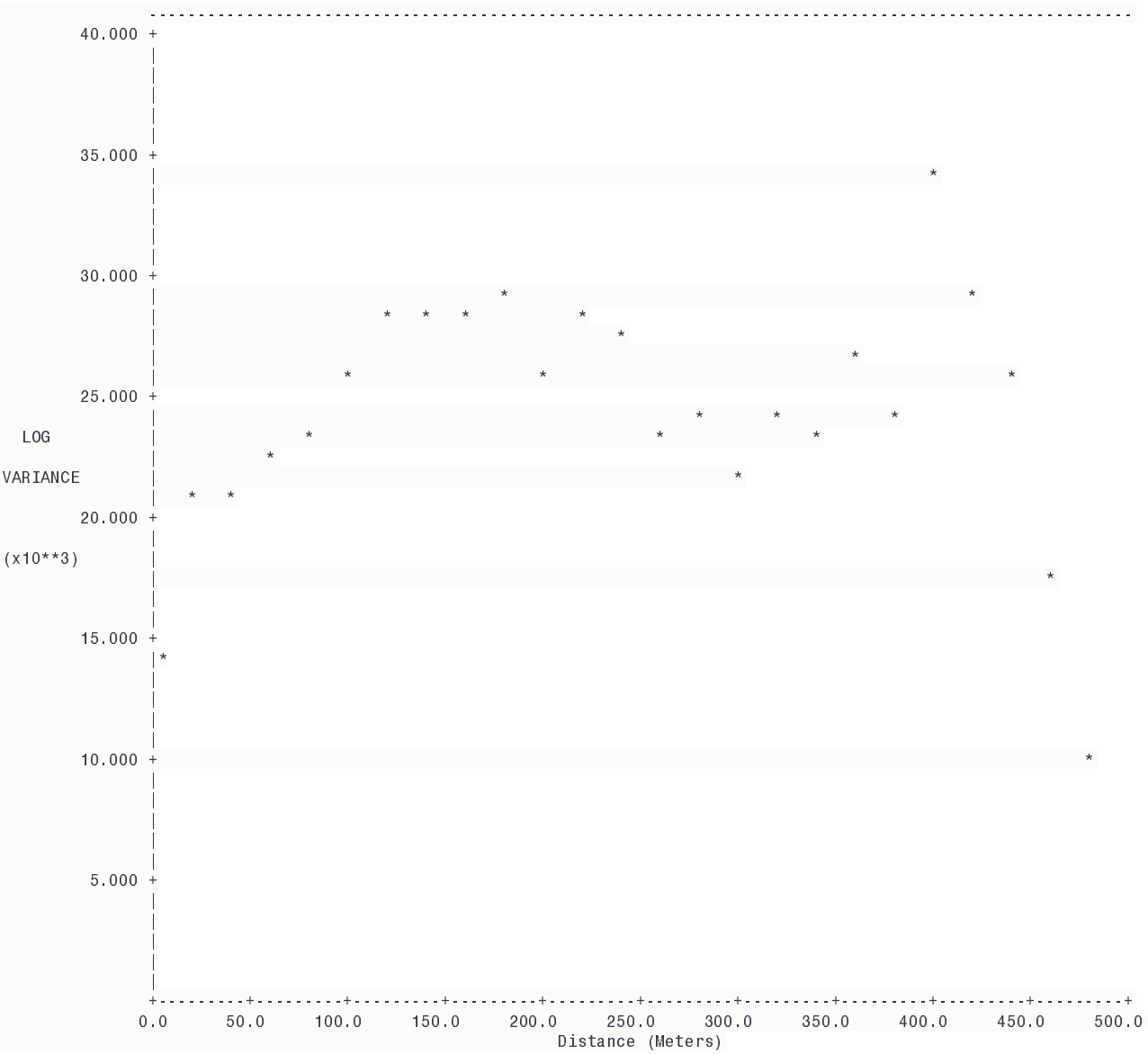
Title of Run: Print Variogram - Fe

Variogram Title: e

Direction: 90.00 Dip: 0.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



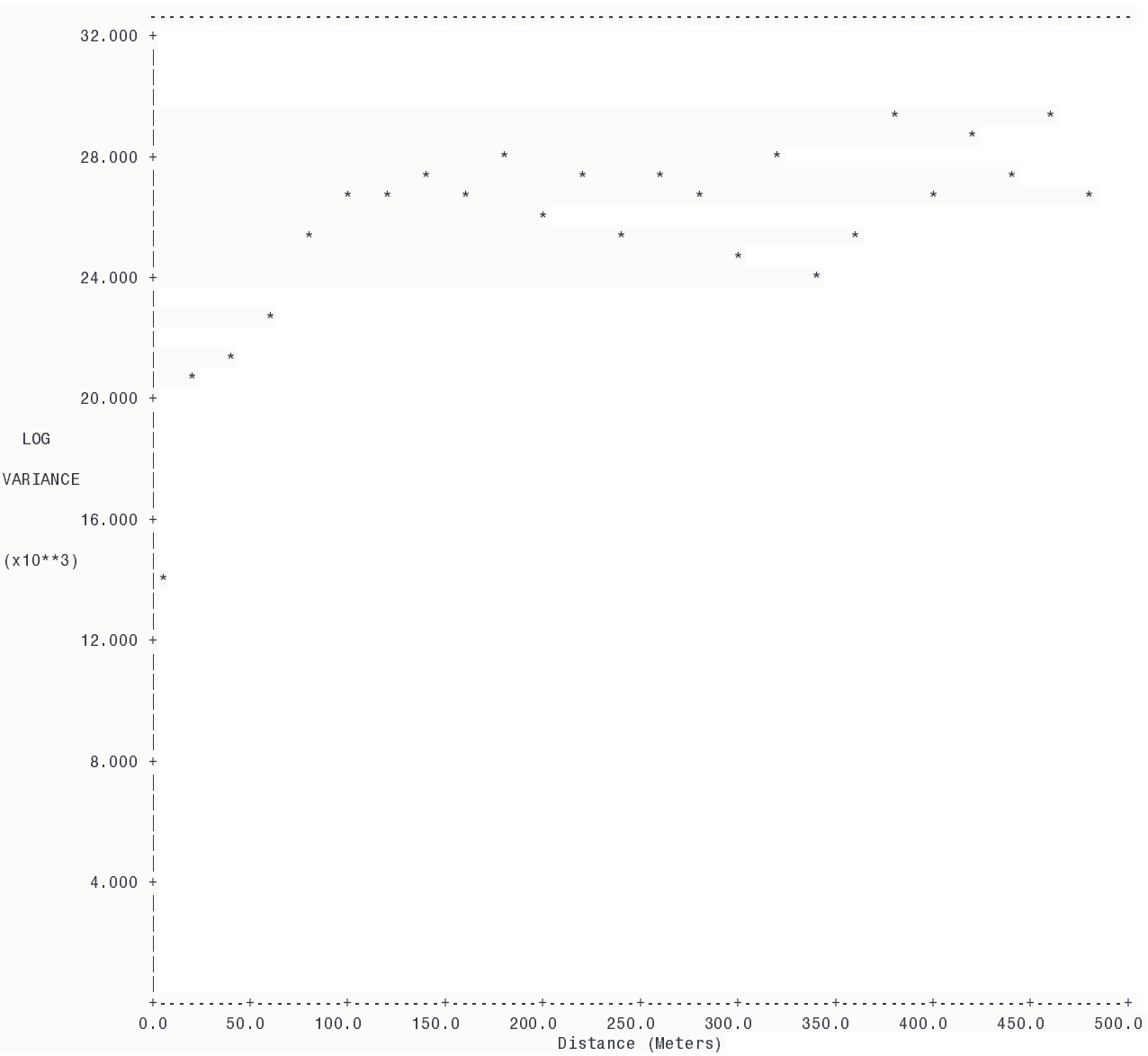
Title of Run: Print Variogram - Fe
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Fe

Variogram Title: n 45 dip

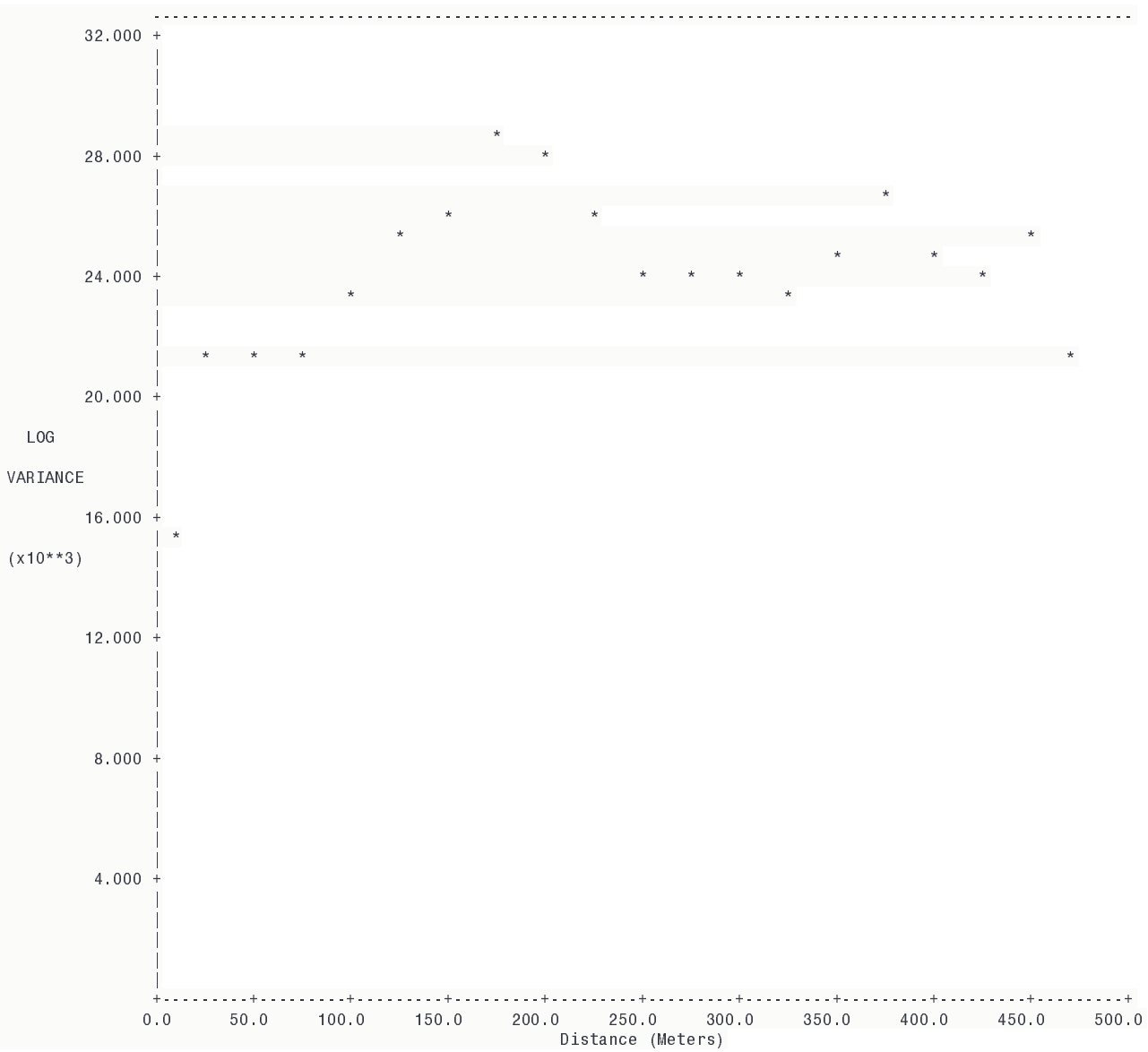
Direction: 0.00 Dip: 45.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Fe

Variogram Title: e 45 dip

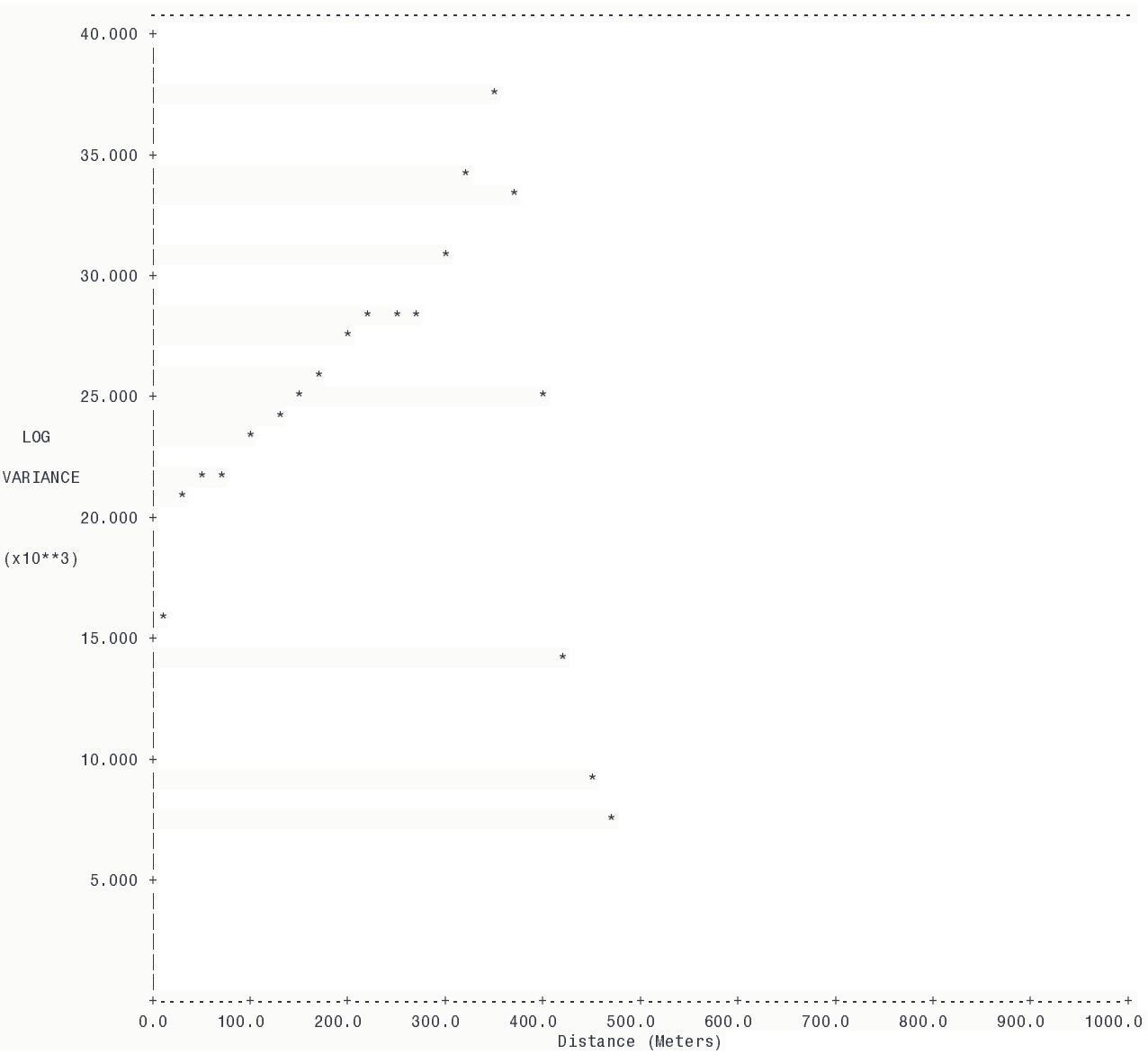
Direction: 90.00 Dip: 45.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



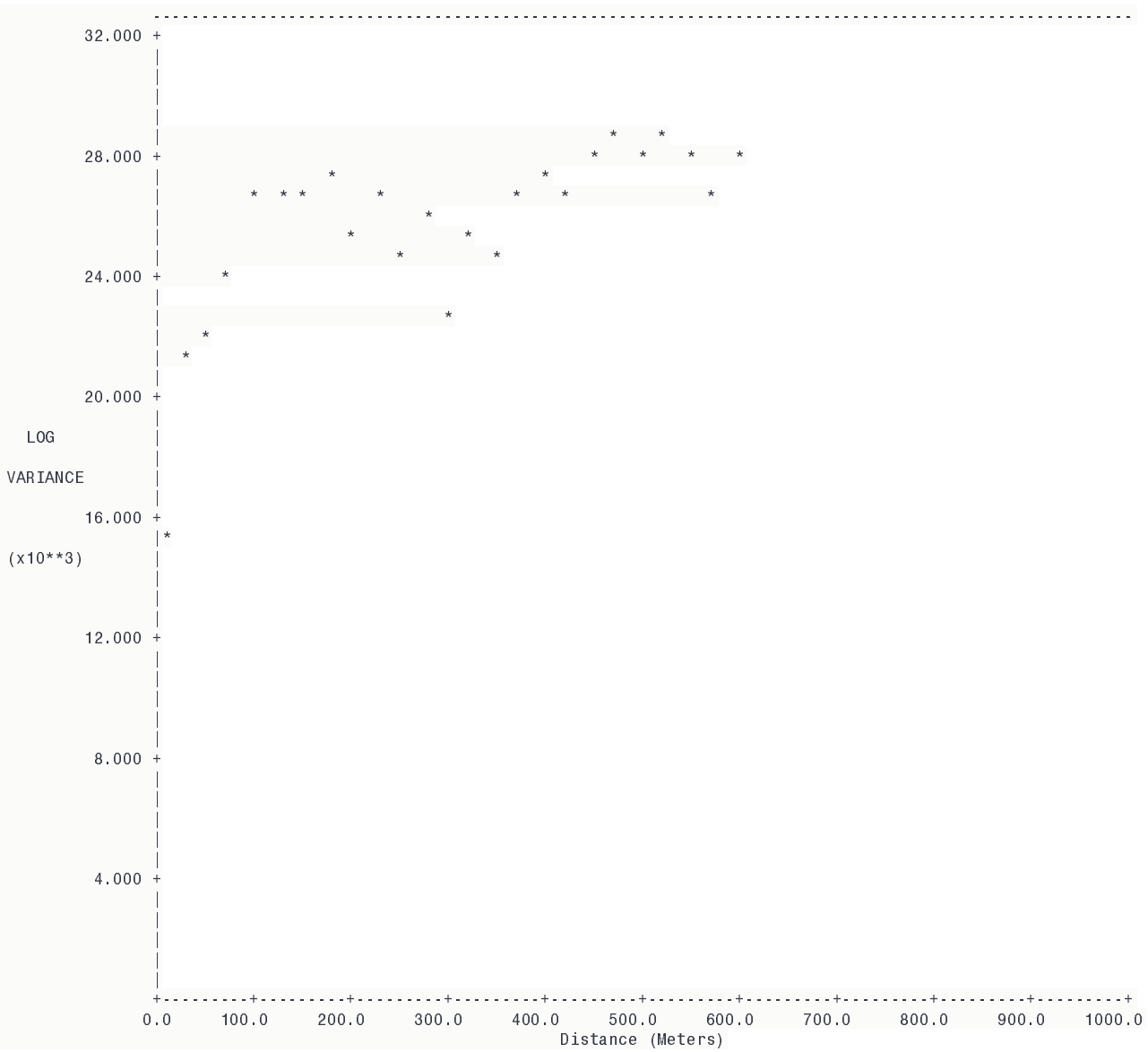
Title of Run: Print Variogram - Fe

Variogram Title: w 45 dip

Direction: 270.00 Dip: 45.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram - Fe
Variogram Title: s 45 dip
Direction: 180.00 Dip: 45.0 Rake: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 07-Feb-08 11:17 AM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Print Variogram

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2	Cu	2	c_Cu	2 <*>	k_Cu	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni	[% 12x12x6]
9	S	9 <*>	c_S	9	k_S	[% 12x12x6]
10	V	10	c_V	10	k_V	[% 12x12x6]
11 <*>	W	11	c_W	11	k_W	[% 12x12x6]
				12	k_temp	[ ]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

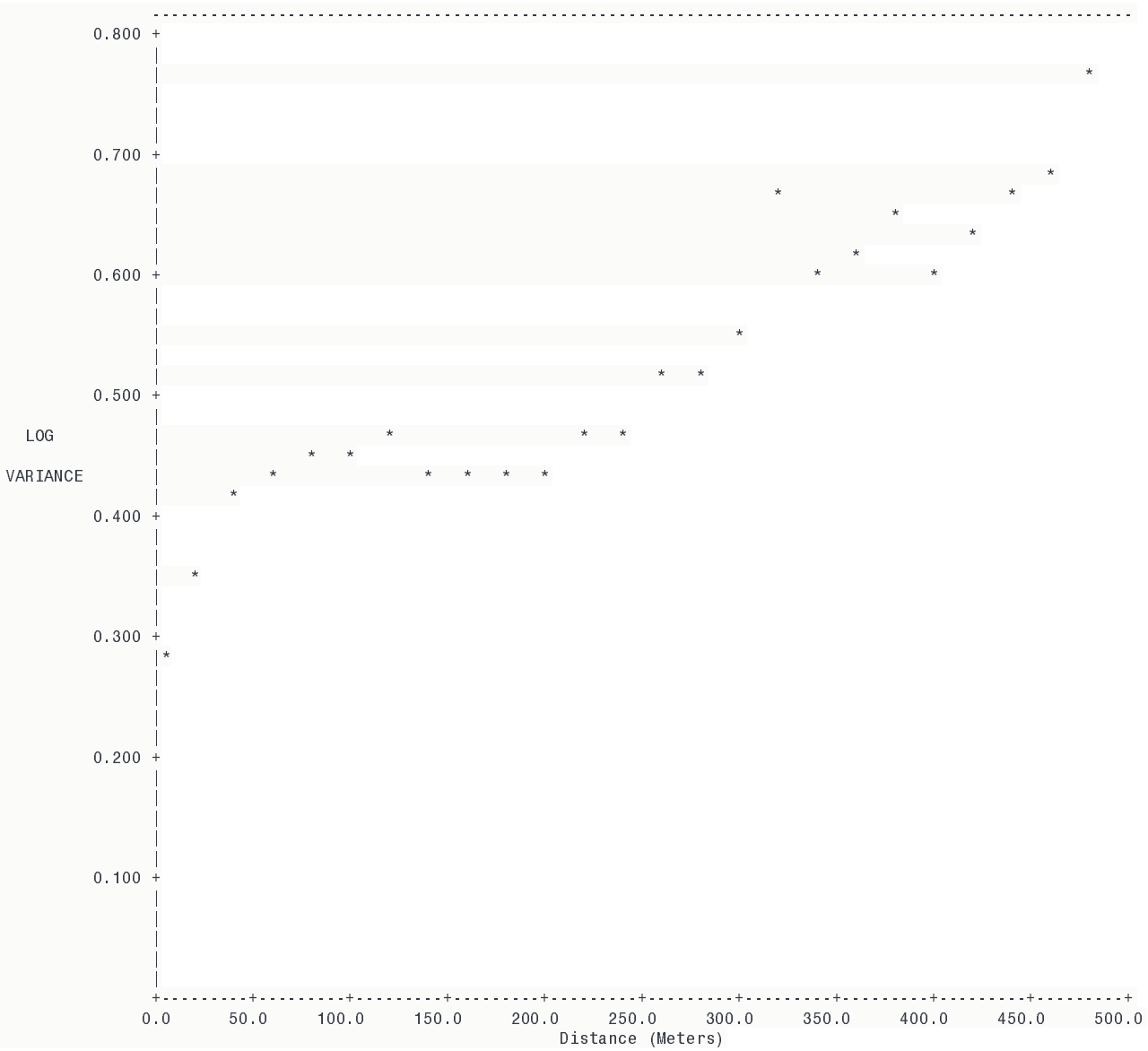
NUMBER OF ROWS : 149
NUMBER OF COLUMNS : 93
NUMBER OF LEVELS : 102

ROW DIMENSION : 12.00 METERS
COLUMN DIMENSION : 12.00 METERS
LEVEL DIMENSION : 6.00 METERS

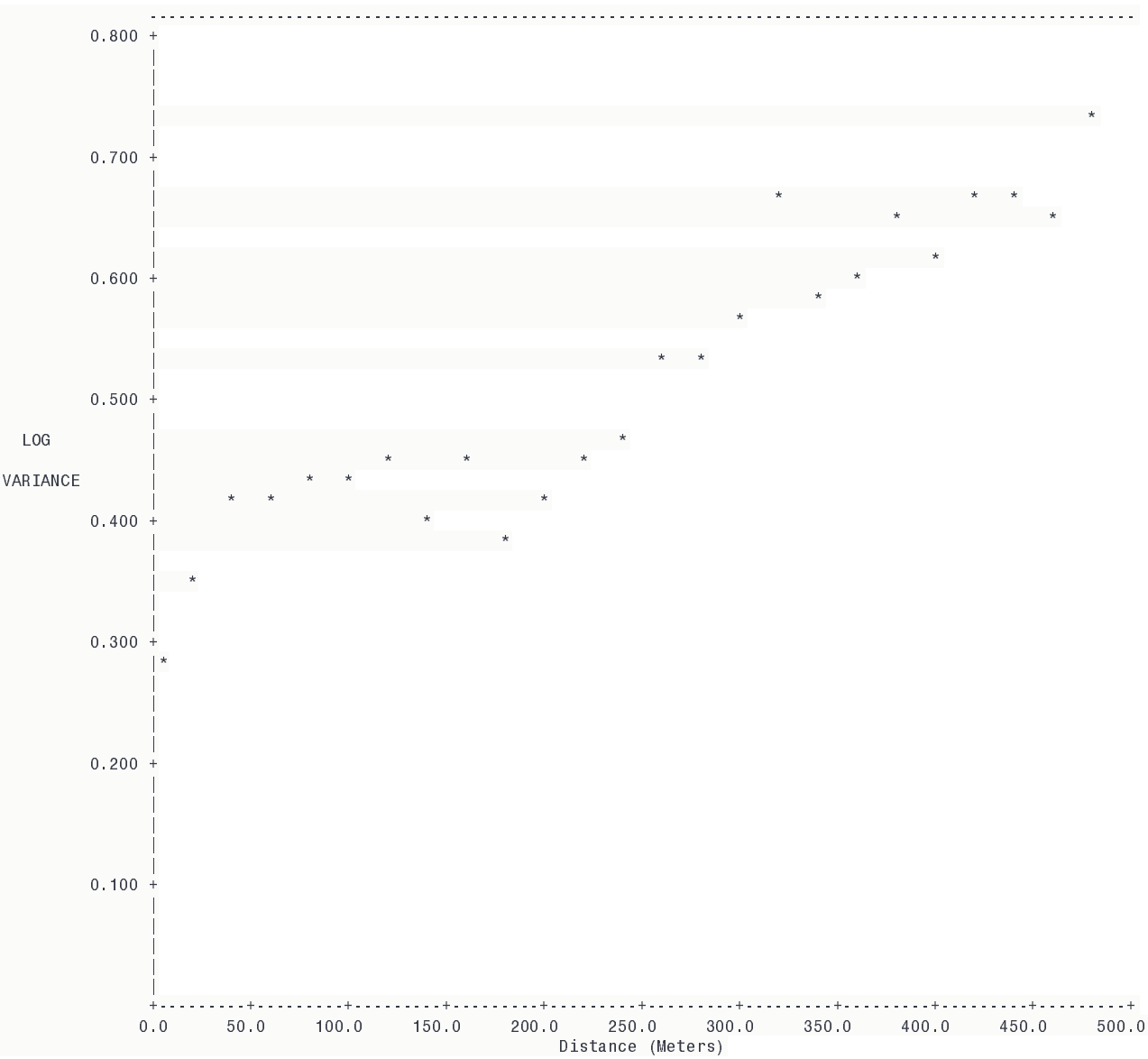
NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 25
NUMBER OF SAMPLE ASSAY VALUES : 9459

NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 25
NUMBER OF COMPOSITE ASSAY VALUES : 2459

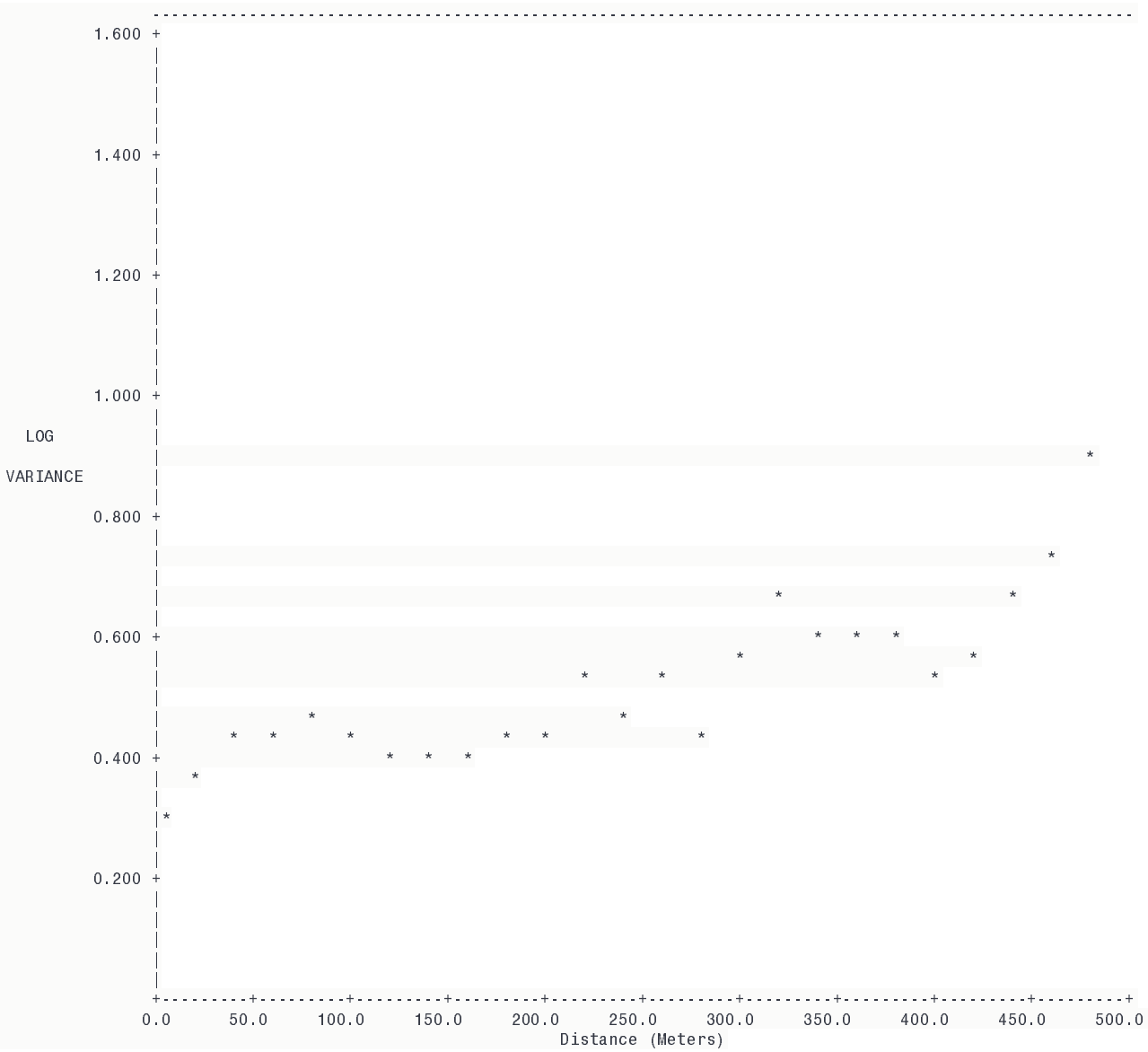
Title of Run: Print Variogram
Variogram Title: average
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 90.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



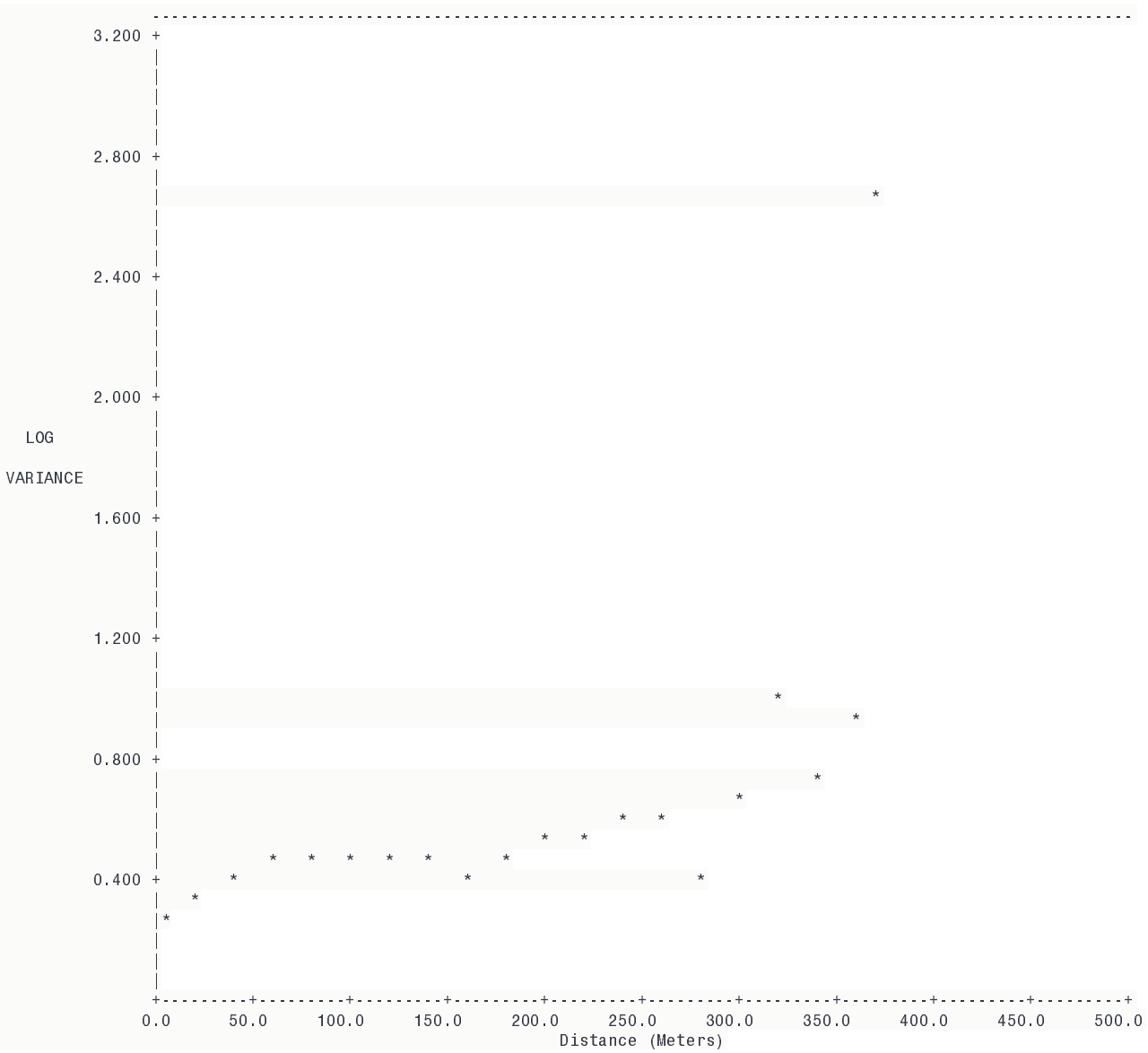
Title of Run: Print Variogram
Variogram Title: n
Direction: 0.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



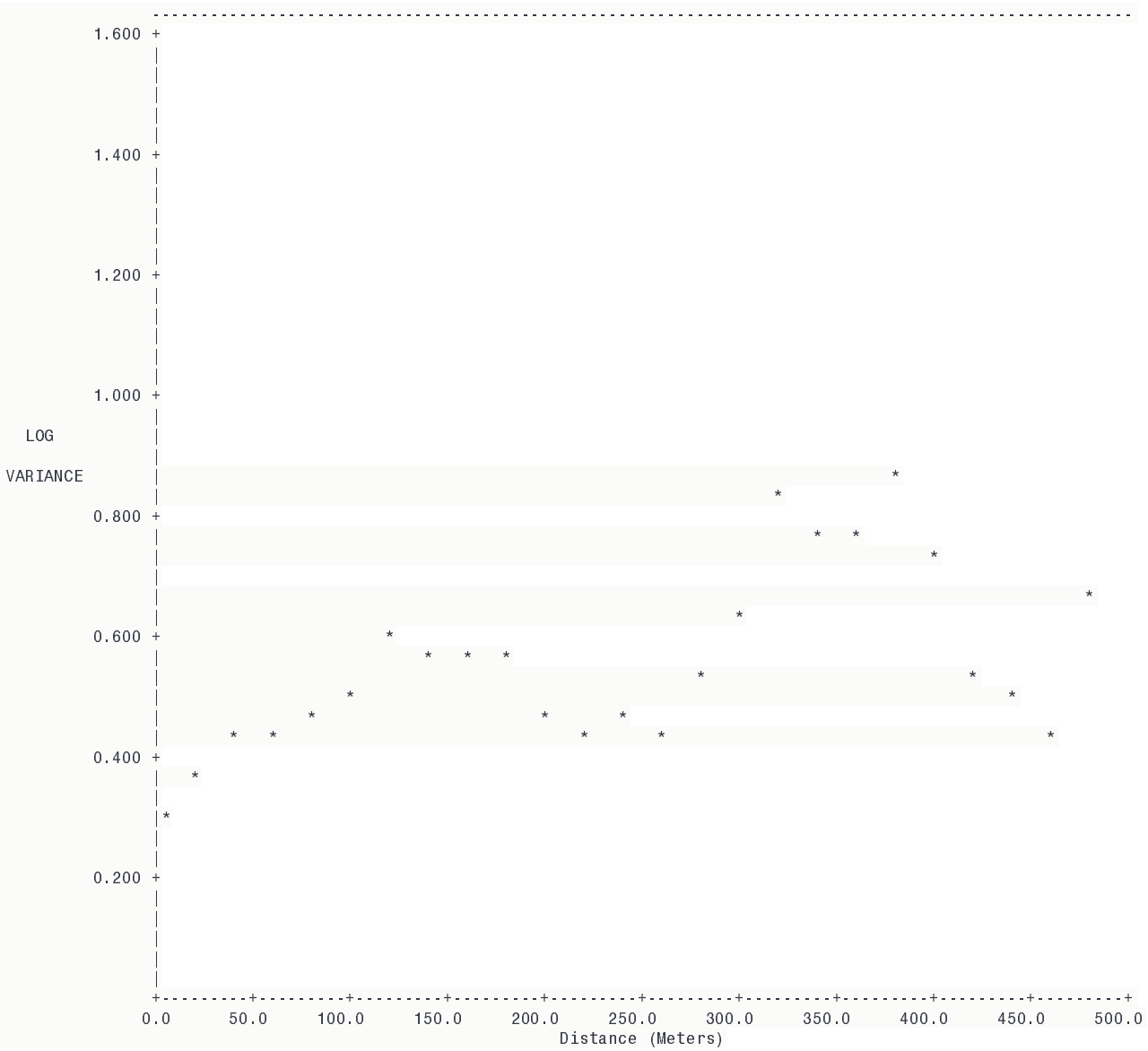
Title of Run: Print Variogram
Variogram Title: ne
Direction: 45.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



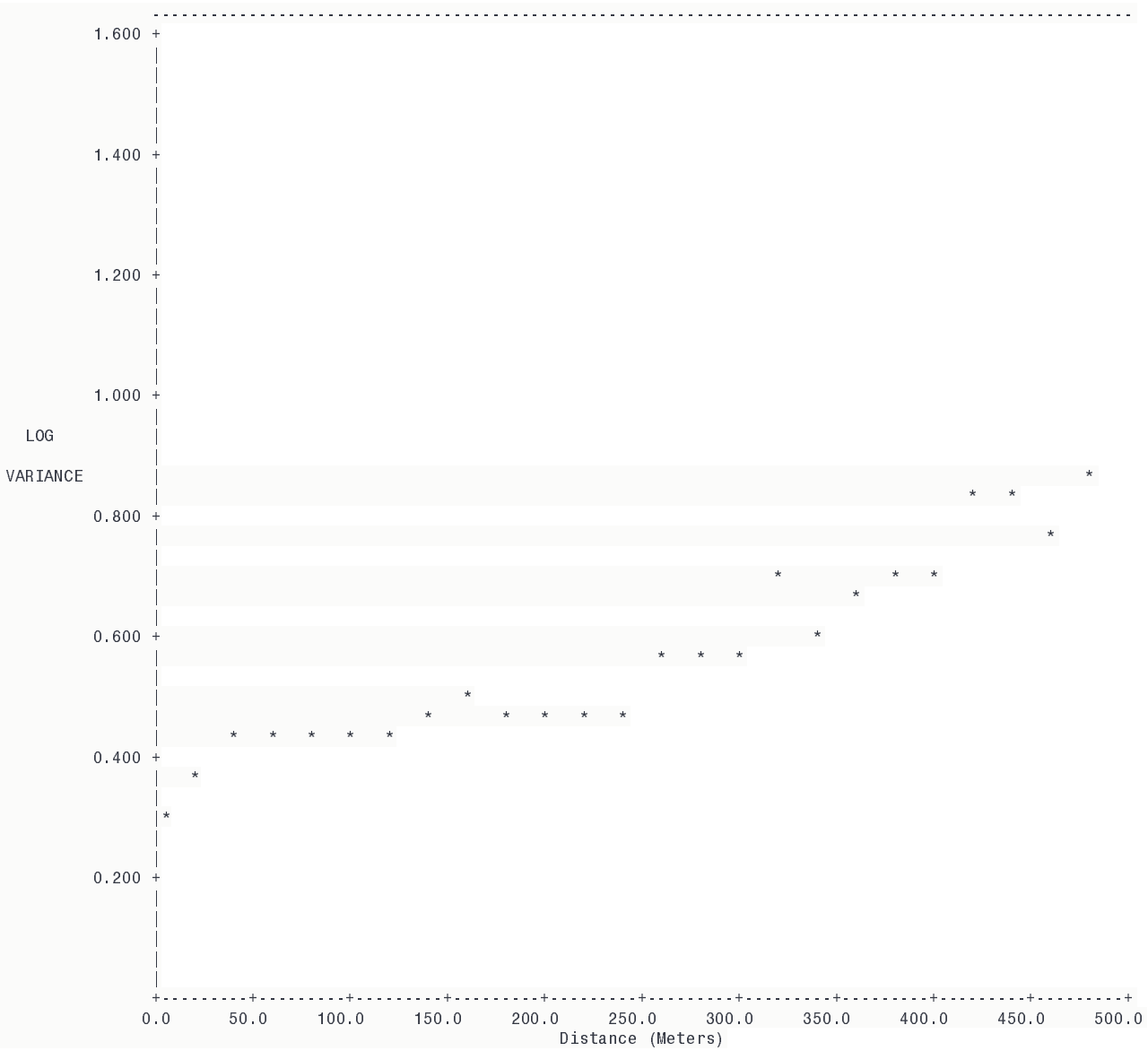
Title of Run: Print Variogram
Variogram Title: e
Direction: 90.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



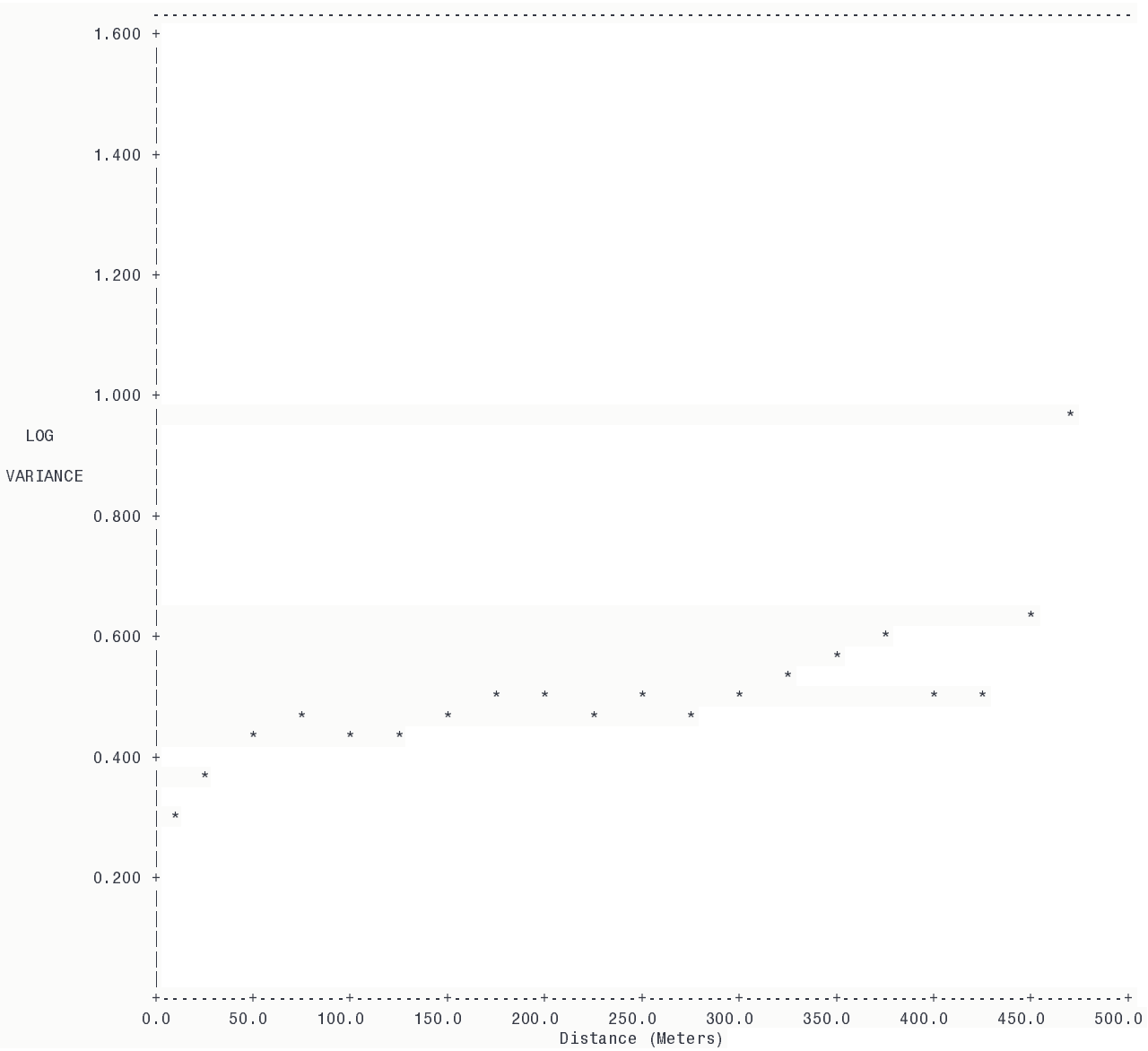
Title of Run: Print Variogram
Variogram Title: sw
Direction: 135.00 Dip: 0.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



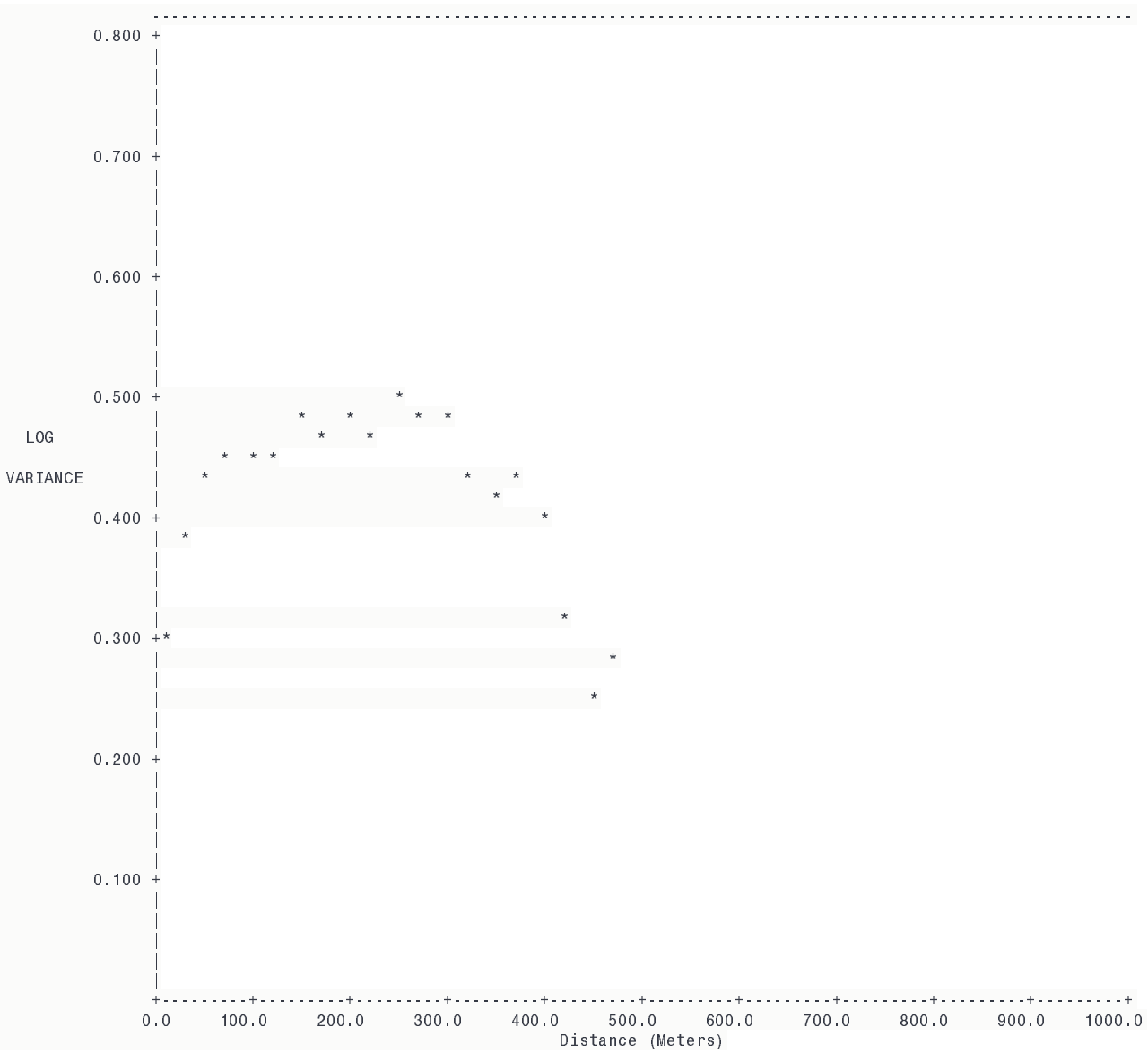
Title of Run: Print Variogram
Variogram Title: n 45 dip
Direction: 0.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



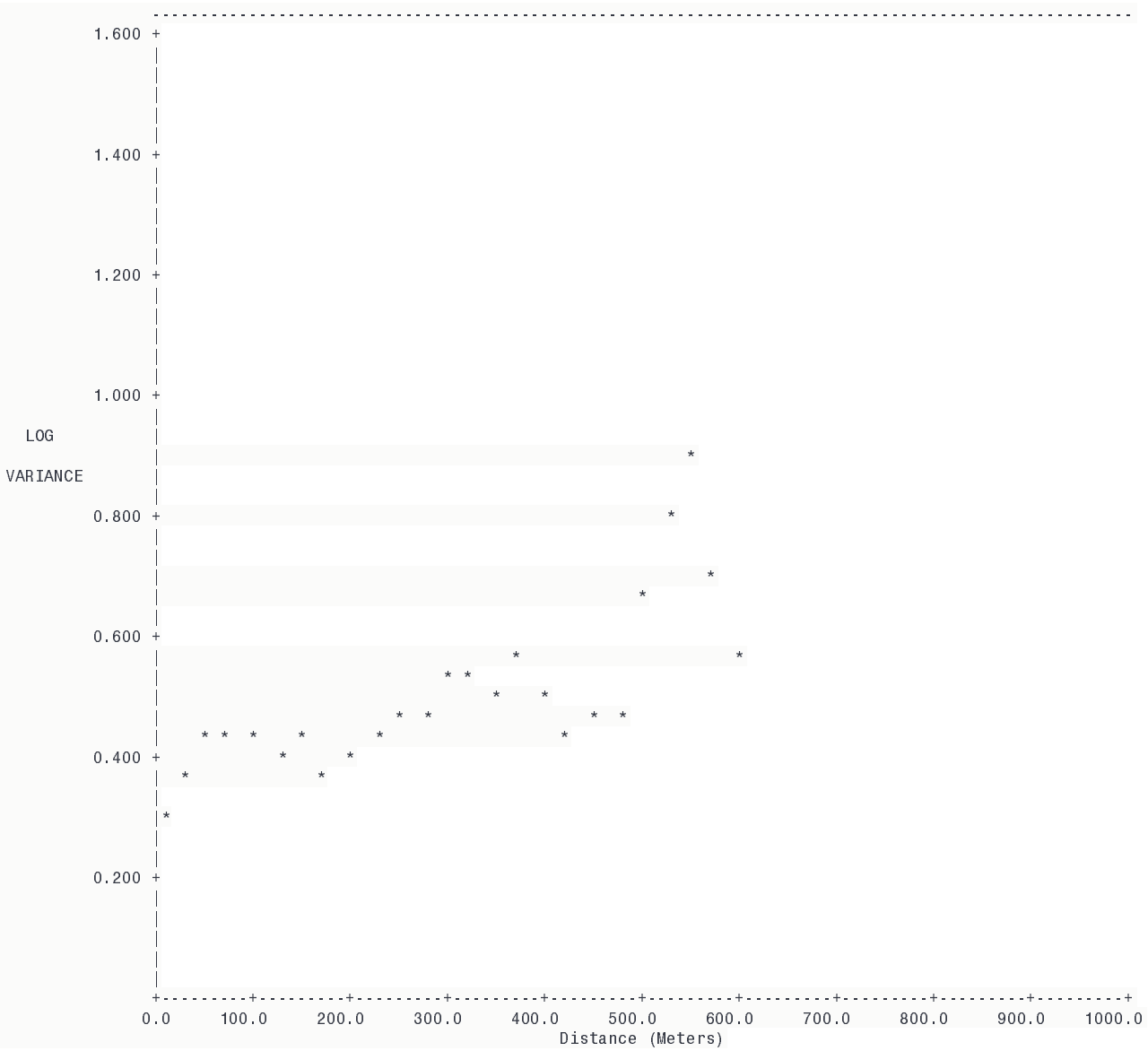
Title of Run: Print Variogram
Variogram Title: e 45 dip
Direction: 90.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: w 45 dip
Direction: 270.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



Title of Run: Print Variogram
Variogram Title: s 45 dip
Direction: 180.00 Dip: 45.0 Tilt: 0.0 Xwin: 15.0 Xband: 50.0 Zwin: 45.0 Zband: 50.0



25.3 Other Metal and Sulfur Kriged Statistics and Variograms

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:50 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS		COMPOSITE LABELS		GRADE		LABELS	
1	Au		1	c_Au	1	<*>	k_Au	[ppm 12x12x6]
2	Cu	<*>	2	c_Cu	2		k_Cu%	[% 12x12x6]
3	Pb		3	c_Pb	3		k_Pb%	[% 12x12x6]
4	Zn		4	c_Zn	4		k_Zn%	[% 12x12x6]
5	Ag		5	c_Ag	5		k_Ag	[ppm 12x12x6]
6	As		6	c_As	6		k_As%	[% 12x12x6]
7	Fe		7	c_Fe	7		k_Fe%	[% 12x12x6]
8	Ni		8	c_Ni	8		k_Ni%	[% 12x12x6]
9	S		9	<*> c_S	9		k_S%	[% 12x12x6]
10	V		10	c_V	10		k_V	[ppm12x12x6]
11	tmp2		11	c_tmp2	11		k_tmp2	[% 12x12x6]
					12		Flag	[All estimated k_Au blocks flagged as 1]
					13		k_temp	[ ]
					14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G101) Kriged Grade k_Au

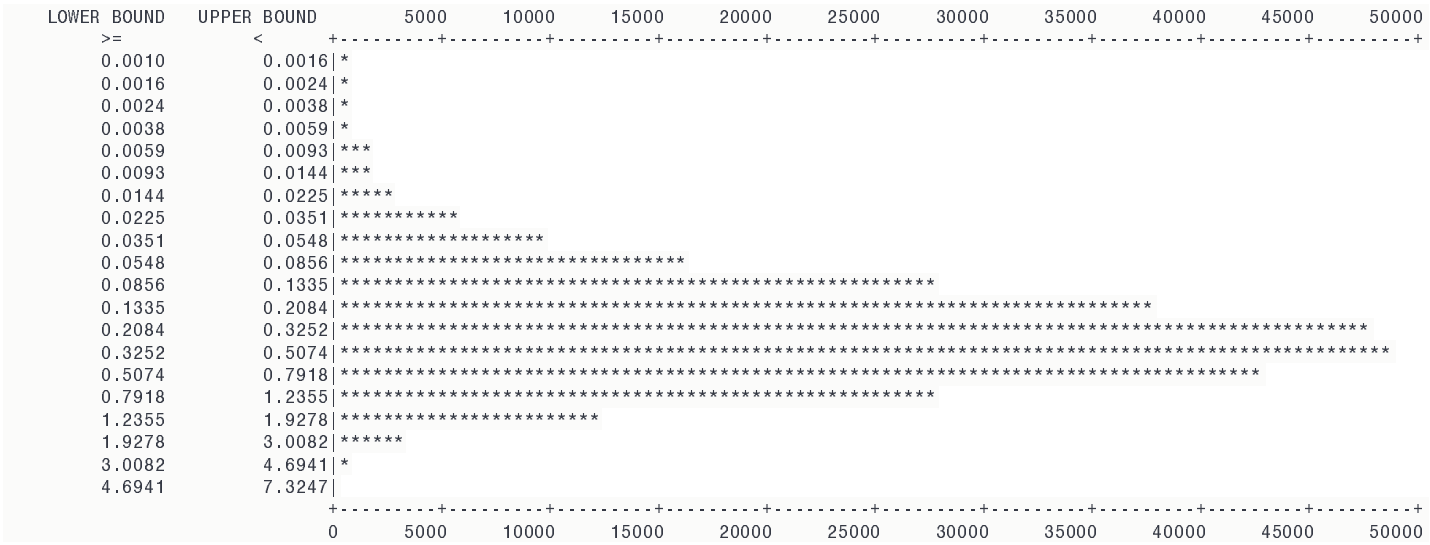
THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS						LOG-TRANSFORMED STATS			LOG-DERIVE	
ROCK TYPE	MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG MEAN	LOG VAR.	LOG STD.DEV	MEAN	CC OF
1	106226	0	0	4732	0.00100	0.87800	0.11690	0.00463	0.06808	0.5824	-2.3610	0.6117	0.7821	0.1281	0.
2	1499	0	0	83	0.00900	0.71900	0.12282	0.01579	0.12566	1.0231	-2.5395	1.0030	1.0015	0.1303	1.
3	6466	0	0	322	0.00800	0.86700	0.13797	0.02270	0.15068	1.0921	-2.4511	1.0516	1.0255	0.1458	1.
4	8	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
5	14236	0	0	778	0.00300	0.90100	0.13443	0.03106	0.17624	1.3111	-2.6609	1.3950	1.1811	0.1404	1.
6	205006	0	0	26514	0.00100	2.5920	0.27595	0.11865	0.34445	1.2483	-2.0396	1.9673	1.4026	0.3479	2.
7	10658	0	0	1944	0.00100	2.2490	0.24881	0.07300	0.27019	1.0859	-1.9239	1.3788	1.1742	0.2910	1.
8	37604	0	0	7068	0.00100	2.0050	0.23932	0.05505	0.23463	0.9804	-1.9868	1.6667	1.2910	0.3155	2.
9	41817	0	0	8001	0.00100	1.4500	0.24227	0.04944	0.22234	0.9178	-2.0754	2.1327	1.4604	0.3646	2.
10	68	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
11	32278	0	0	5804	0.00100	2.0810	0.28427	0.08174	0.28591	1.0058	-1.9360	1.9546	1.3981	0.3834	2.
13	12803	0	0	2265	0.00100	1.7140	0.31126	0.08465	0.29095	0.9347	-1.7158	1.4485	1.2035	0.3710	1.
14	105507	0	0	21033	0.00100	1.5800	0.30848	0.05432	0.23307	0.7555	-1.5037	0.7834	0.8851	0.3289	1.
15	26895	0	0	6307	0.01400	1.8630	0.29654	0.04288	0.20707	0.6983	-1.4987	0.6882	0.8296	0.3152	0.
16	938	0	0	218	0.02300	0.91300	0.23841	0.02770	0.16644	0.6981	-1.7413	0.7684	0.8766	0.2574	1.
17	28516	0	0	7292	0.01200	1.2730	0.26411	0.03675	0.19171	0.7258	-1.6269	0.7098	0.8425	0.2803	1.
18	183053	0	0	34835	0.00700	1.2510	0.22366	0.02046	0.14303	0.6395	-1.6946	0.4344	0.6591	0.2282	0.
100	42422	0	0	36215	0.00100	2.2150	0.35902	0.09665	0.31089	0.8659	-1.5166	1.4516	1.2048	0.4535	1.
300	105854	0	0	98	0.01600	0.78500	0.51135	0.02359	0.15358	0.3003	-0.7533	0.2676	0.5173	0.53824	0.
1000	11199	0	0	57499	0.00400	7.3240	0.76600	0.37840	0.61514	0.8031	-0.5843	0.7703	0.8777	0.81939	1.
2000	1865	0	0	43737	0.00100	5.3290	0.56770	0.19754	0.44445	0.7829	-0.8826	0.7947	0.8914	0.61554	1.
3000	9038	0	0	21772	0.00100	5.3270	0.47836	0.17211	0.41486	0.8672	-1.0343	0.6503	0.8064	0.4921	0.
ALL	983956	0	0	286517	0.00100	7.3240	0.43616	0.19703	0.44388	1.0177	-1.3259	1.2941	1.1376	0.5072	1.

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G101) Kriged Grade k_Au

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT	CUM MEAN
0.0010	0.0016	659	0.23	0.0010	659	0.23	0.0010	286517	100.00	0.4362
0.0016	0.0024	643	0.22	0.0020	1302	0.45	0.0015	285858	99.77	0.4372
0.0024	0.0038	598	0.21	0.0030	1900	0.66	0.0020	285215	99.55	0.4381
0.0038	0.0059	630	0.22	0.0045	2530	0.88	0.0026	284617	99.34	0.4391
0.0059	0.0093	1420	0.50	0.0075	3950	1.38	0.0043	283987	99.12	0.4400
0.0093	0.0144	1572	0.55	0.0121	5522	1.93	0.0066	282567	98.62	0.4422
0.0144	0.0225	2713	0.95	0.0189	8235	2.87	0.0106	280995	98.07	0.4446
0.0225	0.0351	5399	1.88	0.0290	13634	4.76	0.0179	278282	97.13	0.4487
0.0351	0.0548	9540	3.33	0.0455	23174	8.09	0.0293	272883	95.24	0.4571
0.0548	0.0856	16146	5.64	0.0709	39320	13.72	0.0464	263343	91.91	0.4720
0.0856	0.1335	27409	9.57	0.1091	66729	23.29	0.0721	247197	86.28	0.4982
0.1335	0.2084	37744	13.17	0.1702	104473	36.46	0.1075	219788	76.71	0.5467
0.2084	0.3252	47251	16.49	0.2639	151724	52.95	0.1562	182044	63.54	0.6247
0.3252	0.5074	48715	17.00	0.4092	200439	69.96	0.2177	134793	47.05	0.7512
0.5074	0.7918	42655	14.89	0.6312	243094	84.84	0.2903	86078	30.04	0.9448
0.7918	1.2355	27728	9.68	0.9745	270822	94.52	0.3603	43423	15.16	1.2529
1.2355	1.9278	12013	4.19	1.4926	282835	98.71	0.4084	15695	5.48	1.7448
1.9278	3.0082	3009	1.05	2.2736	285844	99.77	0.4280	3682	1.29	2.5674
3.0082	4.6941	558	0.19	3.4997	286402	99.96	0.4340	673	0.23	3.8809
4.6941	7.3247	115	0.04	5.7309	286517	100.00	0.4362	115	0.04	5.7307

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G101) Kriged Grade k_Au



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:51 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS		COMPOSITE LABELS		GRADE	LABELS	
1	Au		1	c_Au	1	k_Au	[ppm 12x12x6]
2	Cu	<*>	2	c_Cu	2	k_Cu%	[% 12x12x6]
3	Pb		3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn		4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag		5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As		6	c_As	6	k_As%	[% 12x12x6]
7	Fe		7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni		8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S		9	c_S	9	k_S%	[% 12x12x6]
10	V		10	c_V	10	k_V	[ppm12x12x6]
11	tmp2		11	c_tmp2	11	k_tmp2	[% 12x12x6]
					12	Flag	[All estimated k_Au blocks flagged as 1]
					13	k_temp	[ ]
					14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G102) Kriged Grade k_Cu%

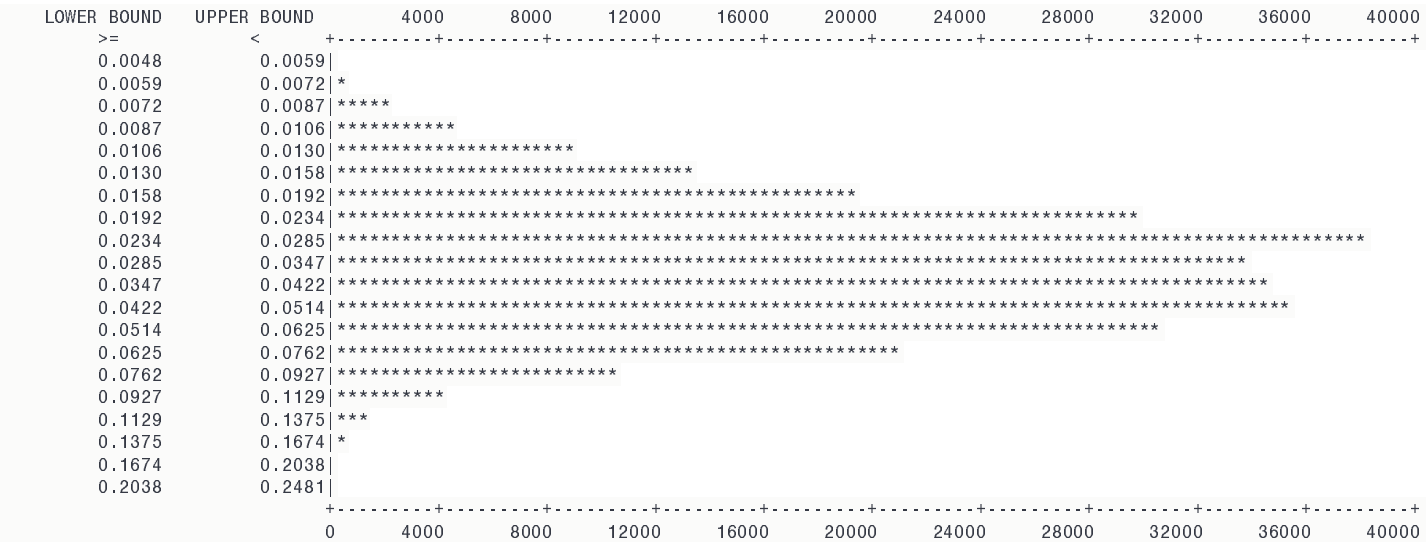
THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS						LOG-TRANSFORMED STATS			LOG-DERIVE	
ROCK TYPE	MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG MEAN	LOG VAR.	LOG STD.DEV	MEAN	CC OF
1	106226	0	0	4732	0.00582	0.06255	0.01701	0.000062	0.00788	0.4631	-4.1575	0.1525	0.3905	0.0169	0.
2	1499	0	0	83	0.00806	0.05063	0.01756	0.000077	0.00875	0.4985	-4.1320	0.1572	0.3964	0.0174	0.
3	6466	0	0	322	0.00879	0.06947	0.01867	0.000095	0.00976	0.5230	-4.0753	0.1642	0.4052	0.0184	0.
4	8	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
5	14236	0	0	778	0.00889	0.07172	0.01855	0.000071	0.00846	0.4558	-4.0645	0.1392	0.3731	0.0184	0.
6	205006	0	0	26514	0.00484	0.12576	0.02402	0.000211	0.01451	0.6041	-3.8840	0.3020	0.5495	0.0239	0.
7	10658	0	0	1944	0.00555	0.11435	0.02742	0.000269	0.01640	0.5980	-3.7633	0.3393	0.5825	0.0275	0.
8	37604	0	0	7068	0.00532	0.11590	0.02912	0.000234	0.01529	0.5250	-3.6667	0.2654	0.5152	0.0292	0.
9	41817	0	0	8001	0.00782	0.13055	0.03309	0.000223	0.01494	0.4513	-3.5053	0.1957	0.4423	0.0331	0.
10	68	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
11	32278	0	0	5804	0.00977	0.09679	0.03681	0.000215	0.01466	0.3984	-3.3857	0.1780	0.4219	0.0370	0.
13	12803	0	0	2265	0.00977	0.10873	0.03941	0.000254	0.01593	0.4041	-3.3217	0.1905	0.4365	0.0397	0.
14	105507	0	0	21033	0.00977	0.11883	0.04029	0.000239	0.01545	0.3834	-3.2840	0.1478	0.3845	0.0404	0.
15	26895	0	0	6307	0.01534	0.10741	0.03748	0.000172	0.01310	0.3494	-3.3388	0.1059	0.3255	0.0374	0.
16	938	0	0	218	0.01728	0.07499	0.03183	0.000116	0.01079	0.3389	-3.4947	0.0877	0.2962	0.0317	0.
17	28516	0	0	7292	0.01476	0.09470	0.03656	0.000148	0.01215	0.3323	-3.3607	0.1023	0.3198	0.0365	0.
18	183053	0	0	34835	0.00555	0.09431	0.03103	0.000122	0.01106	0.3563	-3.5298	0.1109	0.3331	0.0310	0.
100	42422	0	0	36215	0.00506	0.12665	0.03590	0.000291	0.01706	0.4751	-3.4448	0.2530	0.5030	0.0362	0.
300	105854	0	0	98	0.02244	0.10118	0.05704	0.000189	0.01375	0.2410	-2.8918	0.0561	0.2368	0.0571	0.
1000	11199	0	0	57499	0.00657	0.20838	0.04552	0.000566	0.02379	0.5226	-3.2330	0.3067	0.5538	0.0460	0.
2000	1865	0	0	43737	0.00502	0.15124	0.04945	0.000595	0.02439	0.4933	-3.1705	0.3975	0.6305	0.0512	0.
3000	9038	0	0	21772	0.00850	0.24806	0.03838	0.000669	0.02586	0.6739	-3.4351	0.3246	0.5698	0.0379	0.
ALL	983956	0	0	286517	0.00484	0.24806	0.03813	0.000442	0.02102	0.5512	-3.4156	0.3122	0.5587	0.0384	0.

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G102) Kriged Grade k_Cu%

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT	CUM MEAN
0.0048	0.0059	68	0.02	0.0056	68	0.02	0.0056	286517	100.00	0.0381
0.0059	0.0072	589	0.21	0.0067	657	0.23	0.0066	286449	99.98	0.0381
0.0072	0.0087	2172	0.76	0.0081	2829	0.99	0.0077	285860	99.77	0.0382
0.0087	0.0106	4587	1.60	0.0098	7416	2.59	0.0090	283688	99.01	0.0384
0.0106	0.0130	8916	3.11	0.0118	16332	5.70	0.0105	279101	97.41	0.0389
0.0130	0.0158	13237	4.62	0.0144	29569	10.32	0.0123	270185	94.30	0.0398
0.0158	0.0192	19228	6.71	0.0176	48797	17.03	0.0143	256948	89.68	0.0411
0.0192	0.0234	29649	10.35	0.0213	78446	27.38	0.0170	237720	82.97	0.0430
0.0234	0.0285	37852	13.21	0.0259	116298	40.59	0.0199	208071	72.62	0.0461
0.0285	0.0347	33498	11.69	0.0314	149796	52.28	0.0225	170219	59.41	0.0506
0.0347	0.0422	34397	12.01	0.0383	184193	64.29	0.0254	136721	47.72	0.0553
0.0422	0.0514	35323	12.33	0.0466	219516	76.62	0.0288	102324	35.71	0.0610
0.0514	0.0625	30294	10.57	0.0565	249810	87.19	0.0322	67001	23.38	0.0686
0.0625	0.0762	20778	7.25	0.0685	270588	94.44	0.0350	36707	12.81	0.0785
0.0762	0.0927	10599	3.70	0.0830	281187	98.14	0.0368	15929	5.56	0.0916
0.0927	0.1129	3879	1.35	0.1004	285066	99.49	0.0377	5330	1.86	0.1086
0.1129	0.1375	1076	0.38	0.1221	286142	99.87	0.0380	1451	0.51	0.1306
0.1375	0.1674	301	0.11	0.1489	286443	99.97	0.0381	375	0.13	0.1552
0.1674	0.2038	68	0.02	0.1777	286511	100.00	0.0381	74	0.03	0.1809
0.2038	0.2481	6	0.00	0.2167	286517	100.00	0.0381	6	0.00	0.2165

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G102) Kriged Grade k_Cu%



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:55 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1		Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2	<*>	Cu	2		c_Cu	2		k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3	<*>	k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9	<*>	c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS	: 149		ROW DIMENSION	: 12.00	METERS
NUMBER OF COLUMNS	: 93		COLUMN DIMENSION	: 12.00	METERS
NUMBER OF LEVELS	: 102		LEVEL DIMENSION	: 6.00	METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED	: 755	NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED	: 755
NUMBER OF SAMPLE ASSAY VALUES	: 100685	NUMBER OF COMPOSITE ASSAY VALUES	: 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G103) Kriged Grade k_Pb%

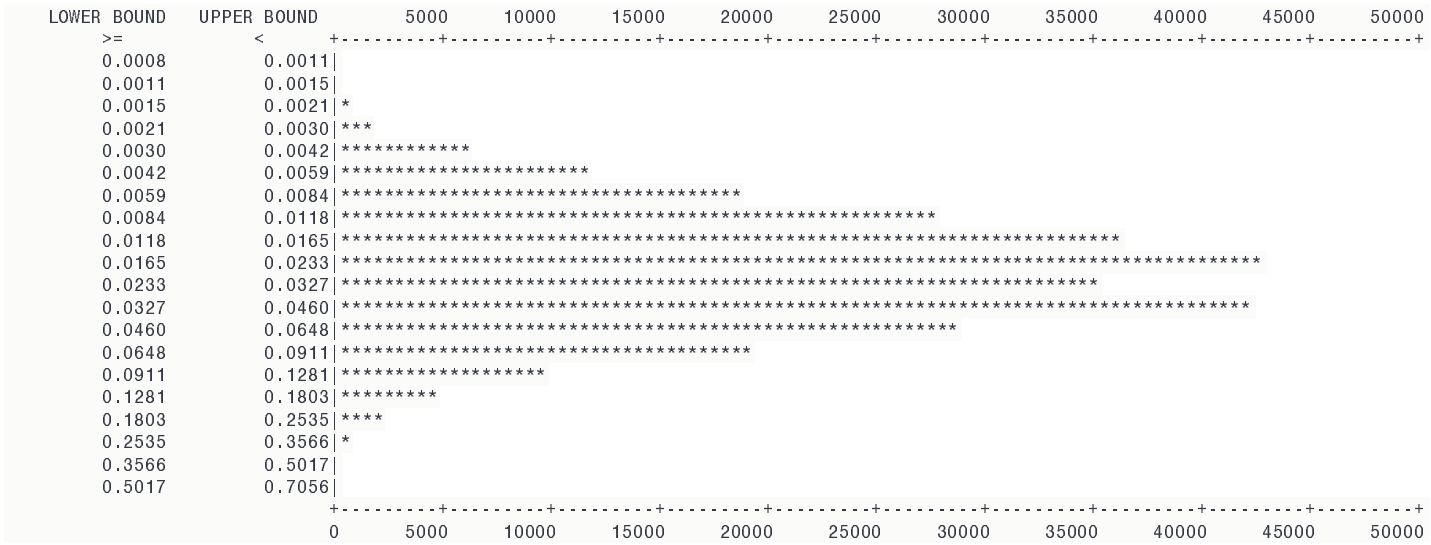
THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS						LOG-TRANSFORMED STATS			LOG-DERIVE	
ROCK TYPE	MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG MEAN	LOG VAR.	LOG STD.DEV	MEAN	CC OF
1	106226	0	0	4732	0.00267	0.12697	0.01096	0.000051	0.00711	0.6488	-4.7106	0.4160	0.6450	0.0111	0.
2	1499	0	0	83	0.00306	0.11944	0.01155	0.000233	0.01528	1.3229	-4.8073	0.5408	0.7354	0.0107	0.
3	6466	0	0	322	0.00302	0.11654	0.01260	0.000269	0.01641	1.3021	-4.7260	0.5333	0.7303	0.0116	0.
4	8	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
5	14236	0	0	778	0.00267	0.12260	0.01492	0.000420	0.02050	1.3736	-4.6506	0.6585	0.8115	0.0133	0.
6	205006	0	0	26514	0.00159	0.44123	0.03199	0.00160	0.04000	1.2507	-3.9466	0.9468	0.9731	0.0310	1.
7	10658	0	0	1944	0.00201	0.34105	0.03777	0.00169	0.04109	1.0879	-3.6905	0.8359	0.9143	0.0379	1.
8	37604	0	0	7068	0.00120	0.33855	0.03673	0.00170	0.04119	1.1213	-3.7503	0.9261	0.9624	0.0374	1.
9	41817	0	0	8001	0.000851	0.25230	0.03505	0.000890	0.02984	0.8514	-3.7111	0.8843	0.9404	0.0380	1.
10	68	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
11	32278	0	0	5804	0.000767	0.21956	0.03335	0.000644	0.02538	0.7612	-3.7483	0.8892	0.9429	0.0367	1.
13	12803	0	0	2265	0.000865	0.19576	0.03148	0.000669	0.02586	0.8216	-3.7935	0.7737	0.8796	0.0332	1.
14	105507	0	0	21033	0.000803	0.39124	0.03245	0.000843	0.02904	0.8950	-3.7162	0.5802	0.7617	0.0325	0.
15	26895	0	0	6307	0.00230	0.27078	0.03449	0.000788	0.02807	0.8138	-3.5968	0.4396	0.6630	0.0341	0.
16	938	0	0	218	0.00941	0.17386	0.03510	0.000836	0.02891	0.8237	-3.5938	0.4381	0.6619	0.0342	0.
17	28516	0	0	7292	0.00330	0.23852	0.03732	0.000786	0.02804	0.7512	-3.5106	0.4363	0.6605	0.0372	0.
18	183053	0	0	34835	0.00428	0.24406	0.03447	0.000560	0.02367	0.6866	-3.5512	0.3556	0.5963	0.0343	0.
100	42422	0	0	36215	0.00150	0.41577	0.04260	0.00214	0.04625	1.0857	-3.6183	0.9520	0.9757	0.0432	1.
300	105854	0	0	98	0.00708	0.08850	0.03697	0.000494	0.02222	0.6010	-3.5290	0.5303	0.7282	0.0382	0.
1000	11199	0	0	57499	0.00142	0.70558	0.03484	0.00173	0.04155	1.1925	-3.7958	0.8212	0.9062	0.0339	1.
2000	1865	0	0	43737	0.000810	0.23640	0.02949	0.000785	0.02802	0.9500	-3.9679	0.9650	0.9823	0.0306	1.
3000	9038	0	0	21772	0.00292	0.36280	0.03747	0.00109	0.03296	0.8795	-3.5941	0.6186	0.7865	0.0375	0.
ALL	983956	0	0	286517	0.000767	0.70558	0.03431	0.00126	0.03549	1.0342	-3.7646	0.7996	0.8942	0.0346	1.

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G103) Kriged Grade k_Pb%

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT	CUM MEAN
0.0008	0.0011	84	0.03	0.0010	84	0.03	0.0010	286517	100.00	0.0343
0.0011	0.0015	222	0.08	0.0013	306	0.11	0.0012	286433	99.97	0.0343
0.0015	0.0021	674	0.24	0.0018	980	0.34	0.0016	286211	99.89	0.0343
0.0021	0.0030	1258	0.44	0.0026	2238	0.78	0.0022	285537	99.66	0.0344
0.0030	0.0042	5810	2.03	0.0037	8048	2.81	0.0033	284279	99.22	0.0346
0.0042	0.0059	11630	4.06	0.0051	19678	6.87	0.0044	278469	97.19	0.0352
0.0059	0.0084	18496	6.46	0.0072	38174	13.32	0.0057	266839	93.13	0.0365
0.0084	0.0118	27499	9.60	0.0101	65673	22.92	0.0075	248343	86.68	0.0387
0.0118	0.0165	36104	12.60	0.0141	101777	35.52	0.0099	220844	77.08	0.0423
0.0165	0.0233	42724	14.91	0.0196	144501	50.43	0.0127	184740	64.48	0.0478
0.0233	0.0327	35165	12.27	0.0277	179666	62.71	0.0157	142016	49.57	0.0563
0.0327	0.0460	42245	14.74	0.0390	221911	77.45	0.0201	106851	37.29	0.0656
0.0460	0.0648	28611	9.99	0.0541	250522	87.44	0.0240	64606	22.55	0.0831
0.0648	0.0911	19042	6.65	0.0761	269564	94.08	0.0277	35995	12.56	0.1062
0.0911	0.1281	9644	3.37	0.1064	279208	97.45	0.0304	16953	5.92	0.1399
0.1281	0.1803	4395	1.53	0.1488	283603	98.98	0.0322	7309	2.55	0.1841
0.1803	0.2535	2140	0.75	0.2111	285743	99.73	0.0336	2914	1.02	0.2372
0.2535	0.3566	662	0.23	0.2882	286405	99.96	0.0342	774	0.27	0.3093
0.3566	0.5017	93	0.03	0.3966	286498	99.99	0.0343	112	0.04	0.4339
0.5017	0.7056	19	0.01	0.6163	286517	100.00	0.0343	19	0.01	0.6163

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G103) Kriged Grade k_Pb%



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:57 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1		Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2	<*>	Cu	2		c_Cu	2		k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4	<*>	k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9	<*>	c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755
NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G104) Kriged Grade k_Zn%

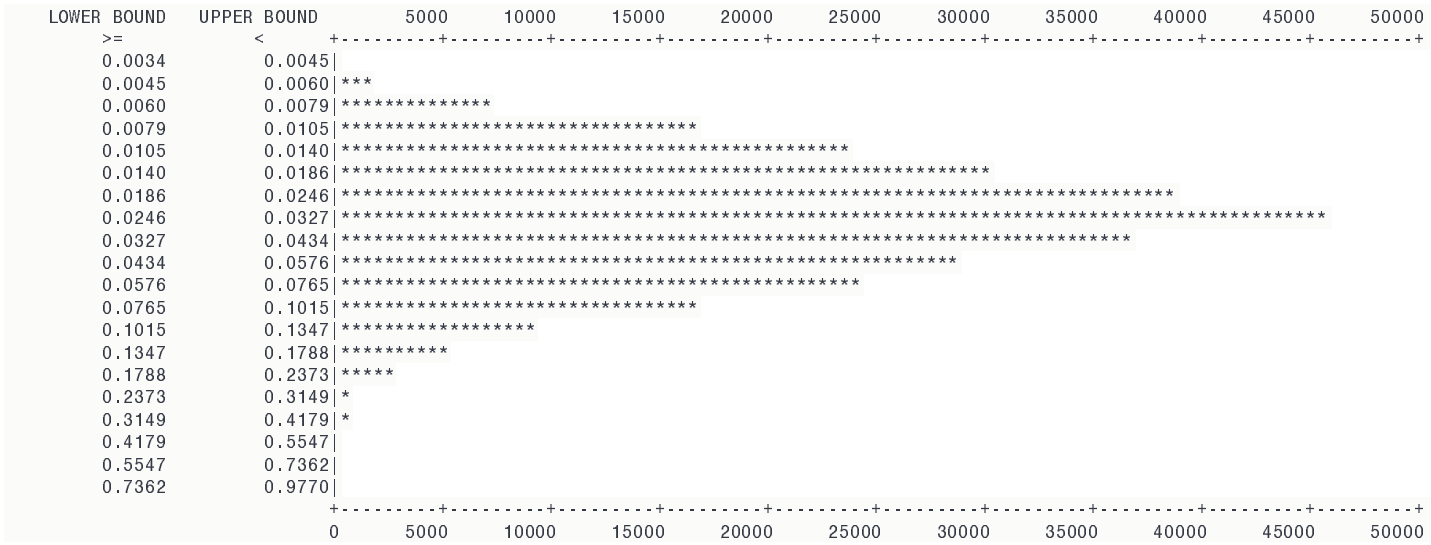
THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS						LOG-TRANSFORMED STATS			LOG-DERIVE	
ROCK TYPE	MISSING	BELOW LIMITS	ABOVE LIMITS	INSIDE LIMITS	MINIMUM	MAXIMUM	MEAN	VARIANCE	STD. DEV.	COEF. OF VAR	LOG MEAN	LOG VAR.	LOG STD.DEV	MEAN	CC OF
1	106226	0	0	4732	0.00435	0.09561	0.01205	0.000039	0.00624	0.5177	-4.5177	0.1765	0.4201	0.0119	0.
2	1499	0	0	83	0.00575	0.06693	0.01107	0.000063	0.00793	0.7157	-4.6057	0.1406	0.3750	0.0107	0.
3	6466	0	0	322	0.00542	0.09893	0.01204	0.000066	0.00811	0.6737	-4.5273	0.1662	0.4077	0.0117	0.
4	8	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
5	14236	0	0	778	0.00528	0.07995	0.01473	0.000135	0.01160	0.7878	-4.3897	0.2675	0.5172	0.0142	0.
6	205006	0	0	26514	0.00499	0.54991	0.03968	0.00257	0.05068	1.2772	-3.6612	0.7237	0.8507	0.0369	1.
7	10658	0	0	1944	0.00482	0.24992	0.04605	0.00203	0.04509	0.9793	-3.4115	0.6055	0.7782	0.0447	0.
8	37604	0	0	7068	0.00434	0.27994	0.04276	0.00161	0.04017	0.9394	-3.4505	0.5453	0.7384	0.0417	0.
9	41817	0	0	8001	0.00481	0.26843	0.03617	0.000841	0.02901	0.8019	-3.5504	0.4371	0.6611	0.0357	0.
10	68	0	0	0	0.	0.	0.	0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.
11	32278	0	0	5804	0.00479	0.27228	0.03535	0.000583	0.02414	0.6828	-3.5412	0.4038	0.6355	0.0355	0.
13	12803	0	0	2265	0.00506	0.16903	0.03564	0.000525	0.02292	0.6431	-3.5193	0.3709	0.6090	0.0357	0.
14	105507	0	0	21033	0.00481	0.29244	0.04090	0.000670	0.02588	0.6328	-3.3569	0.3101	0.5569	0.0407	0.
15	26895	0	0	6307	0.00525	0.19154	0.04522	0.000651	0.02552	0.5644	-3.2282	0.2560	0.5060	0.0450	0.
16	938	0	0	218	0.01407	0.19507	0.04323	0.000695	0.02637	0.6099	-3.2667	0.2150	0.4637	0.0425	0.
17	28516	0	0	7292	0.00551	0.19570	0.04625	0.000661	0.02572	0.5561	-3.2104	0.2702	0.5199	0.0462	0.
18	183053	0	0	34835	0.00376	0.29792	0.03176	0.000557	0.02360	0.7431	-3.6581	0.3848	0.6203	0.0313	0.
100	42422	0	0	36215	0.00417	0.45524	0.05158	0.00236	0.04858	0.9419	-3.3010	0.6487	0.8054	0.0510	0.
300	105854	0	0	98	0.01034	0.05617	0.02829	0.000119	0.01092	0.3861	-3.6479	0.1799	0.4241	0.0285	0.
1000	11199	0	0	57499	0.00372	0.97693	0.04203	0.00234	0.04834	1.1502	-3.4972	0.5839	0.7641	0.0405	0.
2000	1865	0	0	43737	0.00340	0.29990	0.03413	0.000910	0.03017	0.8840	-3.7018	0.6381	0.7988	0.0340	0.
3000	9038	0	0	21772	0.00572	0.36540	0.05932	0.00157	0.03957	0.6672	-3.0373	0.4453	0.6673	0.0599	0.
ALL	983956	0	0	286517	0.00340	0.97693	0.04105	0.00158	0.03979	0.9692	-3.5015	0.5832	0.7636	0.0404	0.

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G104) Kriged Grade k_Zn%

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT	CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT	CUM MEAN
0.0034	0.0045	66	0.02	0.0041	66	0.02	0.0041	286517	100.00	0.0411
0.0045	0.0060	1368	0.48	0.0055	1434	0.50	0.0054	286451	99.98	0.0411
0.0060	0.0079	6904	2.41	0.0071	8338	2.91	0.0069	285083	99.50	0.0412
0.0079	0.0105	16371	5.71	0.0093	24709	8.62	0.0085	278179	97.09	0.0421
0.0105	0.0140	23552	8.22	0.0123	48261	16.84	0.0103	261808	91.38	0.0441
0.0140	0.0186	29826	10.41	0.0161	78087	27.25	0.0125	238256	83.16	0.0473
0.0186	0.0246	38631	13.48	0.0218	116718	40.74	0.0156	208430	72.75	0.0517
0.0246	0.0327	45698	15.95	0.0286	162416	56.69	0.0192	169799	59.26	0.0585
0.0327	0.0434	36660	12.80	0.0376	199076	69.48	0.0226	124101	43.31	0.0696
0.0434	0.0576	28655	10.00	0.0498	227731	79.48	0.0260	87441	30.52	0.0830
0.0576	0.0765	24144	8.43	0.0662	251875	87.91	0.0299	58786	20.52	0.0992
0.0765	0.1015	16507	5.76	0.0873	268382	93.67	0.0334	34642	12.09	0.1222
0.1015	0.1347	9106	3.18	0.1160	277488	96.85	0.0361	18135	6.33	0.1540
0.1347	0.1788	5126	1.79	0.1530	282614	98.64	0.0383	9029	3.15	0.1923
0.1788	0.2373	2741	0.96	0.2011	285355	99.59	0.0398	3903	1.36	0.2439
0.2373	0.3149	646	0.23	0.2655	286001	99.82	0.0403	1162	0.41	0.3451
0.3149	0.4179	260	0.09	0.3646	286261	99.91	0.0406	516	0.18	0.4447
0.4179	0.5547	198	0.07	0.4776	286459	99.98	0.0409	256	0.09	0.5261
0.5547	0.7362	40	0.01	0.6061	286499	99.99	0.0410	58	0.02	0.6917
0.7362	0.9770	18	0.01	0.8818	286517	100.00	0.0411	18	0.01	0.8819

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G104) Kriged Grade k_Zn%



*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 12:59 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1		Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2	<*>	Cu	2		c_Cu	2		k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5	<*>	k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7		k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9	<*>	c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755

NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G105) Kriged Grade k_Ag

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS			
		LOG-TRANSFORMED STATS		LOG-DERIVED			
ROCK TYPE	MISSING	BELOW LOG LIMITS	ABOVE LOG LIMITS	INSIDE LOG LIMITS	COEF. OF VAR	MINIMUM	MAXIMUM	MEAN	STD. DEV.	VARIANCE
1	106226	0	0	4732	0.25000	1.7319	0.84219	0.30899	0.09548	
		MEAN	VAR.	STD.DEV	COEF. OF VAR.					
		0.3669	-0.2436	0.1510	0.3886	0.84531	0.4038			
2	1499	0	0	83	0.25000	1.7440	0.66986	0.30248	0.09149	
		0.4516	-0.4963	0.1924	0.4387	0.67027	0.4607			
3	6466	0	0	322	0.25000	1.7745	0.71749	0.33312	0.11097	
		0.4643	-0.4385	0.2170	0.4658	0.71892	0.4923			
4	8	0	0	0	0.	0.	0.	0.	0.	
		0.	0.0000	0.0000	0.0000	0.	0.0000			
5	14236	0	0	778	0.25000	1.8868	0.72554	0.34738	0.12067	
		0.4788	-0.4358	0.2348	0.4846	0.72734	0.5145			
6	205006	0	0	26514	0.25000	3.7263	1.2357	0.62080	0.38539	
		0.5024	0.0733	0.2972	0.5451	1.24837	0.5882			
7	10658	0	0	1944	0.31366	2.8929	1.4677	0.59844	0.35813	
		0.4077	0.2873	0.2128	0.4613	1.48241	0.4869			
8	37604	0	0	7068	0.32199	3.1949	1.4515	0.56907	0.32384	
		0.3921	0.2866	0.1855	0.4307	1.46135	0.4514			
9	41817	0	0	8001	0.42754	8.1755	1.4012	0.52285	0.27337	
		0.3731	0.2666	0.1461	0.3823	1.40444	0.3967			
10	68	0	0	0	0.	0.	0.	0.	0.	
		0.	0.0000	0.0000	0.0000	0.	0.0000			
11	32278	0	0	5804	0.41470	9.0026	1.3862	0.61117	0.37353	
		0.4409	0.2529	0.1409	0.3753	1.38174	0.3890			
13	12803	0	0	2265	0.32036	7.9972	1.3971	0.60292	0.36351	
		0.4316	0.2656	0.1294	0.3597	1.39133	0.3717			
14	105507	0	0	21033	0.30563	6.9403	1.4949	0.47711	0.22764	
		0.3192	0.3544	0.0964	0.3105	1.49579	0.3181			
15	26895	0	0	6307	0.41924	4.0408	1.6033	0.39523	0.15621	
		0.2465	0.4397	0.0689	0.2624	1.60660	0.2670			
16	938	0	0	218	0.88439	3.7535	1.6922	0.35179	0.12375	
		0.2079	0.5060	0.0400	0.1999	1.69202	0.2019			
17	28516	0	0	7292	0.46618	3.8911	1.6291	0.39405	0.15527	
		0.2419	0.4559	0.0690	0.2626	1.63295	0.2672			
18	183053	0	0	34835	0.62380	4.4371	1.5878	0.38278	0.14652	
		0.2411	0.4306	0.0670	0.2588	1.59054	0.2632			
100	42422	0	0	36215	0.25000	3.3585	1.3666	0.44754	0.20029	
		0.3275	0.2518	0.1322	0.3635	1.37426	0.3759			
300	105854	0	0	98	0.85534	2.3686	1.6006	0.28455	0.08097	
		0.1778	0.4539	0.0340	0.1844	1.60151	0.1860			

```
1000       11199           0           0       57499  0.50492   6.0643   1.5118
0.33592  0.57959  0.3834   0.3506   0.1195  0.3457  1.50731   0.3562
2000        1865           0           0       43737  0.25000   22.052   1.3583
0.88751  0.94208  0.6936   0.1982   0.1750  0.4183  1.33070   0.4373
3000        9038           0           0       21772  0.59458   4.6638   1.8570
0.40443  0.63594  0.3425   0.5566   0.1305  0.3613  1.86231   0.3734
-------------------------------------------------------------------------------
-------------------------------------------------------------
 ALL       983956           0           0      286517  0.25000   22.052   1.4612
0.39914  0.63177  0.4324   0.2996   0.1635  0.4044  1.46420   0.4215
-------------------------------------------------------------------------------
-------------------------------------------------------------
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G105) Kriged Grade k_Ag

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT CUM MEAN (ALL VALUES >= LOWER BOUND)
0.2500	0.3128	483	0.17	0.2893	483	0.17
0.2893	286517	100.00	1.4612			
0.3128	0.3913	1243	0.43	0.3511	1726	0.60
0.3338	286034	99.83	1.4632			
0.3913	0.4895	2097	0.73	0.4476	3823	1.33
0.3962	284791	99.40	1.4680			
0.4895	0.6124	6296	2.20	0.5618	10119	3.53
0.4992	282694	98.67	1.4756			
0.6124	0.7662	14219	4.96	0.6950	24338	8.49
0.6136	276398	96.47	1.4964			
0.7662	0.9585	31010	10.82	0.8702	55348	19.32
0.7574	262179	91.51	1.5399			
0.9585	1.1992	45926	16.03	1.0789	101274	35.35
0.9032	231169	80.68	1.6297			
1.1992	1.5002	59957	20.93	1.3511	161231	56.27
1.0697	185243	64.65	1.7663			
1.5002	1.8769	69538	24.27	1.6768	230769	80.54
1.2527	125286	43.73	1.9650			
1.8769	2.3481	38896	13.58	2.0570	269665	94.12
1.3687	55748	19.46	2.3245			
2.3481	2.9376	12924	4.51	2.5830	282589	98.63
1.4242	16852	5.88	2.9418			
2.9376	3.6751	2493	0.87	3.2326	285082	99.50
1.4400	3928	1.37	4.1226			
3.6751	4.5978	754	0.26	3.9785	285836	99.76
1.4467	1435	0.50	5.6687			
4.5978	5.7521	213	0.07	5.1200	286049	99.84
1.4495	681	0.24	7.5402			
5.7521	7.1962	151	0.05	6.4052	286200	99.89
1.4521	468	0.16	8.6417			
7.1962	9.0028	147	0.05	8.0435	286347	99.94

```
    1.4555 |      317   0.11          9.7071 |
 |          9.0028          11.2631 |      111   0.04          9.9544 |   286458  99.98
    1.4587 |      170   0.06         11.1456 |
 |         11.2631          14.0908 |       45   0.02         12.3824 |   286503 100.00
    1.4605 |       59   0.02         13.3866 |
 |         14.0908          17.6284 |       11   0.00         15.4883 |   286514 100.00
    1.4610 |       14   0.00         16.6145 |
 |         17.6284          22.0541 |        3   0.00         20.7480 |   286517 100.00
    1.4612 |        3   0.00         20.7438 |
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G105) Kriged Grade k_Ag

```
   LOWER BOUND   UPPER BOUND        8000     16000     24000     32000     40000
 48000     56000     64000     72000     80000
         >=          <
+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
         0.2500         0.3128|*
         0.3128         0.3913|**
         0.3913         0.4895|***
         0.4895         0.6124|********
         0.6124         0.7662|******************
         0.7662         0.9585|****************************************
         0.9585
1.1992|************************************************************
         1.1992
1.5002|*********************************************************************
         1.5002
1.8769|*********************************************************************
**********
         1.8769         2.3481|**************************************************
         2.3481         2.9376|****************
         2.9376         3.6751|***
         3.6751         4.5978|*
         4.5978         5.7521|
         5.7521         7.1962|
         7.1962         9.0028|
         9.0028        11.2631|
        11.2631        14.0908|
        14.0908        17.6284|
        17.6284        22.0541|

+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
                             0      8000     16000     24000     32000     40000
 48000     56000     64000     72000     80000
```

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 01:08 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS
1	Au	1	c_Au	1	k_Au [ppm 12x12x6]
2 <*>	Cu	2	c_Cu	2	k_Cu% [% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb% [% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn% [% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag [ppm 12x12x6]
6	As	6	c_As	6 <*>	k_As% [% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe% [% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni% [% 12x12x6]
9	S	9 <*>	c_S	9	k_S% [% 12x12x6]
10	V	10	c_V	10	k_V [ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2 [% 12x12x6]
				12	Flag [All estimated k_Au blocks flagged as 1]
				13	k_temp [ ]
				14	au_mif [au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755

NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G106) Kriged Grade k_As%

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS				
		LOG-TRANSFORMED STATS		LOG-DERIVED				
ROCK TYPE	MISSING	BELOW LOG LIMITS	ABOVE LOG LIMITS	INSIDE LOG LIMITS	MINIMUM	MAXIMUM	MEAN	VARIANCE
								STD. DEV.
								COEF. OF VAR.
1	106226	0	0	4732	0.00186	0.28653	0.05653	0.00127
								0.03567
								0.6310
2	1499	0	0	83	0.00201	0.11681	0.04222	0.000688
								0.02622
								0.6211
3	6466	0	0	322	0.00186	0.09866	0.04232	0.000583
								0.02416
								0.5708
4	8	0	0	0	0.	0.	0.	0.
0.	0.	0.0000	0.0000	0.0000	0.	0.0000		
5	14236	0	0	778	0.00355	0.09883	0.03719	0.000539
								0.02322
								0.6243
6	205006	0	0	26514	0.00185	0.42119	0.01884	0.000558
								0.02362
								1.2538
7	10658	0	0	1944	0.00248	0.23743	0.01914	0.000666
								0.02581
								1.3485
8	37604	0	0	7068	0.00226	0.22090	0.01752	0.000404
								0.02009
								1.1466
9	41817	0	0	8001	0.00189	0.22462	0.01604	0.000381
								0.01952
								1.2174
10	68	0	0	0	0.	0.	0.	0.
0.	0.	0.0000	0.0000	0.0000	0.	0.0000		
11	32278	0	0	5804	0.00195	0.26369	0.01704	0.000356
								0.01886
								1.1072
13	12803	0	0	2265	0.00198	0.21561	0.01666	0.000414
								0.02036
								1.2223
14	105507	0	0	21033	0.00195	0.21921	0.01516	0.000249
								0.01579
								1.0416
15	26895	0	0	6307	0.00240	0.12322	0.01346	0.000141
								0.01186
								0.8813
16	938	0	0	218	0.00320	0.07189	0.01307	0.000110
								0.01047
								0.8011
17	28516	0	0	7292	0.00235	0.10536	0.01322	0.000119
								0.01090
								0.8247
18	183053	0	0	34835	0.00111	0.15692	0.01194	0.000099
								0.00994
								0.8319
100	42422	0	0	36215	0.00145	0.37131	0.01798	0.000343
								0.01851
								1.0295
200	0	0	0	0	0.	0.	0.	0.
0.	0.	0.0000	0.0000	0.0000	0.	0.0000		

```
1000        11199           0           0       57499  0.00109  0.50208  0.01894
0.000918  0.03030  1.5993  -4.4492   0.7887  0.8881   0.0173   1.0957
2000         1865           0           0       43737  0.00118  0.42858  0.01811
0.000795  0.02820  1.5575  -4.6149   1.0420  1.0208   0.0167   1.3546
3000         9038           0           0       21772  0.00201  0.30039  0.02872
0.000890  0.02983  1.0387  -3.9818   0.8396  0.9163   0.0284   1.1469
-------------------------------------------------------------------------------
-------------------------------------------------------------
 ALL       878102           0           0      286419  0.00109  0.50208  0.01856
0.000605  0.02460  1.3254  -4.4369   0.7970  0.8927   0.0176   1.1040
-------------------------------------------------------------------------------
-------------------------------------------------------------
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Mineral Resource                        Page       2


 RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
 CURRENT LABEL : (G106) Kriged Grade k_As%


-------------------------------------------------------------------------------
-----------------------------------------------
  |         LOWER           UPPER    |  FREQ   PERCENT       MEAN     |  CUM    PERCENT
    CUM      |  CUM    PERCENT        CUM      |                                |  FREQ
  |         BOUND           BOUND    |                                  |
    MEAN     |  FREQ                    MEAN    |                                |   (ALL VALUES <
UPPER BOUND)   |  (ALL VALUES >= LOWER BOUND)   |

-------------------------------------------------------------------------------
-----------------------------------------------
  |          0.0011         0.0015 |       47   0.02         0.0013 |       47   0.02
     0.0013 |  286419 100.00          0.0186 |
  |          0.0015         0.0020 |      545   0.19         0.0018 |      592   0.21
     0.0018 |  286372  99.98          0.0186 |
  |          0.0020         0.0027 |     5403   1.89         0.0025 |     5995   2.09
     0.0024 |  285827  99.79          0.0186 |
  |          0.0027         0.0037 |    19656   6.86         0.0033 |    25651   8.96
     0.0031 |  280424  97.91          0.0189 |
  |          0.0037         0.0050 |    26823   9.36         0.0044 |    52474  18.32
     0.0037 |  260768  91.04          0.0201 |
  |          0.0050         0.0069 |    29911  10.44         0.0059 |    82385  28.76
     0.0045 |  233945  81.68          0.0219 |
  |          0.0069         0.0093 |    41143  14.36         0.0081 |   123528  43.13
     0.0057 |  204034  71.24          0.0242 |
  |          0.0093         0.0127 |    41377  14.45         0.0109 |   164905  57.57
     0.0070 |  162891  56.87          0.0283 |
  |          0.0127         0.0172 |    33475  11.69         0.0147 |   198380  69.26
     0.0083 |  121514  42.43          0.0342 |
  |          0.0172         0.0234 |    24614   8.59         0.0200 |   222994  77.86
     0.0096 |   88039  30.74          0.0417 |
  |          0.0234         0.0318 |    20640   7.21         0.0272 |   243634  85.06
     0.0111 |   63425  22.14          0.0501 |
  |          0.0318         0.0432 |    16061   5.61         0.0366 |   259695  90.67
     0.0127 |   42785  14.94          0.0611 |
  |          0.0432         0.0587 |    12163   4.25         0.0506 |   271858  94.92
     0.0144 |   26724   9.33          0.0758 |
  |          0.0587         0.0797 |     7679   2.68         0.0673 |   279537  97.60
     0.0158 |   14561   5.08          0.0969 |
  |          0.0797         0.1083 |     3527   1.23         0.0910 |   283064  98.83
     0.0168 |    6882   2.40          0.1299 |
  |          0.1083         0.1472 |     1657   0.58         0.1247 |   284721  99.41
```

```
    0.0174 |    3355   1.17          0.1707 |
 |          0.1472          0.2001 |      925   0.32          0.1698 |   285646  99.73
    0.0179 |    1698   0.59          0.2156 |
 |          0.2001          0.2719 |      467   0.16          0.2301 |   286113  99.89
    0.0182 |     773   0.27          0.2704 |
 |          0.2719          0.3695 |      242   0.08          0.3102 |   286355  99.98
    0.0185 |     306   0.11          0.3319 |
 |          0.3695          0.5021 |       64   0.02          0.4142 |   286419 100.00
    0.0186 |      64   0.02          0.4142 |
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G106) Kriged Grade k_As%

```
   LOWER BOUND   UPPER BOUND        5000     10000     15000     20000     25000
 30000     35000     40000     45000     50000
         >=          <
+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
         0.0011         0.0015|
         0.0015         0.0020|*
         0.0020         0.0027|**********
         0.0027         0.0037|**************************************
         0.0037
0.0050|****************************************************
         0.0050
0.0069|************************************************************
         0.0069
0.0093|*************************************************************************************
*****
         0.0093
0.0127|*************************************************************************************
******
         0.0127
0.0172|************************************************************
         0.0172         0.0234|**************************************************
         0.0234         0.0318|**********************************************
         0.0318         0.0432|********************************
         0.0432         0.0587|************************
         0.0587         0.0797|***************
         0.0797         0.1083|*******
         0.1083         0.1472|***
         0.1472         0.2001|**
         0.2001         0.2719|*
         0.2719         0.3695|
         0.3695         0.5021|

+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
                          0      5000     10000     15000     20000     25000
 30000     35000     40000     45000     50000
```

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 01:03 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE		LABELS	COMPOSITE		LABELS	GRADE		LABELS	
1		Au	1		c_Au	1		k_Au	[ppm 12x12x6]
2	<*>	Cu	2		c_Cu	2		k_Cu%	[% 12x12x6]
3		Pb	3		c_Pb	3		k_Pb%	[% 12x12x6]
4		Zn	4		c_Zn	4		k_Zn%	[% 12x12x6]
5		Ag	5		c_Ag	5		k_Ag	[ppm 12x12x6]
6		As	6		c_As	6		k_As%	[% 12x12x6]
7		Fe	7		c_Fe	7	<*>	k_Fe%	[% 12x12x6]
8		Ni	8		c_Ni	8		k_Ni%	[% 12x12x6]
9		S	9	<*>	c_S	9		k_S%	[% 12x12x6]
10		V	10		c_V	10		k_V	[ppm12x12x6]
11		tmp2	11		c_tmp2	11		k_tmp2	[% 12x12x6]
						12		Flag	[All estimated k_Au blocks flagged as 1]
						13		k_temp	[ ]
						14		au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755

NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G107) Kriged Grade k_Fe%

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT			UNTRANSFORMED STATISTICS		
		LOG-TRANSFORMED STATS		LOG-DERIVED		
ROCK TYPE	MISSING	BELOW LOG LIMITS	ABOVE LOG LIMITS	INSIDE LOG LIMITS	MINIMUM	MAXIMUM	MEAN
VARIANCE	STD. DEV.	COEF. OF VAR	MEAN	VAR.	STD.DEV	COEF. MEAN	OF VAR.
1	106226	0	0	4732	4.9845	7.3164	6.0309
0.18261	0.42733	0.0709	1.7944	0.0051	0.0714	6.0310	0.0715
2	1499	0	0	83	5.5764	7.2015	6.2066
0.11406	0.33773	0.0544	1.8242	0.0028	0.0534	6.2066	0.0534
3	6466	0	0	322	5.5046	7.2738	6.2444
0.09956	0.31553	0.0505	1.8304	0.0025	0.0500	6.2444	0.0501
4	8	0	0	0	0.	0.	0.
0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
5	14236	0	0	778	5.5029	7.2911	6.2128
0.09837	0.31365	0.0505	1.8254	0.0025	0.0496	6.2127	0.0496
6	205006	0	0	26514	5.2861	7.8374	6.1522
0.12268	0.35026	0.0569	1.8152	0.0032	0.0566	6.1522	0.0566
7	10658	0	0	1944	5.2806	7.2722	6.0465
0.15516	0.39390	0.0651	1.7974	0.0042	0.0649	6.0465	0.0650
8	37604	0	0	7068	4.8662	7.2656	5.9926
0.15954	0.39942	0.0667	1.7883	0.0044	0.0665	5.9926	0.0665
9	41817	0	0	8001	4.8662	7.2960	5.9993
0.14198	0.37681	0.0628	1.7897	0.0039	0.0628	5.9993	0.0629
10	68	0	0	0	0.	0.	0.
0.	0.	0.0000	0.0000	0.0000	0.0000	0.	0.0000
11	32278	0	0	5804	4.9429	7.2932	6.0039
0.15681	0.39600	0.0660	1.7902	0.0043	0.0659	6.0039	0.0660
13	12803	0	0	2265	5.0550	7.3930	5.9764
0.18259	0.42730	0.0715	1.7853	0.0051	0.0712	5.9763	0.0713
14	105507	0	0	21033	4.7697	9.1209	5.8222
0.23036	0.47995	0.0824	1.7583	0.0066	0.0815	5.8220	0.0816
15	26895	0	0	6307	4.6252	8.2837	5.6030
0.22030	0.46936	0.0838	1.7199	0.0067	0.0818	5.6027	0.0819
16	938	0	0	218	4.7118	6.9136	5.3833
0.17750	0.42131	0.0783	1.6804	0.0057	0.0753	5.3830	0.0754
17	28516	0	0	7292	4.6143	7.2816	5.5529
0.25590	0.50587	0.0911	1.7103	0.0080	0.0892	5.5526	0.0893
18	183053	0	0	34835	4.0155	7.2199	5.4093
0.33372	0.57769	0.1068	1.6824	0.0113	0.1064	5.4091	0.1067
100	42422	0	0	36215	3.9516	8.1778	5.9012
0.34270	0.58540	0.0992	1.7701	0.0103	0.1016	5.9018	0.1019
300	105854	0	0	98	5.9333	7.0834	6.4622
0.06284	0.25067	0.0388	1.8652	0.0015	0.0385	6.4622	0.0386

```
1000       11199          0          0      57499   4.1744   9.1198   6.2327
0.25407  0.50405  0.0809   1.8265   0.0066  0.0814   6.2329   0.0816
2000        1865          0          0      43737   4.5087   8.8757   6.3420
0.25615  0.50611  0.0798   1.8440   0.0063  0.0795   6.3420   0.0796
3000        9038          0          0      21772   5.1465   7.5617   6.0508
0.08291  0.28794  0.0476   1.7991   0.0022  0.0472   6.0507   0.0472
-------------------------------------------------------------------------------
-------------------------------------------------------------
 ALL      983956          0          0     286517   3.9516   9.1209   6.0005
0.32323  0.56854  0.0947   1.7873   0.0090  0.0946   6.0001   0.0948
-------------------------------------------------------------------------------
-------------------------------------------------------------
 MicroMODEL Software  -  Version 7.00   Licensed to: Tetra Tech MM, Inc | Div:
Mineral Resource                        Page       2


 RUNTIME TITLE : Calculate Statistics
 PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
 CURRENT LABEL : (G107) Kriged Grade k_Fe%


-------------------------------------------------------------------------------
-----------------------------------------------
  |         LOWER           UPPER    |  FREQ   PERCENT       MEAN     |  CUM    PERCENT
    CUM      |  CUM    PERCENT        CUM      |                         |  FREQ
  |         BOUND           BOUND    |                                  |
    MEAN     |  FREQ                    MEAN    |                         |   (ALL VALUES <
UPPER BOUND)   |  (ALL VALUES >= LOWER BOUND)   |

-------------------------------------------------------------------------------
-----------------------------------------------
  |          3.9516         4.1204 |      53   0.02         4.0686 |       53   0.02
     4.0686 |  286517 100.00          6.0005 |
  |          4.1204         4.2964 |     174   0.06         4.1953 |      227   0.08
     4.1657 |  286464  99.98          6.0008 |
  |          4.2964         4.4799 |     909   0.32         4.3956 |     1136   0.40
     4.3497 |  286290  99.92          6.0019 |
  |          4.4799         4.6712 |    5040   1.76         4.5870 |     6176   2.16
     4.5433 |  285381  99.60          6.0071 |
  |          4.6712         4.8708 |    3392   1.18         4.7824 |     9568   3.34
     4.6281 |  280341  97.84          6.0326 |
  |          4.8708         5.0788 |    7085   2.47         4.9842 |    16653   5.81
     4.7796 |  276949  96.66          6.0479 |
  |          5.0788         5.2958 |   14646   5.11         5.1944 |    31299  10.92
     4.9737 |  269864  94.19          6.0758 |
  |          5.2958         5.5220 |   24787   8.65         5.4187 |    56086  19.58
     5.1704 |  255218  89.08          6.1264 |
  |          5.5220         5.7578 |   32580  11.37         5.6467 |    88666  30.95
     5.3454 |  230431  80.42          6.2025 |
  |          5.7578         6.0038 |   48170  16.81         5.8863 |   136836  47.76
     5.5358 |  197851  69.05          6.2940 |
  |          6.0038         6.2602 |   56854  19.84         6.1318 |   193690  67.60
     5.7108 |  149681  52.24          6.4253 |
  |          6.2602         6.5276 |   46830  16.34         6.3847 |   240520  83.95
     5.8420 |   92827  32.40          6.6050 |
  |          6.5276         6.8065 |   27399   9.56         6.6508 |   267919  93.51
     5.9247 |   45997  16.05          6.8293 |
  |          6.8065         7.0972 |   11799   4.12         6.9258 |   279718  97.63
     5.9669 |   18598   6.49          7.0922 |
  |          7.0972         7.4004 |    4411   1.54         7.2225 |   284129  99.17
     5.9864 |    6799   2.37          7.3809 |
  |          7.4004         7.7165 |    1641   0.57         7.5299 |   285770  99.74
```

```
    5.9953 |    2388   0.83          7.6736 |
 |          7.7165          8.0461 |      512   0.18          7.8456 |   286282  99.92
    5.9986 |     747   0.26          7.9892 |
 |          8.0461          8.3898 |      173   0.06          8.1887 |   286455  99.98
    5.9999 |     235   0.08          8.3023 |
 |          8.3898          8.7481 |       48   0.02          8.5315 |   286503 100.00
    6.0003 |      62   0.02          8.6191 |
 |          8.7481          9.1218 |       14   0.00          8.9265 |   286517 100.00
    6.0005 |      14   0.00          8.9194 |
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G107) Kriged Grade k_Fe%

```
   LOWER BOUND   UPPER BOUND        6000     12000     18000     24000     30000
 36000     42000     48000     54000     60000
         >=          <
+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
         3.9516         4.1204|
         4.1204         4.2964|
         4.2964         4.4799|**
         4.4799         4.6712|********
         4.6712         4.8708|******
         4.8708         5.0788|************
         5.0788         5.2958|************************
         5.2958         5.5220|****************************************
         5.5220
5.7578|*************************************************
         5.7578
6.0038|*************************************************************************************
***
         6.0038
6.2602|*************************************************************************************
******************
         6.2602
6.5276|*************************************************************************************
*
         6.5276         6.8065|*********************************************
         6.8065         7.0972|********************
         7.0972         7.4004|*******
         7.4004         7.7165|***
         7.7165         8.0461|*
         8.0461         8.3898|
         8.3898         8.7481|
         8.7481         9.1218|

+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
                          0      6000     12000     18000     24000     30000
 36000     42000     48000     54000     60000
```

*** MICROMODEL ***

DEPOSIT MODELLING AND
MINE PLANNING SYSTEM
(Version 7.00)

CURRENT TIME : 08-May-08 01:05 PM

PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc

RUNTIME TITLE : Calculate Statistics

LABELS
CURRENT LABEL IS DENOTED BY "<*>"

SAMPLE	LABELS	COMPOSITE	LABELS	GRADE	LABELS	
1	Au	1	c_Au	1	k_Au	[ppm 12x12x6]
2 <*>	Cu	2	c_Cu	2	k_Cu%	[% 12x12x6]
3	Pb	3	c_Pb	3	k_Pb%	[% 12x12x6]
4	Zn	4	c_Zn	4	k_Zn%	[% 12x12x6]
5	Ag	5	c_Ag	5	k_Ag	[ppm 12x12x6]
6	As	6	c_As	6	k_As%	[% 12x12x6]
7	Fe	7	c_Fe	7	k_Fe%	[% 12x12x6]
8	Ni	8	c_Ni	8	k_Ni%	[% 12x12x6]
9	S	9 <*>	c_S	9 <*>	k_S%	[% 12x12x6]
10	V	10	c_V	10	k_V	[ppm12x12x6]
11	tmp2	11	c_tmp2	11	k_tmp2	[% 12x12x6]
				12	Flag	[All estimated k_Au blocks flagged as 1]
				13	k_temp	[ ]
				14	au_mif	[au_30-measured, 20-indicated, 10-inferred,0-fantasy]

ORIGIN IS LOCATED AT 8434032.00 NORTH 186384.00 EAST -388.00 ELEVATION
ROTATION ANGLE FROM NORTH CLOCKWISE TO THE LEFT BOUNDARY IS : 0.00

NUMBER OF ROWS : 149 ROW DIMENSION : 12.00 METERS
NUMBER OF COLUMNS : 93 COLUMN DIMENSION : 12.00 METERS
NUMBER OF LEVELS : 102 LEVEL DIMENSION : 6.00 METERS

NUMBER OF SAMPLE DRILLHOLES CURRENTLY ENTERED : 755 NUMBER OF COMPOSITE DRILLHOLES CURRENTLY ENTERED : 755

NUMBER OF SAMPLE ASSAY VALUES : 100685 NUMBER OF COMPOSITE ASSAY VALUES : 25300

RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G109) Kriged Grade k_S%

THIRD PARAMETER FOR LOG TRANSFORM = 0.000000

	BLOCK COUNT				UNTRANSFORMED STATISTICS			
		LOG-TRANSFORMED STATS			LOG-DERIVED			
ROCK		BELOW	ABOVE	INSIDE				
	STD. COEF.	LOG	LOG	LOG	COEF.			
TYPE	MISSING	LIMITS	LIMITS	LIMITS	MINIMUM	MAXIMUM	MEAN	
VARIANCE	DEV. OF VAR	MEAN	VAR.	STD.DEV	MEAN	OF VAR.		
1	106226	0	0	4732	0.10273	1.0216	0.39398	
0.01709	0.13074 0.3318	-0.9817	0.0983	0.3135	0.39353	0.3213		
2	1499	0	0	83	0.23332	0.85115	0.38000	
0.01243	0.11151 0.2934	-1.0017	0.0627	0.2504	0.3789	0.2544		
3	6466	0	0	322	0.23120	1.0076	0.41187	
0.02012	0.14185 0.3444	-0.9377	0.0952	0.3086	0.41062	0.3161		
4	8	0	0	0	0.	0.	0.	
0.	0. 0.0000	0.0000	0.0000	0.0000	0.	0.0000		
5	14236	0	0	778	0.23643	1.0195	0.42208	
0.02075	0.14406 0.3413	-0.9140	0.0981	0.3132	0.42106	0.3210		
6	205006	0	0	26514	0.10723	2.2066	0.57477	
0.09785	0.31280 0.5442	-0.6864	0.2630	0.5128	0.57410	0.5484		
7	10658	0	0	1944	0.12157	1.8230	0.63097	
0.14102	0.37552 0.5952	-0.6310	0.3445	0.5870	0.63210	0.6414		
8	37604	0	0	7068	0.07457	1.9061	0.66735	
0.12866	0.35870 0.5375	-0.5577	0.3309	0.5753	0.67554	0.6263		
9	41817	0	0	8001	0.07457	1.9381	0.76259	
0.11700	0.34206 0.4485	-0.3938	0.2894	0.5379	0.77948	0.5793		
10	68	0	0	0	0.	0.	0.	
0.	0. 0.0000	0.0000	0.0000	0.0000	0.	0.0000		
11	32278	0	0	5804	0.07990	1.7979	0.84664	
0.11652	0.34135 0.4032	-0.2764	0.2748	0.5242	0.87025	0.5624		
13	12803	0	0	2265	0.09960	1.8480	0.87797	
0.12538	0.35409 0.4033	-0.2480	0.3043	0.5516	0.90861	0.5964		
14	105507	0	0	21033	0.09977	2.6061	0.83907	
0.12837	0.35829 0.4270	-0.2933	0.2820	0.5310	0.85870	0.5708		
15	26895	0	0	6307	0.09021	2.2782	0.74428	
0.13702	0.37017 0.4974	-0.4401	0.3261	0.5711	0.75806	0.6210		
16	938	0	0	218	0.10151	1.4786	0.54919	
0.10603	0.32563 0.5929	-0.7656	0.3393	0.5825	0.55103	0.6356		
17	28516	0	0	7292	0.08772	1.9019	0.71465	
0.14794	0.38463 0.5382	-0.5044	0.3810	0.6173	0.73057	0.6810		
18	183053	0	0	34835	0.00418	2.1844	0.58359	
0.18169	0.42625 0.7304	-0.9533	1.3365	1.1561	0.75195	1.6750		
100	42422	0	0	36215	0.00410	1.9602	0.71100	
0.15399	0.39241 0.5519	-0.5455	0.5633	0.7505	0.76806	0.8697		
300	105854	0	0	98	0.95824	1.6719	1.2260	
0.02971	0.17238 0.1406	0.1943	0.0186	0.1363	1.22582	0.1369		

```
1000       11199          0          0      57499  0.14677   3.1211   1.0819
0.19587  0.44257  0.4091  -0.0193   0.2183  0.4672  1.09400   0.4939
2000        1865          0          0      43737  0.09799   2.7544   1.0943
0.20933  0.45753  0.4181  -0.0327   0.3007  0.5483  1.12485   0.5922
3000        9038          0          0      21772  0.15956   2.2305  0.85887
0.12784  0.35755  0.4163  -0.2461   0.2007  0.4480  0.86432   0.4714
-------------------------------------------------------------------------------
-------------------------------------------------------------
 ALL       983956          0          0     286517  0.00410   3.1211  0.83478
0.20316  0.45073  0.5399  -0.3771   0.5374  0.7330  0.89720   0.8435
-------------------------------------------------------------------------------
-------------------------------------------------------------
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G109) Kriged Grade k_S%

LOWER BOUND >=	UPPER BOUND <	FREQ	PERCENT	MEAN	CUM FREQ (ALL VALUES < UPPER BOUND)	PERCENT CUM MEAN	CUM FREQ (ALL VALUES >= LOWER BOUND)	PERCENT
0.0041	0.0057	584	0.20	0.0044	584	0.20	0.0044	286517	100.00	0.8348
0.0057	0.0080	159	0.06	0.0076	743	0.26	0.0051	285933	99.80	0.8365
0.0080	0.0111	364	0.13	0.0083	1107	0.39	0.0061	285774	99.74	0.8369
0.0111	0.0155	194	0.07	0.0140	1301	0.45	0.0073	285410	99.61	0.8380
0.0155	0.0216	946	0.33	0.0181	2247	0.78	0.0119	285216	99.55	0.8386
0.0216	0.0300	89	0.03	0.0256	2336	0.82	0.0124	284270	99.22	0.8413
0.0300	0.0418	6	0.00	0.0389	2342	0.82	0.0124	284181	99.18	0.8415
0.0418	0.0583	66	0.02	0.0495	2408	0.84	0.0135	284175	99.18	0.8416
0.0583	0.0812	301	0.11	0.0745	2709	0.95	0.0202	284109	99.16	0.8417
0.0812	0.1132	1489	0.52	0.1028	4198	1.47	0.0495	283808	99.05	0.8426
0.1132	0.1577	4195	1.46	0.1344	8393	2.93	0.0920	282319	98.53	0.8465
0.1577	0.2197	6002	2.09	0.1991	14395	5.02	0.1366	278124	97.07	0.8572
0.2197	0.3061	18385	6.42	0.2651	32780	11.44	0.2087	272122	94.98	0.8717
0.3061	0.4266	31269	10.91	0.3678	64049	22.35	0.2864	253737	88.56	0.9157
0.4266	0.5944	42442	14.81	0.5064	106491	37.17	0.3740	222468	77.65	0.9927
0.5944	0.8282	45634	15.93	0.7067	152125	53.09				

```
    0.4738 |  180026  62.83          1.1073 |
 |         0.8282          1.1539 |   55610  19.41          0.9939 |  207735  72.50
    0.6131 |  134392  46.91          1.2433 |
 |         1.1539          1.6078 |   65460  22.85          1.3415 |  273195  95.35
    0.7876 |   78782  27.50          1.4194 |
 |         1.6078          2.2403 |   12805   4.47          1.7781 |  286000  99.82
    0.8319 |   13322   4.65          1.8025 |
 |         2.2403          3.1215 |     517   0.18          2.4078 |  286517 100.00
    0.8348 |     517   0.18          2.4077 |
```


RUNTIME TITLE : Calculate Statistics
PROJECT TITLE : mt_todd estimation 12x12x6 au_cu_pb_zn_fe_S etc
CURRENT LABEL : (G109) Kriged Grade k_S%

```
   LOWER BOUND   UPPER BOUND        8000     16000     24000     32000     40000
 48000     56000     64000     72000     80000
         >=          <
+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
         0.0041          0.0057|*
         0.0057          0.0080|
         0.0080          0.0111|
         0.0111          0.0155|
         0.0155          0.0216|*
         0.0216          0.0300|
         0.0300          0.0418|
         0.0418          0.0583|
         0.0583          0.0812|
         0.0812          0.1132|**
         0.1132          0.1577|*****
         0.1577          0.2197|********
         0.2197          0.3061|************************
         0.3061          0.4266|****************************************
         0.4266          0.5944|********************************************************
         0.5944
0.8282|*******************************************************
         0.8282
1.1539|*********************************************************************
         1.1539
1.6078|*************************************************************************************
*****
         1.6078          2.2403|****************
         2.2403          3.1215|*

+---------+---------+---------+---------+---------+---------+---------+---------+---
------+---------+
                               0      8000     16000     24000     32000     40000
 48000     56000     64000     72000     80000
```